TRANSMEMBRANE NEOANTIGENIC PEPTIDES

FIELD OF THE DISCLOSURE

The present disclosure provides transmembrane chimeric proteins and tumor neoantigenic peptides encoded by transposable element (TE)-exon fusion transcripts, nucleic acids, vaccines, antibodies and immune cells that can be used in cancer therapy.

BACKGROUND

High precision tumor targeting has been revolutionized by the emergence of T cell-based immunotherapies using the infusion of activated, genetically engineered T cells and other immune cells, or by delivery of mono- or bi-specific antibodies (such as BiTEs). Chimeric antigen receptor (CAR) T cells and BiTEs are the main forms of T cell redirection immunotherapies, using single chain variable fragment (scFv) targeting of tumours to induce target cell death. Using these approaches to redirect the immune cell-targeting has enabled the elimination of malignant cells, previously 'invisible' to the immune system, and provided excellent therapeutic results in patients with certain relapsed or refractory tumours. This occurs particularly efficiently in the case of CAR T cells, where the fusion of antibody binding domains to T cell signaling proteins such as CD3, has the capacity to redirect the T cell specificity for antigens. A major advantage of a CAR is that the T cells are activated and can exert effector functions such as release of cytotoxic granules and cytokines without recognition of peptide presentation by major histocompatibility complex (MHC) as the CAR interacts directly with cell surface molecules.

Despite the ability to engineer, redirect and influence cell functions and interactions, there are challenges associated with targeting proteins expressed on tumour cells. The lack of real tumor-specific antigens (TSA) and the development of antigen escape within the tumor remain major challenges to effective targeted therapies, and approaches such as dual antigen targeting have shown promising early results. These challenges resulted in a strong effort to discover biomarkers for hematological and solid malignancies.

TSA are exclusively expressed on malignant tumors and are usually thought of in the context of mutations in proteins presented on the cell surface via MHC. However, the category of TSA can be expanded to include proteins derived from tumor-specific fusion transcripts, tumor

specific glycosylation, tumor specific mutations in cell surface proteins and misfolded proteins that escape refolding within the endoplasmic reticulum.

Therapeutic targeting of tumour associated antigens (TAA) has been successful in some cases, but also served as a warning of the potential off tumour effects that can be associated with therapy. This class of targets are broadly defined as either having a greater level of expression in malignant tissue compared to matched healthy tissues, such as human epidermal growth factor receptor 2 (HER2), or are lineage restricted in their expression, such as CD19. Unlike TSA, TAA will often have on-target side effects which make it more difficult to disentangle direct treatment related side-effects with on-target/off-tumor toxicities. CD19 targeted CAR T cell therapy in CD19-expressing tumors was the breakthrough therapy to show that CAR T cells could be clinically effective. Therefore, the targeting of lineage specific TAAs is possible, but only justified when the healthy tissue is considered to be dispensable or there is an acceptable level of toxicity.

Identifying shared true TSA (absent from tissues) or TAA with minimum on-target/off-tumor risk is a major challenge for the immune-oncology field.

A few prior reports regarding transposable elements (TE) in tumors include (Helman, E. *et al.* (2014). *Genome Res.*)(Schiavetti, F. *et al.* (2002). *Cancer Res.*, Takahashi, Y. *et al.* (2008). *J. Clin. Invest.*). (Chiappinelli, K.B. *et al.* (2015). *Cell*, Roulois, D. *et al.* (2015). *Cell*). However, the relationship of TE to the antigenic landscape expressed by tumor cells has not been investigated in depth.

New tumor neoantigens would be of interest and might improve or reduce the cost of cancer therapy in particular in the case of adoptive cell therapy, targeted therapies with antigen binding domains and vaccination strategies.

SUMMARY

The present disclosure provides chimeric polypeptides (or proteins) and nucleotide sequences encoding such polypeptide sequences; an antibody, or an antigen-binding fragment thereof, a T cell receptor (TCR) in particular a non-HLA restricted TCR, or a chimeric antigen receptor (CAR) that specifically binds such chimeric polypeptides or proteins; methods of producing such antibodies, TCRs or CARs; polynucleotides encoding such neoantigenic peptides, antibodies, CARs or TCRs, optionally linked to a heterologous regulatory control sequence;

immune cells that specifically bind to such chimeric polynucleotides or proteins; and methods, notably therapeutics methods of using such products.

The present disclosure provides a tumor chimeric polypeptide (or protein) comprising or consisting of any one of SEQ ID NO:1 to 21542 and containing neoantigenic sequences, wherein said protein is located at the cell membrane.

Most particularly, the present disclosure further provides an isolated tumor neoantigenic sequence (typically an epitope), wherein the sequence is from any one of chimeric proteins of SEQ ID NO:1-8202, including a fragment thereof, and comprises at least a portion of a TE-derived amino acid sequence or is from any one of SEQ ID NO:1424-8202, 8203-10163, and 12831-21542, notably derives from chimeric fusion transcript sequences wherein the donor is the TE. In some embodiments, the tumor neoantigenic sequence overlaps the breakpoint between, the TE-derived amino acid sequence and the exon-derived amino acid sequence. In other embodiments, the tumor neoantigenic sequence is derived from a pure TE sequence. In yet other embodiments, the tumor neoantigenic sequence is encoded by a non-canonical ORF downstream of the junction between the TE-derived amino acid sequence and the exon-derived amino acid sequence. Typically, the tumor neoantigenic sequence is from the extracellular portion of the chimeric protein to which it belongs.

Typically, the transmembrane chimeric protein is expressed in more than 1 %, notably more than 5 %, and typically more than 10% of the tumor samples.

Typically, the transmembrane chimeric protein is expressed at higher levels in tumor samples as compared to normal samples.

Typically, the chimeric protein is expressed in less than 20%, notably less than 10 %, less than 5 % or less than 1 % of the normal samples.

In certain embodiments, the part of the sequence of the chimeric protein derived from the TE nucleotide sequence is exposed at the cell surface.

The present disclosure further encompasses an antigen binding domain that binds a transmembrane chimeric protein as herein defined and in particular that binds a tumor neoantigenic sequence (typically an epitope) from any one of the chimeric proteins of SEQ ID 1-8202 with a Kd binding affinity of less than about 10-7 M. Antibodies, TCRs or CARs that specifically bind the transmembrane chimeric polypeptides or proteins as herein disclosed may bind a tumor neoantigenic peptide sequence of at least 4, at least 5, at least 6, or at least 7 amino acids.

In some embodiments, the antigen binding domain binds a sequence from any one of the chimeric proteins as herein disclosed that comprises at least a portion of a TE-derived amino acid sequence or is from any one of SEQ ID NO:1424-8202, 8203-10163, and 12831-21542, notably derives from chimeric fusion transcript sequences wherein the donor is the TE. In some embodiments, the sequence or fragment of the chimeric proteins bound by the antigen binding domain overlaps the breakpoint between, the TE-derived amino acid sequence and the exon-derived amino acid sequence. In other embodiments, the neoantigenic peptide is derived from a pure TE sequence. In yet other embodiments, the sequence or fragment of the chimeric proteins bound by the antigen binding domain is encoded by a non-canonical ORF downstream of the junction between the TE-derived amino acid sequence and the exon-derived amino acid sequence.

In certain embodiments, the antigen binding domain comprises one or more, typically one or two immunoglobulin region(s).

Notably, the antigen binding domain can comprise a heavy chain variable region (VH) of an antibody and/ or a light chain variable region (VL) of an antibody.

The present disclosure also encompasses an antibody comprising an antigen binding domain as herein defined wherein the antibody is selected from a full IgG, an scFv, a BiTE, or a multispecific antibody. The antibody can be of human murine or camelid origin.

The present disclosure also encompasses a chimeric antigen receptor (CAR) or a non-HLA restricted recombinant T cell receptor (TCR) comprising an antigen-binding domain as herein defined.

Typically non-HLA restricted recombinant TCR of the present disclosure comprises an extracellular antigen-binding domain which is capable of dimerizing with a second extracellular antigen-binding domain. In some embodiments, the second extracellular antigen-binding domain binds a tumor antigen, preferably wherein the tumor antigen is selected from pHER95, CD19, MUC16, MUC1, CAIX, CEA, CD8, CD7, CD10, CD20, CD22, CD30, CD70, CLL1, CD33, CD34, CD38, CD41, CD44, CD49f, CD56, CD74, CD133, CD138, EGP-2, EGP-40, EpCAM, Erb-B2, Erb-B3, Erb-B4, FBP, Fetal acetylcholine receptor, folate receptor-a, GD2, GD3, HER-2, hTERT, IL-13R-a2, κ-light chain, KDR, LeY, L1 cell adhesion molecule, MAGE-A1, Mesothelin, MAGEA3, p53, MART1,GP100, Proteinase3 (PR1), Tyrosinase, Survivin, hTERT, EphA2, NKG2D ligands, NY-ESO-1, oncofetal antigen (h5T4), PSCA,

PSMA, ROR1, TAG-72, VEGF-R2, WT-1, BCMA, CD123, CD44V6, NKCS1, EGF1R, EGFR-VIII, CD99, CD70, ADGRE2, CCR1, LILRB2, LILRB4, PRAME, and ERBB.

The present disclosure further encompasses a CAR comprising:

a) an extracellular domain comprising one or more antigen binding domain(s) at least one of which is selected from the antigen-binding domains as herein described,

b) a transmembrane domain,

c) optionally one or more costimulatory domains, for example selected from CD28, 4-1BB (CD137), ICOS-1, CD27, OX 40 (CD137), DAP10, and GITR (AITR)

d) one or more intracellular signaling domain(s) comprising one or more ITAMs, for example: the intracellular signaling domain or a portion thereof from CD3-zeta, or a variant thereof lacking one or two ITAMs (e.g.: ITAM3 and/or ITAM2 see also as detailed above and bibliographic references), FcR gamma, FcR beta, CD3 gamma, CD3 delta, CD3 epsilon, CDS, CD22, CD79a, CD79b, and/or CD66d, notably an intracellular signaling domain comprising a modified CD3zeta intracellular signaling domain in which ITAM2 and ITAM3 have been inactivated,

In some embodiments, the CAR as herein disclosed comprises a transmembrane domain selected from CD28, CD8 or CD3-zeta.

In some embodiments, the CAR as herein disclosed comprises one or more costimulatory domains which can be selected from the group consisting of: CD28, 4-1BB (CD137), ICOS-1, CD27, OX 40 (CD137), DAP10, and GITR (AITR).

In some embodiments, the CAR as herein disclosed comprises an intracellular signaling domain comprising the intracellular signaling domain of a CD3-zeta polypeptide, or a fragment thereof, optionally a CD3-zeta polypeptide wherein immunoreceptor tyrosine-based activation motif 2 (ITAM2) and immunoreceptor tyrosine-based activation motif 3 (ITAM3) are inactivated.

The present disclosure also encompasses:

- an antibody, or an antigen-binding fragment thereof, a T cell receptor (TCR), or a chimeric antigen receptor (CAR) that has been selected for its binding affinity to a chimeric protein from any one of SEQ ID NO:1-21542, including a portion thereof, e.g. of a length at least 4, 5, 6 7, or 8 amino acids, or a composition comprising such antibody, antigen-binding fragment thereof, TCR or CAR.

- a polynucleotide encoding a neoantigenic peptide, an antibody, a CAR or a TCR as herein defined, typically operatively linked to a heterologous regulatory control nucleotide sequence, and a vector encoding such polynucleotide,;
- an immune cell, or a population or immune cells that targets one or more chimeric proteins from any one of SEQ ID NO:1-21542, including a portion thereof, e.g. of a length at least 4, 5, 6 7, or 8 amino acids, wherein the population of immune cells preferably targets a plurality of different chimeric proteins or fragment(s) thereof as herein disclosed, or a composition comprising such immune cells or population of immune cells optionally in combination with a physiologically or pharmacologically acceptable buffer, carrier, excipient, immunostimulant and/or adjuvant.

Typically, the antibody or antigen-binding fragment thereof, TCR or CAR binds a chimeric protein or a fragment thereof expressed on the surface of a cell, with a Kd affinity of about 10^{-6} M or less.

The present disclosure further provides a method of producing an antibody, a non-HLA restricted TCR or a CAR as herein defined comprising an antigen-binding domain as herein defined comprising the step of selecting an antibody, non-HLA restricted TCR or a CAR that binds to a chimeric protein, or a fragment thereof, of the present disclosure, typically any one of the transmembrane chimeric polypeptide sequences of SEQ ID NO:1-21542, with a Kd affinity constant of about 10^{-7} M or less. The present disclosure also encompasses antibodies, CAR and TCRs produced by such method.

The present disclosure further encompasses a polynucleotide encoding a chimeric protein or polypeptide, an antibody, a CAR and/or a non-HLA restricted TCR as herein defined, optionally linked to a heterologous regulatory control sequence and vectors comprising thereof. The present disclosure also encompasses an immune cell comprising a CAR and or a TCR, in particular a non-HLA restricted TCR as defined herein. Said immune cell can be allogenic or autologous. It is typically selected from T cells, Natural Killer T cells, CD4+/CD8+ T cells, TILs/tumor derived CD8 T cells, central memory CD8+ T cells, Treg, MAIT, Yδ T cells, human embryonic stem cells, and pluripotent stem cells from which lymphoid cells may be differentiated. In certain embodiment, the immune cell is defective for Suv39h1, in particular in said immune cell the Suv39h1 gene is disrupted by deletion of the entire gene, exon, or region, replacement with an exogenous sequence, and/or mutation by frameshift or missense mutation within the gene suv39h1 gene. The Suv39h1 gene is typically the human Suv39h1 gene encoding the human Suv39h1 protein referenced O43463 in UniProt. Methods of

preparing such immune cells are also contemplated, for example, by delivering a nucleic acid or vector encoding any of the antibody, TCR, or CAR described herein to the cell, in vivo or ex vivo.

The present disclosure further encompasses a pharmaceutical composition comprising an effective amount of an immune cell as defined herein and a pharmaceutically acceptable excipient.

The present disclosure also encompasses therapeutic use, in particular for inhibiting cancer cell proliferation or for cancer treatment of a chimeric protein or polypeptide, an antibody a non-HLA restricted TCR, a CAR, a polynucleotide, a vector, an immune cell as herein defined or of a composition comprising thereof in a subject in need thereof. Typically, the composition further comprises a pharmaceutical excipient. Treatment as used herein includes both prophylactic and therapeutic treatment.

The present disclosure also encompasses the use in cell therapy of cancer, of a chimeric protein or polypeptide, an antibody a non-HLA restricted TCR, a CAR, a polynucleotide, a vector, an immune cell as herein defined or of a composition comprising thereof in a subject in need thereof. Typically, the composition further comprises a pharmaceutical excipient.

Pharmaceutical compositions comprising any of the foregoing, optionally with a sterile pharmaceutically acceptable excipient(s), carrier, and/or buffer are also contemplated as well as methods of using them.

In any of the embodiments described herein, the Cancer Therapeutic Products (i.e., the transmembrane chimeric protein or polypeptide, the antibody the non-HLA restricted TCR, the CAR, the polynucleotide, the vector, the immune cell as herein defined or the composition comprising thereof) as above defined can be administered in combination with at least one further therapeutic agent. Such further therapeutic agent can typically be a chemotherapeutic agent, or an immunotherapeutic agent, optionally a checkpoint inhibitor.

For example, according to the present disclosure, any of the Cancer Therapeutic Products can be administered in combination with an anti-immunosuppressive/immunostimulatory agent. For example, the subject is further administered with one or more checkpoint inhibitors typically selected from PD-1 inhibitors, PD-L1 inhibitors, Lag-3 inhibitors, Tim-3 inhibitors, TIGIT inhibitors, BTLA inhibitors, V-domain Ig suppressor of T-cell activation (VISTA) inhibitors and CTLA-4 inhibitors, or IDO inhibitors.

Various embodiments of the methods, chimeric proteins or polypeptides and Cancer Therapeutic Products are described in detailed below. Except for alternatives clearly mentioned, combinations of such embodiments are encompassed by the present application.

DETAILED DISCLOSURE

Transposable elements (TEs) expression in normal tissues is silenced by DNA methylation established early during embryonic development. An additional layer of inhibition is provided by histone modifications. TEs can be re-activated in tumor cells. The inventors have discovered and provided clear evidence that non-canonical alternative splicing events between exons and TEs can be a source of tumor antigens, in particular of tumor-specific antigens.

The Inventors have developed a method for identifying a tumor antigen, and notably a tumor specific antigen. In particular, the inventors have identified a method for identifying tumor antigens derived from junctions between TEs and exons (JETs). In some embodiments, the present invention therefore relates to a method and identifying and selecting a tumor neoantigenic peptide encoded by a fusion (i.e. chimeric also named herein Junction Exon TE - JET) transcript sequence comprising a part of a TE sequence and a part of an exonic sequence.

The inventors further herein provide a set of transmembrane tumor chimeric proteins or polypeptides that represent excellent cell surface tumor neoantigen target candidates.

The neoantigenic tumor specific peptides identified by the method according to the present disclosure are highly immunogenic. Indeed, because they are derived from a fusion transcript (composed of a transposable element - TE- and an exonic sequence) from normal cells absent or expressed at low level, the peptides of the present disclosure are expected to exhibit very low immunological tolerance.

The present disclosure also allows selecting peptides having shared tumor neoepitopes among a population of patients. Such shared tumor peptides are of high therapeutic interest since they may be used in immunotherapy for a large population of patients.

Definitions

According to the present disclosure, the term "**disease**" refers to any pathological state, including cancer diseases, in particular those forms of cancer diseases described herein.

The term "**normal**" refers to the healthy state or the conditions in a healthy subject or tissue, i.e., non-pathological conditions, wherein "healthy" preferably means non-cancerous.

Cancer (medical term: malignant neoplasm) is a class of diseases in which a group of cells display uncontrolled growth (division beyond the normal limits), invasion (intrusion on and destruction of adjacent tissues), and sometimes metastasis (spread to other locations in the body via lymph or blood). These three malignant properties of cancers differentiate them from benign tumors, which are self-limited, and do not invade or metastasize. Most cancers form a tumor but some, like leukemia, do not.

Malignant tumor is essentially synonymous with cancer. Malignancy, malignant neoplasm, and malignant tumor are essentially synonymous with cancer.

As used herein, the term "tumor" or "tumor disease" refers to an abnormal growth of cells (called neoplastic cells, tumorigenous cells or tumor cells) preferably forming a swelling or lesion. By "tumor cell" is meant an abnormal cell that grows by a rapid, uncontrolled cellular proliferation and continues to grow after the stimuli that initiated the new growth cease. Tumors show partial or complete lack of structural organization and functional coordination with the normal tissue, and usually form a distinct mass of tissue, which may be either benign, pre-malignant or malignant.

A benign tumor is a tumor that lacks all three of the malignant properties of a cancer. Thus, by definition, a benign tumor does not grow in an unlimited, aggressive manner, does not invade surrounding tissues, and does not spread to non-adjacent tissues (metastasize).

Neoplasm is an abnormal mass of tissue as a result of neoplasia. Neoplasia (new growth in Greek) is the abnormal proliferation of cells. The growth of the cells exceeds, and is uncoordinated with that of the normal tissues around it. The growth persists in the same excessive manner even after cessation of the stimuli. It usually causes a lump or tumor. Neoplasms may be benign, pre-malignant or malignant.

"**Growth of a tumor**" or "**tumor growth**" according to the present disclosure relates to the tendency of a tumor to increase its size and/or to the tendency of tumor cells to proliferate.

For purposes of the present disclosure, the terms "**cancer**" and "**cancer disease**" are used interchangeably with the terms "**tumor**" and "**tumor disease**".

Cancers are classified by the type of cell that resembles the tumor and, therefore, the tissue presumed to be the origin of the tumor. These are the histology and the location, respectively.

According to the present application, cancer may affect any one of the following tissues or organs: breast; liver; kidney; heart, mediastinum, pleura; floor of mouth; lip; salivary glands; tongue; gums; oral cavity; palate; tonsil; larynx; trachea; bronchus, lung; pharynx, hypopharynx, oropharynx, nasopharynx; esophagus; digestive organs such as stomach, intrahepatic bile ducts, biliary tract, pancreas, small intestine, colon; rectum; urinary organs such as bladder, gallbladder, ureter; rectosigmoid junction; anus, anal canal; skin; bone; joints, articular cartilage of limbs; eye and adnexa; brain; peripheral nerves, autonomic nervous system; spinal cord, cranial nerves, meninges; and various parts of the central nervous system; connective, subcutaneous and other soft tissues; retroperitoneum, peritoneum; adrenal gland; thyroid gland; endocrine glands and related structures; female genital organs such as ovary, uterus, cervix uteri; corpus uteri, vagina, vulva; male genital organs such as penis, testis and prostate gland; hematopoietic and reticuloendothelial systems; blood; lymph nodes; thymus.

The term "**cancer**" according to the disclosure therefore comprises leukemias, seminomas, melanomas, teratomas, lymphomas, neuroblastomas, gliomas, rectal cancer, endometrial cancer, kidney cancer, adrenal cancer, thyroid cancer, blood cancer, skin cancer, cancer of the brain, cervical cancer, intestinal cancer, liver cancer, colon cancer, stomach cancer, intestine cancer, head and neck cancer, gastrointestinal cancer, lymph node cancer, esophagus cancer, colorectal cancer, pancreas cancer, ear, nose and throat (ENT) cancer, breast cancer, prostate cancer, cancer of the uterus, ovarian cancer and lung cancer and the metastases thereof. Examples thereof are lung carcinomas, mamma carcinomas, prostate carcinomas, colon carcinomas, renal cell carcinomas, cervical carcinomas, or metastases of the cancer types or tumors described above. The term cancer according to the present disclosure also comprises cancer metastases and relapse of cancer.

The main types of lung cancer are small cell lung carcinoma (SCLC) and non-small cell lung carcinoma (NSCLC). There are three main sub-types of the non-small cell lung carcinomas: squamous cell lung carcinoma, lung adenocarcinoma (LUAD), and large cell lung carcinoma. Adenocarcinomas account for approximately 10% of lung cancers. This cancer usually is seen peripherally in the lungs, as opposed to small cell lung cancer and squamous cell lung cancer, which both tend to be more centrally located.

By "**metastasis**" is meant the spread of cancer cells from its original site to another part of the body. The formation of metastasis is a very complex process and depends on detachment of malignant cells from the primary tumor, invasion of the extracellular matrix, penetration of the endothelial basement membranes to enter the body cavity and vessels, and then, after being transported by the blood, infiltration of target organs. Finally, the growth of a new tumor, i.e. a secondary tumor or metastatic tumor, at the target site depends on angiogenesis. Tumor metastasis often occurs even after the removal of the primary tumor because tumor cells or components may remain and develop metastatic potential. In one embodiment, the term "metastasis" according to the present disclosure relates to "distant metastasis" which relates to a metastasis which is remote from the primary tumor and the regional lymph node system.

The cells of a secondary or metastatic tumor are like those in the original tumor. This means, for example, that, if ovarian cancer metastasizes to the liver, the secondary tumor is made up of abnormal ovarian cells, not of abnormal liver cells. The tumor in the liver is then called metastatic ovarian cancer, not liver cancer.

A relapse or recurrence occurs when a person is affected again by a condition that affected them in the past. For example, if a patient has suffered from a tumor disease, has received a successful treatment of said disease and again develops said disease said newly developed disease may be considered as relapse or recurrence. However, according to the present disclosure, a relapse or recurrence of a tumor disease may but does not necessarily occur at the site of the original tumor disease. Thus, for example, if a patient has suffered from ovarian tumor and has received a successful treatment a relapse or recurrence may be the occurrence of an ovarian tumor or the occurrence of a tumor at a site different to ovary. A relapse or recurrence of a tumor also includes situations wherein a tumor occurs at a site different to the site of the original tumor as well as at the site of the original tumor. Preferably, the original tumor for which the patient has received a treatment is a primary tumor and the tumor at a site different to the site of the original tumor is a secondary or metastatic tumor.

By "**treat**" is meant to administer a compound or composition as described herein to a subject in order to prevent or eliminate a disease, including reducing the size of a tumor or the number of tumors in a subject; arrest or slow a disease in a subject; inhibit or slow the development of a new disease in a subject; decrease the frequency or severity of symptoms and/or recurrences in a subject who currently has or who previously has had a disease; and/or prolong, i.e. increase the lifespan of the subject. In particular, the term "treatment of a disease" includes curing,

shortening the duration, ameliorating, preventing, slowing down or inhibiting progression or worsening, or preventing or delaying the onset of a disease or the symptoms thereof.

By "**being at risk**" is meant a subject, i.e. a patient, that is identified as having a higher than normal chance of developing a disease, in particular cancer, compared to the general population. In addition, a subject who has had, or who currently has, a disease, in particular cancer, is a subject who has an increased risk for developing a disease, as such a subject may continue to develop a disease. Subjects who currently have, or who have had, a cancer also have an increased risk for cancer metastases.

The therapeutically active agents, vaccines and compositions described herein may be administered via any conventional route, including by injection or infusion.

The agents described herein are administered in effective amounts. An "**effective amount**" refers to the amount which achieves a desired reaction or a desired effect alone or together with further doses or together with further therapeutic agents. In the case of treatment of a particular disease or of a particular condition, the desired reaction preferably relates to inhibition of the course of the disease. This comprises slowing down the progress of the disease and, in particular, interrupting or reversing the progress of the disease. The desired reaction in a treatment of a disease or of a condition may also be delay of the onset or a prevention of the onset of said disease or said condition.

An effective amount of an agent described herein will depend on the condition to be treated, the severity of the disease, the individual parameters of the patient, including age, physiological condition, size and weight, the duration of treatment, the type of an accompanying therapy (if present), the specific route of administration and similar factors. Accordingly, the doses administered of the agents described herein may depend on various of such parameters. In the case that a reaction in a patient is insufficient with an initial dose, higher doses (or effectively higher doses achieved by a different, more localized route of administration) may be used.

The pharmaceutical compositions as herein described are preferably sterile and contain an effective amount of the therapeutically active substance to generate the desired reaction or the desired effect.

The pharmaceutical compositions as herein described are generally administered in pharmaceutically compatible amounts and in pharmaceutically compatible preparation. The term "**pharmaceutically compatible**" refers to a nontoxic material which does not interact with the action of the active component of the pharmaceutical composition. Preparations of this kind

may usually contain salts, buffer substances, preservatives, carriers, supplementing immunity-enhancing substances such as adjuvants, e.g. CpG oligonucleotides, cytokines, chemokines, saponin, GM-CSF and/or RNA and, where appropriate, other therapeutically active compounds. When used in medicine, the salts should be pharmaceutically compatible.

As used herein, the term "nucleic acid molecules" include any nucleic acid molecule that encodes a polypeptide of interest or a fragment thereof. Such nucleic acid molecules need not be 100% homologous or identical with an endogenous nucleic acid sequence but may exhibit substantial identity. Polynucleotides having "substantial identity" or "substantial homology" to an endogenous sequence are typically capable of hybridizing with at least one strand of a double-stranded nucleic acid molecule. By "hybridize" is meant a pair to form a double-stranded molecule between complementary polynucleotide sequences (e.g., a gene described herein), or portions thereof, under various conditions of stringency. (See, e.g., Wahl, G. M. and S. L. Berger (1987) Methods Enzymol. 152:399; Kimmel, A. R. (1987) Methods Enzymol. 152:507). For example, stringent salt concentration will ordinarily be less than about 750 mM NaCl and 75 mM trisodium citrate, e.g., less than about 500 mM NaCl and 50 mM trisodium citrate, or less than about 250 mM NaCl and 25 mM trisodium citrate. Low stringency hybridization can be obtained in the absence of organic solvent, e.g., formamide, while high stringency hybridization can be obtained in the presence of at least about 35% formamide, e.g., at least about 50% formamide. Stringent temperature conditions will ordinarily include temperatures of at least about 30° C, at least about 37° C, or at least about 42° C. Varying additional parameters, such as hybridization time, the concentration of detergent, e.g., sodium dodecyl sulfate (SDS), and the inclusion or exclusion of carrier DNA, are well known to those skilled in the art. Various levels of stringency are accomplished by combining these various conditions as needed. In certain embodiments, hybridization will occur at 30° C in 750 mM NaCl, 75 mM trisodium citrate, and 1% SDS. In certain embodiments, hybridization will occur at 37° C in 500 mM NaCl, 50 mM trisodium citrate, 1% SDS, 35% formamide, and 100 pg/ml denatured salmon sperm DNA (ssDNA). In certain embodiments, hybridization will occur at 42° C in 250 mM NaCl, 25 mM trisodium citrate, 1% SDS, 50% formamide, and 200 pg/ml ssDNA. ETseful variations on these conditions will be readily apparent to those skilled in the art. For most applications, washing steps that follow hybridization will also vary in stringency. Wash stringency conditions can be defined by salt concentration and by temperature. As above, wash stringency can be increased by decreasing salt concentration or by increasing temperature. For example, stringent salt concentration for the wash steps can be less than about 30 mM NaCl

and 3 mM trisodium citrate, e.g., less than about 15 mM NaCl and 1.5 mM trisodium citrate. Stringent temperature conditions for the wash steps will ordinarily include a temperature of at least about 25° C, of at least about 42° C, or of at least about 68° C. In certain embodiments, wash steps will occur at 25° C in 30 mM NaCl, 3 mM trisodium citrate, and 0.1% SDS. In certain embodiments, wash steps will occur at 42° C. in 15 mM NaCl, 1.5 mM trisodium citrate, and 0.1% SDS. In certain embodiments, wash steps will occur at 68° C in 15 mM NaCl, 1.5 mM trisodium citrate, and 0.1% SDS. Additional variations on these conditions will be readily apparent to those skilled in the art. Hybridization techniques are well known to those skilled in the art and are described, for example, in Benton and Davis (Science 196: 180, 1977); Grunstein and Rogness (Proc. Natl. Acad. Sci., USA 72:3961, 1975); Ausubel et al. (Current Protocols in Molecular Biology, Wiley Interscience, New York, 2001); Berger and Kimmel (Guide to Molecular Cloning Techniques, 1987, Academic Press, New York); and Sambrook et al., Molecular Cloning: A Laboratory Manual, Cold Spring Harbor Laboratory Press, New York.

By "substantially identical" or "substantially homologous" is meant a polypeptide or nucleic acid molecule exhibiting at least about 50% homologous or identical to a reference amino acid sequence (for example, any one of the amino acid sequences described herein) or nucleic acid sequence (for example, any one of the nucleic acid sequences described herein). In certain embodiments, such a sequence is at least about 60%, at least about 65%, at least about 70%, at least about 75%, at least about 80%, at least about 85%, at least about 90%, at least about 95%, at least about 99%, or at least about 100% homologous or identical to the sequence of the amino acid or nucleic acid used for comparison.

Sequence identity can be measured by using sequence analysis software (for example, Sequence Analysis Software Package of the Genetics Computer Group, University of Wisconsin Biotechnology Center, 1710 University Avenue, Madison, Wis. 53705, BLAST, BESTFIT, GAP, or PILEUP/PRETTYBOX programs). Such software matches identical or similar sequences by assigning degrees of homology to various substitutions, deletions, and/or other modifications. Conservative substitutions typically include substitutions within the following groups: glycine, alanine; valine, isoleucine, leucine; aspartic acid, glutamic acid, asparagine, glutamine; serine, threonine; lysine, arginine; and phenylalanine, tyrosine. In an exemplary approach to determining the degree of identity, a BLAST program may be used, with a probability score between e-3 and e-l00 indicating a closely related sequence.

By "analog" is meant a structurally related polypeptide or nucleic acid molecule having the function of a reference polypeptide or nucleic acid molecule.

Unless specifically stated or obvious from context, as used herein, the term "**about**" is to be understood as within a range of normal tolerance in the art, for example within 2 standard deviations of the mean. About can be understood as within 50%, 45%, 40%, 35%, 30%, 25%, 20%, 15%, 10%, 9%, 8%, 7%, 6%, 5%, 4%, 3%, 2%, 1%, 0.5%, 0.1%, 0.05%, or 0.01% of the stated value. Unless otherwise clear from context, all numerical values provided herein are modified by the term about.

A "**transposable element**" as used herein is a repeated DNA sequence DNA sequences that is able to move from one location to another in the genome either through an RNA copy generated by a reverse transcriptase (Class I TEs, retrotransposons), or by excising themselves from their original location (Class II TEs, or DNA transposons). It thus includes both class I (retrotransposons, including those containing LTRs, LINEs and SINEs) and class II (DNA transposons) endogenously part of the genome (i.e.: not from infection). This includes both autonomous and non-autonomous elements from both classes. According to the present disclosure the TE sequences can be for example selected from TE of class I, such as retrotransposons including Endogenous RetroVirus (ERVs), Long interspersed nuclear elements (LINEs) and short interspersed nuclear element (SINEs) and mammalian long terminal repeat transposon (MaLR), and TE of class II, such as DNA transposons endogenously part of the genome.

Retrotransposons are by far more abundant and their characteristics are similar to retroviruses, such as HIV. Retrotransposons function via reverse transcription of an RNA intermediate replicative mechanism. They are commonly grouped into three main orders: retrotransposons with long terminal repeats (LTRs) flanking the retroelement main body, which encode reverse transcriptase, similar to retroviruses; retroposons with long interspersed nuclear elements (LINEs, LINE-1s, or L1s), which encode reverse transcriptase but lack LTRs, and are transcribed by RNA polymerase II; and retrotransposons with short interspersed nuclear elements (SINEs) that do not encode reverse transcriptase and are transcribed by RNA polymerase III. DNA transposons have a transposition mechanism that do not involve an RNA intermediate. The transpositions are catalyzed by several transposase enzymes. LTRs include endogenous retroviruses (ERVs), while non-LTR TEs subdivide into long-interspersed (LINEs) and short interspersed elements (SINEs), nonautonomous transposons mobilized by the LINE integration machinery. These lineages are composed of phylogenetically related families, further branching out into multiple subfamilies, each originating from one precursor copy. With time, the accumulation of mutations introduced divergence in the consensus sequence within

members of each subfamily. For review on TE retrotransposon, see Richardson, Sandra R et al. "The Influence of LINE-1 and SINE Retrotransposons on Mammalian Genomes." Microbiology spectrum vol. 3,2 (2015): MDNA3-0061-2014.

A typical L1 element is approximately 6,000 base pairs (bp) long and consists of two non-overlapping open reading frames (ORF) which are flanked by untranslated regions (UTR) and target site duplications. LINE-1 retrotransposons have been amplifying in mammalian genomes for greater than 160 million years. In humans, the vast majority of LINE-1 sequences have amplified since the divergence of the ancestral mouse and human lineages approximately 65–75 million years ago. Sequence comparisons between individual genomic LINE-1 sequences and a consensus sequence derived from modern, active LINE-1s can be used to estimate the age of genomic LINE-1s (Khan H, Smit A, Boissinot S; Genome Res. 2006 Jan; 16(1):78-87). L1 subfamilies typically categorize into old (L1M, AluJ), intermediate (L1P, L1PB, AluS), young (L1HS, L1PA, AluY) and related (HAL, FAM) subfamilies. In humans, the only autonomously active family is the long-interspersed element-1 (LINE-1 or L1), however a few L1 copies are still retrotransposition competent, all of them belonging to the youngest human-specific L1HS subfamily.

SVA elements comprise an evolutionarily young, non-autonomous retrotransposon family that arose in primate lineages approximately 25 million years ago (Hancks DC, Kazazian HH Jr, Semin Cancer Biol. 2010 Aug; 20(4):234-45). A typical SVA element is approximately 2,000 bp and has a composite structure that consists of: 1) a hexameric CCCTCT repeat; 2) an inverted Alu-like element repeat; 3) a set of GC-rich variable nucleotide tandem repeats (VNTRs); 4) a SINE-R sequence that shares homology with HERVK-10, an inactive LTR retrotransposon; and 5) a canonical cleavage polyadenylation specificity factor (CPSF) binding site that is followed by a poly (A) tract. The youngest SVA subfamilies include SVA-D, SVA-E, SVA-F, and SVA-F1 subfamilies.

A "**messenger RNA (mRNA)"** is a single-stranded RNA molecule that corresponds to the genetic sequence of a gene and is read by the ribosome in the process of producing a protein. mRNA is created during the process of transcription, where the enzyme RNA polymerase converts genes into primary transcript mRNA (also known as pre-mRNA). This pre-mRNA usually still contains introns, regions that will not go on to code for the final amino acid sequence. These are removed in the process of RNA splicing, leaving only exons, regions that will encode the protein. This exon sequence constitutes mature mRNA. Mature mRNA is then

read by the ribosome, and, utilizing amino acids carried by transfer RNA (tRNA), the ribosome creates the peptide sequence a process called translation.

A "**transcript**" as herein intended is a messenger RNA (or mRNA) or a part of a mRNA which is expressed by an organism, notably in a particular tissue or even in a particular tissue. Expression of a transcript varies depending on many factors. Expression of a transcript may be modified in a cancer cell as compared to a normal healthy cell.

A "**transcriptome**" as herein intended is the full set of messenger RNA, or mRNA, molecules expressed or transcribed by the gene of a cell. In some embodiments, the term "transcriptome" can also be used to describe the array of mRNA transcripts produced in a particular cell (or tissue type). In contrast with the genome, which is characterized by its stability, the transcriptome actively changes. In fact, an organism's transcriptome varies depending on many factors, including stage of development, environmental and physiological conditions. Typically, also, the transcriptome is modified in a cancer cell as compared to a corresponding normal healthy cell. Typically, the transcriptome as herein intended is the human transcriptome. The terms "transcriptomic pattern" and "transcriptome" are used herein as synonyms.

A **reading frame** is a way of dividing the sequence of nucleotides in a nucleic acid (DNA or RNA) molecule into a set of consecutive, non-overlapping triplets.

An **open reading frame** (ORF) is the part of a reading frame that has the ability to be translated into a peptide. An ORF is a continuous stretch of codons that contain a start codon (for example AUG) at a transcription starting site (TSS) and a stop codon (for example UAA, UAG or UGA). An ATG codon within the ORF (not necessarily the first) may indicate where translation starts. The transcription termination site is located after the ORF, beyond the translation stop codon. In eukaryotic genes with multiple exons, ORFs span intron/exon regions, which may be spliced together after transcription of the ORF to yield the final mRNA for protein translation.

A "**canonical ORF**" as herein intended is a protein coding sequence with specified reading frame within a mRNA sequence which is described or annotated in databases such as for example Ensembl genome/transcriptome/proteome database collection (typically HG19). Typically, a canonical ORF is the same as one of the exons in normal healthy cells.

A "**non-canonical ORF**" as herein intended is a protein coding sequence with specified reading frame within a mRNA sequence which is not described (i.e. unannotated) in genome databases such as for example in Ensembl genome/transcriptome/proteome database. Typically a non-canonical ORF means thus that the reading frame is shifted compared to the usual reading frame

of exons in normal healthy cells. In some embodiments however, a non-canonical can be described in genome databases (such as Ensembl database), but the mRNA sequence represents minor species in normal cells. By minor species it is typically intended less that 5 % , notably less than 2 %, or preferentially less than 1 % species in normal cells.

An **exon** is any part of a gene that will encode a part of the final mature RNA produced by that gene after introns have been removed by RNA splicing. The term *exon* refers to both the DNA sequence within a gene and to the corresponding sequence in RNA transcripts. In RNA splicing, introns are removed and exons are covalently joined to one another as part of generating the mature messenger RNA. An exonic sequence as per the present applicant comprises at least a portion of one or more exon. Typically, the exonic sequence comprises at least a portion of one or 2 exons.

The untranslated sequences in 3'end and in 5' end (3'UTR and 5'UTR) present in mature RNA after splicing are exonic sequences, but are non-coding sequences because these sequences are located upstream of the start codon for the translation (5'UTR) or downstream of the stop codon ending the translation (3'UTR).

In the present application, the terms "**fusion transcript**", "**chimeric transcripts**" "TE-exon transcript", or "Junction Exon-TE" (JET) are used indifferently as synonyms. A "fusion or a chimeric" "transcript or sequence", as per the present disclosure is defined as a transcript that aligns in part with an exon sequence and in part with a transposable element (TE) sequence. A fusion, or chimeric, transcript is also shortly named herein JET (junction between exon and TE). Typically, a fusion transcript according to the present description has a normalized number of read greater than 2.10^{-6}. The normalized number of reads is defined as the number of reads that cover the fusion divided by the library size of the sample.

The term " **polypeptide**," is used in the present specification to designate a series of residues, typically L-amino acids, connected one to the other, typically by peptide bonds between the α-amino and carboxyl groups of adjacent amino acids. The polypeptides or peptides can be a variety of lengths, either in their neutral (uncharged) forms or in forms which are salts, and either free of modifications such as glycosylation, side chain oxidation, or phosphorylation or containing these modifications, subject to the condition that the modification not destroy the biological activity of the polypeptides as herein described. Except is expressively mentioned the terms "polypeptide", peptide and proteins are interchangeably with reference to the JET derived neoantigenic peptides, polypeptides or proteins as herein described.

As used herein pJETs are peptides or polypeptides derived from (i.e. encoded by) chimeric/fusion transcripts or JETs. pJETs are also named herein translated JETs.

A "**reference genome**, or "**representative genome**" is a digital nucleic acid sequence data base, assembled by scientists as a representative example of species set of genes. As they are often assembled from the sequencing of DNA from a number of donors, reference genomes do not accurately represent the set of genes of any single individual (animal or person). Instead a reference provides a haploid mosaic of different DNA sequences from each donor.

RNA-Seq (named as an abbreviation of RNA sequencing) is a sequencing technique which uses next-generation sequencing (NGS) to reveal the presence and quantity of RNA (typically messenger RNA, mRNA) in a biological sample and generates an enormous numbers of raw sequencing reads (typically at least in the tens of millions). Single-cell RNA sequencing (scRNA-Seq) provides the expression profiles of an individual cell. A read refers to an RNA sequence from one RNA fragment from a biological sample or a single cell. The RNA sample that was sequenced is called the RNA library. RNA sequencing data are thus typically called RNA reads.

In the present application, "**MHC molecule**" or "**HLA molecule**" refers to at least one MHC/HLA class I molecule or at least one MHC/HLA Class II molecule. MHC class I proteins form a functional receptor on most nucleated cells of the body. There are 3 major MHC class I genes in HLA: HLA-A, HLA-B, HLA-C and three minor genes HLA-E, HLA-F and HLA-G. 32-microglobulin binds with major and minor gene subunits to produce a heterodimer. MHC molecules of class I consist of a heavy chain and a light chain and can bind a peptide of about 8 to 11 amino acids, but usually 8 or 9 amino acids, if this peptide has suitable binding motifs, and presenting it to cytotoxic T- lymphocytes. The binding of the peptide is stabilized at its two ends by contacts between atoms in the main chain of the peptide and invariant sites in the peptide-binding groove of all MHC class I molecules. There are invariant sites at both ends of the groove which bind the amino and carboxy termini of the peptide. Variations in peptide length are accommodated by a kinking in the peptide backbone, often at proline or glycine residues that allow the required flexibility. The peptide bound by the MHC molecules of class I usually originates from an endogenous protein antigen. As an example, the heavy chain of the MHC molecules of class I is typically an HLA-A, HLA-B or HLA-C monomer, and the light chain is β-2-microglobulin, in humans. There are 3 major and 2 minor MHC class II proteins encoded by the HLA. The genes of the class II combine to form heterodimeric (αβ) protein receptors that are typically expressed on the surface of antigen-presenting cells. The peptide

bound by the MHC molecules of class II usually originates from an extracellular or exogenous protein antigen. As an example, the α -chain and the β-chain are in particular HLA-DR, HLA-DQ and HLA-DP monomers, in humans. MHC class II molecules are capable of binding a peptide of about 8 to 20 amino acids, notably from 10 to 25 amino acids or from 13 to 25 amino acids if this peptide has suitable binding motifs, and of presenting it to T-helper cells. The peptide lies in an extended conformation along the MHC II peptide-binding groove which (unlike the MHC class I peptide-binding groove) is open at both ends. It is held in place mainly by main-chain atom contacts with conserved residues that line the peptide-binding groove.

The term "**peptidome**" refers to the complete set of peptides expressed by a particular genome, or present within a particular organism or cell type (such as a cancer cell). Proteomic analysis (proteomics) thus refers to the separation, identification, and quantification of the entire set of peptides or proteins expressed by a genome, a cell, or a tissue at a specific point in time.

Proteomics analysis are typically based on two major techniques, namely two-dimensional gel electrophoresis (2-DGE) (Harper S et al., In: Coligan JE, Dunn BM, Speicher DW, Wing-field PT, editors. Current Protocols in Protein Science. John Wiley & Sons; Hoboken, N.J.: 1998. pp. 10.4.1–10.4.36.) and Mass Spectrometry (MS) (Aebersold & Mann, 2003), which are both powerful methods for the analysis of complex mixtures of proteins. HPLC is an alternative separation technique for proteomic studies, especially in separation and identification of low-molecular-weight proteins and peptides (Garbis et al., 2005). MS allows the determination of the molecular mass of proteins or peptides based on the mass to charge ratio (m/z) of ions in the gas phase. The terms "gel-based" or "gel-free" proteomics are used in relation to the applied separation techniques, 2-DGE or HPLC; proteomics approaches can also be "bottom-up" or "top-down," which basically identify proteins from their protease (e.g., trypsin) digests or, as a whole, via a mass spectrometer, respectively.

Bottom-up proteomics is a common method to identify proteins from a biological sample (tissue(s) or cells) and characterize their amino acid sequences and post-translational modifications by proteolytic digestion of proteins prior to analysis by mass spectrometry. The crude protein extract is enzymatically digested, followed by one or more dimensions of separation of the peptides typically by liquid chromatography coupled to mass spectrometry, a technique known as shotgun proteomics. By comparing the masses of the proteolytic peptides or their tandem mass spectra with those predicted from a sequence database or annotated

peptide spectral in a peptide spectral library, peptides can be identified, and multiple peptide identifications assembled into a protein identification.

In top-down proteomics, intact proteins are purified prior to digestion and/or fragmentation either within the mass spectrometer or by 2D electrophoresis. Top-down proteomics either uses an ion trapping mass spectrometer to store an isolated protein ion for mass measurement and tandem mass spectrometry (MS/MS) analysis or other protein purification methods such as two-dimensional gel electrophoresis in conjunction with MS/MS.

From the data generated by the MS, the protein is either sequenced de novo by manual mass analyses of the spectra or processed automatically via sequence search engines such as SEQUEST, Mascot, Phenyx, X!Tandem, and OMSSA. These algorithms are developed based on the correlation between experimental and theoretical MS/MS data; the latter being generated from in silico digestion of protein databases such as UniProt/Swiss-Prot (Deutsch, Lam, & Aebersold, 2008).

The term "**immunopeptidome**", also commonly named "**immunopeptidomic pattern**", "**pMHC repertoire**", or "**MHC- ligandome**" or "**HLA ligandome**", refers to the complete set of peptides within a particular cell type, which are bound to at least one MHC/HLA molecule at the cell surface. Correspondingly, "immunopeptidomics" has emerged as a term to describe analysis of the MHC/HLA-ligandome. The most common immunopeptidomics methods rely on mass spectrometry (MS). Immunopeptidomics samples are generally prepared by isolating MHCs, for example by using an allele-specific antibody, pan-specific antibody, or engineered affinity tag system, from lysed cells or tissues. Isolated complexes are acid eluted, and peptides are purified from the MHC molecules using molecular weight cut-off filtration (MWCO), solid phase extraction or other techniques, and are subsequently analyzed by MS (see for example for review L.E. Stopfer et al., Immuno-Oncology and Technology, Volume 11, 2021,100042).

As used herein, the term "antibody" means not only intact antibody molecules, but also fragments of antibody molecules that retain immunogen-binding ability. Such fragments are also well known in the art and are regularly employed both in vitro and in vivo. Accordingly, as used herein, the term "antibody" means not only intact immunoglobulin molecules but also the well-known active fragments F(ab')2, and Fab.

$F(ab')_2$, and Fab fragments that lack the Fc fragment of intact antibody, clear more rapidly from the circulation, and may have less non-specific tissue binding of an intact antibody (Wahl et ah, J. Nucl. Med. 24:316-325 (1983).

As used herein, antibodies include whole native antibodies, bispecific antibodies; chimeric antibodies; Fab, Fab', single chain V region fragments (scFv), fusion polypeptides, and unconventional antibodies.

In certain embodiments, an antibody is a glycoprotein comprising at least two heavy (H) chains and two light (L) chains inter-connected by disulfide bonds. Each heavy chain is comprised of a heavy chain variable region (abbreviated herein as V_H) and a heavy chain constant (C_H) region. The heavy chain constant region is comprised of three domains, CH1, CH2 and CH3. Each light chain is comprised of a light chain variable region (abbreviated herein as V_L) and a light chain constant C_L region. The light chain constant region is comprised of one domain, C_L. The V_H and V_L regions can be further sub-divided into regions of hypervariability, termed complementarity determining regions (CDR), interspersed with regions that are more conserved, termed framework regions (FR). Each V_H and V_L is composed of three CDRs and four FRs arranged from amino-terminus to carboxy-terminus in the following order: FR1, CDR1, FR2, CDR2, FR3, CDR3, FR4.

The variable regions of the heavy and light chains contain a binding domain that interacts with an antigen. The constant regions of the antibodies may mediate the binding of the immunoglobulin to host tissues or factors, including various cells of the immune system (e.g ., effector cells) and the first component (Cl q) of the classical complement system.

As used herein, "CDRs" are defined as the complementarity determining region amino acid sequences of an antibody which are the hypervariable regions of immunoglobulin heavy and light chains (See , e.g. , Rabat et al., Sequences of Proteins of Immunological Interest, 4th U. S. Department of Health and Human Services, National Institutes of Health (1987). Generally, antibodies comprise three heavy chain and three light chain CDRs or CDR regions in the variable region. CDRs provide the majority of contact residues for the binding of the antibody to the antigen or epitope. In certain embodiments, the CDRs regions are delineated using the Rabat system (Rabat, E. A., et al. (1991) Sequences of Proteins of Immunological Interest, Fifth Edition, ET.S. Department of Health and Human Services, NIH Publication No. 91-3242).

As used herein, the term "single-chain variable fragment" or "scFv" is a fusion protein of the variable regions of the heavy (V_H) and light chains (V_L) of an immunoglobulin covalently

linked to form a V_H: :V_L heterodimer. The V_H and V_L are either joined directly or joined by a peptide-encoding linker (e.g., 10, 15, 20, 25 amino acids), which connects the N-terminus of the V_H with the C-terminus of the V_L, or the C-terminus of the V_H with the N-terminus of the V_L. The linker is usually rich in glycine for flexibility, as well as serine or threonine for solubility. Despite removal of the constant regions and the introduction of a linker, scFv proteins retain the specificity of the original immunoglobulin. Single chain Fv polypeptide antibodies can be expressed from a nucleic acid including V_H - and V_L -encoding sequences as described by Huston, et al. (Proc. Nat. Acad. Sci. USA, 85:5879-5883, 1988). See, also , U.S. Patent Nos. 5,091,513, 5,132,405 and 4,956,778; and U.S. Patent Publication Nos. 20050196754 and 20050196754.

As used herein, the term “affinity” is meant a measure of binding strength. Affinity can depend on the closeness of stereochemical fit between antibody combining sites and antigen determinants, on the size of the area of contact between them, and/or on the distribution of charged and hydrophobic groups. As used herein, the term “affinity” also includes “avidity”, which refers to the strength of the antigen-antibody bond after formation of reversible complexes. Methods for calculating the affinity of an antibody for an antigen are known in the art, including, but not limited to, various antigen-binding experiments, e.g., functional assays (e.g., flow cytometry assay). surface plasmon resonance assays such as BIACORE assays, and kinetic exclusion assays such as KINEXA assays

The term “chimeric antigen receptor” or “CAR” as used herein refers to a molecule comprising an extracellular antigen-binding domain that is fused to an intracellular signalling domain that is capable of activating or stimulating an immunoresponsive cell, and a transmembrane domain. In certain embodiments, the extracellular antigen-binding domain of a CAR comprises a scFv. The scFv can be derived from fusing the variable heavy and light regions of an antibody. Alternatively or additionally, the scFv may be derived from Fab’s (instead of from an antibody, e.g., obtained from Fab libraries). In certain embodiments, the scFv is fused to the transmembrane domain and then to the intracellular signaling domain. In certain embodiments, the CAR has a high binding affinity or avidity for the antigen.

The term “antigen-binding domain” as used herein refers to a domain capable of specifically binding a particular antigenic determinant or set of antigenic determinants present on a cell.

The term “immune cell” as herein intended typically encompasses T cells, Natural Killer T cells, CD4+/CD8+ T cells, TILs/tumor derived CD8 T cells, central memory CD8+ T cells,

Treg, MAIT, Yδ T cells, human embryonic stem cells, and pluripotent stem cells from which lymphoid cells may be differentiated.

By "isolated cell" is meant a cell that is separated from the molecular and/or cellular components that naturally accompany the cell.

The terms "isolated," "purified," or "biologically pure" refer to material that is free to varying degrees from components which normally accompany it as found in its native state. "Isolate" denotes a degree of separation from original source or surroundings. "Purify" denotes a degree of separation that is higher than isolation. A "purified" or "biologically pure" protein is sufficiently free of other materials such that any impurities do not materially affect the biological properties of the protein or cause other adverse consequences. That is, a nucleic acid or peptide is purified if it is substantially free of cellular material, viral material, or culture medium when produced by recombinant DNA techniques, or chemical precursors or other chemicals when chemically synthesized. Purity and homogeneity are typically determined using analytical chemistry techniques, for example, polyacrylamide gel electrophoresis or high performance liquid chromatography. The term"purified" can denote that a nucleic acid or protein gives rise to essentially one band in an electrophoretic gel. For a protein that can be subjected to modifications, for example, phosphorylation or glycosylation, different modifications may give rise to different isolated proteins, which can be separately purified.

Method for selecting a tumor neoantigenic peptide

The method for selecting a tumor neoantigenic peptide as per the present disclosure comprises:

- a step of identifying, among mRNA sequences from a cancer cell sample of a subject, a fusion transcript (or JET) sequence comprising a transposable element (TE) sequence and an exonic sequence, and including an open reading frame (ORF), and
- a step of selecting a tumor neoantigenic peptide of at least 8 amino acids, encoded by a part of said ORF of the fusion transcript sequence,

wherein said ORF overlaps the junction between the TE and the exonic sequence, is pure TE and/or is non-canonical, and

wherein said tumor neoantigenic peptide binds to at least one Major Histocompatibility Complex (MHC) molecule of said subject.

Typically, a peptide translated from a part of non-canonical ORF of an exonic sequence is recognized as non-self by the immune system.

In some embodiments, the exonic sequence is from an oncogene and/or a tumor suppressor gene and/or from one of their mutated variants.

Conceptually, cancer is a result of consecutive somatic mutation accumulation. Many studies have shown that both the gain of function in oncogenes and the loss of function in tumor-suppressor genes are required for the development of cancer from a normal cell. For a diploid organism, gain-of-function mutations are often dominant or semi-dominant, whereas loss-of-function mutations are usually recessive. Two-hit hypothesis of oncogenesis proposes that the development of cancer is initiated by the loss of both alleles of a tumor-suppressor gene.

Oncogenes (also named cancer genes) are genes whose action positively promotes cell proliferation or growth. The normal nonmutant versions are known as proto-oncogenes. The mutant versions are excessively or inappropriately active leading to tumor growth. Oncogenes can be identified in the Cancer Gene Marker Database (CGMD) (Pradeepkiran, J., Sainath, S., Kramthi Kumar, K. et al. CGMD:. Sci Rep 5, 12035 (2015) *"An integrated database of cancer genes and markers"*). Oncogenes (ONCs) can also be downloaded from Network of Cancer Genes database (NCG 5.0) (An O, Dall'Olio GM, Mourikis TP, Ciccarelli FD, Nucleic Acids Res. 2016 Jan 4; 44(D1):D992-9; "*NCG 5.0: updates of a manually curated repository of cancer genes and associated properties from cancer mutational screenings*"). Non-limitatives examples of oncogenes include: *L-MYC, LYL-1, LYT-10, LYT-10/Cα1, MAS, MDM-2, MLL, MOS, MTG8/AML1, MYB, MYH11/CBFB, NEU, N-MYC, OST, PAX-5, PBX1/E2A, PIM-1, PRAD-1, RAF, RAR/PML, RAS-H, RAS-K, RAS-N, REL/NRG, RET, RHOM1, RHOM2, ROS, SKI, SIS, SET/CAN, SRC, TAL1, TAL2, TAN-1, TIAM1, TSC2,*and *TRK.*

Tumor suppressor genes (also named anti-oncogenes) represent the opposite side of cell growth control, normally acting to inhibit cell proliferation and tumor development. Thus tumor suppressor genes are genes that normally suppress cell division or growth. Loss of TSG function promotes uncontrolled cell division and tumor growth. *Rb*, a tumor suppressor gene that was identified by the genetic analysis of retinoblastoma an encoding atranscriptional regulatory protein, served as the prototype for the identification of additional tumor suppressor genes that contribute to the development of many different human cancers. Tumor suppressor genes are notably described in "Cooper GM. The Cell: A Molecular Approach. 2nd edition. Sunderland (MA): Sinauer Associates; 2000. Tumor Suppressor Genes". Tumor-suppressor genes (TSGs) can also be downloaded from Tumor Suppressor Gene database (TSGene 2.0) (see for reference Zhao M, Kim P, Mitra R, Zhao J, Zhao Z; Nucleic Acids Res. 2016 Jan 4; 44(D1):D1023-31; "*TSGene 2.0: an updated literature-based knowledgebase for tumor suppressor genes*"). In this

context, non-limitative examples of tumor suppressor genes include: *APC, BRCA1, BRCA2, DPC4, INK4, MADR2, NF1, NF2, p53, PTC, PTEN, Rb, RB1, VHL, WT1, BUB1, BUBR1, TGF-βRII, Axin, DPC4, p300, PPARγ, p16, DPC4, PTEN, and hSNF5.*

Oncogenes, tumor suppressor genes or "double agent" genes (with both oncogenic and tumor-suppressor functions) can be systematically identified through database search and text mining. Indeed, information on oncogenes or tumor suppressor genes can typically be found in Ensembl database (but see also Shen L, Shi Q, Wang W. Double agents: genes with both oncogenic and tumor-suppressor functions. Oncogenesis. 2018;7(3):25. Published 2018 Mar 13). Double agent genes may be identified as genes overlapped between the two above mentioned databases (see also Shen et al., Oncogenesis 2018 above).

Without to be bound by any theory, the inventors believe that selection of fusion wherein the exonic sequence is from an oncogene and/or a tumor suppressor gene is of high relevance for the reason below:

TE insertion in oncogenes can alter their oncogenic activity. Insertion of TE sequences in oncogene active domains could therefore result in constitutive activity of the oncogenes, similar to driver mutations. These fusions giving chimeric oncogenes could thus represent a new family of oncogenic proteins. If this is the case, targeting the activity of these new "fusion oncogenes" with small molecule antagonists could represent a potential therapeutic approach for cancer where these chimeric oncogenes are expressed.

TE insertions in tumor suppressors could inactivate their suppressor functions, leading typically to a loss of function (for example through introduction of stop codons, changes in ORF or disruptive amino acid stretches), thereby contributing to the oncogenic process.

Fusions implicating cancer driver genes would be excellent targets for adoptive cell therapies, antibodies, ADCs, T cell engagers, etc. If they are involved in oncogenesis, fusions oncogenes are expected to be more specific for cancer cells, and thus to reduce the development of resistances (because of the oncogenic activity of the target).

In some embodiments, the TE sequence is located in 5' end of the fusion transcript sequence (it is also said that the TE sequence is the donor sequence) and the exonic sequence is located in 3' end of the fusion transcript sequence with respect to the junction (the exon sequence is thus called an acceptor sequence). The expression "**is located in 5' end of the fusion transcript sequence**" means that the element is located upstream of the junction in the fusion transcript

sequence. The expression "**is located in 3' end of the fusion transcript sequence**" means that the element is located downstream of the junction in the fusion transcript sequence.

In more particular embodiments, the TE sequence is located in 5' end of the fusion transcript sequence and the exonic sequence is located in 3' end of the fusion transcript sequence, and the part of the ORF of said fusion transcript sequence, which encodes the neoantigenic peptide, overlaps the junction. In this case, the ORF can be canonical or non-canonical. It is understood that the ORF may include the junction but the neoantigenic peptide sequencemay not derive from the junction. In some embodiments, where the neoantigenic peptide sequence comprises a sequence which is derived from the junction, the obtained peptide is thus encoded by both TE sequence and exonic sequence.

The expression "**the part of the ORF is overlapping or overlaps the junction** between the TE sequence and the exonic sequence", means that said junction is contained in the part of the ORF of the fusion transcript sequence, which encodes said neoantigenic peptide.

In embodiments wherein (i) the part of the ORF encoding the neoantigenic peptide is overlapping the junction between the TE sequence and the exonic sequence, and (ii) the TE sequence and the exonic sequence are respectively in 5' end and 3'end of the fusion transcript sequence, said part of the ORF typically encodes a neoantigenic peptide of at least 8 amino acids, including at least between 1 to 6 amino acids, notably 2 to 6 from the TE sequence and at least between 1 and 6, notably 2 to 6 amino acids from the exonic sequence.

In another embodiment wherein the TE sequence is located in 5' end of the fusion transcript sequence and the exonic sequence is located in 3' end of the fusion transcript sequence, the part of ORF which encodes said neoantigenic peptide, is downstream of the junction and the ORF is thus non-canonical.

The expression "**the part of the ORF is downstream of the junction**" means that the part of the ORF encoding the neoantigenic peptide is not overlapping the junction, but it is contained in the 3'end part of said fusion transcript sequence with respect to the junction. In this embodiment, as the 3' end part with respect to the junction, is the exonic sequence, the part of the ORF encoding the neoantigenic peptide is thus contained in the exonic sequence. Thus, as the part of the ORF is only located in the exonic sequence, the obtained peptide is therefore encoded by the exonic sequence, in a non-canonical ORF. Thus, in the particular embodiment wherein the exonic sequence is located in 3' end of the fusion transcript sequence with respect to the junction, and wherein the part of the ORF which encodes the neoantigenic peptide is

downstream of the junction with a non-canonical reading frame, the part of the ORF of the fusion transcript sequence encodes a neoantigenic peptide including 0 amino acid from the TE sequence, and at least 8 amino acids from the exonic sequence.

In another embodiment, the TE sequence is located in 3' end of the fusion transcript sequence and the exonic sequence is located in 5' end of the fusion transcript sequence with respect to the junction.

In some embodiments, the TE sequence is located in 3' end of the fusion transcript sequence and the exonic sequence is located in 5' end of the fusion transcript sequence and the part of the ORF of said fusion transcript sequence, which encodes a neoantigenic peptide, is overlapping the junction between the TE sequence and the exonic sequence. In this case, the ORF can also be canonical or non-canonical. The obtained peptide is encoded by both TE sequence and exonic sequence.

In the particular embodiment wherein the part of the ORF encoding the neoantigenic peptide, is overlapping the junction between the exonic sequence and the TE sequence, and wherein the exonic sequence and the TE sequence are respectively in 5' end and 3'end of the fusion transcript sequence, said part of the ORF encodes a neoantigenic peptide of at least 8 amino acids, including at least between 1 to 6, notably 2 to 6 amino acids from the TE sequence and at least between 1 and 6, notably 2 to 6 amino acids from the exonic sequence.

In still another embodiment, the TE sequence is located in 3' end of the fusion transcript sequence, the exonic sequence is located in 5' end of the fusion transcript sequence, and the part of the ORF which encodes a neoantigenic peptide, is downstream of the junction between the exonic sequence and the TE sequence. Optionally, the peptide sequence which is thus encoded by the pure TE sequence is non-canonical.

In this embodiment, as the 3' end part with respect to the junction is the TE sequence, the part of the ORF encoding the neoantigenic peptide is therefore encoded by the TE sequence. Thus, the part of the ORF encodes a neoantigenic peptide including no amino acid from the exonic sequence and at least 8 amino acids from the TE sequence. In the particular embodiment wherein the TE sequence is located in 3' end of the fusion transcript sequence with respect to the junction, and the part of the ORF which encodes the neoantigenic peptide is downstream the junction, the part of the ORF of the fusion transcript sequence encodes a neoantigenic peptide including 0 amino acid from the exonic sequence, and at least 8 amino acids from the TE sequence.

A tumor neoantigenic peptide is a peptide that arises from somatic alterations (classically mutations in the DNA sequence), is recognized as different from self, and is presented by antigen-presenting cells (APC), such as dendritic cells (DC) and tumor cells themselves. Cross-presentation plays an important role as the APC is able to translocate exogenous antigens from the phagosome into the cytosol for proteolytic cleavage into the major histocompatibility complex I (MHC I) epitopes by the proteasome.

In the present disclosure the alteration corresponds to the transcription of fusion mRNA sequences that comprise a transposable element (TE) sequence and an exonic sequence. This may arise from somatic (*i.e.:* specifically in the tumor clone) transposition. It may also arise not from de novo transposition but from tumor specific transcriptional de-repression such that a TE and nearby gene are co-transcribed.

A neoantigenic peptide according to the present disclosure may be completely absent from normal healthy samples (i.e., not expressed in normal healthy samples) and thus be specific to tumor samples. Alternatively, it may be expressed at low levels in normal cells and / or disproportionately expressed on tumor samples as compared to normal (healthy) samples.

It can also be selectively expressed by the cell lineage from which the cancer evolved.

Cancer or tumor samples according to the present disclosure can be isolated from any solid tumor or non-solid tumor of any of the tissues or organs as defined previously, for example, breast cancer, lung cancer and/or melanoma. In some embodiments cancer samples are from Acute Myeloid Leukemia, Adrenocortical Carcinoma, Bladder Urothelial Carcinoma, Breast Ductal Carcinoma, Breast Lobular Carcinoma, Cervical Carcinoma, Cholangiocarcinoma, Colorectal Adenocarcinoma, Esophageal Carcinoma, Gastric Adenocarcinoma, Glioblastoma Multiforme, Head and Neck Squamous Cell Carcinoma, Hepatocellular Carcinoma, Kidney Chromophobe Carcinoma, Kidney Clear Cell Carcinoma, Kidney Papillary Cell Carcinoma, Lower Grade Glioma, Lung Adenocarcinoma, Lung Squamous Cell Carcinoma, Mesothelioma, Ovarian Serous Adenocarcinoma, Pancreatic Ductal Adenocarcinoma, Paraganglioma & Pheochromocytoma, Prostate Adenocarcinoma, Sarcoma, Skin Cutaneous Melanoma, Testicular Germ Cell Cancer, Thymoma, Thyroid Papillary Carcinoma, Uterine Carcinosarcoma, Uterine Corpus Endometrioid Carcinoma or Uveal Melanoma samples. In a particular embodiment, cancer samples are from lung cancer samples, notably from LUAD samples.

Typically as per the present disclosure, the step of identifying said fusion transcript sequence is carried out by mapping mRNA sequences from cancer sample against a reference genome, and then distinguishing normal and abnormal (non-annotated or non-canonical based on database information) junctions.

According to the present disclosure, normal junctions typically correspond to junctions, wherein donor and acceptor are on the same strand and not too far apart (e.g.: not on different chromosomes).

According to the present disclosure, abnormal junctions typically correspond to junctions between donor and acceptor sequences on different chromosomes, or in cis (same chromosomes) but on different strands (no matter the order and the 5'-3' sense).

mRNA sequences typically usable according to the present disclosure are RNA seq data (as illustrated in the results herein). RNA seq data are typically obtained from purified RNA obtained from a cell or a tissue sample, fragmented and reverse-transcribed into cDNA. The obtained cDNA are then amplified and sequenced (next-generation sequencing - NGS) on a high-throughput platform (such as for example the Illumina GA/HiSeq – see http://www.illumina.com -, SOLiD or Roche 454). This process generates millions of short reads taken from one end of the cDNA fragments. A common variant on this process is to generate reads from both ends of each cDNA fragment, known as "paired-end" reads.

In some embodiments, the mRNA sequences can be mapped against a corresponding reference genome or transcriptome (such as the human reference genome Hg19 ENSEMBL (RNA sequences, GRCh37), with an adapted software, such as for example: Spliced Transcripts Alignment to a Reference (i.e.: STAR - see Dobin, Alexander et al. "STAR: ultrafast universal RNA-seq aligner." Bioinformatics (Oxford, England) vol. 29,1 (2013): 15-21), TopHat2 (Kim, Daehwan et al. "TopHat2: accurate alignment of transcriptomes in the presence of insertions, deletions and gene fusions." Genome biology vol. 14,4 R36. 25 Apr. 2013, doi:10.1186/gb-2013-14-4-r36) or HISAT (Kim, Daehwan et al. "HISAT: a fast spliced aligner with low memory requirements." Nature methods vol. 12,4 (2015): 357-60. doi:10.1038/nmeth.3317). STAR is a standalone software that uses sequential maximum mappable seed search followed by seed clustering and stitching to align RNA-seq reads. It is able to detect canonical junctions, non-canonical splices, and fusion/chimeric transcripts. Typically, detection of the junctions can be performed as detailed in the results based on the definitions from ENSEMBL and RepeatMasker databases respectively, downloaded from the UCSC Genome Browser. Thus, in some embodiments,, the normal and abnormal junctions are determined *in silico* using

dedicated databases, such as for example Ensembl and Repeatmasker databases, and the fusion transcripts having junctions between a TE and an exonic sequence are extracted *in silico*.

More particularly, in some embodiments, RNAseq reads from a sample (or cell) of interest are aligned to a reference genome (such as typically the hg19 genome) using typically STAR two-pass mode27 to identify un-annotated junctions. As previously indicated JETs are identified as a junction between an exon (most particularly a coding DNA sequence – CDS- exon) and a TE (or repeated element, RE). As per the present disclosure TE (or RE) can be identified (i.e. filtered) according to the definition of commonly used databases in the field such as ENSEMBL (GRCh37) and RepeatMasker.

According to the present disclosure, the mRNA sequences can come from all types of cancer cell or tumor cell sample(s). The tumor may be a solid or a non-solid tumor. In particular, the mRNA sequences come from any tissues or organs affected by a cancer or tumor as previously defined, for example from breast cancer, lung cancer and/or melanoma. In a particular embodiment, mRNA sequences are from LUAD samples.

Tumor samples can be for example obtained from the Cancer Genome Atlas (TCGA). In some embodiments, the mRNA sequences are obtained from cell lines such as for example tumor cell lines from the Cancer Cell Line Encyclopedia (CCLE).

In some embodiments, the number of splicing reads can be normalized by the number of unique mapped reads. Typically JETs with a level of expression over 2.10^{-7} are selected.

In some embodiments of the present disclosure, the fusion transcript sequences are shared in more than 1%; notably more than 5%, more than 10%, more than 15%, more than 20% or even more than 25 % of cancer samples (typically obtained from various patients, for example from the cancer samples collected for a given cancer type in the TCGA) and/or cell lines. In some embodiments, a fusion transcript sequence as per the present disclosure is shared in cancer samples from more than 1%; notably more than2%, more than 5%, more than 10%, more than 15%, more than 20% or even more than 25 % of the subjects suffering from a cancer. The fusion transcript sequence may thus be specific for a cancer type of shared between several cancers.

According to the present disclosure, the fusion transcript sequences are expressed at higher levels in tumor cells compared to normal healthy cells. In some embodiments, the fusion transcript sequence is expressed in cancer cells (obtained from one or more cancer samples or one or more cell lines) and not in healthy cells (from one or more tissue sample or one or more cell line), in particular not in thymus healthy cells. In some embodiments a JET is considered

not expressed in a cell when its expression level is below 2.10^{-7}, notably below 2.10^{-8} and typically not detectable. Such fusion transcript may be called tumor specific fusion as per the present disclosure. Fusion transcripts that are expressed at higher level(s) in tumor cells as compared to normal cell, typically that are disproportionally expressed in cancers cells as compared to normal cells as defined above may be called tumor associated fusion transcripts (TAF) as per the present disclosure. Tumor associated fusion trancripts may be selected according to the present application if they are present in more than 1 %, notably more than 2 %, more than 5 % and in particular more than 10 % of tumor samples (from the same or different tumor type, notably obtained from the TCGA database, preferably for the same cancer type) and in less than 20% of the normal samples. Alternatively, or in addition, a fusion transcript sequence can be expressed in at least 1; 2; 3; 4; 5; 6; 7;8;9;10;11;12;13;14;15;16;17;18;19;20 cell lines.

In some embodiments, the method further comprises a step of determining, optionally *in* silico or using *in vitro* techniques (see notably the example for illustration), the binding affinity of the tumor neoantigenic peptide with at least one MHC molecule of the said subject suffering from a cancer.

When the method is carried out on human samples, the method may comprise a step of determining the patient's class I or class I Major Histocompatibility Complex (MHC, aka human leukocyte antigen (HLA) alleles). It is to be noticed that as MHC alleles for laboratory mice are generally known such that this step may not be necessary in that particular context. In the present application, "**MHC molecule**" refers to at least one MHC class I molecule or at least one MHC Class II molecule.

An MHC allele database is carried out by analyzing known sequences of MHC I and MHC II and determining allelic variability for each domain. This can be typically determined *in silico* using appropriate software algorithms well-known in the field. Several tools have been developed to obtain HLA allele information from genome-wide sequencing data (whole-exome, whole-genome, and RNA sequencing data), including OptiType, Polysolver, PHLAT, HLAreporter, HLAforest, HLAminer, and seq2HLA (see Kiyotani K et al., Immunopharmacogenomics towards personalized cancer immunotherapy targeting neoantigens; Cancer Science 2018; 109:542-549). For example, the seq2hla tool (see Boegel S, Lower M, Schafer M, et al. HLA typing from RNA-Seq sequence reads. Genome Med. 2012;4:102), which is well designed to perform the method as herein disclosed is an *in silico* method written in python and R, which takes standard RNA-Seq sequence reads in fastq format

as input, uses a bowtie index (Langmead B, et al., Ultrafast and memory-efficient alignment of short DNA sequences to the human genome. Genome Biol. 2009, 10: R25-10.1186/gb-2009-10-3-r25) comprising all HLA alleles and outputs the most likely HLA class I and class II genotypes (in 4 digit resolution), a p-value for each call, and the expression of each class.

Typically, the sequences having junctions between a TE and an exonic sequence are extracted *in silico*. The affinity of all possible peptides encoded by each sequence for each MHC allele from the patient (or mouse) can be for example determined *in silico* using computational methods to predict peptide binding-affinity to HLA molecules. Indeed, accurate prediction approaches are based on artificial neural networks with predicted IC_{50}. For example, NetMHCpan software which has been modified from NetMHC to predict peptides binding to alleles for which no ligands have been reported, is well appropriate to implement the method as herein disclosed (Lundegaard C et al., NetMHC-3.0: accurate web accessible predictions of human, mouse and monkey MHC class I affinities for peptides of length 8-11; Nucleic Acids Res. 2008;36:W509-W512; Nielsen M et al. NetMHCpan, a method for quantitative predictions of peptide binding to any HLA-A and -B locus protein of known sequence. PLoS One. 2007;2:e796, but see also Kiyotani K et al., Immunopharmacogenomics towards personalized cancerimmunotherapy targeting neoantigens; Cancer Science 2018; 109:542-549 and Yarchoan M et al., Nat rev. cancer 2017; 17(4):209-222). NetMHCpan software predicts binding of peptides to any MHC molecule of known sequence using artificial neural networks (ANNs). The method is trained on a combination of more than 180,000 quantitative binding data and MS derived MHC eluted ligands. The binding affinity data covers 172 MHC molecules from human (HLA-A, B, C, E), mouse (H-2), cattle (BoLA), primates (Patr, Mamu, Gogo) and swine (SLA). The MS eluted ligand data covers 55 HLA and mouse alleles.

In example embodiments, neoantigenic peptides encoded by fusion transcripts as above described and having a Kd affinity for MHC alleles of less than 10^{-4}. 10^{-5}, 10^{-6}, 10^{-7} M or less than 500 nM, notably less than 50 nM are selected as tumor neoantigenic peptides.

As above mentioned, affinity of the selected peptide for MHC alleles can be determined *in silico* using appropriate software such as netMHCpan. Thus, in some embodiments, neoantigenic peptides bind MHC class I with a binding affinity of less than 2% percentile rank score predicted by NetMHCpan 4.0. In other embodiments, the neoantigenic peptides bind MHC class II with a binding affinity of less than 10% percentile rank score predicted by NetMHCpanII 3.2.

Affinity can also (alternatively or in addition) be estimated *in vitro*, for exampleusing MHC tetramer formation assay as described in the results included therein (see example 2, point 2.1 and 2.2.2). Commercial assays for example from ImmunAware® can typically be used by the skilled person (EasYmers® kits are from ImmunAware® are notably used according to their training guide). Typically, binding affinity is determined as a percentage of binding to a positive control. Generally, peptides showing a percentage of binding of at least 30 %, notably at least 40% or even at least 50 % of the positive control are selected. Typically, the neoantigenic peptide as per the present disclosure, and typically obtainable as per the present method, binds at least one HLA/MHC molecule with an affinity sufficient for the peptide to be presented on the surface of a cell as an antigen. Generally, the neoantigenic peptide has an IC50 affinity of less than 10^{-4}. or 10^{-5}, or 10^{-6}, or 10^{-7} or less than 500 nM, at least less than 250nM, at least less than 200 nM, at least less than 150 nM, at least less than 100 nM, at least less than 50 nM or less for at least one HLA/MHC molecule (lower numbers indicating greater binding affinity), typically a molecule of said subject suffering from a cancer.

Further optional steps according to the present method may thus independently include:

- a step of exclusion of fusion transcripts or predicted peptides expressed at high levels or high frequency on healthy cells. An alignment of the fusion transcript sequence against the RNAseq data of healthy cells, typically allows determining the relative amount of fusion transcript sequence(s) present in healthy cells; In one embodiment, fusion transcripts or predicted peptides expressed on healthy cells are discarded.
- a step to confirm that a tumor neoantigenic peptide is not expressed in healthy cells of the subject. This step can be carried out using typically the Basic local alignment search tool (BLAST) and performing alignment of the sequence of the neoantigenic peptide against the proteome of healthy cells; Preferably, peptides that align against the proteome of normal healthy cells (for example using BLAST) are discarded.
- a step to confirm that the fusion transcript or predicted peptide is expressed in cancer cells of the subject. The presence of the selected fusion transcript sequence in cancer cells can be checked typically by RT-PCR in mRNA extracted from cancer cell sample.

In some embodiments, the present method can also include a step wherein the identified fusion (JETs) transcripts are in silico translated to generate a JET-derived protein database (JET-db). Typically, Strand-indexed JETs containing gene as donor can be translated using the canonical ORF from the implicated gene until the first stop codon after the breakpoint. In JETs where TE was the donor, the 3 possible ORFs can be translated and only the sequence found more

proximal to the breakpoint and between two stop codons is typically kept. This JET db (typically also concatenated to the human proteome) can be then interrogated in mass spectrometry based proteomic datasets obtained from tumor samples and/or tumor cell lines which typically consist in proteomics data obtained from tumors samples and/or tumor cell lines. In some embodiments, public mass spectrometry datasets can be used. This embodiment is notably well described in the results provided in the present application. Such analysis also to identify JET-derived peptides or proteins.

In more specific embodiments, the JETdb (typically concatenated to the human proteome) can be interrogated to immunonopeptidomics mass spectrometry-based datasets as also detailed in the examples included herein. This embodiment allows to identify JET-derived peptides or proteins (pJETs) that are presented to MHC molecules.

To ensure that JET-derived peptides did not match with canonical proteins or peptides derived from JETs found in normal samples, identified peptides can be filtered for example with UniProt/TrEMBL database and/or with in silico translated JETs from normal (including for example juxta-tumor) sample(s) or cell(s) (for example from public databases such as the TCGA and/or the CCLE).

Neoantigenic peptides

The present disclosure also relates to an isolated tumor neoantigenic peptide comprising at least 8, 9, 10, 11, or 12 amino acids, encoded by a portion of an open reading frame (ORF) from a fusion transcript that is a human mRNA sequence comprising a transposable element (TE) sequence and an exonic sequence. The peptide may be 8-9, 8-10, 8-11, 12-25, 13-25, 12-20, or 13-20 amino acids in length. Although the ORF overlaps a junction between a TE sequence and an exonic sequence, it is understood that the tumor neoantigenic peptide itself may not comprise the junction.

The present disclosure also more specifically encompasses an isolated tumor neoantigenic peptide encoded by a portion of a human fusion mRNA sequence from a cancer cell, said fusion mRNA comprising a TE sequence and an exonic sequence.

The peptide may be 8-9, 8-10, 8-11, 12-25, 13-25, 12-20, or 13-20 amino acids in length and fulfills one or more of the neoantigen peptide characteristics described above. The N-terminus of the peptide of at least 8 amino acids may be encoded by the triplet codon starting at any of nucleotide positions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and higher (it being

understood that the disclosure contemplates a start position that is any of the integers between 1 and 8000 without having to list every number between 1 and 8000).

A peptide as above defined is typically obtainable according to the method of the present disclosure and thus encompasses one or more of the characteristics as previously described. In particular a neoantigenic peptide as per the present disclosure may exhibit one or a combination of the following further characteristics:

- It binds or specifically binds MHC class I of a subject and is 8 to 11 amino acids, notably 8, 9, 10, or 11 amino acids. Typically the neoantigenic peptide is 8 or 9 amino acids long, and binds to at least one MHC class I molecule of the subject; or alternatively, it binds to at least one MHC class II molecule of said subject and contains from 12 to 25 amino acids, notably is 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 or 25 amino acids long.
- It binds at least one HLA/MHC molecule of said subject suffering from a cancer with an affinity sufficient for the peptide to be presented on the surface of a cell as an antigen. Typically the neoantigenic peptide has an IC50 of less than 10^{-4}. or 10^{-5}, or 10^{-6}, or 10^{-7} or less than 500 nM, at least less than 250nM, at least less than 200 nM, at least less than 150 nM, at least less than 100 nM, at least less than 50 nM or less (lower numbers indicating greater binding affinity).
- It does not induce a significant autoimmune response and/or invoke immunological tolerance when administered to a subject.
- It is expressed at higher levels in tumor samples compared to normal healthy samples. Typically, as per the present disclosure, a fusion transcript may be selected if it is present in more than 1 %, notably more than 2%, more than 5% or more than10 % of the tumor samples (from the same or different tumor type, typically from one or more subjects typically from TCGA tumor samples) and in less than 20 % of the normal samples. Alternatively, or in addition, the transcript can be identified in one or more (at least 2, 5, 10, 20, 50,100 cell lines such as for example from the CCLE) In some embodiments, the neoantigenic is more specifically a tumor specific antigen (TSA), *i.e.:* it is only expressed in cancer sample and not in normal samples, or is expressed at relatively low levels in normal samples (e.g. the expressed mRNA sequences represent minor species in normal cells from normal samples).

- It comprises the junction between the TE sequence and the exonic sequence, in other words it is encoded by a part of a TE sequence and a part of an exonic sequence, the ORF being either canonical or non-canonical or
- It is encoded by a non-canonical ORF of an exonic sequence or
- It is encoded by the TE sequence, optionally in a non-canonical ORF

A tumor neoantigenic peptide may first be validated by RT transcription analysis of fusion transcripts sequence in tumors cell from a subject. Typically also, immunization with a tumor neoantigenic peptide as per the present disclosure elicits a T cell response

In a particular embodiment, the present disclosure encompasses a NSCLC neoantigenic peptide comprising at least 8 amino acids of any one of SEQ ID NOS: 1-117. Typically, said neoantigenic peptides of SEQ ID NOS: 1-117 binds to HLA-A02 with an affinity sufficient for the peptide to be presented on the surface of cells as an antigen. Affinity for MHC alleles can be determined by known techniques in the field and notably *in silico* or *in vitro* as exemplified above;

In a particular embodiment, a tumor neoantigenic peptide as per the present disclosure binds to a MHC molecule present in at least 1 %, 5 %, 10 %, 15 %, 20 %, 25% or more of subjects. Notably, a tumor neoantigenic peptide as herein disclosed is expressed in at least 1 %, 5 %, 10 %, 15 %, 20 %, 25% of subjects from a population of subjects suffering from cancer

More particularly, a tumor neoantigenic peptide of the present disclosure is capable of eliciting an immune response against a tumor present in at least 1 %, 5 %, 10 %, 15 %, 20%, or 25 % of the subjects in the population of subjects suffering from cancer.

As previously defined, cancer may affect any one of the following tissues or organs: breast; liver; kidney; heart, mediastinum, pleura; floor of mouth; lip; salivary glands; tongue; gums; oral cavity; palate; tonsil; larynx; trachea; bronchus, lung; pharynx, hypopharynx, oropharynx, nasopharynx; esophagus; digestive organs such as stomach, intrahepatic bile ducts, biliary tract, pancreas, small intestine, colon; rectum; urinary organs such as bladder, gallbladder, ureter; rectosigmoid junction; anus, anal canal; skin; bone; joints, articular cartilage of limbs; eye and adnexa; brain; peripheral nerves, autonomic nervous system; spinal cord, cranial nerves, meninges; and various parts of the central nervous system; connective, subcutaneous and other soft tissues; retroperitoneum, peritoneum; adrenal gland; thyroid gland; endocrine glands and related structures; female genital organs such as ovary, uterus, cervix uteri; corpus uteri, vagina, vulva; male genital organs such as penis, testis and prostate gland; hematopoietic and reticuloendothelial systems; blood; lymph nodes; thymus. For example, the tumors or cancers

as per the present application includes leukemias, seminomas, melanomas, teratomas, lymphomas, neuroblastomas, gliomas, rectal cancer, endometrial cancer, kidney cancer, adrenal cancer, thyroid cancer, blood cancer, skin cancer, cancer of the brain, cervical cancer, intestinal cancer, liver cancer, colon cancer, stomach cancer, intestine cancer, head and neck cancer, gastrointestinal cancer, lymph node cancer, esophagus cancer, colorectal cancer, pancreas cancer, ear, nose and throat (ENT) cancer, breast cancer, prostate cancer, cancer of the uterus, ovarian cancer and lung cancer and the metastases thereof. Examples thereof are lung carcinomas, mamma carcinomas, prostate carcinomas, colon carcinomas, renal cell carcinomas, cervical carcinomas, or metastases of the cancer types or tumors described above. The term cancer according to the present disclosure also comprises cancer metastases and relapse of cancer.

Typically a neoantigenic peptide as per the present disclosure does not induce a significant autoimmune response and/or invoke immunological tolerance when administered to a subject. Tolerating mechanisms involve clonal deletion, ignorance, anergy, or suppression in the host w the reduction in the number of high-affinity self-reactive T cells.

The neoantigenic peptide can also be modified by extending or decreasing the compound's amino acid sequence, e.g., by the addition or deletion of amino acids. The peptides can also be modified by altering the order or composition of certain residues, it being readily appreciated that certain amino acid residues essential for biological activity, e.g., those at critical contact sites or conserved residues, may generally not be altered without an adverse effect on biological activity. The non-critical amino acids need not be limited to those naturally occurring in proteins, such as L-α-amino acids, or their D-isomers, but may include non-natural amino acids as well, such as β-γ-δ-amino acids, as well as many derivatives of L-α-amino acids.

Typically, a series of peptides with single amino acid substitutions are employed to determine the effect of electrostatic charge, hydrophobicity, etc. on binding. For instance, a series of positively charged (e.g., Lys or Arg) or negatively charged (e.g., Glu) amino acid substitutions are made along the length of the peptide revealing different patterns of sensitivity towards various MHC molecules and T cell receptors. In addition, multiple substitutions using small, relatively neutral moieties such as Ala, Gly, Pro, or similar residues may be employed. The substitutions may be homo-oligomers or hetero-oligomers. The number and types of residues which are substituted or added depend on the spacing necessary between essential contact points and certain functional attributes which are sought (e.g., hydrophobicity versus hydrophilicity). Increased binding affinity for an MHC molecule or T cell receptor may also be

achieved by such substitutions, compared to the affinity of the parent peptide. In any event, such substitutions should employ amino acid residues or other molecular fragments chosen to avoid, for example, steric and charge interference which might disrupt binding.

Amino acid substitutions are typically of single residues. Substitutions, deletions, insertions or any combination thereof may be combined to arrive at a final peptide. Substitutional variants are those in which at least one residue of a peptide has been removed and a different residue inserted in its place. Such substitutions are generally made in accordance with the following Table 1 when it is desired to finely modulate the characteristics of the peptide.

Original residue	Exemplary substitution
Ala	Ser
Arg	Lys, His
Asn	Gln
Asp	Glu
Cys	Ser
Gln	Asn
Glu	Asp
Gly	Pro
His	Lys, Arg
Ile	Leu, Val
Leu	Ile, Val
Lys	Tyr, Trp
Met	Thr
Phe	Ser
Ser	Tyr, Phe
Tyr	Trp, Phe
Val	Ile, Leu
Pro	Gly

Table 1

Substantial changes in function (e.g., affinity for MHC molecules or T cell receptors) are made by selecting substitutions that are less conservative than those in above Table, i.e., selecting residues that differ more significantly in their effect on maintaining (a) the structure of the peptide backbone in the area of the substitution, for example as a sheet or helical conformation, (b) the charge or hydrophobicity of the molecule at the target site or (c) the bulk of the side chain. The substitutions which in general are expected to produce the greatest changes in peptide properties will be those in which (a) hydrophilic residue, e.g. seryl, is substituted for (or by) a hydrophobic residue, e.g. leucyl, isoleucyl, phenylalanyl, valyl or alanyl; (b) a residue having an electropositive side chain, e.g., lysl, arginyl, or histidyl, is substituted for (or by) an

electronegative residue, e.g. glutamyl or aspartyl; or (c) a residue having a bulky side chain, e.g. phenylalanine, is substituted for (or by) one not having a side chain, e.g., glycine.

The peptides and polypeptides may also comprise isosteres of two or more residues in the neoantigenic peptide or polypepeptides. An isostere as defined here is a sequence of two or more residues that can be substituted for a second sequence because the steric conformation of the first sequence fits a binding site specific for the second sequence. The term specifically includes peptide backbone modifications well known to those skilled in the art. Such modifications include modifications of the amide nitrogen, the α-carbon, amide carbonyl, complete replacement of the amide bond, extensions, deletions or backbone crosslinks. See, generally, Spatola, Chemistry and Biochemistry of Amino Acids, Peptides and Proteins, Vol. VII (Weinstein ed., 1983).

In addition, the neoantigenic peptide may be conjugated to a carrier protein, a ligand, or an antibody. Half-life of the peptide may be improved by PEGylation, glycosylation, polysialylation, HESylation, recombinant PEG mimetics, Fc fusion, albumin fusion, nanoparticle attachment, nanoparticulate encapsulation, cholesterol fusion, iron fusion, or acylation.

Modifications of peptides and polypeptides with various amino acid mimetics or unnatural amino acids are particularly useful in increasing the stability of the peptide and polypeptide in vivo. Stability can be assayed in a number of ways. For instance, peptidases and various biological media, such as human plasma and serum, have been used to test stability. See,e.g., Verhoef et al., Eur. J. Drug Metab Pharmacokin. 11:291-302 (1986). Half life of the peptides of the present disclosure is conveniently determined using a 25% human serum (v/v) assay. The protocol is generally as follows. Pooled human serum (Type AB, non-heat inactivated) is delipidated by centrifugation before use. The serum is then diluted to 25% with RPMI tissue culture media and used to test peptide stability. At predetermined time intervals a small amount of reaction solution is removed and added to either 6% aqueous trichloracetic acid or ethanol. The cloudy reaction sample is cooled (4°C) for 15 minutes and then spun to pellet the precipitated serum proteins. The presence of the peptides is then determined by reversed-phase HPLC using stability-specific chromatography conditions.

The peptides and polypeptides may be modified to provide desired attributes other than improved serum half-life. For instance, the ability of the peptides to induce CTL activity can be enhanced by linkage to a sequence which contains at least one epitope that is capable of inducing a T helper cell response. Particularly preferred immunogenic peptides/T helper

conjugates are linked by a spacer molecule. The spacer is typically comprised of relatively small, neutral molecules, such as amino acids or amino acid mimetics, which are substantially uncharged under physiological conditions. The spacers are typically selected from, e.g., Ala, Gly, or other neutral spacers of nonpolar amino acids or neutral polar amino acids. It will be understood that the optionally present spacer need not be comprised of the same residues and thus may be a hetero- or homo-oligomer. When present, the spacer will usually be at least one or two residues, more usually three to six residues. Alternatively, the peptide may be linked to the T helper peptide without a spacer.

The neoantigenic peptide may be linked to the T helper peptide either directly or via a spacer either at the amino or carboxy terminus of the peptide. The amino terminus of either the neoantigenic peptide or the T helper peptide may be acylated. Exemplary T helper peptides include tetanus toxoid 830-843, influenza 307-319, malaria circumsporozoite 382-398 and 378-389

Multiple neoantigenic peptides described herein can also be linked together, optionally by a spacer.

Transmembrane chimeric polypeptides (or proteins) and antigen binding domains binding thereof

The present disclosure provides a set of transmembrane chimeric polypeptides (also named herein pJET or fusion transcript-derived peptides) that provide excellent extracellular neoantigen candidates. Said chimeric proteins are derived from the fusion transcripts predicted from the bioinformatics pipeline developed for identifying genome-wide non-canonical spliced regions as above defined. RNA-Seq data publicly available in TCGA (the Cancer Genome Atlas) and CCLE (Broad Institute Cancer Cell Line Encyclopedia) (described in section EXAMPLES) were used.

The identification and characterisation of fusion transcripts (also named herein chimeric transcripts or JETs) according to the present invention has been detailed in the above section (see also the examples) of the present application.

As previously mentioned, fusion transcripts result from alternative splicing mechanisms that are known to be essential for generating functional diversity. Indeed splicing mechanisms allow the expression of multiple mRNAs (i.e., transcripts or splicing variants) encoding numerous proteins, from individual genes, through rearrangement of existing exonic and intronic

sequences. Types of splicing alteration observed herein include exon skipping, intron retention and use of alternative splice donor or acceptor sites. In the fusion transcripts according to the present invention, the TE can act as a donor (in 5' position) or as an acceptor (in 3' acceptor) and correspondingly the exon can be acceptor or donor. TE-exon splicing thus results in the incorporation of parts of the "non-coding" genome into the coding genome, thereby exposing non-coding genomic sequences to the translation machinery. These fusions (or chimeric) transcripts also named JET (Junction Exon TE) include an ORF (open reading frame), i.e. they are the part of a reading frame that has the ability to be translated into a polypeptide or protein. When the TE is acceptor, the ORF of the fusion transcript is canonical (i.e. the same as the canonical transcript), whereas when the TE is the donor the ORF can be canonical (generally ORF1) or can be shifted by 1 or 2 nucleotides (generally ORFs 2 and 3 respectively) as compared to ORF1. The fusion transcripts include not only the fused TE and exon sequences (corresponding to the JET) but can also further include exon(s), upstream the fusion breakpoint (between the exon and the TE) if the exon is donor or downstream the fusion breakpoint if the TE is donor, corresponding to the various transcript isoforms.

More particularly, the present disclosure provides transmembrane chimeric polypeptides (or proteins) of SEQ ID NO:1 to 21542, which are referred to in tables 9-15 and 19-20. Tables 14 and 19 provide amino acid sequences translated from fusion transcripts (JETs) wherein the exon is donor. Tables 15 and 20 provide amino acid sequences translated from fusion transcripts (JETs) wherein the exon is donor. .

This set of (transmembrane) chimeric proteins was obtained by further selecting the fusion transcripts having an exonic sequence which is annotated in normal proteome databases (such as typically UniProt) as belonging to a transcript coding for a transmembrane protein. The sequences of the selected fusion transcripts were then translated (in silico) into fusion (or chimeric) polypeptide sequences (also named translated junctions or pJETs or translated JETs).

Fusion transcripts wherein the exon is donor are translated following the canonical ORF of the transcript from the beginning of the transcript to the first stop codon after the breakpoint between the exon and the TE.

Fusion transcripts wherein the TE is the donor are translated following the 3 ORFs (1 to 3) from the beginning of the TE or from after the last stop codon before the breakpoint between the TE and the exon, to the first stop codon after said breakpoint.

Only the translated polypeptide sequences containing at least 3 amino acids derived from the TE sequence have been kept.

In some embodiments, the peptide sequences deriving from translated junctions that match to any referenced or annotated protein sequences in UniProt are discarded, therefore, focusing on non-annotated chimeric peptides (as exemplified in the results).

Tables 9-13 provide peptide (typically polypeptide considering their size) sequences identified from proteogenomic approaches previously described. Typically, a fusion transcript (i.e. JET) library generated with the pipeline of the present application (using various public RNA seq datasets) were searched in MS raw data from total proteomics (all peptidome), or surface proteomics (surfaceome).

The present disclosure thus particularly refers to chimeric polypeptides (or proteins) that are expressed at the cell membrane. Cell membrane expression of polypeptides *in silico* assigned to a transmembrane compartment (as indicated above) can be experimentally validated by several *in vitro* approaches and at different molecular levels:

a) Proteins, or peptides, containing the selected translated junctions can be ectopically expressed in a host cell, for example a tumor cell lines (such as Hela, CHO, etc.) to confirm the stability and proper integration within the plasma membrane. An expression vector can be designed containing the translated junction and a tag sequence (such as FLAG or HA) thus giving rise to a tagged fusion chimeric protein. The fusion-containing proteins or peptides also contain an epitope-tag and can thus be detected by flow cytometry or microscopy using commercially available anti-tag antibodies. The sequences cloned into the vector can be preferentially designed in a way that the tag sequence is located immediately before or after the TE sequence. This approach allows to select translated junction peptides or proteins that give rise to stable proteins that are expressed in the cell membrane and typically expose the TE sequence to the extracellular space.

b) Targeted sequencing experiments can also be performed to amplify and detect the fusion transcripts in additional tumor specimens or cell lines. This can be performed through conventional PCR, quantitative real-time PCT or SMRT full-length transcripts sequencing (PACBIO technology).

c) Translated sequences can also be detected within the “translatome” (that represents the entirety of translating mRNA within a cell) by ribosome profiling or ribo-Seq.

Ribosome profiling analysis thus enabling the monitoring of the junction transcript translation process and the prediction of the abundance of the chimeric (translated junction peptide or protein). Through this technology regions of a JET-derived transcript (mRNA) that are translated can be identified thus defining translation start and stop sites of the fusion polypeptide. Using this approach that bridges the genomics and the proteomics validation of the JET sequences, the translated regions of the fusion transcripts can be fully defined.

d) Further experimental validation of the protein expression can be performed through targeted mass spectrometry approaches in tumor specimens and cell lines. Targeted proteomics experiments can be performed to quantify at each time a few chimeric proteins (containing the translated junctions) with very high precision, sensitivity, specificity and throughput.

In more specific embodiments, the present disclosure refers to the chimeric polypeptides as herein defined, wherein the part of the sequence derived from the TE nucleotide sequence is exposed at the cell surface. Cell surface exposure of the TE-derived sequence can be predicted *in silico* based on the predicted topology of said TE-derived sequence.

Predicting that a protein resides at the cell surface typically involves (i) the detection of a TM domain or a lipid anchor; (ii) the definition of the orientation of a protein within the membrane, including the identification of an extracellular exposed domain; and/or (iii) subcellular location prediction. Bioinformatic tools for predicting TM domains, signal peptides, and GPI-linked proteins are available (see Käll L, Krogh A, Sonnhammer ELL (2004) A combined transmembrane topology and signal peptide prediction method. J Mol Biol 338:1027–1036; Jones DT (2007) Improving the accuracy of transmembrane protein topology prediction using evolutionary information. Bioinformatics 23:538–544; Reeb J, Kloppmann E, Bernhofer M, Rost B (2015) Evaluation of transmembrane helix predictions in 2014. Proteins 83:473–484; Krogh A, Larsson B, von Heijne G, Sonnhammer ELL (2001) Predicting transmembrane protein topology with a hidden Markov model: Application to complete genomes. J Mol Biol 305:567–580; Viklund H, Elofsson A (2008) OCTOPUS: Improving topology prediction by two-track ANN-based preference scores and an extended topological grammar. Bioinformatics 24:1662–1668; Fankhauser N, Mäser P (2005) Identification of GPI anchor attachment signals by a Kohonen self-organizing map. Bioinformatics 21:1846–1852).

Experimental validation of cell surface expression of the TE-derived sequence for a given translated junction can also be performed as above mentioned (see point a).

As also mentioned previously identification of peptides which are expressed at the cell surface can be achieved based on proteogenomic approaches by searching the JETs library into MS raw data from the surfaceome (all plasma membrane proteins that have at least 1, notably at least 2, at least 3 or at least 4 amino acid residues exposed to the extracellular space). As such, the surfaceome is a subset of the plasma membrane proteome, which is a subset of the membrane proteome, the entirety of all membrane proteins. Integral monotopic membrane proteins that are attached to the extracellular lipid leaflet [e.g., via a glycosylphosphatidylinositol (GPI) anchor] are part of the human surfaceome

In some embodiments, the present disclosure more particularly refers to chimeric polypeptides resulting from non-canonical ORF downstream of a junction between a TE-derived sequence and an exon-derived sequence. Experimental confirmation of cell surface expression of the non-canonical ORF translated sequence having a topology predicted to be extracellular can also be performed as above mentioned (see also point a), by locating the tag before or after the non-canonical ORF sequence).

In some embodiments, the translated junctions may be selected based on the type of fusion (TE donor or acceptor) and on the subtype of membrane proteins. This selection could be achieved as follows:

- Integral membrane proteins
    - Type I single-pass proteins (positioned such that their carboxyl-terminus is towards the cytosol): selected transcripts are those derived from fusions in which TE acts as a donor (fusion TE->exon) and, in some cases, this fusion is preceded by a second fusion in which the TE is an acceptor (fusion exon-TE). In the later scenario the transcript is generated by a double-fusion “exon-TE-exon” or “metafusion” with a resulting transcript including a TE exonisated sequence flanked by two canonical exons.
    - Type II single-pass proteins (which have their amino-terminus towards the cytosol): selected transcripts are those derived from fusions in which TE acts as an acceptor (fusion exon->TE) and, in some cases, this fusion is followed by a second fusion in which the TE is a donor (fusion TE->exon). In the later scenario the transcript is generated by a double-fusion “exon-TE-exon” or “metafusion”

with a resulting transcript including a TE exonisated sequence flanked by two canonical exons.

- Multi-pass or poly- transmembrane proteins (the polypeptide chain crosses the membrane multiple times) : the TE sequence may act as donor or acceptor and/or may be part of a metafusion. The breakpoint (or one of the two breakpoints in the case of the metafusions) is located in the extracellular side of the membrane between two transmembrane helices.
- Integral monotopic proteins (integral membrane proteins that are attached to only one side of the membrane and do not span the whole way across): selected transcripts are those derived from fusions in which TE acts as an acceptor (fusion exon->TE), as a donor (fusion TE->exon) or as both (metafusions)

- Peripheral membrane proteins (adhered or associated to the cell membrane): selected transcripts are those derived from fusions in which TE acts as an acceptor (fusion exon->TE), as a donor (fusion TE->exon) or as both (metafusions)

Typically, the chimeric protein according to the present disclosure is expressed in more than 1 %, notably more than 5 %, and typically more than 10% of the tumor samples (from one or more subjects and/or from one or more tumor types, wherein tumor samples can be obtained from the TCGA. Alternatively or in addition, the chimeric protein (or pJET) can be expressed in one or more cell lines (typically from the CCLE), notably in at least 1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 20; 50; 100 cell lines.

Typically, the chimeric protein according to the present disclosure is expressed at higher levels in tumor samples as compared to normal samples (including juxta-tumor samples) and/or cell lines. More particularly, the chimeric protein is preferably expressed in less than 20%, notably less than 10 %, less than 5 % or less than 1 % of the normal samples or cell lines. In some embodiments, the chimeric protein is not detectably expressed in normal samples (including juxta-tumor samples).

The present disclosure also encompasses variants of chimeric polypeptides having at least 50 %, notably at least 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99%, identity with any one of the chimeric polypeptides (or proteins) of SEQ ID NO:1-8202. Said variants chimeric polypeptides are expressed at the cell surface membrane. Typically in said variants, the sequence derived from the TE nucleotide sequence is preserved at has at least 90%,

95%, 96%, 97%, 98%, 99%, identity with the TE-derived sequence of the peptide which the variant derives. Most preferably said variants chimeric proteins do not match any annotated polypeptide or protein in normal proteome databases such as UniProt.

The (transmembrane) chimeric proteins as herein disclosed can also be modified by extending or decreasing the compound's amino acid sequence, e.g., by the addition or deletion of amino acids. The chimeric proteins can also be modified by altering the order or composition of certain residues, it being readily appreciated that certain amino acid residues essential for biological activity, e.g., those at critical contact sites or conserved residues, may generally not be altered without an adverse effect on biological activity. The non-critical amino acids need not be limited to those naturally occurring in proteins, such as L-α-amino acids, or their D-isomers, but may include non-natural amino acids as well, such as β-γ-δ-amino acids, as well as many derivatives of L-α-amino acids.

Typically, a series of peptides with single amino acid substitutions are employed to determine the effect of electrostatic charge, hydrophobicity, etc. on binding. The substitutions may be homo-oligomers or hetero-oligomers. The number and types of residues which are substituted or added depend on the spacing necessary between essential contact points and certain functional attributes which are sought (e.g., hydrophobicity versus hydrophilicity). In any event, such substitutions should employ amino acid residues or other molecular fragments chosen to avoid, for example, steric and charge interference which might disrupt binding.

Amino acid substitutions are typically of single residues. Substitutions, deletions, insertions or any combination thereof may be combined to arrive at a final peptide. Substitutional variants are those in which at least one residue of a peptide has been removed and a different residue inserted in its place. Such substitutions are generally made in accordance with the previously shown Table 1 when it is desired to finely modulate the characteristics of the peptide.

It is to be mentioned that chimeric polypeptides or proteins as herein disclosed can also be processed by the proteasome machinery and produce neoantigenic peptides typically of at least 8 amino acids (and in particular of 8-25 amino acids) that bind to at least one Major Histocompatibility Complex (MHC) molecule of said subject as previously detailed.

The present disclosure also encompasses antigen binding domains as described herein that bind to a chimeric protein as above defined or to a fragment thereof, notably to a neoantigenic tumor sequence thereof (or epitope) of a length at least 4, 5, 6 7, or 8 amino acids, with a dissociation

constant (K_d) of about 2 x 10^{-7} M or less. In certain embodiments, the K_d is about 2 x 10^{-7} M or less, about 1 x 10^{-7} M or less, about 9 x 10^{-8} M or less, about 1 x 10^{-8} M or less, about 9 x 10^{-9} M or less, about 5 x 10^{-9} M or less, about 4 x 10^{-9} M or less, about 3 x 10^{-9} or less, about 2 x 10^{-9} M or less, or about 1 x 10^{-9} M or less , or about 1 x 10^{-10} M or less, or about 1 x 10^{-12} M or less. In certain non-limiting embodiments, the K_d is about 3 x 10^{-9} M or less. In certain non-limiting embodiments, the K_d is from about 1 x 10^{-9} M to about 3 x 10^{-7} M. In certain non-limiting embodiments, the $K_d$is from about 1.5 x 10^{-9} M to about 3 x 10^{-7} M. In certain non-limiting embodiments, the K_d is from about 1.5 x 10^{-9} M to about 2.7 x 10^{-7} M. In certain non-limiting embodiments, the Kd is from about 1.5 x 10-^{10} M to about 2.7 x 10^{-7} M. In certain non-limiting embodiments, the Kd is from about 1.5 x 10-12 M to about 2.7 x 10-7 M.

Binding of the antigen-binding domain (for example, a Fv or an analog thereof) can be confirmed by, for example, enzyme-linked immunosorbent assay (ELISA), radioimmunoassay (RIA), FACS analysis, bioassay (e.g, growth inhibition), Western Blot assay or fluorescent microscopy. Each of these assays generally detect the presence of protein-antibody complexes of particular interest by employing a labeled reagent (e.g, an antibody, or an Fv) specific for the complex of interest. For example, the Fv can be radioactively labeled and used in a radioimmunoassay (RIA) (see, for example, Weintraub, B., Principles of Radioimmunoassays, Seventh Training Course on Radioligand Assay Techniques, The Endocrine Society, March, 1986, which is incorporated by reference herein). The radioactive isotope can be detected by such means as the use of a g counter or a scintillation counter or by autoradiography.

For microscopy, the labeled reagent (e.g, an antibody, or an Fv) can be either directly conjugated to a fluorophore or recognized by a fluorophore-conjugated secondary antibody directed against the labeled reagent. Non-limiting examples of fluorophores, also called fluorescent dyes, include derivatives of cyanine (e.g. Cy3) or rhodamine (e.g, TRITC) or fluorescein (e.g, FITC).

In certain embodiments, the extracellular antigen-binding domain is labeled with a fluorescent marker. Non-limiting examples of fluorescent markers include green fluorescent protein (GFP), blue fluorescent protein (e.g, EBFP, EBFP2, Azurite, and mKalamal), cyan fluorescent protein (e.g, ECFP, Cerulean, and CyPet), and yellow fluorescent protein (e.g, YFP, Citrine, Venus, and YPet).

In some embodiments, the antigen binding domain as herein disclosed binds to fragment (or a tumor neoantigenic peptide sequence) of the amino acid sequence (or an epitope) of a chimeric protein as herein described, which comprises at least a TE-derived amino acid sequence or is

from any one of SEQ ID NO:1424-8202; 8203-10163, and 12831-21542 (typically is encoded by a fusion transcript wherein the TE is the donor). In some embodiments, the peptide sequence from the herein described chimeric protein overlaps the breakpoint between, the TE-derived amino acid sequence and the exon-derived amino acid sequence. In other embodiments, the peptide sequence is derived from a pure TE sequence. In yet other embodiments, the peptide sequence is encoded by a non-canonical ORF downstream of the junction between the TE-derived amino acid sequence and the exon-derived amino acid sequence.

In some embodiments, the antigen binding domain according to the present disclosure binds a neoantigenic peptide sequence from any one of the chimeric polypeptides neoantigenic peptides as herein disclosed or fragment thereof, wherein said neoantigenic peptide sequence:

a) is from any one of SEQ ID NO:1-21542 or a fragment thereof and comprises at least a sequence derived from the TE-derived amino acid nucleotide sequence,

   optionally (i) a fragment that overlaps the breakpoint between, the TE-derived amino acid sequence and an exon-derived amino acid sequence or,

   optionally (ii) a pure TE sequence; or

b) is from any one of SEQ ID NO:1-1423; 8203-10163, and 10164-12830 (typically is encoded by a fusion transcript wherein the exon is the donor) or a fragment thereof .and is encoded by a non-canonical ORF downstream of the junction between the TE-derived amino acid sequence and the exon-derived amino acid sequence.

Typically, the peptide sequence is from an extracellular portion of the chimeric protein.

In certain embodiments, the antigen-binding domain comprises an antigen binding portion of a TCR.

In certain embodiments, the antigen-binding domain comprises an antigen binding portion of an antibody or a fragment thereof. In certain embodiments, the antigen-binding domain comprises a heavy chain variable region (VH) and/or a light chain variable region (VL) of an antibody. In certain embodiments, the antigen-binding domain comprises a single-chain variable fragment (scFv).

In certain embodiments, the antigen-binding domain comprises a heavy chain-only antibody (VHH) or a variant thereof and/or a VL domain or a variant thereof.

In certain embodiments, the antigen-binding domain comprises a Fab, which is optionally crosslinked. In certain embodiments, the antigen-binding domain comprises a $F(ab)_2$. In certain

embodiments, any of the foregoing molecules can be comprised in a fusion protein with a heterologous sequence to form the antigen-binding domain.

In certain embodiments, the extracellular antigen-binding domain is derived from a scFv, Fab, or antibody of murine, human or camelid (e.g., lama) origin.

Peptide productions, polynucleotides and vectors

Proteins or peptides may be made by any technique known to those of skill in the art, including the expression of proteins, polypeptides or peptides through standard molecular biological techniques, the isolation of proteins or peptides from natural sources, or the chemical synthesis of proteins or peptides. The nucleotide and protein, polypeptide and peptide sequences corresponding to various genes have been previously disclosed, and may be found at computerized databases known to those of ordinary skill in the art. One such database is the National Center for Biotechnology Information's Genbank and GenPept databases located at the National Institutes of Health website. The coding regions for known genes may be amplified and/or expressed using the techniques disclosed herein or as would be known to those of ordinary skill in the art. Alternatively, various commercial preparations of proteins, polypeptides and peptides are known to those of skill in the art.

In a further aspect the present disclosure provides a nucleic acid (e.g. polynucleotide) encoding a neoantigenic peptide as herein disclosed. The polynucleotide may be selected from DNA, cDNA, PNA, CNA, RNA, either single- and/or double-stranded, or native or stabilized forms of polynucleotides, such as for example polynucleotides with a phosphorothiate backbone, or combinations thereof and it may or may not contain introns so long as it codes for the peptide. Only peptides that contain naturally occurring amino acid residues joined by naturally occurring peptide bonds are encodable by a polynucleotide.

A still further aspect of the disclosure provides an expression vector capable of expressing a neoantigenic peptide as herein disclosed. Expression vectors for different cell types are well known in the art and can be selected without undue experimentation. Generally, the DNA is inserted into an expression vector, such as a plasmid, in proper orientation and correct reading frame for expression. The expression vector will comprise the appropriate heterologous transcriptional and/or translational regulatory control nucleotide sequences recognized by the desired host. The polynucleotide encoding the tumor neoantigenic peptide may be linked to such heterologous regulatory control nucleotide sequences or may be non-adjacent yet operably

linked to such heterologous regulatory control nucleotide sequences. The vector is then introduced into the host through standard techniques. Guidance can be found for example in Sambrook et al. (1989) Molecular Cloning, A Laboratory Manual, Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.

Antigen presenting cells (APCs)

The present disclosure also encompasses a population of antigen presenting cells that have been pulsed with one or more of the peptides as previously defined and / or obtainable in a method as previously described. Preferably, the antigen presenting cells are dendritic cell (DCs) or artificial antigen presenting cells (aAPCs) (see Neal, Lillian R et al. "The Basics of Artificial Antigen Presenting Cells in T Cell-Based Cancer Immunotherapies." Journal of immunology research and therapy vol. 2,1 (2017): 68-79). Dendritic cells (DC) are professional antigen-presenting cells (APC) that have an extraordinary capacity to stimulate naive T-cells and initiate primary immune responses to pathogens. Indeed, the main role of mature DCs are to sense antigens and produce mediators that activate other immune cells, particularly T cells. DCs are potent stimulators for lymphocyte activation as they express MHC molecules that trigger TCRs (signal 1) and co-stimulatory molecules (signal 2) on T cells. Additionally, DCs also secrete cytokines that support T cell expansion. T cells require presented antigen in the form of a processed peptide to recognize foreign pathogens or tumor. Presentation of peptide epitopes derived from pathogen/tumor proteins is achieved through MHC molecules. MHC class I (MHC-I) and MHC class II (MHC-II) molecules present processed peptides to CD8+ T cells and CD4+ T cells, respectively. Importantly, DCs home to inflammatory sites containing abundant T cell populations to foster an immune response. Thus, DCs can be a crucial component of any immunotherapeutic approach, as they are intimately involved with the activation of the adaptive immune response. In the context of vaccines, DC therapy can enhance T cell immune responses to a desired target in healthy volunteers or patients with infectious disease or cancer. In one embodiment, APCS are artificial APC, which are genetically modified to express the desired T-cell co-stimulatory molecules, human HLA alleles and /or cytokines. Such artificial antigen presenting cells (aAPC) are able to provide the requirements for adequate T-cell engagement, co-stimulation, as well as sustained release of cytokines that allow for controlled T-cell expansion. These cells are not subject to the constraints of time and limited availability and can be stored in small aliquots for subsequent use in generating T-cell lines from different donors, thus representing an off the shelf reagent for immunotherapy

applications. Expression of potent co-stimulatory signals on these aAPC endows this system with higher efficiency lending to increased efficacy of adoptive immunotherapy. Furthermore, aAPC can be engineered to express genes directing release of specific cytokines to facilitate the preferential expansion of desirable T-cell subsets for adoptive transfer; such as long lived memory T-cells (see for review Hasan AH et al., . Artificial Antigen Presenting Cells: An Off the Shelf Approach for Generation of Desirable T-Cell Populations for Broad Application of Adoptive Immunotherapy; Adv Genet Eng. 2015; 4(3): 130, Kim JV, Latouche JB, Rivière I, Sadelain M. The ABCs of artificial antigen presentation. Nat Biotechnol. 2004;22:403–410 or Wang C, Sun W, Ye Y, Bomba HN, Gu Z. Bioengineering of Artificial Antigen Presenting Cells and Lymphoid Organs. Theranostics 2017; 7(14):3504-3516.).

Typically, the dendritic cells are autologous dendritic cells that are pulsed with a neoantigenic peptide as herein disclosed. The peptide may be any suitable peptide that gives rise to an appropriate T-cell response. The antigen-presenting cell (or stimulator cell) typically has an MHC class I or II molecule on its surface, and in one embodiment is substantially incapable of itself loading the MHC class I or II molecule with the selected antigen. The MHC class I or II molecule may readily be loaded with the selected antigen in vitro.

As an alternative the antigen presenting cell may comprise an expression construct encoding a tumor neoantigenic peptide as herein disclosed. The polynucleotide may be any suitable polynucleotide as previously defined and it is preferred that it is capable of transducing the dendritic cell, thus resulting in the presentation of a peptide and induction of immunity

Thus the present disclosure encompasses a population of APCs than can be pulsed or loaded with the neoantigenic peptide as herein disclosed, genetically modified (via DNA or RNA transfer) to express at least one neoantigenic peptide as herein disclosed, or that comprise an expression construct encoding a tumor neoantigenic peptide of the present disclosure. Typically the population of APCs is pulsed or loaded, modified to express or comprises at least one, at least 5, at least 10, at least 15, or at least 20 different neoantigenic peptide or expression construct encoding it.

The present disclosure also encompasses compositions comprising APCs as herein disclosed. APCs can be suspended in any known physiologically compatible pharmaceutical carrier, such as cell culture medium, physiological saline, phosphate-buffered saline, cell culture medium, or the like, to form a physiologically acceptable, aqueous pharmaceutical composition. Parenteral vehicles include sodium chloride solution, Ringer's dextrose, dextrose and sodium chloride, lactated Ringer's. Other substances may be added as desired such as antimicrobials.

As used herein, a "carrier" refers to any substance suitable as a vehicle for delivering an APC to a suitable *in vitro* or *in vivo* site of action. As such, carriers can act as an excipient for formulation of a therapeutic or experimental reagent containing an APC. Preferred carriers are capable of maintaining an APC in a form that is capable of interacting with a T cell. Examples of such carriers include, but are not limited to water, phosphate buffered saline, saline, Ringer's solution, dextrose solution, serum-containing solutions, Hank's solution and other aqueous physiologically balanced solutions or cell culture medium. Aqueous carriers can also contain suitable auxiliary substances required to approximate the physiological conditions of the recipient, for example, enhancement of chemical stability and isotonicity. Suitable auxiliary substances include, for example, sodium acetate, sodium chloride, sodium lactate, potassium chloride, calcium chloride, sorbitan monolaurate, triethanolamine oleate, and other substances used to produce phosphate buffer, Tris buffer, and bicarbonate buffer.

Vaccine Compositions

The present disclosure further encompasses a vaccine or immunogenic composition capable of raising a specific T-cell response comprising:

- one or more neoantigenic peptides as herein defined,
- one or more polynucleotides encoding a neoantigenic peptide as herein defined; and/or
- a population of antigen presenting cells (such as autologous dendritic cells or artificial APC) as described above.

Preferably, neoantigenic peptide which are encoded by tumor specific fusions as previously defined are used in vaccine compositions as per the present disclosure. Said neoantigenic peptide can be also named tumor specific peptides. Preferably also polynucleotides encoding tumor specific peptides are used as per the present disclosure.

A suitable vaccine or immunogenic composition will preferably contain between 1 and 20 neoantigenic peptides, more preferably 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 different neoantigenic peptides, further preferred 6, 7, 8, 9, 10 11, 12, 13, or 14 different neoantigenic peptides, and most preferably 12, 13 or 14 different neoantigenic peptides.

The neoantigenic peptide(s) may be linked to a carrier protein. Where the composition contains two or more neoantigenic peptides, the two or more (e.g. 2-25) peptides may be linearly linked

by a spacer molecule as described above, e.g. a spacer comprising 2-6 nonpolar or neutral amino acids.

In one embodiment of the present disclosure the different neoantigenic peptides, encoding polynucleotides, vectors, or APCs are selected so that one vaccine or immunogenic composition comprises neoantigenic peptides capable of associating with different MHC molecules, such as different MHC class I molecules. Preferably, such neoantigenic peptides are capable of associating with the most frequently occurring MHC class I molecules, e.g. different fragments capable of associating with at least 2 preferred, more preferably at least 3 preferred, even more preferably at least 4 preferred MHC class I molecules. In some embodiments, the compositions comprise peptides, encoding polynucleotides, vectors, or APCs capable of associating with one or more MHC class II molecules. The MHC is optionally HLA -A, -B, -C, -DP, -DQ, or -DR.

The vaccine or immunogenic composition is capable of raising a specific cytotoxic T-cells response and/or a specific helper T-cell response.

Thus in a particular embodiment, the present disclosure also relates to a neoantigenic peptide as described above, wherein the neoantigenic peptide has a tumor specific neoepitope and is included in a vaccine or immunogenic composition. A vaccine composition is to be understood as meaning a composition for generating immunity for the prophylaxis and/or treatment of diseases. Accordingly, vaccines are medicines which comprise or generate antigens and are intended to be used in humans or animals for generating specific defense and protective substance by vaccination. An “immunogenic composition” is to be understood as meaning a composition that comprises or generates antigen(s) and is capable of eliciting an antigen-specific humoral or cellular immune response, e.g. T-cell response.

In a preferred embodiment, the neoantigenic peptide according to the disclosure is 8 or 9 residues long, or from 13 to 25 residues long. When the peptide is less than 20 residues, in order to have a peptide better suited for in vivo immunization, said neoantigenic peptide, is optionally flanked by additional amino acids to obtain an immunization peptide of more amino acids, usually more than 20.

Pharmaceutical compositions (i.e., the vaccine or immunogenic composition) comprising a peptide as herein described may be administered to an individual already suffering from cancer. In therapeutic applications, compositions are administered to a patient in an amount sufficient to elicit an effective CTL response to the tumor antigen and to cure or at least partially arrest symptoms and/or complications. An amount adequate to accomplish this is defined as

"therapeutically effective dose." Amounts effective for this use will depend on, e.g., the peptide composition, the manner of administration, the stage and severity of the disease being treated, the weight and general state of health of the patient, and the judgment of the prescribing physician, but generally range for the initial immunization (that is for therapeutic or prophylactic administration) from about 1.0 µg to about 50,000 µg of peptide for a 70 kg patient, followed by boosting dosages or from about 1.0 µg to about 10,000 µg of peptide pursuant to a boosting regimen over weeks to months depending upon the patient's response and condition by measuring specific CTL activity in the patient's blood. It must be kept in mind that the peptide and compositions of the present invention may generally be employed in serious disease states, that is, life-threatening or potentially life threatening situations, especially when the cancer has metastasized. In such cases, in view of the minimization of extraneous substances and the relative nontoxic nature of the peptide, it is possible and may be felt desirable by the treating physician to administer substantial excesses of these peptide compositions.

For therapeutic use, administration should begin at the detection or surgical removal of tumors. This is followed by boosting doses until at least symptoms are substantially abated and for a period thereafter.

The vaccine or immunogenic compositions for therapeutic treatment are intended for parenteral, topical, nasal, oral or local administration. Preferably, the pharmaceutical compositions are administered parenterally, e.g., intravenously, subcutaneously, intradermally, or intramuscularly. The compositions may be administered at the site of surgical excision to induce a local immune response to the tumor.

The vaccine or immunogenic composition may be a pharmaceutical composition which additionally comprises a pharmaceutically acceptable adjuvant, immunostimulatory agent, stabilizer, carrier, diluent, excipient and/or any other materials well known to those skilled in the art. Such materials should be non-toxic and should not interfere with the efficacy of the active ingredient. The carrier is preferably an aqueous carrier but its precise nature of the carrier or other material will depend on the route of administration. A variety of aqueous carriers may be used, e.g., water, buffered water, 0.9% saline, 0.3% glycine, hyaluronic acid and the like. These compositions may be sterilized by conventional, well known sterilization techniques, or may be sterile filtered. The resulting aqueous solutions may be packaged for use as is, or lyophilized, the lyophilized preparation being combined with a sterile solution prior to administration. The compositions may further contain pharmaceutically acceptable auxiliary substances as required to approximate physiological conditions, such as pH adjusting and

buffering agents, tonicity adjusting agents, wetting agents and the like, for example, sodium acetate, sodium lactate, sodium chloride, potassium chloride, calcium chloride, sorbitan monolaurate, triethanolamine oleate, etc. See, for example, Butterfield, BMJ. 2015 22;350 for a discussion of cancer vaccines.

Example adjuvants that increase or expand the immune response of a host to an antigenic compound include emulsifiers, muramyl dipeptides, avridine, aqueous adjuvants such as aluminum hydroxide, chitosan-based adjuvants, saponins, oils, Amphigen, LPS, bacterial cell wall extracts, bacterial DNA, CpG sequences, synthetic oligonucleotides, cytokines and combinations thereof. Emulsifier include, for example, potassium, sodium and ammonium salts of lauric and oleic acid, calcium, magnesium and aluminum salts of fatty acids, organic sulfonates such as sodium lauryl sulfate, cetyltrhethylammonlum bromide, glycerylesters, polyoxyethylene glycol esters and ethers, and sorbitan fatty acid esters and their polyoxyethylene, acacia, gelatin, lecithin and/or cholesterol. Adjuvants that comprise an oil component include mineral oil, a vegetable oil, or an animal oil. Other adjuvants include Freund's Complete Adjuvant (FCA) or Freund's Incomplete Adjuvant (FIA). Cytokines useful as additional immunostimulatory agents include interferon alpha, interleukin-2 (IL-2), and granulocyte macrophage-colony stimulating factor (GM-CSF), or combinations thereof.

The concentration of peptides as herein described in the vaccine or immunogenic formulations can vary widely, i.e., from less than about 0.1 %, usually at or at least about 2 % to as much as 20 % to 50 % or more by weight, and will be selected primarily by fluid volumes, viscosities, etc., in accordance with the particular mode of administration selected.

The peptides as herein described may also be administered via liposomes, which target the peptides to a particular cells tissue, such as lymphoid tissue. Liposomes are also useful in increasing the half-life of the peptides. Liposomes include emulsions, foams, micelles, insoluble monolayers, liquid crystals, phospholipid dispersions, lamellar layers and the like. In these preparations the peptide to be delivered is incorporated as part of a liposome, alone or in conjunction with a molecule which binds to, e.g., a receptor prevalent among lymphoid cells, such as monoclonal antibodies which bind to the CD45 antigen, or with other therapeutic or immunogenic compositions. Thus, liposomes filled with a desired peptide of the invention can be directed to the site of lymphoid cells, where the liposomes then deliver the selected therapeutic/immunogenic peptide compositions. Liposomes for use in the invention are formed from standard vesicle-forming lipids, which generally include neutral and negatively charged phospholipids and a sterol, such as cholesterol. The selection of lipids is generally guided by

consideration of, e.g., liposome size, acid lability and stability of the liposomes in the blood stream. A variety of methods are available for preparing liposomes, as described in, e.g., Szoka et al., Ann. Rev. Biophys. Bioeng. 9;467 (1980), USA U.S. Patent Nos. 4,235,871 , 4501728 USA 4,501,728 , 4,837,028 , and 5,019,369 .

For targeting to the immune cells, a ligand to be incorporated into the liposome can include, e.g., antibodies or fragments thereof specific for cell surface determinants of the desired immune system cells. A liposome suspension containing a peptide may be administered intravenously, locally, topically, etc. in a dose which varies according to, inter alia, the manner of administration, the peptide being delivered, and the stage of the disease being treated.

For solid compositions, conventional or nanoparticle nontoxic solid carriers may be used which include, for example, pharmaceutical grades of mannitol, lactose, starch, magnesium stearate, sodium saccharin, talcum, cellulose, glucose, sucrose, magnesium carbonate, and the like. For oral administration, a pharmaceutically acceptable nontoxic composition is formed by incorporating any of the normally employed excipients, such as those carriers previously listed, and generally 10-95% of active ingredient, that is, one or more peptides of the invention, and more preferably at a concentration of 25%-75%.

For aerosol administration, the immunogenic peptides are preferably supplied in finely divided form along with a surfactant and propellant. Typical percentages of peptides are 0.01 %-20 % by weight, preferably 1%-10%. The surfactant must, of course, be nontoxic, and preferably soluble in the propellant. Representative of such agents are the esters or partial esters of fatty acids containing from 6 to 22 carbon atoms, such as caproic, octanoic, lauric, palmitic, stearic, linoleic, linolenic, olesteric and oleic acids with an aliphatic polyhydric alcohol or its cyclic anhydride. Mixed esters, such as mixed or natural glycerides may be employed. The surfactant may constitute 0.1 %-20 % by weight of the composition, preferably 0.25-5 %. The balance of the composition is ordinarily propellant. A carrier can also be included as desired, as with, e.g., lecithin for intranasal delivery.

Cytotoxic T-cells (CTLs) recognize an antigen in the form of a peptide bound to an MHC molecule rather than the intact foreign antigen itself. The MHC molecule itself is located at the cell surface of an antigen presenting cell. Thus, an activation of CTLs is only possible if a trimeric complex of peptide antigen, MHC molecule, and antigen presenting cell (APC) is present. Correspondingly, it may enhance the immune response if not only the peptide is used for activation of CTLs, but if additionally APCs with the respective MHC molecule are added. Therefore, in some embodiments the vaccine or immunogenic composition according to the

present disclosure alternatively or additionally contains at least one antigen presenting cell, preferably a population of APCs.

The vaccine or immunogenic composition may thus be delivered in the form of a cell, such as an antigen presenting cell, for example as a dendritic cell vaccine. The antigen presenting cells such as a dendritic cell may be pulsed or loaded with a neoantigenic peptide as herein disclosed, may comprise an expression construct encoding a neoantigenic peptide as herein disclosed, or may be genetically modified (via DNA or RNA transfer) to express one, two or more of the herein disclosed neoantigenic peptides, for example at least 2, 3, 4, 5, 6, 7, 8, 9, or 10 neoantigenic peptides.

Suitable vaccines or immunogenic compositions may also be in the form of DNA or RNA relating to neoantigenic peptides as described herein. For example, DNA or RNA encoding one or more neoantigenic peptides or proteins derived therefrom may be used as the vaccine, for example by direct injection to a subject. For example, DNA or RNA encoding at least 2, 3, 4, 5, 6, 7, 8, 9 , 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 or 25 neoantigenic peptides or proteins derived therefrom.

A number of methods are conveniently used to deliver the nucleic acids to the patient. For instance, the nucleic acid can be delivered directly, as "naked DNA". This approach is described, for instance, in Wolff et al., Science 247: 1465-1468 (1990) as well as USAU.S. Patent Nos. 5,580,859 and 5,589,466 . The nucleic acids can also be administered using ballistic delivery as described, for instance, in U.S. Patent No. 5,204,253 . Particles comprised solely of DNA can be administered. Alternatively, DNA can be adhered to particles, such as gold particles.

The nucleic acids can also be delivered complexed to cationic compounds, such as cationic lipids. Lipid-mediated gene delivery methods are described, for instance, in 9618372WOAWO 96/18372; 9324640WOAWO 93/24640; Mannino & Gould-Fogerite, BioTechniques 6(7): 682-691 (1988); 5279833USARose U.S. Pat No. 5,279,833 ; 9106309WOAWO 91/06309; and Felgner et al., Proc. Natl. Acad. Sci. USA 84: 7413-7414 (1987).

Delivery systems may optionally include cell-penetrating peptides, nanoparticulate encapsulation, virus like particles, liposomes, or any combination thereof. Cell penetrating peptides include TAT peptide, herpes simplex virus VP22, transportan, Antp. Liposomes may be used as a delivery system. Listeria vaccines or electroporation may also be used.

The one or more neoantigenic peptides may also be delivered via a bacterial or viral vector containing DNA or RNA sequences which encode one or more neoantigenic peptides. The DNA or RNA may be delivered as a vector itself or within attenuated bacteria virus or live attenuated virus, such as vaccinia or fowlpox. This approach involves the use of vaccinia virus as a vector to express nucleotide sequences that encode the peptide of the invention. Upon introduction into an acutely or chronically infected host or into a noninfected host, the recombinant vaccinia virus expresses the immunogenic peptide, and thereby elicits a host CTL response. Vaccinia vectors and methods useful in immunization protocols are described in, e.g., U.S. Patent No. 4,722,848 ,. Another vector is BCG (Bacille Calmette Guerin). BCG vectors are described in Stover et al. (Nature 351:456-460 (1991)). A wide variety of other vectors useful for therapeutic administration or immunization of the peptides of the invention, e.g.,Salmonella typhivectors and the like, will be apparent to those skilled in the art from the description herein.

An appropriate mean of administering nucleic acids encoding the peptides as herein described involves the use of minigene constructs encoding multiple epitopes. To create a DNA sequence encoding the selected CTL epitopes (minigene) for expression in human cells, the amino acid sequences of the epitopes are reverse translated. A human codon usage table is used to guide the codon choice for each amino acid. These epitope-encoding DNA sequences are directly adjoined, creating a continuous polypeptide sequence. To optimize expression and/or immunogenicity, additional elements can be incorporated into the minigene design. Examples of amino acid sequence that could be reverse translated and included in the minigene sequence include: helper T lymphocyte, epitopes, a leader (signal) sequence, and an endoplasmic reticulum retention signal. In addition, MHC presentation of CTL epitopes may be improved by including synthetic (e.g. poly-alanine) or naturally-occurring flanking sequences adjacent to the CTL epitopes.

The minigene sequence is converted to DNA by assembling oligonucleotides that encode the plus and minus strands of the minigene. Overlapping oligonucleotides (30-100 bases long) are synthesized, phosphorylated, purified and annealed under appropriate conditions using well known techniques. The ends of the oligonucleotides are joined using T4 DNA ligase. This synthetic minigene, encoding the CTL epitope polypeptide, can then cloned into a desired expression vector.

Standard regulatory sequences well known to those of skill in the art are included in the vector to ensure expression in the target cells. Thus, the DNA or RNA encoding the neoantigenic peptide(s) may typically be operably linked to one or more of:

- a promoter that can be used to drive nucleic acid molecule expression. AAV ITR can serve as a promoter and is advantageous for eliminating the need for an additional promoter element. For ubiquitous expression, the following promoters can be used: CMV (notably human cytomegalovirus immediate early promoter (hCMV-IE)), CAG, CBh, PGK, SV40, RSV, Ferritin heavy or light chains, etc. For brain expression, the following promoters can be used: Synapsinl for all neurons, CaMKIIalpha for excitatory neurons, GAD67 or GAD65 or VGAT for GABAergic neurons, etc. Promoters used to drive RNA synthesis can include: Pol III promoters such as U6 or HI . The use of a Pol II promoter and intronic cassettes can be used to express guide RNA (gRNA). Typically, the promoter includes a down-stream cloning site for minigene insertion. For examples of suitable promoters sequences, see notably U.S. Patent Nos. 5,580,859 and 5,589,466.
- Transcriptional transactivators or other enhancer elements, which can also increase transcription activity, e.g. the regulatory R region from the 5′ long terminal repeat (LTR) of human T-cell leukemia virus type 1 (HTLV-1) (which when combined with a CMV promoter has been shown to induce higher cellular immune response).
- Translation optimizing sequences e.g. a Kozak sequence flanking the AUG initiator codon (ACCAUGG) within mRNA, and codon optimization.

Additional vector modifications may be desired to optimize minigene expression and immunogenicity. In some cases, introns are required for efficient gene expression, and one or more synthetic or naturally-occurring introns could be incorporated into the transcribed region of the minigene. The inclusion of mRNA stabilization sequences can also be considered for increasing minigene expression. It has recently been proposed that immunostimulatory sequences (ISSs or CpGs) play a role in the immunogenicity of DNA' vaccines. These sequences could be included in the vector, outside the minigene coding sequence, if found to enhance immunogenicity.

In some embodiments, a bicistronic expression vector, to allow production of the minigene-encoded epitopes and a second protein included to enhance or decrease immunogenicity can be used.

DNA vaccines or immunogenic compositions as herein described can be enhanced by co-delivering cytokines that promote cell-mediated immune responses, such as IL-2, IL-12, IL-18,

GM-CSF and IFNγ. CXC chemokines such as IL-8, and CC chemokines such as macrophage inflammatory protein (MIP)-1α, MIP-3α, MIP-3β, and RANTES, may increase the potency of the immune response. DNA vaccine immunogenicity can also be enhanced by co-delivering plasmid-encoded cytokine-inducing molecules (e.g. LeIF), co-stimulatory and adhesion molecules, e.g. B7-1 (CD80) and/or B7-2 (CD86). Helper (HTL) epitopes could be joined to intracellular targeting signals and expressed separately from the CTL epitopes. This would allow direction of the HTL epitopes to a cell compartment different than the CTL epitopes. If required, this could facilitate more efficient entry of HTL epitopes into the MHC class II pathway, thereby improving CTL induction. In contrast to CTL induction, specifically decreasing the immune response by co-expression of immunosuppressive molecules (e.g. TGF-β) may be beneficial in certain diseases.

Once an expression vector is selected, the minigene is cloned into the polylinker region downstream of the promoter. This plasmid is transformed into an appropriate E. coli strain, and DNA is prepared using standard techniques. The orientation and DNA sequence of the minigene, as well as all other elements included in the vector, are confirmed using restriction mapping and DNA sequence analysis. Bacterial cells harboring the correct plasmid can be stored as a master cell bank and a working cell bank.

Purified plasmid DNA can be prepared for injection using a variety of formulations. The simplest of these is reconstitution of lyophilized DNA in sterile phosphate-buffer saline (PBS). A variety of methods have been described, and new techniques may become available. As noted above, nucleic acids are conveniently formulated with cationic lipids. In addition, glycolipids, fusogenic liposomes, peptides and compounds referred to collectively as protective, interactive, non-condensing (PINC) could also be complexed to purified plasmid DNA to influence variables such as stability, intramuscular dispersion, or trafficking to specific organs or cell types.

Vaccines or immunogenic compositions comprising peptides may be administered in combination with vaccines or immunogenic compositions comprising polynucleotide encoding the peptides. For example, administration of peptide vaccine and DNA vaccine may be alternated in a prime-boost protocol. For example, priming with a peptide immunogenic composition and boosting with a DNA immunogenic composition is contemplated, as is

priming with a DNA immunogenic composition and boosting with a peptide immunogenic composition.

The present disclosure also encompasses a method for producing a vaccine composition comprising the steps of:

a) Optionally, identifying at least one neoantigenic peptide according to the method as previously described;
b) producing said at least one neoantigenic peptide, at least one polypeptide encoding neoantigenic peptide(s), or at least a vector comprising said polypeptide(s) as described herein; and
c) optionally adding physiologically acceptable buffer, excipient and/or adjuvant and producing a vaccine with said at least one neoantigenic peptide, polypeptide or vector.

Another aspect of the present disclosure, is a method for producing a DC vaccine, wherein said DCs present at least one neoantigenic peptide as herein disclosed.

Antibodies TCRs, CARs and derivatives thereof

The present disclosure also relates to an antibody or an antigen-binding fragment thereof that specifically binds a chimeric polypeptide (or protein), and most preferably a chimeric protein of SEQ ID NO: 1-8202, or a neoantigenic peptide typically in association with an MHC or HLA molecule, as herein disclosed.

In some embodiments, said antibody or antigen-binding fragment thereof comprises or consists in an antigen-binding domain (that bind a chimeric protein) as previously defined.

Typically, said antibody, or antigen-binding fragment thereof binds a neoantigenic peptide typically in association with an MHC or HLA molecule or a (transmembrane) chimeric protein, as previously defined, with a dissociation constant (K_d) of about 2 x 10^{-7} M or less. In certain embodiments, the K_d is about 2 x 10^{-7} M or less, about 1 x 10^{-7} M or less, about 9 x 10^{-8} M or less, about 1 x 10^{-8} M or less, about 9 x 10^{-9} M or less, about 5 x 10^{-9} M or less, about 4 x 10^{-9} M or less, about 3 x 10^{-9} or less, about 2 x 10^{-9} M or less, or about 1 x 10^{-9} M or less. In certain non-limiting embodiments, the K_d is about 3 x 10^{-9} M or less. In certain non-limiting embodiments, the K_d is from about 1 x 10^{-9} M to about 3 x 10^{-7} M. In certain non-limiting embodiments, the K_d is from about 1.5 x 10^{-9} M to about 3 x 10^{-7} M. In certain non-limiting embodiments, the K_d is from about 1.5 x 10^{-9} M to about 2.7 x 10^{-7} M.

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To promote the infiltration and recognition of tumor cells by lymphocytes T (LT), another strategy consists in using antibodies capable of recognizing more than one antigenic target simultaneously and more particularly two antigenic targets simultaneously. There are many formats of bispecific antibodies. BiTE (bi-specific T-cell engager) are the first to have been developed. These are proteins of fusion consisting of two scFvs (variable domains heavy VH and light VL chains) from two antibodies linked by a binding peptide: one recognizes the LT marker (CD3+) and the other a tumor antigen. The goal is to favor recruitment and activation of LTs in contact with tumor, thus leading to cell lysis tumor (See for review Patrick A. Baeuerle and Carsten Reinhardt; Bispecific T-Cell Engaging Antibodies for Cancer Therapy; Cancer Res 2009; 69: (12). June 15, 2009 ; and Galaine *et al.,* Innovations & Thérapeutiques en Oncologie, vol. 3-n°3-7, mai-août 2017).

In a particular embodiment, said antibody is thus a bi-specific T-cell engager that targets a chimeric protein as herein defined, and in particular that comprises an antigen binding domain as previously defined.

The term "**antibody**" herein is used in the broadest sense and includes polyclonal and monoclonal antibodies, including intact antibodies and functional (antigen-binding) antibody fragments, including fragment antigen binding (Fab) fragments, F(ab')2 fragments, Fab' fragments, Fv fragments, recombinant IgG (rlgG) fragments, variable heavy chain (VH) regions capable of specifically binding the antigen, single chain antibody fragments, including single chain variable fragments (scFv), and single domain antibodies (e.g., VHH antibodies, sdAb, sdFv, nanobody) fragments. The term encompasses genetically engineered and/or otherwise variants modified forms of immunoglobulins, such as intrabodies, peptibodies, chimeric antibodies, fully human antibodies, humanized antibodies, and heteroconjugate antibodies, multispecific, e.g., bispecific, antibodies, diabodies, triabodies, and tetrabodies, tandem di-scFv, tandem tri-scFv. Unless otherwise stated, the term "antibody" should be understood to encompass functional antibody and fragments thereof. The term also encompasses intact or full-length antibodies, including antibodies of any class or sub-class, including IgG and sub-classes thereof, IgG1, IgG2, IgG3, IgG4, IgM, IgE, IgA, and IgD. In some embodiments, the antibody comprises a light chain variable domain and a heavy chain variable domain, e.g. in an scFv format.

Antibodies include variant polypeptide species that have one or more amino acid substitutions, insertions, or deletions in the native amino acid sequence, provided that the antibody retains or

substantially retains its specific binding function. Conservative substitutions of amino acids are well known and described above.

The present disclosure further includes a method of producing an antibody, or antigen-binding fragment thereof, comprising a step of selecting antibodies that bind to a tumor neoantigen peptide as herein defined, typically in association with an MHC or HLA molecule, or that bind a chimeric protein as herein defined with a dissociation constant (K_d) of about 2 x 10^{-7} M or less. In certain embodiments, the K_d is about 2 x 10^{-7} M or less, about 1 x 10-7 M or less, about 9 x 10^{-8} M or less, about 1 x 10^{-8} M or less, about 9 x 10^{-9} M or less, about 5 x 10^{-9} M or less, about 4 x 10^{-9} M or less, about 3 x 10^{-9} or less, about 2 x 10^{-9} M or less, or about 1 x 10^{-9} M or less , or about 1 x 10^{-10} M or less, or about 1 x 10^{-12} M or less.

In certain embodiments, the antibody is of murine, human or camelid (e.g., lama) origin.

In some embodiments, the antibodies are selected from a library of human antibody sequences. In some embodiments, the antibodies are generated by immunizing an animal with a chimeric protein of any one of SEQ ID NO:1-8202, as previously defined, or a portion thereof (in particular with the extracellular portion) , followed by the selection step.

Antibodies including chimeric, humanized or human antibodies can be further affinity matured and selected as described above. Humanized antibodies contain rodent-sequence derived CDR regions; typically the rodent CDRs are engrafted into a human framework, and some of the human framework residues may be back-mutated to the original rodent framework residue to preserve affinity, and/or one or a few of the CDR residues may be mutated to increase affinity. Fully human antibodies have no murine sequence, and are typically produced via phage display technologies of human antibody libraries, or immunization of transgenic mice whose native immunoglobin loci have been replaced with segments of human immunoglobulin loci.

Antibodies produced by said method, as well as immune cells expressing such antibodies or fragments thereof are also encompassed by the present disclosure.

The present disclosure also encompasses pharmaceutical compositions comprising one or more antibodies as herein disclosed alone or in combination with at least one other agent, such as a stabilizing compound, which may be administered in any sterile, biocompatible pharmaceutical carrier and optionally formulated with formulated with sterile pharmaceutically acceptable buffer(s), diluent(s), and/or excipient(s). Pharmaceutically acceptable carriers typically enhance or stabilize the composition, and/or can be used to facilitate preparation of the composition. Pharmaceutically acceptable carriers include solvents, dispersion media, coatings, antibacterial

and antifungal agents, isotonic and absorption delaying agents, and the like that are physiologically compatible and in some embodiments pharmaceutically inert.

Administration of a pharmaceutical composition comprising antibodies as herein disclosed can be accomplished orally or parenterally. Methods of parenteral delivery include topical, intra-arterial (directly to the tumor), intramuscular, spinal, subcutaneous, intramedullary, intrathecal, intraventricular, intravenous, intraperitoneal, or intranasal administration.

Thus, in addition to the active ingredients, these pharmaceutical compositions may contain suitable pharmaceutically acceptable carriers comprising excipients and auxiliaries which facilitate processing of the active compounds into preparations which can be used pharmaceutically. Further details on techniques for formulation and administration may be found in the latest edition of Remington's Pharmaceutical Sciences (Ed. Maack Publishing Co, Easton, Pa.).

Depending on the route of administration, the active compound, i.e., antibody, bispecific and multispecific molecule, may be coated in a material to protect the compound from the action of acids and other natural conditions that may inactivate the compound.

The composition is typically sterile and preferably fluid. Proper fluidity can be maintained, for example, by use of coating such as lecithin, by maintenance of required particle size in the case of dispersion and by use of surfactants. In many cases, it is preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol or sorbitol, and sodium chloride in the composition. Long-term absorption of the injectable compositions can be brought about by including in the composition an agent which delays absorption, for example, aluminum monostearate or gelatin.

Pharmaceutical compositions for oral administration can be formulated using pharmaceutically acceptable carriers well known in the art in dosages suitable for oral administration. Such carriers enable the pharmaceutical compositions to be formulated as tablets, pills, dragees, capsules, liquids, gels, syrups, slurries, suspensions and the like, for ingestion by the patient.

Pharmaceutical preparations for oral use can be obtained through combination of active compounds with solid excipient, optionally grinding a resulting mixture, and processing the mixture of granules, after adding suitable auxilliaries, if desired, to obtain tablets or dragee cores. Suitable excipients are carbohydrate or protein fillers such as sugars, including lactose, sucrose, mannitol, or sorbitol; starch from corn, wheat, rice, potato, or other plants; cellulose such as methyl, cellulose, hydroxypropylmethylcellulose, or sodium carboxymethylcellulose;

and gums including arabic and tragacanth; and proteins such as gelatin and collagen. If desired, disintegrating or solubilizing agents may be added, such as the cross-linked polyvinyl pyrrolidone, agar, alginic acid, or a salt thereof, such as sodium alginate.

Dragee cores are provided with suitable coatings such as concentrated sugar solutions, which may also contain gum arabic, talc, polyvinylpyrrolidone, carbopol gel, polyethylene glycol and/or titanium dioxide, lacquer solutions, and suitable organic solvents or solvent mixtures. Dyestuffs or pigments may be added to the tablets or dragee coatings for product identification or to characterize the quantity of active compound, ie. dosage.

Pharmaceutical preparations that can be used orally include push-fit capsules made of gelatin, as well as soft, sealed capsules made of gelatin and a coating such as glycerol or sorbitol. Push-fit capsules can contain active ingredients mixed with a filler or binders such as lactose or starches, lubricants such as talc or magnesium stearate, and optionally, stabilizers. In soft capsules, the active compounds may be dissolved or suspended in suitable liquids, such as fatty oils, liquid paraffin, or liquid polyethylene glycol with or without stabilizers.

Pharmaceutical formulations for parenteral administration include aqueous solutions of active compounds. For injection, the pharmaceutical compositions of the invention may be formulated in aqueous solutions, preferably in physiologically compatible buffers such as Hank's solution, Ringer's solution, or physiologically buffered saline. Aqueous injection suspensions may contain substances that increase viscosity of the suspension, such as sodium carboxymethyl cellulose, sorbitol, or dextran. Additionally, suspensions of the active compounds may be prepared as appropriate oily injection suspensions. Suitable lipophilic solvents or vehicles include fatty oils such as sesame oil, or synthetic fatty acid esters, such as ethyl oleate or triglycerides, or liposomes. Optionally, the suspension may also contain suitable stabilizers or agents which increase the solubility of the compounds to allow for the preparation of highly concentrated solutions.

For topical or nasal administration, penetrants appropriate to the particular barrier to be permeated are used in the formulation. Such penetrants are generally known in the art.

Pharmaceutical compositions of the disclosure can be prepared in accordance with methods well known and routinely practiced in the art. See. e.g., Remington: The Science and Practice of Pharmacy, Mack Publishing Co., 20th ed., 2000; and Sustained and Controlled Release Drug Delivery Systems, J R. Robinson, ed., Marcel Dekker, Inc., New York, 1978. Pharmaceutical compositions are preferably manufactured under GMP conditions.

The present disclosure also encompasses a recombinant T cell receptor (TCR) that targets a neoantigenic peptide as herein defined in association with an MHC or HLA molecule.

The present disclosure further includes a method of producing a TCR, or an antigen-binding fragment thereof, comprising a step of selecting TCRs that bind to a tumor neoantigen peptide as herein defined, optionally in association with an MHC or HLA molecule, with a dissociation constant (K_d) of about 2 x 10^{-7} M or less. In certain embodiments, the K_d is about 2 x 10^{-7} M or less, about 1 x 10-7 M or less, about 9 x 10^{-8} M or less, about 1 x 10^{-8} M or less, about 9 x 10^{-9} M or less, about 5 x 10^{-9} M or less, about 4 x 10^{-9} M or less, about 3 x 10^{-9} or less, about 2 x 10^{-9} M or less, or about 1 x 10^{-9} M or less, or about 1 x 10-10 M or less, or about 1 x 10-12 M or less..

Nucleic acid encoding the TCR can be obtained from a variety of sources, such as by polymerase chain reaction (PCR) amplification of naturally occurring TCR DNA sequences, followed by expression of antibody variable regions, followed by the selecting step described above. In some embodiments, the TCR is obtained from T-cells isolated from a patient, or from cultured T-cell hybridomas. In some embodiments, the TCR clone for a target antigen has been generated in transgenic mice engineered with human immune system genes (e.g., the human leukocyte antigen system, or HLA). See, e.g., tumor antigens (see, e.g., Parkhurst et al. (2009) Clin Cancer Res. 15:169-180 and Cohen et al. (2005) J Immunol. 175:5799-5808. In some embodiments, phage display is used to isolate TCRs against a target antigen (see, e.g., Varela-Rohena et al. (2008) Nat Med. 14:1390-1395 and Li (2005) Nat Biotechnol. 23:349-354.

A "**T cell receptor**" or "**TCR**" refers to a molecule that contains a variable α and β chains (also known as TCRa and TCRb, respectively) or a variable γ and δ chains (also known as TCRg and TCRd, respectively) and that is capable of specifically binding to an antigen peptide bound to a MHC receptor. In some embodiments, the TCR is in the αβ form. Typically, TCRs that exist in αβ and γδ forms are generally structurally similar, but T cells expressing them may have distinct anatomical locations or functions. A TCR can be found on the surface of a cell or in soluble form. Generally, a TCR is found on the surface of T cells (or T lymphocytes) where it is generally responsible for recognizing antigens bound to major histocompatibility complex (MHC) molecules through its extracellular binding domain. In some embodiments, a TCR also can contain a constant domain, a transmembrane domain and/or a short cytoplasmic tail (see, e.g., Janeway et ah, Immunobiology: The Immune System in Health and Disease, 3 rd Ed., Current Biology Publications, p. 4:33, 1997). For example, in some aspects, each chain of the

TCR can possess one N-terminal immunoglobulin variable domain, one immunoglobulin constant domain, a transmembrane region, and a short cytoplasmic tail at the C-terminal end. In some embodiments, a TCR is associated with invariant proteins of the CD3 complex involved in mediating signal transduction. Unless otherwise stated, the term "TCR" should be understood to encompass functional TCR fragments thereof. The term also encompasses intact or full-length TCRs, including TCRs in the αβ form or γδ form.

Thus, for purposes herein, reference to a TCR includes any TCR or functional fragment, such as an antigen-binding portion of a TCR that binds to a specific antigenic peptide bound in an MHC molecule, i.e. MHC-peptide complex. An "antigen-binding portion" or antigen-binding fragment" of a TCR, which can be used interchangeably, refers to a molecule that contains a portion of the structural domains of a TCR, but that binds the antigen (e.g. MHC-peptide complex) to which the full TCR binds. In some cases, an antigen-binding portion contains the variable domains of a TCR, such as variable a chain and variable β chain of a TCR, sufficient to form a binding site for binding to a specific MHC-peptide complex, such as generally where each chain contains three complementarity determining regions.

In some embodiments, the variable domains of the TCR chains associate to form loops, or complementarity determining regions (CDRs) analogous to immunoglobulins, which confer antigen recognition and determine peptide specificity by forming the binding site of the TCR molecule and determine peptide specificity. Typically, like immunoglobulins, the CDRs are separated by framework regions (FRs) {see, e.g., Jores et al., Pwc. Nat'lAcad. Sci. U.S.A. 87:9138, 1990; Chothia et al., EMBO J. 7:3745, 1988; see also Lefranc et al., Dev. Comp. Immunol. 27:55, 2003). In some embodiments, CDR3 is the main CDR responsible for recognizing processed antigen, although CDR1 of the alpha chain has also been shown to interact with the N-terminal part of the antigenic peptide, whereas CDR1 of the beta chain interacts with the C-terminal part of the peptide. CDR2 is thought to recognize the MHC molecule. In some embodiments, the variable region of the β-chain can contain a further hypervariability (HV4) region.

In some embodiments, the TCR chains contain a constant domain. For example, like immunoglobulins, the extracellular portion of TCR chains {e.g., α-chain, β-chain) can contain two immunoglobulin domains, a variable domain {e.g., Va or Vp; typically amino acids 1 to 116 based on Kabat numbering Kabat et al., "Sequences of Proteins of Immunological Interest, US Dept. Health and Human Services, Public Health Service National Institutes of Health, 1991, 5th ed.) at the N-terminus, and one constant domain {e.g., a-chain constant domain or

Ca, typically amino acids 117 to 259 based on Kabat, β-chain constant domain or Cp, typically amino acids 117 to 295 based on Kabat) adjacent to the cell membrane. For example, in some cases, the extracellular portion of the TCR formed by the two chains contains two membrane-proximal constant domains, and two membrane-distal variable domains containing CDRs. The constant domain of the TCR domain contains short connecting sequences in which a cysteine residue forms a disulfide bond, making a link between the two chains. In some embodiments, a TCR may have an additional cysteine residue in each of the α and β chains such that the TCR contains two disulfide bonds in the constant domains.

In some embodiments, the TCR chains can contain a transmembrane domain. In some embodiments, the transmembrane domain is positively charged. In some cases, the TCR chains contain a cytoplasmic tail. In some cases, the structure allows the TCR to associate with other molecules like CD3. For example, a TCR containing constant domains with a transmembrane region can anchor the protein in the cell membrane and associate with invariant subunits of the CD3 signaling apparatus or complex.

Generally, CD3 is a multi-protein complex that can possess three distinct chains (γ, δ, and ε) in mammals and the ζ-chain. For example, in mammals the complex can contain a CD3y chain, a CD35 chain, two CD3s chains, and a homodimer of CD3ζ chains. The CD3y, CD35, and CD3s chains are highly related cell surface proteins of the immunoglobulin superfamily containing a single immunoglobulin domain. The transmembrane regions of the CD3y, CD35, and CD3s chains are negatively charged, which is a characteristic that allows these chains to associate with the positively charged T cell receptor chains. The intracellular tails of the CD3y, CD35, and CD3s chains each contain a single conserved motif known as an immunoreceptor tyrosine -based activation motif or ITAM, whereas each CD3ζ chain has three. Generally, ITAMs are involved in the signaling capacity of the TCR complex. These accessory molecules have negatively charged transmembrane regions and play a role in propagating the signal from the TCR into the cell. The CD3- and ζ-chains, together with the TCR, form what is known as the T cell receptor complex.

In some embodiments, the TCR may be a heterodimer of two chains α and β (or optionally γ and δ) or it may be a single chain TCR construct. In some embodiments, the TCR is a heterodimer containing two separate chains (α and β chains or γ and δ chains) that are linked, such as by a disulfide bond or disulfide bonds.

While T-cell receptors (TCRs) are transmembrane proteins and do not naturally exist in soluble form, antibodies can be secreted as well as membrane bound. Importantly, TCRs have the

advantage over antibodies that they in principle can recognize peptides generated from all degraded cellular proteins, both intra- and extracellular, when presented in the context of MHC molecules. Thus TCRs have important therapeutic potential.

The present disclosure also relates to soluble T-cell receptors (sTCRs) that contain the antigen recognition part directed against a tumor neoantigenic peptide as herein disclosed (see notably Walseng E, Wälchli S, Fallang L-E, Yang W, Vefferstad A, Areffard A, et al. (2015) Soluble T-Cell Receptors Produced in Human Cells for Targeted Delivery. PLoS ONE 10(4): e0119559). In a particular embodiment, the soluble TCR can be fused to an antibody fragment directed to a T cell antigen, optionally wherein the targeted antigen is CD3 or CD16 (see for example Boudousquie, Caroline et al. "Polyfunctional response by ImmTAC (IMCgp100) redirected CD8+ and CD4+ T cells." Immunology vol. 152,3 (2017): 425-438. doi:10.1111/imm.12779).

In certain embodiments, the present disclosure encompasses Recombinant HLA-independent (or non-HLA restricted) T cell receptors (referred to as"HI-TCRs") that bind to a (transmembrane) chimeric protein as herein defined (in particular a neoantigenic peptide of any one of SEQ ID NO: 1 to 8202 as previously defined) in an HLA-independent manner. "HI-TCRs" as herein intended and which are well-suited to the present invention are described in International Application No. WO 2019/157454. Thus, typically HI-TCRs according to the present disclosure comprise an antigen binding chain that comprises: (a) an antigen-binding domain (as previously defined) that binds to an antigen in an HLA-independent manner, for example, an antigen-binding fragment of an immunoglobulin variable region; and (b) a constant domain that is capable of associating with (and consequently activating) a CD3ζ polypeptide. Because typically TCRs bind antigen in a HLA-dependent manner, the antigen-binding domain that binds in an HLA-independent manner is heterologous. Preferably, the antigen-binding domain or fragment thereof comprises: (i) an antigen-binding domain comprising or consisting of an heavy chain variable region (VH) of an antibody and/or (ii) a light chain variable region (VL) of an antibody. The constant domain of the TCR is, for example, a native or modified TRAC polypeptide, or a native or modified TRBC polypeptide. The constant domain of the TCR is, for example, a native TCR constant domain (alpha or beta) or fragment thereof. Unlike chimeric antigen receptors, which typically themselves comprise an intracellular signaling domain, the HI-TCR does not directly produce an activating signal; instead, the antigen-binding chain associates with and consequently activates a CD3ζ polypeptide. The immune cells comprising the recombinant TCR provide superior activity when the antigen has a low density on the cell surface of less than about 10,000 molecules per cell.

The CD3ζ polypeptide is, for example, a native CD3ζ polypeptide or a modified CD3ζ polypeptide. The CD3ζ polypeptide is optionally fused to an intracellular domain of a co-stimulatory molecule or a fragment thereof. Alternatively, the antigen binding domain optionally comprises a co-stimulatory region, e.g. intracellular domain, that is capable of stimulating an immunoresponsive cell upon the binding of the antigen binding chain to the antigen. Example co-stimulatory molecules include CD28, 4-1BB, OX40, ICOS, DAP-10, fragments thereof, or a combination thereof.

In some embodiments, the recombinant HI-TCR is expressed by a transgene that is integrated at an endogenous gene locus of the immunoresponsive cell, for example, a CD3δ locus, a CD3ε locus, a CD247 locus, a B2M locus, a TRAC locus, a TRBC locus, a TRDC locus and/or a TRGC locus. In most embodiments, expression of the recombinant HI-TCR is driven from the endogenous TRAC or TRBC gene locus. In some embodiments, the transgene encoding a portion of the recombinant HI-TCR is integrated into the endogenous TRAC and/or TRBC locus in a manner that disrupts or abolishes the endogenous expression of a TCR comprising a native TCR α chain and/or a native TCR β chain. This disruption prevents or eliminates mispairing between the recombinant TCR and a native TCR α chain and/or a native TCR β chain in the immunoresponsive cell. The endogenous gene locus may also comprise a modified transcription terminator region, for example, a TK transcription terminator, a GCSF transcription terminator, a TCRA transcription terminator, an HBB transcription terminator, a bovine growth hormone transcription terminator, an SV40 transcription terminator, and a P2A element.

In some embodiments of the present disclosure, the recombinant TCR and typically the HI-TCR comprises an extracellular antigen-binding domain which is capable of dimerizing with a second extracellular antigen-binding domain. Typically, the second extracellular antigen-binding domain binds a tumor antigen, preferably wherein the tumor antigen is selected from pHER95, CD19, MUC16, MUC1, CAIX, CEA, CD8, CD7, CD10, CD20, CD22, CD30, CD70, CLL1, CD33, CD34, CD38, CD41, CD44, CD49f, CD56, CD74, CD133, CD138, EGP-2, EGP-40, EpCAM, Erb-B2, Erb-B3, Erb-B4, FBP, Fetal acetylcholine receptor, folate receptor-a, GD2, GD3, HER-2, hTERT, IL-13R-a2, κ-light chain, KDR, LeY, L1 cell adhesion molecule, MAGE-A1, Mesothelin, MAGEA3, p53, MART1,GP100, Proteinase3 (PR1), Tyrosinase, Survivin, hTERT, EphA2, NKG2D ligands, NY-ESO-1, oncofetal antigen (h5T4), PSCA, PSMA, ROR1, TAG-72, VEGF-R2, WT-1, BCMA, CD123, CD44V6, NKCS1, EGF1R, EGFR-VIII, CD99, CD70, ADGRE2, CCR1, LILRB2, LILRB4, PRAME, and ERBB.

The present disclosure also encompasses a chimeric antigen receptor (CAR) which is directed against a chimeric polypeptide (or protein) as herein disclosed and in particular a transmembrane chimeric protein of any one of SEQ ID NO: 1 to 8202 as herein defined. In preferred embodiments, the CAR comprises an antigen-binding domain as previously defined. CARs are fusion proteins comprising an antigen-binding domain, typically derived from an antibody, linked to the signalling domain of the TCR complex. CARs can be used to direct immune cells, such as T-cells or NK T cells, against a tumor neoantigenic peptide as previously defined with a suitable antigen-binding domain selected.

The antigen-binding domain of a CAR is typically based on a scFv (single chain variable fragment) derived from an antibody. In addition to an N-terminal, extracellular antibody-binding domain, CARs typically may comprise a hinge domain, which functions as a spacer to extend the antigen-binding domain away from the plasma membrane of the immune effector cell on which it is expressed, a transmembrane (TM) domain, an intracellular signalling domain (e.g. the signalling domain from the zeta chain of the CD3 molecule (CD3ζ) of the TCR complex, or an equivalent) and optionally one or more co- stimulatory domains which may assist in signalling or functionality of the cell expressing the CAR. Signalling domains from co-stimulatory molecules including CD28, OX-40 (CD134), and 4-1BB (CD137) can be added alone (second generation) or in combination (third generation) to enhance survival and increase proliferation of CAR modified T cells. Potential co-stimulatory domains also include ICOS-1, CD27, GITR, and DAP10.

Thus, the CAR may include

(1) In its extracellular portion, one or more antigen binding molecules, such as one or more antigen-binding fragment, domain, or portion of an antibody, or one or more antibody variable domains, and/or antibody molecules, and typically one or more antigen-binding domain as previously defined.

(2) In its transmembrane portion, a transmembrane domain derived from human T cell receptor-alpha or -beta chain, a CD3 zeta chain, CD28, CD3-epsilon, CD45, CD4, CD5, CD8, CD9, CD16, CD22, CD33, CD37, CD64, CD80, CD86, CD134, CD137, ICOS, CD154, or a GITR. In some embodiments, the transmembrane domain is derived from CD28, CD8 or CD3-zeta.

(3) One or more co-stimulatory domains, such as co-stimulatory domains derived from human CD28, 4-1BB (CD137), ICOS-1, CD27, OX 40 (CD137), DAP10, and GITR (AITR). In some embodiments, the CAR comprises co-stimulating domains of both CD28 and 4-1BB.

(4) In its intracellular signalling domain, an intracellular signalling domain comprising one or more ITAMs, for example, the intracellular signalling domain is CD3-zeta, or a variant thereof lacking one or two ITAMs (e.g. ITAM3 and ITAM2), or the intracellular signalling domain is derived from FcεRIγ.

The CAR can be designed to recognize tumor neoantigenic peptide alone or in association with an HLA or MHC molecule.

The moieties used to bind to antigen include three general categories, either single-chain antibody fragments (scFvs) derived from antibodies, Fab's selected from libraries, or natural ligands that engage their cognate receptor (for the first-generation CARs). Successful examples in each of these categories are notably reported in Sadelain M, Brentjens R, Riviere I. The basic principles of chimeric antigen receptor (CAR) design. Cancer discovery. 2013; 3(4):388-398 (see notably table 1) and are included in the present application.

Antibodies include chimeric, humanized or human antibodies, and can be further affinity matured and selected as described above. Chimeric or humanized scFv's derived from rodent immunoglobulins (e.g. mice, rat) are commonly used, as they are easily derived from well-characterized monoclonal antibodies. Humanized antibodies contain rodent-sequence derived CDR regions; typically the rodent CDRs are engrafted into a human framework, and some of the human framework residues may be back-mutated to the original rodent framework residue to preserve affinity, and/or one or a few of the CDR residues may be mutated to increase affinity. Fully human antibodies have no murine sequence, and are typically produced via phage display technologies of human antibody libraries, or immunization of transgenic mice whose native immunoglobin loci have been replaced with segments of human immunoglobulin loci. Variants of the antibodies can be produced that have one or more amino acid substitutions, insertions, or deletions in the native amino acid sequence, wherein the antibody retains or substantially retains its specific binding function. Conservative substitutions of amino acids are well known and described above. Further variants may also be produced that have improved affinity for the antigen.

Typically, the CAR includes an antigen-binding domain as previously defined from an antibody molecule, such as a single-chain antibody fragment (scFv) derived from the variable heavy (VH) and variable light (VL) chains of a monoclonal antibody (mAb).

In some aspects, the antigen- binding, domain of the CAR is linked to one or more transmembrane and intracellular signaling domains. In some embodiments, the CAR includes a transmembrane domain fused to the extracellular domain of the CAR. In one embodiment,

the transmembrane domain that is naturally associated with one of the domains in the CAR is used. In some instances, the transmembrane domain is selected or modified by amino acid substitution to avoid binding of such domains to the transmembrane domains of the same or different surface membrane proteins to minimize interactions with other members of the receptor complex.

The transmembrane domain in some embodiments is derived either from a natural or from a synthetic source. Where the source is natural, the domain can be derived from any membrane-bound or transmembrane protein. Transmembrane regions include those derived from (i.e. comprise at least the transmembrane region(s) of) the alpha, beta or zeta chain of the T-cell receptor, CD28, CD3 epsilon, CD45, CD4, CD5, CD8, CD9, CD16, CD22, CD33, CD37, CD64, CD80, CD86, CD 134, CD137, CD154, ICOS or a GITR). The transmembrane domain can also be synthetic. In some embodiments, the transmembrane domain is derived from CD28, CD8 or CD3-zeta.

In some embodiments, a short oligo- or polypeptide linker, for example, a linker of between 2 and 10 amino acids in length, is present and forms a linkage between the transmembrane domain and the cytoplasmic signaling domain of the CAR.

The CAR generally includes at least one intracellular signaling component or components. First generation CARs typically had the intracellular domain from the CD3 ζ- chain, which is the primary transmitter of signals from endogenous TCRs. Second generation CARs typically further comprise intracellular signaling domains from various costimulatory protein receptors (e.g., CD28, 41BB (CD28), ICOS) to the cytoplasmic tail of the CAR to provide additional signals to the T cell. Co-stimulatory domains include domains derived from human CD28, 4-1BB (CD137), ICOS-1, CD27, OX 40 (CD137), DAP10, and GITR (AITR). Combinations of two co-stimulatory domains are contemplated, e.g. CD28 and 4-1BB, or CD28 and OX40. Third generation CARs combine multiple signaling domains, such as CD3z-CD28-4-1BB or CD3z-CD28-OX40, to augment potency.

The intracellular signaling domain can be from an intracellular component of the TCR complex, such as a TCR CD3+ chain that mediates T-cell activation and cytotoxicity, e.g., the CD3 zeta chain. Alternative intracellular signaling domains include FcεRIγ. The intracellular signaling domain may comprise a modified CD3 zeta polypeptide lacking one or two of its three immunoreceptor tyrosine-based activation motifs (ITAMs), wherein the ITAMs are ITAM1, ITAM2 and ITAM3 (numbered from the N-terminus to the C-terminus). The intracellular signaling region of CD3-zeta is residues 22-164 of SEQ ID NO: 4. ITAM1 is located around

amino acid residues 61-89, ITAM2 around amino acid residues 100-128, and ITAM3 around residues 131-159. Thus, the modified CD3 zeta polypeptide may have any one of ITAM1, ITAM2, or ITAM3 inactivated. Alternatively, the modified CD3 zeta polypeptide may have any two ITAMs inactivated, e.g. ITAM2 and ITAM3, or ITAM1 and ITAM2. Preferably, ITAM3 is inactivated, e.g. deleted. More preferably, ITAM2 and ITAM3 are inactivated, e.g. deleted, leaving ITAM1. For example, one modified CD3 zeta polypeptide retains only ITAM1 and the remaining CD3ζ domain is deleted (residues 90-164). As another example, ITAM1 is substituted with the amino acid sequence of ITAM3, and the remaining CD3ζ domain is deleted (residues 90-164). See, for example, Bridgeman et al., Clin. Exp. Immunol. 175(2): 258-67 (2014); Zhao et al., J. Immunol. 183(9): 5563-74 (2009); Maus et al., WO 2018/132506; Sadelain et al., WO/2019/133969, Feucht et al., Nat Med. 25(1):82-88 (2019).

Thus, in some aspects, the antigen binding domain is linked to one or more cell signaling modules. In some embodiments, cell signaling modules include CD3 transmembrane domain, CD3 intracellular signaling domains, and/or other CD transmembrane domains. The CAR can also further include a portion of one or more additional molecules such as Fc receptor γ, CD8, CD4, CD25, or CD16.

In some embodiments, upon ligation of the CAR, the cytoplasmic domain or intracellular signaling domain of the CAR activates at least one of the normal effector functions or responses of the corresponding non-engineered immune cell (typically a T cell). For example, the CAR can induce a function of a T cell such as cytolytic activity or T-helper activity, secretion of cytokines or other factors.

In some embodiments, the intracellular signaling domain(s) include the cytoplasmic sequences of the T cell receptor (TCR), and in some aspects also those of co-receptors that in the natural context act in concert with such receptor to initiate signal transduction following antigen-specific receptor engagement, and/or a variant of such molecules, and/or any synthetic sequence that has the same functional capability.

T cell activation is in some aspects described as being mediated by two classes of cytoplasmic signaling sequences: those that initiate antigen- dependent primary activation through the TCR (primary cytoplasmic signaling sequences), and those that act in an antigen-independent manner to provide a secondary or co- stimulatory signal (secondary cytoplasmic signaling sequences). In some aspects, the CAR includes one or both of such signaling components.

In some aspects, the CAR includes a primary cytoplasmic signaling sequence that regulates primary activation of the TCR complex either in a stimulatory way, or in an inhibitory way. Primary cytoplasmic signaling sequences that act in a stimulatory manner may contain signaling motifs which are known as immunoreceptor tyrosine -based activation motifs or ITAMs. Examples of ITAM containing primary cytoplasmic signaling sequences include those derived from TCR zeta, FcR gamma, FcR beta, CD3 gamma, CD3 delta, CD3 epsilon, CDS, CD22, CD79a, CD79b, and CD66d. In some embodiments, cytoplasmic signaling molecule(s) in the CAR contain(s) a cytoplasmic signaling domain, portion thereof, or sequence derived from CD3 zeta.

The CAR can also include a signaling domain and/or transmembrane portion of a costimulatory receptor, such as CD28, 4-1BB, OX40, DAP10, and ICOS. In some aspects, the same CAR includes both the activating and costimulatory components; alternatively, the activating domain is provided by one CAR whereas the costimulatory component is provided by another CAR recognizing another antigen.

Thus, in some embodiments, the CAR may include:

(1) In its extracellular portion, one or more antigen binding molecules, such as one or more antigen-binding fragment, domain, or portion of an antibody, or one or more antibody variable domains (heavy chain and/or light chain), and/or antibody molecules.

(2) In its transmembrane portion, a transmembrane domain derived from human T cell receptor-alpha or -beta chain, a CD3 zeta chain, CD28, CD3-epsilon, CD45, CD4, CD5, CD8, CD9, CD16, CD22, CD33, CD37, CD64, CD80, CD86, CD134, CD137, ICOS, CD154, or a GITR. In some embodiments, the transmembrane domain is derived from CD28, CD8 or CD3-zeta.

(3) One or more co-stimulatory domains, such as co-stimulatory domains derived from human CD28, 4-1BB (CD137), ICOS-1, CD27, OX 40 (CD137), DAP10, and GITR (AITR). In some embodiments, the CAR comprises co-stimulating domains of both CD28 and 4-1BB.

(4) In its intracellular signalling domain, one or more intracellular signalling domain(s) comprising one or more ITAMs, for example: the intracellular signalling domain or a portion thereof from CD3-zeta, or a variant thereof lacking one or two ITAMs (*e.g.*: ITAM3 and/or ITAM2 see also as detailed above and bibliographic references), FcR

gamma, FcR beta, CD3 gamma, CD3 delta, CD3 epsilon, CDS, CD22, CD79a, CD79b, and/or CD66d, notably selected from the intracellular domain of CD3-zeta, or a variant thereof lacking one or two ITAMs (*e.g.*: ITAM3 and ITAM2), or the intracellular signalling of FcεRIγ or a variant thereof.

The CAR or other antigen-specific receptor can also be an inhibitory CAR (e.g. iCAR) and includes intracellular components that dampen or suppress a response, such as an immune response. Examples of such intracellular signaling components are those found on immune checkpoint molecules, including PD-1, CTLA4, LAG3, BTLA, OX2R, TIM-3, TIGIT, LAIR-1, PGE2 receptors, EP2/4 Adenosine receptors including A2AR. In some aspects, the engineered cell includes an inhibitory CAR including a signaling domain of or derived from such an inhibitory molecule, such that it serves to dampen the response of the cell. Such CARs are used, for example, to reduce the likelihood of off-target effects when the antigen recognized by the activating receptor, e.g, CAR, is also expressed, or may also be expressed, on the surface of normal cells.

Exemplary antigen receptors, including CARs and recombinant TCRs, as well as methods for engineering and introducing the receptors into cells, include those described, for example, in international patent application publication numbers WO200014257, WO2013126726, WO2012/129514, WO2014031687, WO2013/166321, WO2013/071154, WO2013/123061, WO2019157454, U.S. patent application publication numbers US2002131960, US2013287748, US20130149337, U.S. Patent Nos.: 6,451,995, 7,446,190, 8,252,592, , 8,339,645, 8,398,282, 7,446,179, 6,410,319, 7,070,995, 7,265,209, 7,354,762, 7,446,191, 8,324,353, and 8,479,118, and European patent application number EP2537416, and/or those described by Sadelain et al., Cancer Discov. 2013 April; 3(4): 388-398; Davila et al. (2013) PLoS ONE 8(4): e61338; Turtle et al., Curr. Opin. Immunol., 2012 October; 24(5): 633-39; Wu et al., Cancer, 2012 March 18(2): 160-75. In some aspects, the genetically engineered antigen receptors include a CAR as described in U.S. Patent No.: 7,446,190, and those described in International Patent Application Publication No.: WO/2014055668 Al.

The present disclosure also encompasses polynucleotides encoding antibodies, antigen-binding fragments or derivatives thereof, TCRs and CARs as previously described as well as vector comprising said polynucleotide(s).

Immune cells

The present disclosure further encompasses an immune cell, notably an isolated immune cell which target one or more tumor neoantigenic peptides as previously described. In more specific embodiments the present disclosure encompasses an immune cell, notably an isolated immune cell expressing a recombinant CAR or TCR as previously defined.

As used herein, the term "immune cell" includes cells that are of hematopoietic origin and that play a role in the immune response. Immune cells include lymphocytes, such as B cells and T cells, natural killer cells, myeloid cells, such as monocytes, macrophages, eosinophils, mast cells, basophils, and granulocytes.

As used herein, the term "T cell" includes cells bearing a T cell receptor (TCR), in particular TCR directed against a tumor neoantigenic peptide as herein disclosed. T-cells according to the present disclosure can be selected from the group consisting of inflammatory T-lymphocytes, cytotoxic T-lymphocytes, regulatory T-lymphocytes, Mucosal-Associated Invariant T cells (MAIT), Yδ T cell, tumour infiltrating lymphocyte (TILs) or helper T- lymphocytes included both type 1 and 2 helper T cells and Th17 helper cells. In another embodiment, said cell can be derived from the group consisting of CD4+ T- lymphocytes and CD8+ T-lymphocytes. Said immune cells may originate from a healthy donor or from a subject suffering from a cancer. In some embodiments, the immune cell is an allogenic or autologous cell. In some embodiments, the immune cell is selected from T cells, Natural Killer T cells, CD4+/CD8+ T cells, TILs/tumor derived CD8 T cells, central memory CD8+ T cells, Treg, MAIT, Yδ T cells, human embryonic stem cells, and pluripotent stem cells from which lymphoid cells may be differentiated.

Immune cells can be extracted from blood or derived from stem cells. The stem cells can be adult stem cells, embryonic stem cells, more particularly non-human stem cells, cord blood stem cells, progenitor cells, bone marrow stem cells, induced pluripotent stem cells, totipotent stem cells or hematopoietic stem cells. Representative human cells are CD34+ cells.

T-cells can be obtained from a number of non-limiting sources, including peripheral blood mononuclear cells, bone marrow, lymph node tissue, cord blood, thymus tissue, tissue from a site of infection, ascites, pleural effusion, spleen tissue, and tumors. In certain embodiments, T-cells can be obtained from a unit of blood collected from a subject using any number of techniques known to the skilled person, such as FICOLL™ separation. In one embodiment, cells from the circulating blood of a subject are obtained by apheresis. In certain embodiments, T-cells are isolated from PBMCs. PBMCs may be isolated from buffy coats obtained by density gradient centrifugation of whole blood, for instance centrifugation through a LYMPHOPREP™ gradient, a PERCOLL™ gradient or a FICOLL™ gradient. T-cells may be isolated from

PBMCs by depletion of the monocytes, for instance by using CD14 DYNABEADS®. In some embodiments, red blood cells may be lysed prior to the density gradient centrifugation.

In another embodiment, said cell can be derived from a healthy donor, from a subject diagnosed with cancer. The cell can be autologous or allogeneic.

In allogeneic immune cell therapy, immune cells are collected from healthy donors, rather than the patient. Typically these are HLA matched to reduce the likelihood of graft vs. host disease. Alternatively, universal 'off the shelf' products that may not require HLA matching comprise modifications designed to reduce graft vs. host disease, such as disruption or removal of the TCRαβ receptor. See Graham et al., Cells. 2018 Oct; 7(10): 155 for a review. Because a single gene encodes the alpha chain (TRAC) rather than the two genes encoding the beta chain, the TRAC locus is a typical target for removing or disrupting TCRαβ receptor expression. Alternatively, inhibitors of TCRαβ signalling may be expressed, e.g. truncated forms of CD3ζ can act as a TCR inhibitory molecule. Disruption or removal of HLA class I molecules has also been employed. For example, Torikai et al., Blood. 2013;122:1341–1349 used ZFNs to knock out the HLA-A locus, while Ren et al., Clin. Cancer Res. 2017;23:2255–2266 knocked out Beta-2 microglobulin (B2M), which is required for HLA class I expression. Ren et al. simultaneously knocked out TCRαβ, B2M and the immune-checkpoint PD1. Generally, the immune cells are activated and expanded to be utilized in the adoptive cell therapy. The immune cells as herein disclosed can be expanded in vivo or ex vivo. The immune cells, in particular T-cells can be activated and expanded generally using methods known in the art. Generally the T-cells are expanded by contact with a surface having attached thereto an agent that stimulates a CD3/TCR complex associated signal and a ligand that stimulates a co-stimulatory molecule on the surface of the T cells.

In one embodiment of the present disclosure, the immune cell can be modified to be directed to tumor neoantigenic peptides as previously defined. In a particular embodiment, said immune cell may express a recombinant antigen receptor directed to said neoantigenic peptide its cell surface. By "recombinant" is meant an antigen receptor which is not encoded by the cell in its native state, i.e. it is heterologous, non-endogenous. Expression of the recombinant antigen receptor can thus be seen to introduce new antigen specificity to the immune cell, causing the cell to recognise and bind a previously described peptide. The antigen receptor may be isolated from any useful source. In some embodiments, the cells comprise one or more nucleic acids introduced via genetic engineering that encode one or more antigen receptors, wherein the antigen include at least one tumor neoantigenic peptide as per the present disclosure.

Among the antigen receptors as per the present disclosure are genetically engineered T cell receptors (TCRs) and components thereof, as well as functional non-TCR antigen receptors, such as chimeric antigen receptors (CAR) as previously described.

Methods by which immune cells can be genetically modified to express a recombinant antigen receptor are well known in the art. A nucleic acid molecule encoding the antigen receptor may be introduced into the cell in the form of e.g. a vector, or any other suitable nucleic acid construct. Vectors, and their required components, are well known in the art. Nucleic acid molecules encoding antigen receptors can be generated using any method known in the art, e.g. molecular cloning using PCR. Antigen receptor sequences can be modified using commonly-used methods, such as site-directed mutagenesis.

In some embodiments of the present disclosure, the immune cell is a cell wherein (a) the SUV39H1 gene is inactivated, (b) the antigen-specific receptor is a modified TCR comprising a heterologous (or recombinant) antigen-binding domain as previously defined and a native TCR constant domain or fragment thereof, and the antigen-specific receptor is capable of activating a CD3 zeta polypeptide. For example, the immune cell may further comprise at least one chimeric costimulatory receptor (CCR) and/or at least one chimeric antigen receptor, for example as previously defined.

In a related aspect, the immune cells, particularly if allogeneic, may be designed to reduce graft vs. host disease, such that the cells comprise inactivated (e.g. disrupted or deleted) TCRαβ receptor. In such cases, the nucleic acid encoding the antigen-binding domain of the HI-TCR (typically as previously defined) is conveniently inserted into the endogenous TRAC locus and/or TRBC locus of the immune cell. The insertion of the HI-TCR nucleic acid sequence, or another smaller mutation, can disrupt or abolish the endogenous expression of a TCR comprising a native TCR alpha chain and/or a native TCR beta chain. The insertion or mutation may reduce endogenous TCR expression by at least about 50%, 60%, 70%, 75%, 80%, 85%, 90%, 95%, 98%, or 99%. Because a single gene encodes the alpha chain (TRAC) rather than the two genes encoding the beta chain, the TRAC locus is a typical target for reducing TCRαβ receptor expression. Thus, the nucleic acid encoding the antigen-specific receptor (e.g. CAR or TCR) may be integrated into the TRAC locus at a location, preferably in the 5' region of the first exon (SEQ ID NO: 3), that significantly reduces expression of a functional TCR alpha chain. See, e.g., Jantz et al., WO 2017/062451; Sadelain et al., WO 2017/180989; Torikai et al,. Blood, 119(2): 5697-705 (2012); Eyquem et al., Nature. 2017 Mar 2;543(7643):113-117.

Expression of the endogenous TCR alpha may be reduced by at least about 50%, 60%, 70%, 75%, 80%, 85%, 90%, 95%, 98%, or 99%. In such embodiments, expression of the nucleic acid encoding the antigen-specific receptor is optionally under control of the endogenous TCR-alpha or endogenous TCR-beta promoter.

Optionally, the immune cell also comprises a modified CD3 with a single active ITAM domain, and optionally the CD3 may further comprise one or more or two or more costimulatory domains. In some embodiments, the CD3 comprises two costimulatory domains, optionally CD28 and 4-1BB. The modified CD3 with a single active ITAM domain can comprise, for example, a modified CD3zeta intracellular signaling domain in which ITAM2 and ITAM3 have been inactivated, or ITAM1 and ITAM2 have been inactivated. In some embodiments, a modified CD3 zeta polypeptide retains only ITAM1 and the remaining CD3ζ domain is deleted (residues 90-164). As another example, ITAM1 is substituted with the amino acid sequence of ITAM3, and the remaining CD3ζ domain is deleted (residues 90-164).

The modified immune cells disclosed herein may comprise combinations of two or more, or three or more, or four or more, of the foregoing aspects.

For example, the modified immune cell is an immune cell wherein (a) the antigen-specific receptor is a modified TCR comprising a heterologous (or recombinant) antigen-binding domain (typically as previously defined) and a native TCR constant domain or fragment thereof, and the antigen-specific receptor is capable of activating a CD3 zeta polypeptide, and/or the antigen-specific receptor is a CAR, and optionally (b) the SUV39H1 gene is inactivated, and optionally (c) the immune cell comprises a modified CD3 with a single active ITAM domain, e.g. in which ITAM2 and ITAM3 have been inactivated, and optionally (d) the TCR is under control of an endogenous TRAC and/or TRBC promoter, and optionally (e) expression of native TCR-alpha chain and/or native TCR-beta chain are disrupted or abolished. In further embodiments, the cell may comprise at least one chimeric costimulatory receptor (CCR).

The present disclosure also relates to a method for providing an immune cell, and in particular a T cell population which targets a tumor neoantigenic peptide as herein disclosed, in particular an immune cell and notably a T cell population expressing a TCR, notably a HLA Independent TCR (HI TCR) or a CAR as previously defined.

The T cell population may comprise CD8+ T cells, CD4+ T cells or CD8+ and CD4+ T cells.

Immune cell populations produced in accordance with the present disclosure may be enriched with immune cells that are specific to, i.e. target, the tumor neoantigenic peptides or the chimeric proteins of the present disclosure and in particular the transmembrane chimeric proteins of any one of SEQ ID NO 1 to 8202. That is, the immune cell population that is produced in accordance with the present disclosure will have an increased number of immune cells that target one or more tumor neoantigenic peptide (i.e. enriched in clonotypes targeting the neoantigenic peptide) or one or more chimeric proteins. For example, the immune cell population of the disclosure will have an increased number of immune cells that target a tumor neoantigenic peptide or a chimeric protein compared with the immune cells in the sample isolated from the subject. That is to say, the composition of the immune cell population will differ from that of a "native" immune cell population (i.e. a population that has not undergone the identification and expansion steps discussed herein), in that the percentage or proportion of immune cells that target a tumor neoantigenic peptide or a chimeric protein will be increased.

The immune cell population according to the present disclosure may have at least about 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1 , 2, 3, 4, 5, 6, 7, 8, 9, 10, 1 1 , 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95 or 100% T cells that target a tumor neoantigenic peptide or a chimeric protein as herein disclosed. For example, the immune cell population may have about 0.2%-5%, 5%-10%, 10-20%, 20-30%, 30-40%, 40-50 %, 50-70% or 70-100% immune cells that target a tumor neoantigenic peptide or a chimeric protein of the present disclosure.

An expanded population of tumor neoantigenic peptide/ or chimeric protein -reactive immune cells may have a higher activity than a population of immune cells not expanded, for example, when exposing those cells to a tumor neoantigenic peptide or a chimeric protein. Reference to "activity" may represent the response of the immune cell population to restimulation with a tumor neoantigenic peptide (e.g. a peptide corresponding to the peptide used for expansion) or a mix of tumor neoantigenic peptide or with a chimeric protein as herein defined (or fragment thereof, typically extracellular fragment thereof) or with a mix of chimeric protein (or fragment thereof, typically extracellular fragment thereof) . Suitable methods for assaying the response are known in the art. For example, cytokine production may be measured (e.g. IL2 or IFNy production may be measured). The reference to a "higher activity" includes, for example, a 1-5, 5-10, 10-20, 20-50, 50-100, 100-500, 500-1000-fold increase in activity. In one aspect the activity may be more than 1000-fold higher.

In a preferred embodiment present disclosure provides a plurality or population, i.e. more than one, of immune cells wherein the plurality of immune cells comprises a immune cell, notably a T cell, which recognizes a clonal tumor neoantigenic peptide and a T cell which recognizes a different clonal tumor neoantigenic peptide. As such, the present disclosure provides a plurality of immune cells, notably T cells, which recognize different clonal tumor neoantigenic peptide. Different immune cells, notably T cells, in the plurality or population may alternatively have different TCRs which recognize different epitopes of the same tumor neoantigenic peptide a chimeric protein.

In a preferred embodiment the number of clonal tumor neoantigenic peptides or chimeric proteins or epitopes of one or more chimeric protein(s) recognized by the plurality of T cells is from 2 to 1000. For example, the number of clonal neo-antigens recognized may be 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950 or 1000, preferably 2 to 100. There may be a plurality of immune cells, notably T cells, with different TCRs but which recognize the same clonal neo-antigen.

The immune cell and in particular the T cell population may be all or primarily composed of CD8+ T cells, or all or primarily composed of a mixture of CD8+ T cells and CD4+ T cells or all or primarily composed of CD4+ T cells.

In particular embodiments, the T cell population is generated from T cells isolated from cancer patient or a healthy donor. For example, the T cell population may be generated from T cells in a sample isolated from a tumor-bearing patient. The sample may be a tumor sample, a peripheral blood sample or a sample from other tissues of the subject.

In a particular embodiment the immune cell population is generated from a sample from the tumor in which the tumor neoantigenic peptide is identified. In other words, the immune cell and notably the T cell population is isolated from a biological specimen derived from the tumor of a cancer patient. Such T cells are referred to herein as 'tumor infiltrating lymphocytes' (TILs).

T cells may be isolated using methods which are well known in the art. For example, T cells may be purified from single cell suspensions generated from samples on the basis of expression of CD3, CD4 or CD8. T cells may be enriched from samples by passage through a Ficoll-paque gradient.

Cancer therapeutic methods

In any of the embodiments, the Cancer Therapeutic Products described herein may be used in methods for inhibiting proliferation of cancer cells. The Cancer Therapeutic Products described herein may also be used in the treatment of cancer, in patients suffering from cancer, or for the prophylactic treatment of cancer, in patients at risk of cancer.

Cancers that can be treated using the therapy described herein include any solid or non-solid tumors as previously defined. Of particular interest according to the present disclosure are breast cancer, melanoma and lung cancer.

Cancers includes also the cancers which are refractory to treatment with other chemotherapeutics. The term "refractory, as used herein refers to a cancer (and/or metastases thereof), which shows no or only weak antiproliferative response (e.g., no or only weak inhibition of tumor growth) after treatment with another chemotherapeutic agent. These are cancers that cannot be treated satisfactorily with other chemotherapeutics. Refractory cancers encompass not only (i) cancers where one or more chemotherapeutics have already failed during treatment of a patient, but also (ii) cancers that can be shown to be refractory by other means, e.g., biopsy and culture in the presence of chemotherapeutics.

The therapy described herein is also applicable to the treatment of patients in need thereof who have not been previously treated.

A subject as per the present disclosure is typically a patient in need thereof that has been diagnosed with cancer or is at risk of developing cancer. The subject is typically a human, dog, cat, horse or any animal in which a tumor specific immune response is desired.

The present disclosure also pertains to a neoantigenic peptide, a population of APCs, a vaccine or immunogenic composition, a polynucleotide encoding a neoantigenic peptide or a vector as previously defined for use in cancer vaccination therapy of a subject or for treating cancer in a subject, wherein the peptide(s) binds at least one MHC molecule of said subject.

The present disclosure also provides a method for treating cancer in a subject comprising administering a vaccine or immunogenic composition as described herein to said subject in a therapeutically effective amount to treat the subject. The method may additionally comprise the step of identifying a subject who has cancer.

The present disclosure also relates to a method of treating cancer comprising producing an antibody or antigen-binding fragment thereof by the method as herein described and administering to a subject with cancer said antibody or antigen-binding fragment thereof, or with an immune cell expressing said antibody or antigen-binding fragment thereof, in a therapeutically effective amount to treat said subject.

The present disclosure also relates to an antibody (including variants and derivatives thereof), a T cell receptor (TCR) (including variants and derivatives thereof), a non-HLA restricted TCR (HI TCR), or a CAR (including variants and derivatives thereof) which are directed against a transmembrane chimeric protein as herein described, or neoantigenic peptide typically in association with an MHC or HLA molecule, for use in cancer therapy of a subject.

In some embodiments said antibody, TCR (in particular non-HLA restricted TCR) or CAR binds a transmembrane chimeric protein as herein defined and notably a transmembrane chimeric protein of any one of SEQ I NO:1-8202. Typically said antibody, TCR (in particular non-HLA restricted TCR) or CAR comprise an antigen binding domain (binding a transmembrane chimeric protein of any one of SEQ I NO:1-8202) as previously defined.

The present disclosure also relates to an antibody (including variants and derivatives thereof), a T cell receptor (TCR) (including variants and derivatives thereof), or a CAR (including variants and derivatives thereof) which are directed against a tumor neoantigenic peptide (typically in association with an MHC or an HLA molecule) or against a chimeric protein as herein described, or an immune cell which targets a neoantigenic peptide or a chimeric protein, as previously defined, for use in adoptive cell or CAR–T cell therapy in a subject, wherein the tumor neoantigenic peptide binds at least one MHC molecule of said subject. In some embodiments said antibody, TCR (in particular non-HLA restricted TCR) or CAR binds a transmembrane chimeric protein as herein defined and notably a transmembrane chimeric protein of any one of SEQ I NO:1-8202. Typically said antibody, TCR (in particular non-HLA restricted TCR) or CAR binds comprise an antigen binding domain (binding a transmembrane chimeric protein of any one of SEQ I NO:1-8202) as previously defined. Thus typically in some embodiments the immune cell targets a transmembrane chimeric as herein defined. Typically, the skilled person is able to select an appropriate antigen receptor which binds and recognizes a tumor neoantigenic peptide as previously defined with which to redirect an immune cell to be used for use in cancer cell therapy. In a particular embodiment, the immune cell for use in the method of the present disclosure is a redirected T-cell, e.g. a redirected CD8+ and/ or CD4+ T-cell.

In some embodiments, cancer treatment, vaccination therapy and/or adoptive cell cancer therapy as above described are administered in combination with additional cancer therapies. In particular, the T cell compositions according to the present disclosure may be administered in combination with checkpoint blockade therapy, co-stimulatory antibodies, chemotherapy and/or radiotherapy, targeted therapy or monoclonal antibody therapy.

Checkpoint inhibitors include, but are not limited to, PD-1 inhibitors, PD-L1 inhibitors, Lag-3 inhibitors, Tim-3 inhibitors, TIGIT inhibitors, BTLA inhibitors, V-domain Ig suppressor of T-cell activation (VISTA) inhibitors and CTLA-4 inhibitors, IDO inhibitors for example. Co-stimulatory antibodies deliver positive signals through immune-regulatory receptors including but not limited to ICOS, CD137, CD27 OX-40 and GITR. In a preferred embodiment the checkpoint inhibitor is a CTLA-4 inhibitor.

A chemotherapeutic entity as used herein refers to an entity which is destructive to a cell, that is the entity reduces the viability of the cell. The chemotherapeutic entity may be a cytotoxic drug. A chemotherapeutic agent contemplated includes, without limitation, alkylating agents, anthracyclines, epothilones, nitrosoureas, ethylenimines/methylmelamine, alkyl sulfonates, alkylating agents, antimetabolites, pyrimidine analogs, epipodophylotoxins, enzymes such as L-asparaginase; biological response modifiers such as IFNa, IL-2, G-CSF and GM-CSF; platinum coordination complexes such as cisplatin, oxaliplatin and carboplatin, anthracenediones, substituted urea such as hydroxyurea, methylhydrazine derivatives including N-methylhydrazine (MIH) and procarbazine, adrenocortical suppressants such as mitotane (o,ρ'-DDD) and aminoglutethimide; hormones and antagonists including adrenocorticosteroid antagonists such as prednisone and equivalents, dexamethasone and aminoglutethimide; progestin such as hydroxyprogesterone caproate, medroxyprogesterone acetate and megestrol acetate; estrogen such as diethylstilbestrol and ethinyl estradiol equivalents; antiestrogen such as tamoxifen; androgens including testosterone propionate and fluoxymesterone/equivalents; antiandrogens such as flutamide, gonadotropin-releasing hormone analogs and leuprolide; and non-steroidal antiandrogens such as flutamide.

'In combination' may refer to administration of the additional therapy before, at the same time as or after administration of the T cell composition according to the present disclosure.

In addition or as an alternative to the combination with checkpoint blockade, the T cell composition of the present disclosure may also be genetically modified to render them resistant to immune-checkpoints using gene-editing technologies including but not limited to TALEN and Crispr/Cas. Such methods are known in the art, see e.g. US20140120622. Gene editing

technologies may be used to prevent the expression of immune checkpoints expressed by T cells including but not limited to PD-1 , Lag-3, Tim-3, TIGIT, BTLA CTLA-4 and combinations of these. The T cell as discussed here may be modified by any of these methods.

The T cell according to the present disclosure may also be genetically modified to express molecules increasing homing into tumours and or to deliver inflammatory mediators into the tumour microenvironment, including but not limited to cytokines, soluble immune-regulatory receptors and/or ligands.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1: Tumor neoantigenic peptides (or TE-derived epitopes) having a predicted affinity for MHC alleles of less than 500 nM, identified by the in silico method according to the disclosure in the tumor mouse lines B16F10-OVA cells **(A)** and in MCA101-OVA cells **(B)** and identified both in the two lines **(C).**

Figure 2: (A) RT-PCR gels of amplification of the fusion transcript sequence encoding the neoantigenic peptide N25, in cDNA of tumor mouse lines B16F10-OVA and MCA101-OVA. (B) RT-PCR gels of amplification of the fusion transcript sequence encoding the neoantigenic peptide N26, in cDNA of tumor mouse lines B16F10, B16F10-OVA and MCA101-OVA.

Figure 3: (A) Detection of peptide-reactive IFNg-secreting cells by ELISPOT in inguinal lymph nodes from immunized animals with DMSO (negative control), OVA (ovalbumine) (positive control), peptide N25 or peptide N26. **(B)** IFNg spots for 10^5 cells for immunized animals with DMSO (negative control), SIINFEKL (positive control), N25 or N26 peptide.

Figure 4: (A) Evolution of the tumor volume (mm3) in mice beforehand immunized with DMSO, OVA or N25L peptide, following the days after the injection of tumor cells B16F10-OVA into said immunized mice. **(B)** Evolution of the tumor volume (mm3) in mice beforehand immunized with DMSO, OVA or N26L peptide, following the days after the injection of tumor cells B16F10-OVA into said immunized mice.

Figure 5: TCGA data sets for 784 luminal, 100 HER2+, 197 TNBC, 112 normal breast tissue, 516 primary lung adenocarcinomas (primary tumor) and 59 normal lung tissue (solid tissue normal), were analyzed by the method for identifying fusion transcript sequence encoded tumor neoantigenic peptide described. **(A)** Number of fusion transcript sequence (TE-exon fusions) in different subtypes of breast cancer (HER2+, TNBC, normal breast tissue and luminal). **(B)**

Number of fusion transcript sequence (TE-exon fusions) in different subtypes of lung cancer (primary lung adenocarcinomas, normal lung tissue).

Figure 6: 8-9 amino acid-long peptides predicted from TE-gene fusion products from each sample were tested *in silico* for binding to the predicted HLA alleles expressed in the same sample. Shown are peptides with predicted affinity below 500nM for at least one HLA-A, -B, or -C allele from each sample. **(A)** Samples of different subtypes of breast cancer (HER2+, TNBC, normal breast tissue and luminal). **(B)** Samples of different subtypes of lung cancer (non-small cell lung cancer, normal lung tissue).

Figure 7: Distribution of tumor-specific peptides per patient across breast tumor subtypes. **(A)** Numbers of tumor-specific HLA-binding peptides per subtypes of breast cancer patient are shown. **(B)** Numbers of predicted tumor neoantigenic peptides shared across luminal subtypes samples (n=784) (abscissa). **(C)** Numbers of predicted tumor neoantigenic peptides shared across HER2+ subtypes samples (n=100) (abscissa). **(D)** Numbers of predicted tumor neoantigenic peptides shared across TNBC subtypes samples (n=197) (abscissa).

Figure 8: (A) Numbers of tumor-specific HLA-binding peptides per primary lung adenocarcinomas (LUAD) sample (lung cancer). **(B)** Distribution of tumor-specific peptides per patient across lung adenocarcinomas. Numbers of predicted tumor neoantigenic peptides shared across primary tumor subtypes samples (n=516) (abscissa).

Figure 9: Reconstruction of the fusion nucleotide sequence when the donor is the exon (A) and when the donor is the TE (B).

Figure 10: **Binding of chimeric transcripts-derived peptides to HLA-A2.** Binding to HLA-A2 allele of predicted peptides from the most frequent chimeric fusions were validated by flow cytometry using tetramer formation assay. The results are shown as percentage of binding relative to positive control. Dotted line indicates the threshold considered to confirm the binding to this allele.

Figure 11. Binding of ER-derived peptides to HLA-A2 molecule. Peptides-HLA-A*02:01 complex formation for synthesized chimeric transcripts-derived peptides. Percentage of complex formation relative to positive control (CMV pp65 495-503) is represented. The mutated (MelA Mut) and non-mutated (MelA) sequences of Melan-A were used as strong and weak binder peptides controls, respectively. 'Negative' indicates staining background. Dashed line indicates the minimum complex formation value needed to consider a peptide as good binder to HLA-A*0201 (50% of positive control).

Figure 12. Immunogenicity of fusion transcripts-derived peptides and reactive CD8+ T cells generation. **(A)** Frequencies of pJET (fusion transcript derived peptides) specific tetramer-positive CD8+ T cells expanded from 6 different healthy donors in in vitro immunogenicity assays using 6 different healthy donors. **(B)** Cytokine secretion of CTL-clones after stimulation with different concentration of specific peptide. On the right is listed the CTL-clones generated and their peptide specificity. **(C)** Killing assay for CTL-clone 9 in co-culture with target cells loaded with 2 different peptide concentration in combination with anti-MHC-I antibodies or Isotype control (Left panel), or with un-loaded targets cells at different ratios (Right panel). **(D)** Killing assays for CTL-clone 9, 80 and 64 when co-cultured with peptide unloaded target cells in combination with anti-MHCI-I antibodies or isotype control. Effector:Target ratio is indicated in each individual plot. H1650 were used as target cells for each plot of this figure.

Figure 13. Expression of TCR recognizing fusion-derived peptides. Transduced Jurkat-reporter cells with TCR sequence derived from CTL-clone 9 co-cultured with target cells alone, or loaded with 2 different peptide concentration. Plots show percentage of positive Jurkat cells for the 3 reporter genes evaluated by flow cytometry, using H1650 cell line as target cells (upper plots) or H1395 cell line as target cells (lower plots). Negative control: non-transduced Jurkat cells. No peptide: transduced Jurkat cells co-cultured with peptide unloaded target cells. Positive control: Transduced Jurkat cells stimulated with PMA/ionomycin.

Figure 14. A. Activation of Jurkat cells transduced with CTL-clones-derived TCRs recognizing chimeric transcripts-derived peptides after co-culture with target cells loaded with relevant/specific or an irrelevant/unrelated peptide (Melan-A). **B.** Activation of Jurkat cells transduced with CTL-clones-derived TCRs recognizing chimeric transcripts-derived peptides after co-culture with target cells loaded with relevant peptide or unrelated peptide (Melan-A), in presence or absence of anti-MHC-I blocking antibody (W6/32) or isotype control. PMA/Ionomycin was used as a positive control of activation and target cells without loading peptides were used as negative control of activation. H1395 LUAD cell line were used as target cells. CTL-clone from which each TCR is derived is indicated on the top and peptide specificity between brackets, showing aminoacidic sequence of chimeric transcript-derived peptide recognized by each of these TCR. This peptide sequence is the specific/relevant peptide used in each case to load target cells. Melan-A and MelA Mut both refer to the unrelated peptide (ELAGIGILTV).

Figure 15. Tumor infiltrating lymphocytes recognizing fusion transcripts-derived peptides. Percentage of tetramer positive CD8 T cells for the indicated fusion transcript-derived peptides found in tumor infiltrating lymphocytes (TILs) expanded in the presence of fusion transcripts-derived peptide's mix + IL2 **(A)** or only with IL-2 **(B).**

Figure 16. Phenotype of CD8+ T cells recognizing fusion transcripts-derived peptides in LUAD patient's derived samples. Percentage of tetramer positive CD8 T cells recognizing fusion transcripts-derived peptides present in tumor, juxta tumor, lymph nodes and blood samples derived from LUAD *Patient 2* **(A,** upper panel**)** and *Patient 3* **(B,** upper panel**)**. In lower panel of figure **(A)** and **(B)** is shown the percentage of Naïve (CCR7+CD45+), Central Memory (CM, CCR7+CD45-), Effector Memory (EM, CCR7-CD45-) and Terminal Effector (TE, CCR7-CD45+) cells of tetramer positive parental cell population.

Figure 17: A. Heatmap summarizing the frequency of CD8+ T cells recognizing chimeric transcript-derived peptides found ex-vivo without T cell expansions. Only peptide specificities found in at least one tissue are shown (total evaluated patients = 4). **B.** CCR7 and CD45RA percentages in tetramer positive cells summarized in A. after ex-vivo staining for patient 2 and patient 5. (no data available for Patient 1). **C.** Heatmap summarizing specific tetramer positive cells recognizing chimeric transcripts-derived peptides after in-vitro expansions at day 20 on CD8+ T cells from tumor, juxta tumor or tumor-draining LN samples in the 5 patients analyzed. Only peptide specificities found in at least one tissue are shown. Black squares highlight peptide specificities found also ex-vivo in the same tissue and patient.

Figure 18. Immunopeptidomics analysis of lung tumor samples. Fusion transcript-derived peptide sequences were searched in public MHC-I immunopeptidomes datasets. Each column represents a different sample. Each row represents a different peptide sequence (specify on the right). Colored squares indicate in which sample is found each fusion transcript-derived peptide. Publications describing each sample data-sets are annotated on the top.

Figure 19: FACS histograms showing the non-transfected negative control (left) and ABHD1-JET transfected condition (right). Red histograms correspond to anti-Myc staining and grey lines show the non-antibody (buffer) condition.

EXAMPLES

1. Example 1: Identification of fusion transcript sequence encoded tumor neoantigenic peptide

1.1 Proof of concept in mice

To detect individual and shared tumor neoantigenic peptide issued from fusion transcripts sequences, a bioinformatics pipeline has been developed. This pipeline is designed to identify tumor-specific mRNA sequences composed in part of a TE sequence and in part of an exonic sequence. This pipeline implies determining the MHC alleles. For each human sample, the Class I and Class II MHC alleles can be determined using the seq2hla (v2.2) tool (bitbucket.org/sebastian_boegel/seq2hla). For mouse models, murine H-2 alleles are generally known. The bioinformatics method comprises the mapping of transcripts from RNA-sequencing against the reference genome. For the proof-of-concept analyses described here, mm10 was used for mouse and hg19 for human. Different versions of assembled genomes can be used for example hg19, hg38, mm9 or mm10. This mapping is carried out with STAR (v2.5.3a) (github.com/alexdobin/STAR), with the following setting:

- For allowing multi-hits mapping the parameter outFilterMultimapNmax which sets the maximum number of loci, the read is allowed to map to, is set at 1000, and
- For detecting the abnormal junction (fusion), the parameter chimSegmentMin which sets the minimum length of fusion segment, is set at 10, the parameter chimJunctionOverhangMin which sets the minimum overhang for a fusion junction is set at 10.

Normal (from SJ.out.tab output file) and abnormal (from Chimeric.out.junction output file) junctions are annotated using Ensembl and repeatmasker databases. Normal junctions define all the junctions that match the parameters used for the mapping (maximum intron length <= 1 000 000 bp (set by --alignIntronMax), same chromosome and well oriented) and abnormal ones are junctions that do not match with at least one of the previous criteria. This mean that a TE/Exon junction could be in both junction type but a Exon/Exon junction must be in normal file (SJ.out.tab). Transcript sequences comprising a junction between a TE sequence and an exonic sequence are extracted in silico. From the area of the transcript sequence which overlaps the junction, or downstream of the junction when out-of-frame (reading frame non-canonical), the software predicts, in all reading frames, all possible peptides of 8 or 9 mers. Then, the binding affinity of all these possible peptides for the MHC alleles previously defined for the matched sample is determined netMHCpan (v3.4) (cbs.dtu.dk/services/NetMHCpan/). There

are currently more than a dozen various prediction algorithms for predicting the binding affinity of peptides, with NetMHC being the most widely used and validated algorithm for neoantigen prediction pipelines.

Peptides with either less than 500 nM or with a percentile rank less than 2% are considered as potential neo-antigens. Each splice site (donor or acceptor) is uniquely annotated as TE or as Exon. The part in the 5' end is qualified "donor", and the part in the 3' is qualified "acceptor".

Predicted HLA-binding peptides shared between cancer and normal tissues are excluded from further analyses.

This method has been applied to RNAseq data obtained from 7 well-characterized murine tumor cell lines (B16F10, B16F10-OVA, MCA101, MCA101-OVA, MC38, MC38-GFP, MC38-GFP-OVA). The cell lines with the extension-OVA corresponding to the same model but further expressing ovalbumin. In this study, this line is considered as the similar model, that is to say for example that an assay carried out on the cell line from B16F10-OVA is considered as a repeat of an assay carried out on the cell line from B16F10.

A list of candidate peptides has been obtained with these parameters (figures 1A, 1B and 1C), some were specific to particular cell lines (figures 1A and 1B), and some were shared between the two tumor cell lines (figure 1C).

For validation, we selected a range of peptides, expressed either in B16F10-OVA or MCA101-OVA, with predicted affinities less than 500nM. Peptides were selected trying to optimize the ratio between number of reads and predicted affinity for MHC-I.

Four predicted tumor neoantigenic peptides were selected and characterized by identifying the TE and the exonic sequence (table 2).

Table 2: Characterization of 4 predicted tumor neoantigenic peptides selected by the method

Peptide	Cell line	Donor	Acceptor	Predicted affinity
N25	B16/B16-OVA	ERV-MaLR (subfamily MTA)	Chmp3, exon2	H2-Db, 51.8937
N26	MCA/MCA-OVA MC38-GFP/MC38-OVAGFP	SINE-Alu(B1F)	Angel2, exon2	H2-Kb, 392.0384
N90	MCA/MCA-OVA	Predicted gene 45873	ERVL-MaLR (subfamily ORR1A2-int)	H2-Kb, 403.8959 and 50.5416
N94	MCA/MCA-OVA MC38-GFP/MC38-OVAGFP	Rsrc1	ERV1 (subfamily RLTR4_MM-int)	H2-Kb, 431.0564

1.2 Validation by RT-PCR of the fusion transcript sequence

First, a validation by regular RT-PCR has been performed, using primer pairs with one primer in the TE sequence, and the other one in the exonic sequence.

For the RNA extraction and reverse transcription, 3-5.10^6 cells were lyzed in 500µL Trizol, and 100µL phenol-chloroform added to the lyzates prior centrifugation. Aqueous phase was collected, mixed in a 1:1 ratio with 100% EtOH and transferred to RNAeasy minikit columns. RNA was then collected following manufacturer's instructions (including on column DNAse treatment). After RNA elution, DNA contaminants were further removed by treatment with Turbo DNAse (Fisher scientific), according to manufacturer's instructions). RNA concentration was measured using a nanodrop, and 1µg of RNA used for reverse transcription. First strand synthesis was performed with Superscript III (Life technologies) using oligodT(15) as primers, according to manufacturer's instructions. Primers were ordered from Eurogentec. PCR reactions were performed using Taq polymerase. After identification of optimal conditions for each reaction, PCR products were extracted from agarose gels, and sequencing was performed using GATC lightrun. Sequence alignment was checked with APE software.

Using this approach, bands matching predicted size for N25, N26, N90 and N94 were detected, respectively in the cell lines identified in Table 2 (See Figure 2A for N25). Interestingly, although N26 was detected only in MCA and MC38 cells in silico by RNAseq as previously described in the pipeline, using RT-PCR we detected a band corresponding to N26 in B16F10-OVA cells (Figure 2B), indicating that this sequence is shared between three independent tumor cell lines (MCA, MC38 and B16F10). By re-analyzing the RNAseq data, we found that the N26 junction was present in B16F10-OVA cells, but below the detection threshold of the algorithm. Moreover, sequencing of the RT-PCR product showed exact match with sequences predicted by the algorithm.

1.3 In vivo immunization of mice

To validate these candidates in vivo, short (9-mers) peptides corresponding to neoantigenic peptide which binds to the MHC class I sequences, were synthetized. For the in vivo assays, long (27-mers) peptides, which include the flanking regions to the predicted MHC-binding short peptides of 9 mers, were synthetized, because this length is better suited for in vivo immunization. B16F10 OVA and MCA101-OVA were maintained in RPMI, Glutamax, 10%FCS, 1% penicillin-streptomycin and passaged using TrypLE. Cells were kept in culture for a maximum of one month, and new vials were thawed for each *in vivo* experiment. C57BL6J

recipient mice were immunized with 100µg long peptide (N25L or N26L), SIINFEKL peptide (short OVA peptide), OVA (Sigma) or DMSO, each with 50µg polyI:C, by subcutaneous injection into the flank. Immunizations were repeated 7 days after primary immunization. 3 days later (10 days after primary immunization), animals were sacrificed and numbers of peptide-specific IFNg-secreting CD8 T cells in inguinal lymph nodes were detected by ELISPOT (Figure 3A). Short peptides (N25, N26, or SIINFEKL) or DMSO at $10\mu g.mL^{-1}$ were used to restimulate T cells. Alternatively, 7 days after secondary immunization, animals were injected subcutaneously with $2.5.10^5$ B16F10-OVA or 5.10^5 MCA-OVA cells in PBS. We found that N25, and to a lesser extent N26 were able to induce immune responses (Figure 3B).

1.4 In vivo treatment of mice with tumor

To test whether these peptides were protective against tumor cells, we immunized C57BL6 mice with 100mg peptides N25L or N26L, or OVA (control peptide) and 50µg polyI:C in PBS at d0 and d7, and at d14, we injected $2.5.10^5$ B16F10-OVA cells to mice immunized with OVA, N25L and N26L. B16F10 OVA and MCA101-OVA were maintained in RPMI, Glutamax, 10%FCS, 1% penicillin-streptomycin and passaged using TrypLE. Cells were kept in culture for a maximum of one month, and new vials were thawed for each *in vivo* experiment. C57BL6J recipient mice were immunized with 100µg long peptide (N25L or N26L), OVA (Sigma) or DMSO, each with 50µg polyI:C, by subcutaneous injection into the flank. Immunizations were repeated 7 days after primary immunization.

Short peptides (N25, N26, or SIINFEKL) or DMSO at $10\mu g.mL^{-1}$ were used to restimulate T cells. Alternatively, 7 days after secondary immunization, animals were injected subcutaneously with $2.5.10^5$ B16F10-OVA or 5.10^5 MCA-OVA cells in PBS. Tumor size was measured twice weekly using a manual caliper, and animal health status monitored throughout the experiment timeframe (Figures 4A and 4B). Animals were sacrificed when tumor volume reached $1mm^3$. Strikingly, we observed that N25L significantly delayed the formation of B16OVA tumors, in a more efficient way than OVA. Moreover, we obtained a similar result upon N26L immunization.

2 Example 2: Identification of human lung adenocarcinoma (LUAD) neoantigenic peptides derived from fusion transcripts composed of a TE element and an exonic sequence

2.1 Material and methods

RNA extraction. Tumour and juxtatumour samples were cut into pieces of #1 mm^3 and resuspended in 700µl RTL lysis buffer (Quiagen) supplemented with 1% β-mercaptoethanol and homogenized using Perecellys 24 Tissue Homogenizer (Bertin Technoogies). Total RNA isolation was performed using RNeasy Micro Kit (Qiagen) following manufacturer instructions. Total RNA from tumour cell lines were extracted from 5.10^6 tumor cell lines using the same procedure.

PCR and Sequencing. Primers were designed using APE software. For each sample, 1µg of RNA was retrotranscribed into cDNA using SuperScript III Reverse transcriptase (ThermoFisher), as indicated by the provider. PCR reaction was performed using GoTaq G2 Hot Start Polymarase (Promega). All primers were used in a concentration of 0.5µM. Reactions were carried out in VeritiTM 96-Well Thermal Cycler (ThermoFisher). PCR products were loaded in LabChip GX (Caliper LifeSciences) and analysed by LabChip GX Software (v4.2).

PCR reactions were repeated for those samples with an amplification product on the expected size. Then, the PCR products were run in a 2% agarose gel SYBR Free Dye (1/10000) (Invitrogen). The specific bands were cut and the DNA products were purified using QIAquick Gel Extraction Kit (Qiagen) following manufacturer instructions. Finally, these products were sequenced by EuroFins Scientific. The resulting sequences were compared to the expected one using Serial Cloner software.

Tetramer formation. HLA-A2 monomers were purchased from ImmunAware® and the formation of tetramers was evaluated with synthetic ER-derived peptides following manufacturer instructions. Briefly, synthetic HLA-A2 monomers were incubated with synthetic peptides during 48h at 18°C. Tetramerization was done by further incubation of monomers with biotinylated-sepharose. Finally, tetramer formation was measured by flow cytometry using a PE-conjugated anti-β2-microglobulin antibody. As a positive control we used a peptide derived from CMV provided by the manufacturer.

In experiments addressed to evaluate the presence of specific CD8+ T cells, the tetramerization step was performed by incubating the monomers with different combinations of fluorescent streptavidin (PE, APC, PE-Cy5, PE-CF594, BV421, BV711 and FITC).

Priming of naïve CTLs. PBMCs were obtained by Ficoll gradient separation from HLA-A2+ healthy blood donors. CD14+, CD4+ and CD8+ cells were purified by positive selection using magnetic beads (Miltenyi Biotec). While CD4+ and CD8+ T cells were cryopreserved until the experiment day, CD14+ fraction was cultured in the presence of IL-4 (50ng/mL) and GM-CSF (10ng/mL) at 106 cells/mL during 5 days to obtain moDCs. After this period of time, the moDCs were maturated with LPS and incubated with synthetic ER-derived peptides at a final concentration of 1 µg/mL for 2 hours. Finally, peptide-loaded moDCs were co-cultured with autologous CD4+ and CD8+ T cells in culture medium supplemented with with IL-2 (10U/ml) and IL-7 (100ng/ml). The ER-derived peptide stimulation of specific CD8+ CTL populations was assessed by MHC-I tetramer staining by flow cytometry using a combination of two-color tetramer for each peptide.

Tetramer Staining. Cells were resuspended in PBS, stained with Live/Dead Aqua-405nm (ThermoFisher) during 20 minutes at 4°C and washed once. After that, cells were resuspended in PBS-1%BSA containing the mix of SA-coupled tetramers and incubated in the dark at room temperature during 20 minutes. Without further washing, surface antibodies were added in PBS-1%BSA and cells were incubated 20 minutes in the dark at 4°C. Surface antibodies were a combination of anti-CD3-BV650 + anti-CD8-PECy7 in combination with anti-CCR7-AF700 + anti-CD45RA-BUV395 when required. Finally, cells were washed twice and resuspended in FACS buffer for flow cytometry analysis.

CTL-clones generation. Tetramer positive cells were single-cell FACS sorted (ARIA-sorter, BD) in U bottom 96-well plates. Sorted cells were collected in 100µl of RPMI 10% human serum AB (Sigma-Aldrich) containing 150.000 feeders' cells. Finally, 100µl of AIM-medium containing IL-2 (3000 IU/ml) and anti-CD3 (100 µg/ml, OKT3 clone from Miltenyi) were added and cells were cultured during 15-20 days maximum. When evident cell growth was observed in wells, we perform a second round of expansions with new feeders' cells for an additional period of 15 days maximum. Cells were feed and split as necessary during this period with the same culture media (AIM-RPMI 50/50 + 5% Human Serum) but only containing IL-2 at 500 IU/ml. Finally, expanded clones were checked for their specificity by FACs-tetramer staining and only clones with >85% of tetramer positive clones were used for further analysis.

Killing assays. To perform killing assays, xCELLigence RTCA S16 Real Time Cell Analyzer was used. H1650 cell-line were plated at $0{,}5x10^6$ cells/ml in pre-coated 16 well plates. One day after, cells were incubated or not during 1 h with different concentration of the correspondent

synthetic peptides. After that, cells were washed twice with culture medium and incubated or not for additional 30 minutes with anti-MHC-I antibodies (clone W6/32, 50 μg/well) or isotype control at the same concentration. Without additional wash, CTL-clones were added at the correspondent ratio. The complete assay was done in free-serum culture medium in a final volume of 200 at 37°C connected to the xCELLigence system. Impedance variation (cell-index) was measured in real-time during 40 h. Each condition was performed by duplicates.

Cytokine secretion and Jurkat cells activation. 50.000 H1650 cells were plated in 96-well plate in culture medium supplemented with 5% of fetal bovine serum. The day after, cells were culture during 1-2 h with synthetic peptides at different final concentrations. After that, cells were washed twice, CTL-clones were added at 1:1 ratio and co-cultured during 18 h with peptide-loaded target cells. Culture supernatants were collected and cytokine concentration analyzed by cytokine beads arrays (CBA, BD Biosciences) following manufacturer's instructions.

The same experiment was performed using transduced Jurkat cells instead of CTL-clones and two different types of target cells: H1650 and H1395 cell lines. In this assay, after co-cultured with peptide-loaded target cells, Jurkat cells were assesed by flow cytometry analyzing the expression of reporter markers. PMA/Ionomycin was used as positive control to activate Jurkat cells.

Tissues and Blood samples. Lung tumor, juxta tumor and lymoh nodes samples were cut into small pieces and digested using a mix of collagenase-I (2 mg/ml), hyaluronidase (2 mg/ml) and DNasa (25 μg/ml) in a final volume of 2 ml culture medium (CO_2 independent medium + 5) during 40 min at 37°C. After digestion single cell suspensions were collected through a cell Strainer and washed. Tumor and Juxta tumor suspensions were enriched on lymphocyte fractions by a ficoll gradient. After that cells were staining for tetramer analysis by FACs as described before.

Blood samples were seeded on a ficoll gradient and PBMCs were isolated. After that, PBMCs were enriched for CD8+ T cells using EasyStep Human CD8+ T cell Enrichment Kit (STEMCELL Technologies). Finally, enriched cells were stained for tetramer analysis as described before.

Tumor infiltrating lymphocytes (TILs) cultures. Tumor tissue was cut into small pieces (1-3 mm^3 size, 6-12 pieces maximum). Each tumor fragment was transferred into individual wells from 24-well plates and cultured in a final volume of 2 ml RPMI 10% Human Serum + IL-2

6000 IU/ml. Cells were feed/split as necessary during 15-20 days and cryopreserve or analyzed for tetramer staining.

TCR cloning. Total RNA was extracted from CTL-clones and retrotranscribed into cDNA using SuperScript III (ThermoFisher). TCRα and β were amplified by PCR as described in Li *et al* 2019. DNA products were run in 2% agarose gels and sequenced after gel band extraction (Qiagen). TCR V regions (α and β) were concatenated with murine TCR constant chain and cloned into a PEW-pEF1A-inactEGFP vector and amplified in transformed bacteria.

Jurkat transduction. Lentivirus particles were produced by HEK-293FT cell line transfected with TCR-expression plasmids together with envelope (pVSVG) and packaging (psPAX2) plasmids. After 64 h, supernatant was collected and lentivirus particles were concentrated using 100kDa centrifugal filter (Sigma-Aldrich). Lentivirus suspension was transferred by spinoculation into TCR-negative Jurkat cells expressing reporter genes (NFAT-GPF, NF-KB-CFP and AP-1-mCherry). After 5 days, transduction efficiency was evaluated by FACS using anti-murine TCR-β antibody (Clone H57-597). This Jurkat cells were described in Rosskopf S. *et al*. 2018.

Mass spectrometry data analysis. Public immunopeptidomics raw data derived from MHC-eluted peptides were analysed using ProteomeDiscoverer 1.4 (ThermoFisher) with the following parameters: no-enzyme, peptide length 8-15 aa, precursor mass tolerance 20ppm and fragment mass tolerance 0.02 Da. Methionine was enabled as variable modification and a false discovery rate (FDR) of 1% was applied. MS/MS spectra were searched against the human proteome from Uniprot/SwissProt (updated 06.03.2020) concatenated with the list of all fusion transcripts-derived proteins from lung TCGA projects. Finally, peptides matching with Uniprot database or with translated fusion transcripts present in lung normal samples were discarded.

2.2 Results: Identification of fusion transcript sequences encoding tumor neoantigenic peptide in human subject

2.2.1 Characterization of neoantigens

First the TE-Exon fusion transcript landscape was characterized in normal samples from TCGA public database. A total of 8876 unique fusions were identified in 679 normal samples from 19 different tissues (bile duct, bladder, brain, breast, cervical, colon, head and neck, kidneys, liver, pancreas, PCPG, prostate, rectum, sarcoma, skin, thymus, thyroid, uterine). Specific fusions to

each tissue type were found with a very small portion of pan-tissue fusion transcripts. These results suggest that a dedicated tissue specific regulatory mechanism is associated with these fusion transcripts.

Then the number of identified fusions in 514 LUAD samples from TCGA has been compared to their 59 normal associated pulmonary samples present in TCGA. On average, 235 fusions were identified in NSCLC samples, compared with 200 in healthy lung samples (Wilcoxon pvalue = $9 \times 10.^{-10}$). 8269 total unique fusions were identified in NSCLC tumors.

A first category of fusions called TSF (tumor specific fusion) was obtained as those found in at least 1% of tumor samples and in none of the normal samples. 210 fusions were thus defined as TSF.

Some high-frequency fusion transcripts in tumors and low frequency in normal cells may also be good candidates for neo-antigens. Thus, a second category called TAF (tumor associated fusion) was notably defined as fusions present in less than 4 % of normal tissues, notably less than 2 %, and more than 10% of the tumors and that is over expressed in tumors compared to normal tissue samples.

Fusion sequence:

- In order to reconstruct the fusion nucleotide sequence, the sequence of the donor on chromosome "Donor_Chromosome_X" from "Donor_start_X" to "Donor_Breakpoint_X" on strand “Donor_strand_X " and the acceptor sequence on the chromosome "Acceptor_Chromosome_X" starting from "Acceptor_Breakpoint_X" to "Acceptor_end_X" on the strand "Acceptor_strand_X" have been extracted from the Ensembl HG19 human assembly database. It is to be noted that the use of the Ensembl HG19 human database is not limitative and that any other adapted database may be used such as NCBI reference Sequence Database (RefSeq).
- Care should be taken to take the reverse complement of the sequence if the fusion is present on the minus strand.
- The "fusion sequence" consists of the donor sequence followed by the acceptor sequence.

Nucleotide sequence of the fusion transcript:

On the basis of the known canonical transcripts in which the exon is involved, all the "fusion transcripts" were reconstructed.

When the donor is the exon (see Fig. 9A)

- it starts with the beginning of the canonical transcript to the donor exon and replace the complete canonical exon sequence with the fusion sequence. In this case, the fusion transcript stops after the TE sequence of the acceptor.

When the donor is the TE (Fig.9 B)

- The sequence begins at the canonical position of the acceptor exon in the transcript and forget all exons upstream. The canonical sequence of the acceptor exon was replaced with the fusion sequence and the transcript was reconstructed until the end.

Each nucleotide sequence of size k (i.e. from 24 to 75 nucleotides) of the fusion transcript (translation of the first k-mer starts at the first nucleotide of the fusion transcript, translation of the second k-mer starts at the second nucleotide of the fusion transcript, etc.) was then translated into a peptide sequence.

The obtained peptides are then further analyzed with NetMHCpan for MHC binding prediction. Affinity for binding to at least one of the known human alleles was thus predicted, (see also example 1 for further illustration) for each k-mer present in the sequence.

The peptides were then further screened against a reference proteome, typically for human subject against all sequences present in Uniprot (representing all the sequences encoded in the human exome). Peptides were considered equal to those in Uniprot if they had the same amino acid sequence or if they only differed in the amino acid in the first or last position. All these equal sequences were then discarded from the candidate list. 117 peptide sequences derived from these 230 fusion transcripts where thus predicted to bind to HLA-A2: 01 (see table 3 below).

Tables 3: Peptides LUAD

Peptide sequence	Peptide sequence	Peptide sequence
RLLHLESFL	TLGGLMPVL	LMTSSIMSV
TLMNLVQVL	FLQGSITFI	MLMKTVWQA
ILHSLVTGV	MLLLYIWQV	SLQPEDMAL
FMMEQVGLA	YLKIMPVHL	KILTYFPMV
AMDGKELSL	HTLGGLMPV	FLGTRVTRV
TLAYGKYYI	YIMARVLFV	SLMQSGSPV
GLIQLIWLA	FILRTDHYI	VLMWTMAHL
GMVDGGSNI	IMSSAIAYL	LLGETKVYV

Peptide sequence	Peptide sequence	Peptide sequence
YLWTTFFPL	FIIGILQLA	KILTYFPMV
ALWEAKMII	YLLQEIYGI	SLLERGLEA
WLSSRVTQL	GVFPVVIQA	VLSSLNVPL
AILPKANTV	ALVHLPSQL	FLERKSIRV
VLLFEVELV	GLHPAKPQV	FVGSSTFYL
GLDTGLQGM	MLVTWELAL	FLYTGDFFL
SLLDGTQLF	VLLTNTIWL	SVGPFALTV
GLPTGYLFV	ALVHLPSQL	NLALPLPKV
LLDRFGYHV	CLIDEMPEA	VLESGLYQV
SLLEETQAI	ALMGGFMKT	MLVAITVLI
MLLVQPAEL	LLLHLPLXL	FMDDAKILF
GLLNISHTA	TLQDKNLGL	ALVHLPSQL
HLYEPWFPV	ILANLPPAL	ILTASITSI
YLQGLPLPL	PLWDGMAGL	AMDGKELSL
KAVEGILAV	GLDHQTHPL	SLGWNISGV
MIYEENNRL	GMFLLPPQL	MISAFPNEV
YLPYFLKSL	RLADHLSFC	RLTHELPGI
GLYSLSSVV	RMRDQLPAL	LLFSDGEKV
LMISRTPEV	GLLHAEVAL	RLNESTTFV
LLGGPSVFL	SLQNCQVSV	KLEELKSFV
ILSGYGPCV	VISAFPSEV	SINEEIQTV
FLPDLDRPL	ALAIAALEL	RLHDGPLRA
AMDGKELSL	VLDGLDVLL	MISAFPNEV
RMDFEDLGL	ELFPPLFMA	ILHTSVPFL
TLIFNPTEI	FLIVAEILI	YLENMVSGV
LLPGLLLLL	IVAEILISL	QLLGRLESL
LLLVHQHAV	KAVEGILAV	RLLHLESFL
FLDDAPPGT	YLPHLPQVL	ALLRQMEGI
VLIRYVWTL	MLLDPMGGI	TLNKDFQEV
YLCGHLHTL	RLLHLESFL	IMEQGDLSV
VLSQLTILI	YLAYILYFV	RLLHLESFL

2.2.2 Validation on HLA-A2 associated peptides

Given that HLA-A2 allele is expressed in almost 50% of the Caucasian population, together with the existence of different technical tools, validations were focused on HLA-A2-associated peptides.

In the following paragraphs TE-Exon derived-transcripts is used interchangeably with “fusion transcripts” and the term “TE-derived peptides” is used interchangeably with “fusion transcripts-derived peptides.

Expression of TE-Exon derived-transcripts in lung adenocarcinoma samples

To experimentally validate the predicted TE-Exon transcripts, the expression by PCR in LUAD tumor samples and tumor cell lines was validated firstly. Specific primers for each chimeric fusion were thus designed, in order to have one of them binding to the TE part and the other to the Exon part of the fusion. The results were further confirmed by sequencing of the PCR products.

In particular, specific primers were designed in such a way that the forward primer was binding in the "donor" sequence and the reverse primer was binding in the "acceptor" sequence of the reconstructed fusion sequence. PCR reactions were run on RNA derived from lung tumor samples and human tumor cell lines. Amplifications products were seeded on agarose gels and bands found on the expected size were cut and sequenced. Finally, sequenced PCR products were compared with the reconstructed fusion sequence.

Using this approach, it was possible to confirm the presence of predicted fusion transcripts both in LUAD tumor samples and tumor cell lines. Table 4 below summarizes the results found for 8 of the most frequent chimeric fusions with a predicted peptide associated to bind with high affinity to HLA-A2 allele.

Table 4: Most frequent fusion transcript validation. The most frequent fusions peptides were validated by PCR in 15 LUAD tumor samples and 6 LUAD tumor cell lines. The status 'Yes' or 'No' in the table below indicates the presence or absence of the PCR product on the expected size. When the PCR product was further validated by sequencing, is denoted as 'Yes'.

		TE-Exon fusion derived-peptides asociated to bind HLA-A2							
	Frequency	119	48	28	24	23	19	18	16
	peptide sequence	RLLHLESFL	MLMKTVWQA	FLGTRVTRV	AILPKANTV	YLPYFLKSL	AMDGKELSL	FLIVAEILI	RLADHLSFC
LUAD tumor cell lines	H1975	***Yes***	***Yes***	No	No	***Yes***	No	No	No
	H1650	***Yes***	No	No	No	No	No	No	Yes
	H1299	Yes	No	No	No	No	No	No	Yes
	A549	Yes	***Yes***	No	No	***Yes***	No	No	No
	H2052	Yes	No	No	No	No	No	No	No
	HCC827	Yes	Yes	No	No	***Yes***	yes	No	No
LUAD tumor samples	Tumor 1	Yes	No	No	No	Yes	Yes	No	Yes
	Tumor 2	Yes	Yes	No	No	Yes	Yes	No	No
	Tumor 3	***Yes***	No	No	No	Yes	No	No	Yes
	Tumor 4	Yes	No	No	No	Yes	Yes	No	No
	Tumor 5	Yes	No	No	No	No	No	No	No
	Tumor 6	Yes	No	No	Yes	Yes	Yes	Yes	Yes
	Tumor 7	***Yes***	No	No	No	No	Yes	No	No
	Tumor 8	Yes	No	No	No	Yes	Yes	No	No
	Tumor 9	***Yes***	No	No	No	No	Yes	Yes	No
	Tumor 10	***Yes***	***Yes***	Yes	Yes	***Yes***	Yes	Yes	No
	Tumor 11	***Yes***	Yes	No	No	***Yes***	Yes	Yes	No
	Tumor 12	***Yes***	***Yes***	***Yes***	Yes	***Yes***	Yes	No	No
	Tumor 13	Yes	Yes	No	Yes	Yes	No	No	Yes
	Tumor 14	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
	Tumor 15	No	No	No	No	No	Yes	No	No

Binding of ER-derived peptides to HLA-A2 molecule

Once confirmed the expression of chimeric transcripts, the derived-peptides were synthetized and their binding to HLA-A2 was confirmed. Because monomer stabilization and tetramer formation are only possible in the presence of a high affinity binding peptide, the formation of HLA-A2 tetramers was estimated in the presence of synthetized peptides by flow cytometry. All predicted peptides were able to stabilize tetramer formation, showing a percentage of fluorescence higher than 50% relative to positive control. As positive control, a known high affinity binding peptide to HLA-A2 derived from Cytomegalovirus (CMV) was used. This result confirmed the predicted high affinity binding to HLA-A2 allele. Figure 10 shows the result for 10 peptides derived from the most frequent fusions peptides.

Figure **11** shows a new set of peptides, also derived from frequent chimeric transcripts, with a confirmed binding to HLA-A2 using the same peptide-MHC-I complex formation assay. As a positive control of complex formation, we used both CMV pp65 495-503 (NLVPMVATV) and the mutated sequence of Melan-A (MelA mut, ELAGIGILTV), both known good binders to HLA-A2. The non-mutated sequence of Melan-A (MelA) was used as a control of low binder peptide. Negative is recombinant HLA-A2 molecule without any peptide.

Immunogenicity of ER-derived peptides

The following step after binding validation to HLA-A2 allele, was to test the immunogenicity of predicted peptides. Priming assays were thus performed to test the ability of identified peptides to expand specific cytotoxic T cells. PBMCs from HLA-A2+ healthy donors were used to generate monocyte derived-DCs (moDCs). After loading the moDCs with a mix of synthetic peptides, autologous co-culture was performed with CD4+ and CD8+ T cells. Finally, the expansion of specific CD8+ T cells was analysed by flow cytometry using two-colours tetramer staining. As a control of specific expansion, the co-culture was performed in the absence of peptides. By using this approach in one donor, it has been possible to identify and expand specific CD8+ T cells recognizing 6 of the most frequent chimeric fusion derived-peptides (RLLHLESFL, LLGETKVYV, AILPKANTV, RLADHLSFC, FLIVAEILI, YLWTTFFPL). This result is evidenced by an increase in at least one magnitude order of the percentage of tetramer positive cells compared to control test among total CD8+ T cells.

The same experiment was performed in order to evaluate the response in additional 5 donors. Figure 12A summarizes the results obtained for the total of 6 donors analyzed in which we found specific CD8+ T expansions for 23 out 29 of the most frequent fusions transcripts-derived peptides (YLWTTFFPL, FLGTRVTRV, RLADHLSFC, LLGETKVYV, MLVTWELAL,

MLMKTVWQA, SLMQSGSPV, AILPKANTV, AMDGKELSL, LLDRFGYHV, GLLNISHTA, ILTASITSI, ILSGYGPCV, RQAPGFHHA, GLPSHVELA, ILHSLVTGV, LLHLESFLV, VLLTNTIWL, LLTSWHLYL, RLLHLESFL, YLPYFLKSL, VLMWTMAHL, YLQGLPLPL). As a positive of expansions, mutated Melan-A peptide (ELAGIGILTV) were used.. These experiments show that these peptides are able to induce an immune response and confirms the immunogenicity of ER-derived peptides.

Generation of Cytotoxic T lymphocytes clones recognizing ER-derived peptides

Expanded CD8+ tetramer positive T-cells from immunogenicity assays (Figure 12**A**) were single cell FACS-sorted in order to generate cytotoxic T lymphocytes (CTLs) clones. 10 clones recognizing 5 different ER-derived peptides were generated: YLWTTFFPL, LLGETKVYV, MLVTWELAL, MLMKTVWQA, RLADHLSF. These peptides are listed in Table 3 as peptide 9, 86, 53, 80 and 64 respectively. It will be referred to these numbers to indicate the specificity of each generated CTL-clone. For example, CTL-clone 9 recognize ER-derived peptide 9. In a second set of experiments a new CTL-clone 17 was generated recognizing peptide 17 (LLDRFGYHV).

In order to evaluate the cytotoxic capacity of generated CTL-clones, two different functional assays were conducted using the H1650 cell line as target cells. This is a LUAD-derived tumor cell line expressing HLA-A2 allele.

First, the ability of CTL-clones to secret cytokines after exposure to ER-derived peptides was measured. After co-cultured of the CTL-clones with the target cells loaded with the specific ER-derived peptides during 18h, secretion of INF-γ, TNF and Granzyme-B (Gr-B) was measured in culture supernatants. All CTL-clones were activated after exposure specific ER-derived peptides, secreting cytokines in a dose-dependent manner (**Figure 12B**).

In a second set of experiments, CTL clones killing capacity was assessed. CTL-clones were co-cultured in different conditions with target cells loaded or not with ER-derived peptides. Using xCELLigence system the real-time impedance variation in a target cells monolayer was measured. In these assays, a decrease in cell-index is related with a decrease in the number of cells in the monolayer reflecting cell viability.

When CTL-clone 9 was co-culture in 1:1 ratio with target cells loaded with ER-derived peptide 9, a decrease in cell-index over time was observed, compared to the control cells (target cells alone). This cell-index decrease was inhibited when co-culture was performed in the presence of blocking anti-MHC-I antibody (+ anti-MHC-I). Performing the co-culture using the same concentration of isotype control (+ isotype) did not inhibit the decrease in cell-index. Moreover,

the amount of the decrease increased when target cells were loaded with a higher concentration of peptide (1pM compared to 1uM) (**Figure 12C**, left panel). These result show that cytotoxic T cells can recognize peptides encoded by a fusion transcript as herein described and kill target tumor cells expressing such peptides.

It was then demonstrated that ER-derived peptides are naturally expressed and presented by target cells, such said target target-cells can thus be killed by co-culturing them with CTL-clones without external addition of peptides. To this aim, co-culture of CTL-clone 9 with H1650 target cells at different ratios were performed. The right panel of **Figure 12C**, shows that CTL-9 was able to kill target cells at a ratio effector-target of 4:1 as compared to the control cells (target cells alone). Moreover, killing efficacy is increased at higher ratios (8:1). No killing of target cells was evidenced at lower ratios (2:1).

Finally, similar experiments were performed with CTL-clone 9, CTL-clone 64, and CTL-clone 80 showing a specific killing of target cells that could be also inhibited when the co-culture is performed in the presence of anti-MCH-I antibodies (**Figure 12D**).

All together, these results confirm that cytotoxic T cells that recognizes several different peptides encoded by a fusion transcript as herein described can recognize and kill tumor cells expressing said specific fusion transcripts-derived peptides and that this effect is due to the specific recognition of peptides in the context of MHC-I molecules. Moreover, the fact that CTL-clones are able to kill target cells without addition of external peptides, provide clear evidence that fusion transcripts-derived peptides are naturally expressed and presented by an LUAD tumor cell line.

Generation of engineered T-cells recognizing fusion-derived peptides

Jurkat cells transduced with lentiviral vector encoding for CTL-9 TCR sequence were co-cultured with two different target cells, H1650 and H1395. Both are LUAD-derived cell lines express HLA-A2 allele. TCR-mediated activation of Jurkat cells was evaluated by flow cytometry as an increase in the fluorescence of reporter genes (NFAT-GPF, NF-KB-CFP and AP-1-mCherry). Preliminary results showed that Jurkat cells are activated when co-cultured with both target cells compared to negative control (non-transduced Jurkat cells). Furthermore, this activation increased in a dose-dependent manner when the co-culture was performed with target cells loaded with specific peptides. PMA/ionomycin was used as positive control (**Figure 13**).

These results were repeated in another set of experiments and similar ones were obtained with Jurkat cells transduced with lentiviral vector encoding TCR sequences from CTL-86 and CTL-

53 and CTL-17. Transduced Jurkat cells were activated by co-culture with a target tumor cell line loaded with the corresponding ER-derived peptide (Specific/Relevant peptide) but not with the control Melan-A peptide (Unrelated/Irrelevant peptide, ELAGIGILTV) (Figure 14A). As expected, activation is inhibited by blocking with anti-HLA-I antibodies (Figure 14B). TCRs expressed by the generated CTL-clones are thus specific to the corresponding HLA-A2 presented ER-derived peptides.

These results are in line with the results shown in Figure 12 C and D, showing that LUAD-derived tumor cells express TE-derived peptides. Furthermore, these results also highlight the technical relevance of CTL-clones TCR sequences in the development of engineered T cells.

Presence of CD8+ cells recognizing fusion-derived peptides in LUAD patients

It was then aimed to identify the presence of CTL cells recognizing fusion-derived peptides in LUAD tumor samples.

In a first set of experiments tumor infiltrating lymphocytes (TILs) expanded with a mix of TE-derived peptides and Il-2, or only with Il-2, were analyzed by tetramer staining. As is shown in **Figure 15 A** and **B**, CD8+ T-cells cells recognizing fusion-derived peptides were found in TILs derived from LUAD patients.

It was then showed that tetramer positive cells could be detected and their phenotype in non-expanded CD8+ T cells derived from fresh tumor samples was further assessed. Using this strategy, CD8+ T cells present in Tumor, juxta-tumor, invaded lymph-nodes and blood derived from LUAD patient samples were thus analyzed. The cell phenotype was determined based on the expression of surface markers CCR7 and CD45RA for Naïve (CCR7+CD45+), Central Memory (CM, CCR7+CD45RA-) Effector Memory (EM, CCR7-CD45-) and Terminal Effectors (TE, CCR7-CD45+) T cells. Interestingly, tetramer positive cells found in tumor tissues shared preferentially a memory phenotype whereas naïve cells (CCR7+CD45+) are found mostly in cells derived from lymph nodes (**Figure 16 A** and **B**). Patient 2 and 3 are the same in Figure 14 and Figure 15.

All samples tested derived from HLA-A2+ patients.

The presence of tetramer positive cells with a memory phenotype in tumor tissues, together with the presence of tetramer positive cells in TILs, provide evidence that an immune response is generated against TE-derived peptides in these patients. Moreover, the existence of naïve tetramer positive cells in lymph nodes shows that an immune response against these particularly TE-derived peptides can be generated.

In a second cohort of 5 primary, untreated, LUAD tumor, juxta-tumor, tumor-draining lymph node and blood samples from LUAD cancer HLA-A2+ patients were analyzed. Half of each sample was analyzed directly ex-vivo by isolating CD8+ T cells without in-vitro expansions, and the other half was cultured in-vitro for 20 days either with chimeric transcript-derived peptide mixed with IL-2 (patients 1 and 2) or with IL-2 alone (patients 3, 4, 5), aiming to amplify in the samples, the populations of specific T cells recognizing Chimeric transcript-derived peptides. T cells were identified using double color tetramer staining. Antibodies directed CCR7 and CD45RA were also added to the non-expanded cells to distinguish naïve and memory cells. Expansions were considered with 5 or more double tetramer-labelled cells. Figure 17A shows a summary of the 7 "Chimeric transcript-derived peptide specific" tetramer-positive T cell populations found in the 4 patients analyzed directly ex-vivo (one of the patient samples could not be analyzed for technical reasons). CCR7/CD45RA labeling showed that all tetramer-positive T cells detected in tumor samples have a clear effector/memory phenotype, whereas in blood and lymph nodes the "Chimeric transcript-derived peptide specific" tetramer-positive T cells have variable proportions of less differentiated, CCR7+ naïve and/or central memory phenotypes.

Therefore, these results demonstrate that primary human NSCLC tumors contain chimeric transcript-derived peptide specific memory T cells (Figure 17B).

A summary of expanded, tetramer+ CD8+ T cells, is shown in Figure 17C. For the majority of peptide specificities, T cells were expanded from both the tumor and the matched invaded lymph nodes (LN) analyzed only in 2 patients, and in some cases from the matched juxta-tumor samples (Jt) (Figure 17C). 5 out of 7 specific tetramer positive populations were also found at Day 20 in the same patient and tissue found ex-vivo without T cell expansions (Figure 17A and bold squares on Figure 17C).

These results provide thus evidence that chimeric transcript-derived peptide specific T cells are present in tumors, tumor-draining lymph nodes and sometimes in juxta-tumor tissue and blood of LUAD patients before and after in-vitro expansion, consistent with the existence of chimeric transcripts-derived peptide specific immune responses in LUAD patients.

Peptide identification by Mass Spectrometry in LUAD biopsies.

Presentation by MHC class I molecules on the tumour cell surface is required for ER-derived peptides in order to be recognized by cytotoxic T cells. In order to confirm that predicted peptides are express on MHC class I molecules, public data from MHC I immunopeptidome derived from 3 LUAD biopsies (Laumont CM et al., "Noncoding regions are the main source

of targetable tumor-specific antigens" Sci Transl Med. 2018 10(470)) were used. OpenMS Software was used to analyse the raw data uploaded to PRIDE database from MHC-I immunopurification of 3 LUAD tumours (PXD009752, PXD009754 and PXD009755). Having in mind that data-dependent acquisition in proteomics only allows the identification of those sequences contained in a target database (generally the whole human proteome); the peptides as per the present application had not been previously identified because they derive from non-coding sequences. The MS/MS identifications incorporating the sequences of the herein predicted peptides in the target database has been re-analyzed. Five peptides among the 3 samples biopsies (peptides ID: 3304, 269, 757, 1810, 3953) were found. To perform this analysis, all predicted peptides derived from chimeric fusions present in at least 5 samples in the TCGA binding to any MHC I allele were considered. This result confirms the expression of chimeric fusion-derived peptides on MHC class I molecules in LUAD tumors.

Later, we extended our analysis to new lung immunopeptidomics datasets (Bulik-Sullivan *et al.* Nat. Biotec 2018, Chong *et al.* Nat. Comm. 2020 and Javitt *et al.* Front Immunol 2019). Of note, all datasets were generated with fresh lung tumor samples with the exception of Javitt *et al.* Front Immunol 2019 containing LUAD tumor cell line. For this second analysis, ProteomeDiscoverer 1.4 Software was used to identify the ER-derived peptides. Considering the 4 datasets, 23 unique ER-derived peptides were present in at least one of the total 19 immunopeptidomic samples. In Figure 18, ER-derived peptides (rows) identified in each MHC sample (column) are indicated with a grey square. On the right, the peptide sequence found is indicated. Interestingly, some of them were observed in more than 1 MHC sample indicating that they are shared across samples. These results confirm that fusion transcripts-derived peptides are processed and presented by HLA-I molecules on tumor cells surface.

Peptide RLADHLSFC derived from a fusion transcript where the gene part of the fusion is a tumor suppressor gene (Fusion ID: chr22:29117506:->chr22:29115473:- /gene involved: CHEK2) and peptide GLPSHVELA derived from a fusion transcript where the gene part is an oncogene (Fusion ID: chr6:117763597:->chr6:117739669:- / gene involved: ROS1). Interestingly, both peptides were found to be immunogenic (Figure 12 A) and particularly for peptide RLADHLSFC, results show in Figure 12 D indicate that could be express by H1650 cell line. Furthermore, we found TILs recognizing peptide GLPSHVELA (Figure 13A), which indicates that this fusion transcript-derived peptide could be express in LUAD tumor samples.

3 Example 3: Identification neoantigenic peptides derived from fusion transcripts composed of a TE element and an exonic sequence from various cancer samples.

Table 5: 9184 samples from 32 different cancer types (from the TCGA):

Cancer types from TCGA	Acute Myeloid Leukemia, Adrenocortical Carcinoma, Bladder Urothelial Carcinoma, Breast Ductal Carcinoma, Breast Lobular Carcinoma, Cervical Carcinoma, Cholangiocarcinoma, Colorectal Adenocarcinoma, Esophageal Carcinoma, Gastric Adenocarcinoma, Glioblastoma Multiforme, Head and Neck Squamous Cell Carcinoma, Hepatocellular Carcinoma, Kidney Chromophobe Carcinoma, Kidney Clear Cell Carcinoma, Kidney Papillary Cell Carcinoma, Lower Grade Glioma, Lung Adenocarcinoma, Lung Squamous Cell Carcinoma, Mesothelioma, Ovarian Serous Adenocarcinoma, Pancreatic Ductal Adenocarcinoma, Paraganglioma & Pheochromocytoma, Prostate Adenocarcinoma, Sarcoma, Skin Cutaneous Melanoma, Testicular Germ Cell Cancer, Thymoma, Thyroid Papillary Carcinoma, Uterine Carcinosarcoma, Uterine Corpus Endometrioid Carcinoma and Uveal Melanoma

RNA datasets from the above-mentioned cancer samples were analyzed according to the method as previously described.
16580 fusion transcripts were identified.

4 Transmembrane chimeric proteins

4.1 Identification of transmembrane chimeric proteins

The present disclosure provides the first selection of transmembrane chimeric protein candidates that are obtained from the fusion transcripts predicted from bioinformatics pipeline developed for identifying genome-wide non-canonical spliced regions using RNA-Seq data publicly available in TCGA (the Cancer Genome Atlas) and CCLE (Broad Institute Cancer Cell Line Encyclopedia) (described in section EXAMPLES).

Such transmembrane chimeric proteins candidates were identified and selected as detailed below.

All transcripts derived from a slicing event between a TE and an exonic sequence were first identified within the transcriptome mRNA data from the TCGA and CCLE databases.

This step has been detailed in the above section (detailed description and previous examples) of the present application.

This step has been detailed in the above section (detailed description and previous examples) of the present application. As previously mentioned, fusion transcripts result from alternative splicing mechanisms that known to be essential for generating functional diversity, as it allows individual genes to express multiple mRNAs and encode numerous proteins, through rearrangement of existing exonic and intronic sequences. Types of splicing alteration observed include exon skipping, intron retention and use of alternative splice donor or acceptor sites. In these fusion transcripts, the TE can act as a donor (in 5' position) or as an acceptor (in 3' acceptor) and correspondingly the exon can be acceptor or donor. TE-exon splicing thus results in the incorporation of parts of the "non-coding" genome into the coding genome, thereby exposing non-coding genomic sequences to the translation machinery. These fusions (or chimeric) transcripts also named JET (Junction Exon TE) include an ORF (open reading frame), i.e. they are the part of a reading frame that has the ability to be translated into a polypeptide. When the TE is acceptor, the ORF of the fusion transcript is canonical (i.e. the same as the canonical transcript), whereas when the TE is the donor the ORF can be canonical or can be shifted by 1 or 2 nucleotides.

The fusion transcripts include not only the fused TE and exon sequences (corresponding to the JET) but can also further include exon(s), upstream the fusion breakpoint (between the exon and the TE) if the exon is donor or downstream the fusion breakpoint is the TE is donor, corresponding to the various transcript isoforms.

Identification of transmembrane neoantigenic peptides as herein disclosed further comprised a step of selecting the fusion transcripts having a translated exonic sequence that is annotated in proteome databases (such as UniProt) as belonging to a transcript coding for a membrane protein.

The sequences of the selected fusion transcripts were then translated (*in silico*) into fusion peptide (also named translated junctions) sequences.

The full sequence of each fusion transcript is translated according to the following rules:

- Fusion transcripts wherein the exon acts as a splicing donor are translated following the canonical ORF of the transcript from the beginning of the transcript to the first stop codon after the breakpoint between the exon and the TE.

- Fusion transcripts wherein the TE acts as a splicing donor are translated following the 3 possible ORFs (1 to 3) from the beginning of the TE or starting in the nucleotide that follows the last stop codon preceding the breakpoint between the TE and the exon, to the first stop codon after said breakpoint.

- Only translated peptide sequences containing at least 3 amino acids derived from the TE sequence are kept.

Typically, peptide sequences deriving from translated junctions that match to any referenced or annotated protein sequences in UniProt are discarded, therefore, focusing on non-annotated chimeric peptides (as exemplified in tables 9 to 12).

VALIDATION OF HITS BY ECTOPIC EXPRESSION

By applying the above listed rules, a short-list of integral transmembrane chimeric proteins was selected. These chimeric proteins are predicted to be generated either by TE-acceptor fusions or by metafusions. The corresponding genes and associated chimeric IDs are:

Gene	chimeric_id
ABHD1	chr2:27346930:+>chr2:27347727:+
AC006538.4,SLC39A3	chr19:2737046:->chr19:2735481:-
ADCY3	chr2:25057354:->chr2:25056695:-
ADRA1B	chr5:159344861:+>chr5:159412678:+
AGTRAP	chr1:11805894:+>chr1:11805987:+
ASIC4	chr2:220380028:+>chr2:220383470:+
ATP1B3	chr3:141640905:+>chr3:141642262:+
B4GALNT1	chr12:58023935:->chr12:58023079:-
CACNG6	chr19:54501567:+>chr19:54502685:+
CD63	chr12:56120484:->chr12:56120394:-
DAGLA	chr11:61505679:+>chr11:61506649:+
FOLH1	chr11:49175398:->chr11:49173831:-
FOLH1	chr11:49186257:->chr11:49184464:-
FUT8	chr14:66096324:+>chr14:66099743:+
GALNT2	chr1:230203153:+>chr1:230227336:+
GDPD4	chr11:76944070:->chr11:76940716:-
GGT1	chr22:25019883:+>chr22:25023093:+
GRIK2	chr6:102483441:+>chr6:102495349:+
HPN	chr19:35540420:+>chr19:35547041:+
KCNN3	chr1:154744451:->chr1:154709564:-
LAPTM4B	chr8:98817692:+>chr8:98819216:+
MFNG	chr22:37868481:->chr22:37865350:-
MFNG	chr22:37870550:->chr22:37861756:-
NAALAD2	chr11:89896785:+>chr11:89901251:+

NKAIN3	chr8:63502353:+>chr8:63546747:+
SERINC5	chr5:79498705:->chr5:79481724:-
SLC12A2	chr5:127497492:+>chr5:127498885:+
SLC28A1	chr15:85478749:+>chr15:85494311:+
SLC39A9	chr14:69890919:+>chr14:69895279:+
SLC44A1	chr9:108110732:+>chr9:108112859:+
SLCO1A2	chr12:21427403:->chr12:21387233:-
SLCO1B1	chr12:21377773:+>chr12:21420585:+
TFRC	chr3:195780393:->chr3:195779399:-
TFRC	chr3:195798267:->chr3:195798058:-
TMCO3	chr13:114157903:+>chr13:114159741:+
TMEM117	chr12:44338145:+>chr12:44422639:+
TMEM62	chr15:43430817:+>chr15:43431177:+
TMPRSS6	chr22:37492688:->chr22:37492292:-
TNFSF4	chr1:173157660:->chr1:173142495:-
TSPAN15	chr10:71258152:+>chr10:71271547:+
UPK1B	chr3:118917987:+>chr3:118922347:+
ZDHHC22	chr14:77605556:->chr14:77602889:-

Table 6

Gene	Chimeric _ID OF METAFUSION
ABCA5	chr17:67291392:->chr17:67290854:- | chr17:67293332:->chr17:67291512:-
ABCA5	chr17:67306489:->chr17:67305564:- | chr17:67309233:->chr17:67306575:-
ABCA6	chr17:67076099:->chr17:67075406:- | chr17:67077207:->chr17:67076168:-
ADCY3	chr2:25056611:->chr2:25054618:- | chr2:25057354:->chr2:25056695:-
ADCY3	chr2:25112189:->chr2:25095588:- | chr2:25141182:->chr2:25112387:-
ANO10	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-
ANO9	chr11:423942:->chr11:421198:- | chr11:428166:->chr11:424187:-
ATP2C1	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+
B4GALNT1	chr12:58023062:->chr12:58022045:- | chr12:58023935:->chr12:58023079:-
B4GALNT1	chr12:58023062:->chr12:58022686:- | chr12:58023935:->chr12:58023079:-
B4GALNT1	chr12:58023062:->chr12:58022929:- | chr12:58023935:->chr12:58023079:-
CELSR1	chr22:46887031:->chr22:46860242:- | chr22:46929524:->chr22:46887096:-
DNER	chr2:230370928:->chr2:230341969:- | chr2:230377499:->chr2:230370969:-
DNER	chr2:230409481:->chr2:230377652:- | chr2:230411663:->chr2:230409543:-
DPY19L2	chr12:63961380:->chr12:63954442:- | chr12:63963004:->chr12:63961479:-
DPY19L2	chr12:63961380:->chr12:63954442:- | chr12:63964538:->chr12:63961479:-
FOLH1	chr11:49184443:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-
FOLH1	chr11:49184098:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-
GPR143	chrX:9715893:->chrX:9714193:- | chrX:9716614:->chrX:9715942:-
ITFG1	chr16:47195998:->chr16:47195743:- | chr16:47196451:->chr16:47196042:-
KCNN3	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-
LHFP	chr13:39925507:->chr13:39918191:- | chr13:39952565:->chr13:39925574:-
PAQR3	chr4:79849981:->chr4:79847872:- | chr4:79851324:->chr4:79850039:-

RNF175	chr4:154666821:->chr4:154644610:- | chr4:154669797:->chr4:154666879:-
RNF175	chr4:154666821:->chr4:154649513:- | chr4:154672590:->chr4:154666879:-
RPN1	chr3:128359849:->chr3:128356948:- | chr3:128363762:->chr3:128359896:-
SLC12A8	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-
SLC1A7	chr1:53602097:->chr1:53600101:- | chr1:53607987:->chr1:53602159:-
SLC22A16	chr6:110774731:->chr6:110768193:- | chr6:110777741:->chr6:110774810:-
SLC22A16	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-
SLC22A3	chr6:160823515:+>chr6:160828073:+ | chr6:160819114:+>chr6:160826723:+
SLC35F5	chr2:114505993:->chr2:114503916:- | chr2:114508002:->chr2:114506009:-
SLC38A2	chr12:46760160:->chr12:46758972:- | chr12:46760647:->chr12:46760246:-
SLC39A11	chr17:70670643:->chr17:70645407:- | chr17:70732789:->chr17:70670711:-
SLC43A3	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-
SLC47A2	chr17:19600139:->chr17:19584983:- | chr17:19605918:->chr17:19600213:-
SLCO1A2	chr12:21426215:->chr12:21422701:- | chr12:21427403:->chr12:21426319:-
STRA6	chr15:74475786:->chr15:74474801:- | chr15:74476197:->chr15:74475850:-
TMEM66	chr8:29925108:->chr8:29924434:- | chr8:29927158:->chr8:29925140:-
TMEM68	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-

Table 7

From the above tables 6 and 7, 27 TE-acceptor fusion and 17 metafusion transcripts with the addition of a c-Myc sequence were synthesized and cloned into a pCDNA 3 plasmid (commercially available). These plasmids were used to ectopically express the predicted chimeric proteins including the c-Myc Tag in the HEK293 cell line. After cell transfection and protein expression, anti-Myc Alexa Fluor 647 2233S Clone 9B11 antibody was used to detect and quantify c-Myc from the extracellular region.

The following 19 JET derived transcripts were positively validated through this approach, thus proving that the corresponding chimeric proteins are stably translated and inserted into the membrane, in the above-mentioned experimental setting.

Gene	**Transcript IDs**	**Chimeric IDs**
ABHD1	ENST00000316470	chr2:27346930:+>chr2:27347727:+
ADCY3	ENST00000260600	chr2:25112189:->chr2:25095588:- | chr2:25141182:->chr2:25112387:-
ADRA1B	ENST00000306675	chr5:159344861:+>chr5:159412678:+
B4GALNT1	ENST00000341156	chr12:58023935:->chr12:58023079:-
B4GALNT1	ENST00000341156	chr12:58023062:->chr12:58022045:- | chr12:58023935:->chr12:58023079:-
B4GALNT1	ENST00000341156	chr12:58023062:->chr12:58022686:- | chr12:58023935:->chr12:58023079:-
DNER	ENST00000341772	chr2:230370928:->chr2:230341969:- | chr2:230377499:->chr2:230370969:-
DNER	ENST00000341772	chr2:230409481:->chr2:230377652:- | chr2:230411663:->chr2:230409543:-
FOLH1	ENST00000256999	chr11:49186257:->chr11:49184464:-

FOLH1	ENST00000256999	chr11:49184098:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-
FOLH1	ENST00000256999	chr11:49184443:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-
GGT1	ENST00000248923	chr22:25019883:+>chr22:25023093:+
ITFG1	ENST00000320640	chr16:47195998:->chr16:47195743:- | chr16:47196451:->chr16:47196042:-
KCNN3	ENST00000271915	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-
SLC39A9	ENST00000336643	chr14:69890919:+>chr14:69895279:+
TFRC	ENST00000360110	chr3:195780393:->chr3:195779399:-
TMPRSS6	ENST00000381792	chr22:37492688:->chr22:37492292:-
TNFSF4	ENST00000281834	chr1:173157660:->chr1:173142495:-
TSPAN15	ENST00000373290	chr10:71258152:+>chr10:71271547:+

Table 8

Figure 19 shows an example of flow cytometry results (transfection of the following construct: ABHD1; ENST00000316470; chr2:27346930:+>chr2:27347727:+):.

4.2 Total proteomics

Mass spectrometry-based proteomics has emerged as a powerful tool to interrogate the actual protein content of a given cell preparation. To confirm that JETs are indeed translated into proteins, mass spectrometry output files (called raw files) generated from cell lines and fresh tumors were analyzed to identify different populations of JET-derived peptides. This study has been grouped into two different analyses, each one providing a different and complementary type of information, that demonstrate that JET derived proteins can reliably be detected in a tumor sample or in a tumor cell line.

First it was demonstrated that proteins derived from the JETs were found to be highly recurrent in CCLE dataset. Therefore, the in-silico translated junctions from all those JET mRNA sequences predicted in more than 7 different cell lines in the CCLE cohort were used and interrogated to the mass spectrometry raw files from Nusinow *et al.* 2020, which consists in the proteomics analysis of 375 cell lines from CCLE. These cell lines were grouped in TMT6plex, generating a total amount of 29 MS/MS output files. This MS-based proteomics analysis led to the identification of **57** JET derived proteins, containing at least 1 peptide overlapping the splicing junction and in which the gene involved in the splicing event is annotated to be located in plasma membrane according to Uniprot (Table 9).

Table 9:

In the table below the column's numbers refer to the following items.

SEQ ID	chimeric_id	Recurrence in proteome	Gene	Uniprot ID	Subcellular location [CC]
1	2	3	4	5	6

1	2	3	4	5	6
8203	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000349029, chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000349029, chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000351154, chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000351154, chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000399410, chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000399410	4	ABCC1	P33527	SUBCELLULAR LOCATION: Cell membrane {ECO:0000269|PubMed:16230346}; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00441, ECO:0000269|PubMed:16230346}.
8204	chr2:114668071:+:MER21B>chr2:114670749:+:ENST00000263238, chr2:114668071:+:MER21B>chr2:114670749:+:ENST00000263238, chr2:114668071:+:MER21B>chr2:114670749:+:ENST00000415792, chr2:114668071:+:MER21B>chr2:114670749:+:ENST00000415792, chr2:114668071:+:MER21B>chr2:114670749:+:ENST00000446821, chr2:114668071:+:MER21B>chr2:114670749:+:ENST00000446821	15	ACTR3	P61158	SUBCELLULAR LOCATION: Cytoplasm, cytoskeleton {ECO:0000269|PubMed:19109554}. Cell projection {ECO:0000269|PubMed:9230079}. Nucleus {ECO:0000269|PubMed:16767080, ECO:0000269|PubMed:17220302, ECO:0000269|PubMed:29925947}. Note=In pre-apoptotic cells, colocalizes with MEFV in large specks (pyroptosomes) (PubMed:19109554).
8205	chr1:156962904:-:MIRb>chr1:156955965:-:ENST00000361409, chr1:156962904:-:MIRb>chr1:156955965:-:ENST00000368194	4	ARHGEF11	O15085	SUBCELLULAR LOCATION: Cytoplasm {ECO:0000269|PubMed:10900204}. Membrane {ECO:0000269|PubMed:10900204}. Note=Translocated to the membrane upon stimulation.

8206	chr12:110873462:-:AluSz>chr12:110873022:-:ENST00000228825	4	ARPC3	O15145	SUBCELLULAR LOCATION: Cytoplasm, cytoskeleton {ECO:0000269|PubMed:9230079, ECO:0000269|PubMed:9359840}. Cell projection {ECO:0000269|PubMed:9230079, ECO:0000269|PubMed:9359840}. Nucleus {ECO:0000269|PubMed:29925947}.
8207	chr16:84488590:+:ENST00000262429>chr16:84490583:+:L1HS	4	ATP2C2	O75185	SUBCELLULAR LOCATION: Membrane {ECO:0000305}; Multi-pass membrane protein {ECO:0000305}.
8208	chr10:98044785:-:MLT1C>chr10:98006805:-:ENST00000224337, chr10:98044785:-:MLT1C>chr10:98006805:-:ENST00000224337	4	BLNK	Q8WV28	SUBCELLULAR LOCATION: Cytoplasm {ECO:0000269|PubMed:9697839}. Cell membrane {ECO:0000269|PubMed:9697839}. Note=BCR activation results in the translocation to membrane fraction.
8209	chr7:81946024:-:THE1B>chr7:81799925:-:ENST00000356860	4	CACNA2D1	P54289	SUBCELLULAR LOCATION: Membrane {ECO:0000305}; Single-pass type I membrane protein {ECO:0000305}.
8210	chr5:149627335:-:ENST00000348628>chr5:149626005:-:MER102b	4	CAMK2A	Q9UQM7	SUBCELLULAR LOCATION: Cell junction, synapse {ECO:0000250|UniProtKB:P11275}. Cell junction, synapse, postsynaptic density {ECO:0000250|UniProtKB:P11275}. Cell projection, dendritic spine {ECO:0000269|PubMed:28130356}. Cell projection, dendrite {ECO:0000269|PubMed:28130356}. Note=Postsynaptic lipid rafts. {ECO:0000250|UniProtKB:P11275}.
8211	chr13:77572426:+:MIRc>chr13:77574593:+:ENST00000377453	4	CLN5	O75503	SUBCELLULAR LOCATION: [Ceroid-lipofuscinosis neuronal protein 5, secreted form]: Lysosome {ECO:0000269|PubMed:11971870, ECO:0000269|PubMed:20052765, ECO:0000269|PubMed:22431521, ECO:0000269|PubMed:24038957, ECO:0000269|PubMed:24058541}.; SUBCELLULAR LOCATION: [Ceroid-lipofuscinosis neuronal protein 5]: Membrane {ECO:0000269|PubMed:24038957}; Single-pass type II membrane protein {ECO:0000269|PubMed:24038957}. Note=An amphipathic anchor region facilitates its association with the membrane. {ECO:0000269|PubMed:24038957}.

8212	chr4:5827221:-:ENST00000324989>chr4:5744561:-:MER66C, chr4:5827221:-:ENST00000397890>chr4:5744561:-:MER66C, chr4:5827221:-:ENST00000512574>chr4:5744561:-:MER66C	3	CRMP1	Q14194	SUBCELLULAR LOCATION: Cytoplasm {ECO:0000269|PubMed:11562390}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000269|PubMed:11562390}. Cytoplasm, cytoskeleton, spindle {ECO:0000269|PubMed:11562390}. Cell projection, growth cone {ECO:0000250|UniProtKB:P97427}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P97427}. Perikaryon {ECO:0000250|UniProtKB:P97427}. Note=Associated with centrosomes and the mitotic spindle during metaphase (PubMed:11562390). Colocalizes with FLNA and tubulin in the central region of DRG neuron growth cone (By similarity). Following SEMA3A stimulation of DRG neurons, colocalizes with F-actin (By similarity). {ECO:0000250|UniProtKB:P97427, ECO:0000269|PubMed:11562390}.
8213	chr20:35116711:+:MIR>chr20:35125108:+:ENST00000373907, chr20:35116711:+:MIR>chr20:35125108:+:ENST00000373913	8	DLGAP4	Q9Y2H0	SUBCELLULAR LOCATION: Membrane {ECO:0000250}; Peripheral membrane protein {ECO:0000250}.
8214	chr1:51946945:-:ENST00000371730>chr1:51945188:-:L1PA5	3	EPS15	P42566	SUBCELLULAR LOCATION: Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Membrane, clathrin-coated pit. Note=Recruited to the plasma membrane upon EGFR activation and localizes to coated pits. Colocalizes with UBQLN1 in ubiquitin-rich cytoplasmic aggregates that are not endocytic compartments and in cytoplasmic juxtanuclear structures called aggresomes. {ECO:0000269|PubMed:16159959}.; SUBCELLULAR LOCATION: [Isoform 2]: Early endosome membrane {ECO:0000269|PubMed:18362181}; Peripheral membrane protein {ECO:0000269|PubMed:18362181}; Cytoplasmic side {ECO:0000269|PubMed:18362181}. Note=Colocalizes with HGS on bilayered clathrin coats on endosomes.

8215	chr9:130341201:-:ENST00000373314>chr9:130334967:-:MIRb	12	FAM129B	Q96TA1	SUBCELLULAR LOCATION: Cytoplasm, cytosol. Cell junction, adherens junction. Membrane {ECO:0000305}; Lipid-anchor {ECO:0000305}. Note=In exponentially growing cells, exclusively cytoplasmic. Cell membrane localization is observed when cells reach confluency and during telophase. In melanoma cells, targeting to the plasma membrane may be impaired by C-terminal phosphorylation.
8216	chrX:138286221:-:ENST00000370603>chrX:138072779:-:THE1B	4	FGF13	Q92913	SUBCELLULAR LOCATION: Cell projection, filopodium {ECO:0000250}. Cell projection, growth cone {ECO:0000250}. Cell projection, dendrite {ECO:0000250}. Nucleus {ECO:0000269|PubMed:10644718}. Cytoplasm {ECO:0000269|PubMed:10644718}. Note=Not secreted. {ECO:0000250}.; SUBCELLULAR LOCATION: [Isoform 1]: Nucleus, nucleolus.; SUBCELLULAR LOCATION: [Isoform 2]: Cytoplasm. Nucleus.
8217	chr12:6646556:+:ENST00000229239>chr12:6648679:+:MIRb, chr12:6646556:+:ENST00000396856>chr12:6648679:+:MIRb, chr12:6646556:+:ENST00000396858>chr12:6648679:+:MIRb	4	GAPDH	P04406	SUBCELLULAR LOCATION: Cytoplasm, cytosol {ECO:0000269|PubMed:12829261}. Nucleus {ECO:0000250}. Cytoplasm, perinuclear region {ECO:0000269|PubMed:12829261}. Membrane {ECO:0000269|PubMed:12829261}. Cytoplasm, cytoskeleton {ECO:0000250}. Note=Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity). Postnuclear and Perinuclear regions. {ECO:0000250}.
8218	chr13:92560311:+:ENST00000377067>chr13:92572670:+:HAL1	4	GPC5	P78333	SUBCELLULAR LOCATION: Cell membrane {ECO:0000250}; Lipid-anchor, GPI-anchor {ECO:0000250}; Extracellular side {ECO:0000250}.; SUBCELLULAR LOCATION: [Secreted glypican-5]: Secreted, extracellular space {ECO:0000250}.

8219	chr6:31360872:-:AluSg>chr6:31324570:-:ENST00000412585	4	HLA-B	P01889	SUBCELLULAR LOCATION: Cell membrane {ECO:0000269|PubMed:25480565, ECO:0000269|PubMed:26439010, ECO:0000269|PubMed:9620674}; Single-pass type I membrane protein {ECO:0000255}. Endoplasmic reticulum membrane {ECO:0000305|PubMed:9620674}; Single-pass type I membrane protein {ECO:0000255}.
8220	chr14:106662989:-:HERVS71-int>chr14:106641867:-:ENST00000390605	4	IGHV1-18	A0A0C4DH31	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8221	chr14:107170059:-:ENST00000390633>chr14:107126752:-:L1ME2, chr14:107170059:-:ENST00000390633>chr14:107126752:-:L1ME2	3	IGHV1-69	P01742	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8222	chr14:106573251:-:ENST00000390601>chr14:106558237:-:L1PB4	8	IGHV3-11	P01762	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8223	chr14:106552518:-:ENST00000390600>chr14:106279761:-:L1PA13, chr14:106815952:-:ENST00000390615>chr14:106279761:-:L1PA13	3	IGHV3-33	P01772	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8224	chr14:106866613:-:ENST00000390618>chr14:106764783:-:AluJb	12	IGHV3-38	A0A0C4DH36	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8225	chr14:107048875:-:ENST00000390627>chr14:107025026:-:L1PB3, chr14:107131236:-:ENST00000390632>chr14:107025026:-:L1PB3	3	IGHV3-53	P01767	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.

8226	chr14:106877762:-:ENST00000390619>chr14:106859351:-:MLT1C	4	IGHV4-39	P01824	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8227	chr2:90010195:-:LTR62>chr2:89246936:-:ENST00000496168	3	IGKV1-5	P01602	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8228	chr2:90199062:+:ENST00000390276>chr2:90207369:+:MER66-int, chr2:90199062:+:ENST00000390276>chr2:90207369:+:MER66-int	8	IGKV1D-12	P01611	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8229	chr2:90214357:+:L1ME3>chr2:90249278:+:ENST00000468879, chr2:90214357:+:L1ME3>chr2:90260131:+:ENST00000471857	99	IGKV1D-8	A0A087WSZ0	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8230	chr2:134035154:+:L1M5>chr22:23248512:+:ENST00000390325	100	IGLC3	P0DOY3	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8231	chr22:22689234:+:L1PA8>chr22:22712477:+:ENST00000390294, chr22:22689234:+:L1PA8>chr22:22735583:+:ENST00000390297	4	IGLV1-47	P01700	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8232	chr3:118831521:-:L1PA3>chr3:118649122:-:ENST00000425327	3	IGSF11	Q5DX21	SUBCELLULAR LOCATION: Cell membrane {ECO:0000250}; Single-pass type I membrane protein {ECO:0000250}.
8233	chr17:73725517:+:ENST00000579662>chr17:73726063:+:AluJo	4	ITGB4	P16144	SUBCELLULAR LOCATION: Cell membrane; Single-pass type I membrane protein. Cell membrane; Lipid-anchor. Cell junction, hemidesmosome. Note=Colocalizes with DST at the leading edge of migrating keratinocytes.

8234	chr3:44887389:+:MER65D>chr3:44889477:+:ENST00000326047	11	KIF15	Q9NS87	SUBCELLULAR LOCATION: Cytoplasm. Cytoplasm, cytoskeleton, spindle. Note=Detected during the interphase in the cytoplasm as finely punctuate pattern and irregularly shaped dots. Detected during mitosis on the mitotic spindle. Colocalizes with TPX2 in mitosis. Localizes at the central spindle at anaphase (By similarity). Localizes at the sites of invaginating cell membranes, a position that corresponds to the location of the contractile actomyosin ring of dividing cells (By similarity). Colocalizes with actin in interphase (By similarity). Colocalizes in dendrites and in growth cone of axons with microtubules (By similarity). {ECO:0000250}.
8235	chr7:156483036:-:Charlie7a>chr7:156480885:-:ENST00000353442	14	LMBR1	Q8WVP7	SUBCELLULAR LOCATION: Membrane {ECO:0000250}; Multi-pass membrane protein {ECO:0000250}.
8236	chr8:54994449:-:AluSq2>chr8:54978373:-:ENST00000316963, chr8:54994449:-:AluSq2>chr8:54978373:-:ENST00000343231, chr8:54994449:-:AluSq2>chr8:54978373:-:ENST00000518546	8	LYPLA1	O75608	SUBCELLULAR LOCATION: Cytoplasm {ECO:0000269|PubMed:19439193}. Cell membrane {ECO:0000269|PubMed:19439193}. Nucleus membrane {ECO:0000269|PubMed:19439193}. Endoplasmic reticulum {ECO:0000269|PubMed:19439193}. Note=Shows predominantly a cytoplasmic localization with a weak expression in the cell membrane, nuclear membrane and endoplasmic reticulum. {ECO:0000269|PubMed:19439193}.
8237	chr10:95240482:-:AluSx>chr10:95216694:-:ENST00000358334	4	MYOF	Q9NZM1	SUBCELLULAR LOCATION: Cell membrane; Single-pass type II membrane protein. Nucleus membrane; Single-pass type II membrane protein. Cytoplasmic vesicle membrane; Single-pass type II membrane protein. Note=Concentrated at the membrane sites of both myoblast-myoblast and myoblast-myotube fusions. Detected at the plasmalemma in endothelial cells lining intact blood vessels (By similarity). Found at nuclear and plasma membranes. Enriched in undifferentiated myoblasts near the plasma membrane in puncate structures. {ECO:0000250}.

8238	chr14:73754128:-:AluSz6>chr14:73754022:-:ENST00000554546	4	NUMB	P49757	SUBCELLULAR LOCATION: Cell membrane {ECO:0000269|PubMed:18657069}; Peripheral membrane protein {ECO:0000305|PubMed:18657069}; Cytoplasmic side {ECO:0000305|PubMed:18657069}. Endosome membrane {ECO:0000269|PubMed:18657069}; Peripheral membrane protein {ECO:0000305|PubMed:18657069}; Cytoplasmic side {ECO:0000305|PubMed:18657069}. Note=Localizes to perinuclear endosomes in an AAK1-dependent manner. {ECO:0000269|PubMed:18657069}.
8239	chr19:10561170:+:MIRb>chr19:10561279:+:ENST00000592685	3	PDE4A	P27815	SUBCELLULAR LOCATION: [Isoform 1]: Cytoplasm, perinuclear region.; SUBCELLULAR LOCATION: [Isoform 2]: Cytoplasm, perinuclear region. Cell projection, ruffle membrane.; SUBCELLULAR LOCATION: [Isoform 4]: Membrane; Peripheral membrane protein. Note=Isoform 4 has propensity for association with membranes.; SUBCELLULAR LOCATION: [Isoform 6]: Cytoplasm, perinuclear region.; SUBCELLULAR LOCATION: [Isoform 7]: Cytoplasm. Membrane. Note=Predominantly cytoplasmic.
8240	chr6:144066592:+:L3>chr6:144070122:+:ENST00000367584	3	PHACTR2	O75167	SUBCELLULAR LOCATION: [Isoform 2]: Membrane {ECO:0000305}; Lipid-anchor {ECO:0000305}.; SUBCELLULAR LOCATION: [Isoform 4]: Membrane {ECO:0000305}; Lipid-anchor {ECO:0000305}.
8241	chr1:28810817:+:AluSx>chr1:28815682:+:ENST00000373839, chr1:28810817:+:AluSx>chr1:28815682:+:ENST00000373839, chr1:28810817:+:AluSx>chr1:28815682:+:ENST00000373839	4	PHACTR4	Q8IZ21	SUBCELLULAR LOCATION: Cytoplasm {ECO:0000250}. Cell projection, lamellipodium {ECO:0000250}.

8242	chr4:102117073:-:ENST00000492351>chr4:102104428:-:MLT1J	11	PPP3CA	Q08209	SUBCELLULAR LOCATION: Cytoplasm {ECO:0000269|PubMed:19154138, ECO:0000269|PubMed:22343722}. Cell membrane {ECO:0000269|PubMed:22343722}; Peripheral membrane protein {ECO:0000269|PubMed:22343722}. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P63329}. Cytoplasm, myofibril, sarcomere, Z line {ECO:0000250|UniProtKB:P63329}. Cell projection, dendritic spine {ECO:0000269|PubMed:22343722}. Note=Colocalizes with ACTN1 and MYOZ2 at the Z line in heart and skeletal muscle (By similarity). Recruited to the cell membrane by scaffold protein AKAP5 following L-type Ca(2+)-channel activation (PubMed:22343722). {ECO:0000250|UniProtKB:P63329, ECO:0000269|PubMed:22343722}.
8243	chr4:87716976:+:L1PA6>chr4:87718027:+:ENST00000411767	4	PTPN13	Q12923	SUBCELLULAR LOCATION: Cytoplasm, cytoskeleton {ECO:0000269|PubMed:11356191}. Nucleus {ECO:0000269|PubMed:10826496, ECO:0000269|PubMed:11356191}. Cell projection, lamellipodium {ECO:0000269|PubMed:11356191}. Note=Colocalizes with F-actin (PubMed:10826496). Colocalizes with PKN2 in lamellipodia-like structure, regions of large actin turnover (PubMed:11356191). {ECO:0000269|PubMed:10826496, ECO:0000269|PubMed:11356191}.
8244	chr14:23350226:+:AluSc>chr14:23353883:+:ENST00000267396, chr14:23350226:+:AluSc>chr14:23353883:+:ENST00000536884	3	REM2	Q8IYK8	SUBCELLULAR LOCATION: Cell membrane {ECO:0000250|UniProtKB:Q9WTY2}.

8245	chr4:3344780:+:ENST00000514268>chr4:3377116:+:(CCCCAG)n	4	RGS12	O14924	SUBCELLULAR LOCATION: Nucleus {ECO:0000269|PubMed:10869340}. Cytoplasm {ECO:0000250|UniProtKB:O08774}. Cell projection, dendrite {ECO:0000250|UniProtKB:O08774}. Cell junction, synapse {ECO:0000250|UniProtKB:O08774}.; SUBCELLULAR LOCATION: [Isoform 5]: Nucleus matrix {ECO:0000269|PubMed:12024043}. Note=Also localized to discrete nuclear foci that are distinct from sites of RNA processing, PML nuclear bodies, and PcG domains. {ECO:0000269|PubMed:12024043}.
8246	chr8:105152976:+:L2b>chr8:105160835:+:ENST00000408894	4	RIMS2	Q9UQ26	SUBCELLULAR LOCATION: Cell membrane {ECO:0000250}; Peripheral membrane protein {ECO:0000250}. Cell junction, synapse {ECO:0000250}. Cell junction, synapse, presynaptic cell membrane {ECO:0000250}; Peripheral membrane protein {ECO:0000250}.
8247	chrX:38146409:+:CT-rich>chrX:38146366:-:ENST00000318842, chrX:38146409:+:CT-rich>chrX:38146366:-:ENST00000378505, chrX:38146409:+:CT-rich>chrX:38146366:-:ENST00000482855	4	RPGR	Q92834	SUBCELLULAR LOCATION: Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:Q9R0X5}. Golgi apparatus {ECO:0000269|PubMed:15772089}. Cell projection, cilium {ECO:0000250|UniProtKB:Q9R0X5}. Note=In the retinal photoreceptor cell layer, localizes at the connecting cilium (By similarity). Colocalizes with WHRN in the photoreceptor connecting cilium (By similarity). Colocalizes with CEP290 in the photoreceptor connecting cilium (By similarity). Colocalizes with RPGRIP1 in the photoreceptor connecting cilium (By similarity). {ECO:0000250|UniProtKB:Q9R0X5}.; SUBCELLULAR LOCATION: [Isoform 6]: Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, cilium axoneme.

8248	chr19:49497180:+:ENST00000595090>chr19:49497762:+:L2a	8	RUVBL2	Q9Y230	SUBCELLULAR LOCATION: Nucleus matrix. Nucleus, nucleoplasm. Cytoplasm. Membrane. Note=Mainly localized in the nucleus, associated with nuclear matrix or in the nuclear cytosol. Although it is also present in the cytoplasm and associated with the cell membranes.
8249	chr10:29778636:-:AluJb>chr10:29777685:-:ENST00000375400	4	SVIL	O95425	SUBCELLULAR LOCATION: Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton. Cell projection, invadopodium. Cell projection, podosome. Midbody {ECO:0000250|UniProtKB:O46385}. Cleavage furrow {ECO:0000250|UniProtKB:O46385}. Note=Tightly associated with both actin filaments and plasma membranes.
8250	chr3:194340620:-:L3>chr3:194337998:-:ENST00000392432	12	TMEM44	Q2T9K0	SUBCELLULAR LOCATION: Membrane {ECO:0000305}; Multi-pass membrane protein {ECO:0000305}.
8251	chr15:81281080:-:MIR3>chr15:81274523:-:ENST00000561312	4	#N/A	P0DOX7	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8252	chr17:43880005:+:Tigger12>chr17:43884376:+:ENST00000347197, chr17:43880005:+:Tigger12>chr17:43884376:+:ENST00000352855	6	#N/A	P0DOX7	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8253	chr19:32948256:+:L4>chr19:32949006:+:ENST00000392250	7	#N/A	P0DOX7	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8254	chr2:164591413:-:ENST00000409634>chr2:164561904:-:MIR3	4	#N/A	P0DOX7	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.

8255	chr17:53344521:+:MIRb>chr17:53345112:+:ENST00000226067	4	#N/A	P0DOX7	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8256	chr1:182920453:-:ENST00000367547>chr1:182915515:-:HAL1, chr1:182920453:-:ENST00000423786>chr1:182915515:-:HAL1	4	#N/A	P0DOX7	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8257	chr19:32948256:+:L4>chr19:32949006:+:ENST00000392250, chr19:32948256:+:L4>chr19:32949006:+:ENST00000586987, chr19:32948256:+:L4>chr19:32949006:+:ENST00000588648	4	#N/A	P0DOX7	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8258	chrX:114878268:+:AluSx>chrX:114879341:+:ENST00000355899, chrX:114878268:+:AluSx>chrX:114879341:+:ENST00000497870	7	#N/A	P0DOX7	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.
8259	chr19:58288037:+:ENST00000391702>chr19:58308975:+:AluSp	3	#N/A	P0DOX7	SUBCELLULAR LOCATION: Secreted {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Cell membrane {ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}.

Despite the limitations inherent to the isobaric tagging methods, such as TMT, that cause significant label cross-talking between channels, it was confirmed that JETs were identified in more than 1 TMT group and, consequently, in more than 1 tumor sample.

Surface proteins enrichment:

It has been described that transmembrane proteins are underrepresented in total proteomics experiments because the lysis protocol used. Therefore, a second approach has been used to enrich for extracellular exposed proteins through biotin labelling in H1650 lung cell line. Two different analyses were conducted with the mass spectrometry raw file obtained from this experiment. Firstly, to understand if fusion-derived proteins (chimeric proteins) are expressed on plasma membrane from a general point of view, all junctions expressed in more than 7 cell

lines from CCLE cohort (tumor-specific and not) were analyzed in the mass spectrometry files from this experiment. provided the identification of 10 chimeric peptides, of which 6 involved a junction where amino acids from both TE and exon were found. From the junction sequences, 4 of them were related to a protein annotated in membrane compartments. The prediction of transmembrane helixes was carried out on TMHMM algorithm ((http://www.cbs.dtu.dk/) and the topology of the translated sequence was studied. Based on the predicted topology of the sequence, only those candidates where the TE was predicted to be exposed to the extracellular compartment were retained. A total amount of 10 fusion-derived peptides were identified, 6 of them overlapping the splicing site (Table 10).

Table 10:

pJET SEQ ID	chimeric_id	Peptide location on JET	Gene Name	Gene subcellular location
8260	chr15:91490144:+>chr15:91490300:+	junction	UNC45A	Nucleus
8261	chr19:49867375:+>chr19:49867839:+	junction	DKKL1	Secreted, Extracellular
8262	chr8:54994122:->chr8:54978373:-	junction	LYPLA1	Membrane, ER, Nucleus
8263	chrX:48669479:+>chrX:48672847:+	junction	HDAC6	Membrane (GO), Nucleus, Cytoskeleton
8264	chr16:718154:+>chr16:718358:+	junction	RHOT2	Mitochondria, Membrane (GO)
8265	chr8:104778647:+>chr8:104821508:+	junction	RIMS2	Membrane
8266	chr15:91490144:+>chr15:91490300:+	acceptor	UNC45A	Nucleus
8267	chr6:31153803:->chr6:31133824:-	donor	POU5F1	Cytoplasm, Nucleus
8268	chr9:123585221:->chr9:123583742:-	donor	PSMD5	Cytosol
8269	chr20:29628331:+>chr20:29652124:+	acceptor	FRG1BP	Nucleus

In addition, one peptide, involving the canonical gene product RHOT2, carrying a TE predicted to be exposed to the extracellular compartment was found. Following this analysis, it has been further shown that tumour-specific fusion derived proteins can also be identified using this

approach. Lung tumor specific JETs from lung TCGA and CCLE cohorts (as described previously) were thus used to interrogate them to the MS files. Of the 16 identified sequences, 8 of them involved a junction, with the identified amino acids originated both from a TE and a canonical gene product. According to the annotated subcellular localization of the involved canonical protein, 5 of the 16 chimeric peptides could be located in the plasma membrane while the rest of them (11) would belong to other membrane compartments or to contaminant cytosol (Table 11).

Table 11:

SEQ ID	chimeric_id_Tx	Peptide location on JET	Gene Name	Gene subcellular location
8270	chr15:91490144:+:ENST00000394275>chr15:91490300:+:AluJb	junction	UNC45A	Nucleus
8271	chr19:49867375:+:AluJb>chr19:49867839:+:ENST00000221498	junction	DKKL1	Secreted, Extracellular
8272	chr5:32357128:-:AluJb>chr5:32356045:-:ENST00000265069	junction	ZFR	Nucleus
8273	chrX:48669479:+:AluSz>chrX:48672847:+:ENST00000334136	junction	HDAC6	Membrane (GO), Nucleus, Cytoskeleton
8274	chr9:111632255:-:Tigger2>chr9:111631462:-:ENST00000374647	junction	ELP1	Cytoplasm, Nucleus
8275	chr14:45702609:-:L2a>chr14:45702023:-:ENST00000453142	junction	MIS18BP1	Nucleus
8276	chr11:77637512:-:L2c>chr11:77635938:-:ENST00000529807	junction	INTS4	Nucleus
8277	chr8:104778647:+:ENST00000406091>chr8:104821508:+:L2b	junction	RIMS2	Membrane
8278	chr13:113474264:+:ENST00000283558>chr13:113502272:+:AluJr	acceptor	ATP11A	Membrane, Endosome, ER
8279	chr9:123585221:-:AluJb>chr9:123583742:-:ENST00000210313	donor	PSMD5	Cytosol
8280	chr6:31153803:-:Harlequin-int>chr6:31133478:-:ENST00000259915	donor	POU5F1	Cytoplasm, Nucleus
8281	chr10:71900499:-:L1MC4a>chr10:71899897:-:ENST00000287078	donor	TYSND1	Peroxisome, Membrane (GO)
8282	chr4:75902022:+:L1PA10>chr4:75937635:+:ENST00000307428	donor	PARM1	MembraneEndosome, Golgi
8283	chr1:44279346:+:L4>chr1:44280563:+:ENST00000353126	donor	ST3GAL3	Secreted, Golgi membrane

8284	chrX:16819258:+:MSTB>chrX:16836697:+:ENST00000380122	donor	TXLNG	Nucleus membrane
8285	chr12:82850599:+:ENST00000248306>chr12:82868575:+:L1M7	acceptor	METTL25	

The presence of transmembrane helix domain/s was calculated according to the predicted sequence of the translated junction, using TMHMM algorithm. This resulted in two candidates of interest, involving ATP11A and PARM1 gene products.

These preliminary results reveal the presence of chimeric peptides within the surfaceome and the capability of our methodology to investigate the translated epigenetic products exposed to the cell surface. Likewise, the demonstrated applicability of our pipeline paves the path for further analysis on different cellular models, expanding the scope of our study and allowing the identification of a greater population of JETs (junctions of exon-transposable element).

Analysis of raw dataset deposited to the ProteomeXchange Consortium via the PRIDE partner repository with the data set identifier PXD016582. These analyses correspond to patient-derived organoid clones, from single tumor cells that retain heterogeneity and recapitulate the hallmarks of colorectal carcinomas. From the same patient, four tumor clones were isolated and maintained in organoid culture, alongside a normal colon organoid line generated from tumor-free colon mucosal tissue biopsied from the same patient. Tumor clones T1, T3, T4, and T5 are morphologically distinct from normal organoids of the same patient. For further details see Demmers, L.C., Kretzschmar, K., Van Hoeck, A. et al. Single-cell derived tumor organoids display diversity in HLA class I peptide presentation (see Nat Commun 11, 5338 (2020). https://doi.org/10.1038/s41467-020-19142-9).

Following the same pipeline as described previously, the following list of peptides derived from JET transcripts have been identified:

Table 12:

SEQ ID	chimeric_iD	chimeric_id_tx_orf
8286	chr9:75524323:->chr9:75520948:-	chr9:75524323:-:AluSq2>chr9:75520948:-:ENST00000297785/ORF2
8287	chr19:42225096:+>chr19:42233104:+	chr19:42225096:+:ENST00000398599>chr19:42233104:+:MER65-int/ORF1
8288	chr19:42225096:+>chr19:42233104:+	chr19:42225096:+:ENST00000221992>chr19:42233104:+:MER65-int/ORF1

8289	chr19:8047556:->chr19:8046070:-	chr19:8047556:-:L1MC3>chr19:8046070:-:ENST00000593807/ORF2
8290	chr19:8047556:->chr19:8046070:-	chr19:8047556:-:L1MC3>chr19:8046070:-:ENST00000407627/ORF2
8291	chr7:56121213:+>chr7:56122062:+	chr7:56121213:+:AluSz>chr7:56122062:+:ENST00000275603/ORF1
8292	chr15:41646513:+>chr15:41648237:+	chr15:41646513:+:AluSx>chr15:41648237:+:ENST00000260359/ORF2
8293	chr15:41643802:+>chr15:41648237:+	chr15:41643802:+:AluJb>chr15:41648237:+:ENST00000260359/ORF3
8294	chr12:53865132:+>chr12:53865422:+	chr12:53865132:+:AluSc>chr12:53865422:+:ENST00000553064/ORF1
8295	chr12:53863413:+>chr12:53865422:+	chr12:53863413:+:AluSp>chr12:53865422:+:ENST00000553064/ORF3
8296	chr12:53865132:+>chr12:53865422:+	chr12:53865132:+:AluSc>chr12:53865422:+:ENST00000359282/ORF1
8297	chr12:53863413:+>chr12:53865422:+	chr12:53863413:+:AluSp>chr12:53865422:+:ENST00000359282/ORF3
8298	chr13:100502502:+>chr13:100511115:+	chr13:100502502:+:L1MB4>chr13:100511115:+:ENST00000376355/ORF2
8299	chr22:38245070:->chr22:38236241:-	chr22:38245070:-:AluSp>chr22:38236241:-:ENST00000458278/ORF2
8300	chr22:38245070:->chr22:38236241:-	chr22:38245070:-:AluSp>chr22:38236241:-:ENST00000434930/ORF2
8301	chr22:38245070:->chr22:38236241:-	chr22:38245070:-:AluSp>chr22:38236241:-:ENST00000413497/ORF2
8302	chr22:38245070:->chr22:38236241:-	chr22:38245070:-:AluSp>chr22:38236241:-:ENST00000215941/ORF2
8303	chr2:196772498:->chr2:196771733:-	chr2:196772498:-:MIRb>chr2:196771733:-:ENST00000312428/ORF1
8304	chr11:126273381:+>chr11:126275991:+	chr11:126273381:+:MER5B>chr11:126275991:+:ENST00000534733/ORF1
8305	chr11:61558935:->chr11:61558074:-	chr11:61558935:-:AluSx3>chr11:61558074:-:ENST00000541893/ORF1
8306	chr11:61558935:->chr11:61558074:-	chr11:61558935:-:AluSx3>chr11:61558074:-:ENST00000537328/ORF1
8307	chr12:54862609:->chr12:54858951:-	chr12:54862609:-:MER5A1>chr12:54858951:-:ENST00000546931/ORF3
8308	chr8:126194498:+>chr8:126207297:+	chr8:126194498:+:ENST00000517315>chr8:126207297:+:MER5A/ORF1
8309	chr8:126194498:+>chr8:126207297:+	chr8:126194498:+:ENST00000523741>chr8:126207297:+:MER5A/ORF1
8310	chr1:24297828:->chr1:24294213:-	chr1:24297828:-:ENST00000343255>chr1:24294213:-:CR1_Mam/ORF1
8311	chr1:24297828:->chr1:24294213:-	chr1:24297828:-:ENST00000492112>chr1:24294213:-:CR1_Mam/ORF1
8312	chrX:118124523:+>chrX:118130144:+	chrX:118124523:+:ENST00000439603>chrX:118130144:+:L1PB1/ORF1

8313	chr11:27709882:->chr11:27680132:-	chr11:27709882:-:L1PA7>chr11:27680132:-:ENST00000395986/ORF3
8314	chr14:50671969:->chr14:50671127:-	chr14:50671969:-:AluJb>chr14:50671127:-:ENST00000216373/ORF3
8315	chr15:41646513:+>chr15:41648237:+	chr15:41646513:+:AluSx>chr15:41648237:+:ENST00000260359/ORF2
8316	chr15:41643802:+>chr15:41648237:+	chr15:41643802:+:AluJb>chr15:41648237:+:ENST00000260359/ORF3
8317	chr3:126167703:->chr3:126160789:-	chr3:126167703:-:LTR33A>chr3:126160789:-:ENST00000389709/ORF2
8318	chr5:147649705:+>chr5:147650360:+	chr5:147649705:+:ENST00000512953>chr5:147650360:+:MLT1D/ORF1
8319	chr3:185370866:->chr3:185369956:-	chr3:185370866:-:AluSx1>chr3:185369956:-:ENST00000382199/ORF2
8320	chr19:53646709:->chr19:53645809:-	chr19:53646709:-:L1PA4>chr19:53645809:-:ENST00000334197/ORF1
8321	chr19:53646709:->chr19:53645809:-	chr19:53646709:-:L1PA4>chr19:53645809:-:ENST00000597183/ORF1
8322	chr19:53646709:->chr19:53645809:-	chr19:53646709:-:L1PA4>chr19:53645809:-:ENST00000595967/ORF1
8323	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000554383/ORF2
8324	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000336053/ORF2
8325	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000320084/ORF2
8326	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000449098/ORF2
8327	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000555914/ORF2
8328	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000554891/ORF2
8329	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000556226/ORF2
8330	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000556142/ORF2
8331	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000555137/ORF2
8332	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000555309/ORF2
8333	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000555883/ORF2
8334	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000555176/ORF2
8335	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000557442/ORF2
8336	chr14:21699360:->chr14:21699231:-	chr14:21699360:-:AluSx3>chr14:21699231:-:ENST00000555215/ORF2
8337	chr7:27581234:->chr7:27578036:-	chr7:27581234:-:Tigger2>chr7:27578036:-:ENST00000265395/ORF2
8338	chr7:27581188:->chr7:27578036:-	chr7:27581188:-:Tigger2>chr7:27578036:-:ENST00000425715/ORF2
8339	chr7:27581188:->chr7:27578036:-	chr7:27581188:-:Tigger2>chr7:27578036:-:ENST00000265395/ORF2

8340	chr10:91522592:+>chr10:91525277:+	chr10:91522592:+:ENST00000394289>chr10:91525277:+:L1PA3/ORF1
8341	chr10:91522592:+>chr10:91525277:+	chr10:91522592:+:ENST00000416354>chr10:91525277:+:L1PA3/ORF1
8342	chr10:91522592:+>chr10:91525277:+	chr10:91522592:+:ENST00000260753>chr10:91525277:+:L1PA3/ORF1
8343	chr9:20773946:+>chr9:20778680:+	chr9:20773946:+:MER1B>chr9:20778680:+:ENST00000380249/ORF1
8344	chr13:95908378:->chr13:95900007:-	chr13:95908378:-:AluJr>chr13:95900007:-:ENST00000412704/ORF1
8345	chr12:53296405:->chr12:53295856:-	chr12:53296405:-:AluY>chr12:53295856:-:ENST00000552551/ORF3
8346	chr9:140260945:->chr9:140253058:-	chr9:140260945:-:ENST00000478344>chr9:140253058:-:HAL1/ORF1
8347	chr8:143751986:+>chr8:143762745:+	chr8:143751986:+:MLT1D-int>chr8:143762745:+:ENST00000513264/ORF2
8348	chr8:143751986:+>chr8:143762745:+	chr8:143751986:+:MLT1D-int>chr8:143762745:+:ENST00000301258/ORF2
8349	chr12:120635892:->chr12:120635265:-	chr12:120635892:-:MIR>chr12:120635265:-:ENST00000550856/ORF2
8350	chr12:120635892:->chr12:120635265:-	chr12:120635892:-:MIR>chr12:120635265:-:ENST00000392514/ORF2
8351	chr12:120635892:->chr12:120635265:-	chr12:120635892:-:MIR>chr12:120635265:-:ENST00000546990/ORF2
8352	chr12:120635892:->chr12:120635265:-	chr12:120635892:-:MIR>chr12:120635265:-:ENST00000547211/ORF2
8353	chr6:42019877:+>chr6:42023269:+	chr6:42019877:+:MIRb>chr6:42023269:+:ENST00000372978/ORF3
8354	chr6:42019877:+>chr6:42023269:+	chr6:42019877:+:MIRb>chr6:42023269:+:ENST00000472818/ORF3
8355	chr2:64327532:->chr2:64324411:-	chr2:64327532:-:ENST00000358912>chr2:64324411:-:Tigger15a/ORF1
8356	chr7:21979880:->chr7:21956512:-	chr7:21979880:-:MLT1I>chr7:21956512:-:ENST00000406877/ORF3
8357	chr1:168203452:+>chr1:168204339:+	chr1:168203452:+:AluSc>chr1:168204339:+:ENST00000271375/ORF3
8358	chr8:41520137:->chr8:41519459:-	chr8:41520137:-:L2c>chr8:41519459:-:ENST00000522231/ORF1
8359	chr8:41520137:->chr8:41519459:-	chr8:41520137:-:L2c>chr8:41519459:-:ENST00000289734/ORF1
8360	chr8:41520137:->chr8:41519459:-	chr8:41520137:-:L2c>chr8:41519459:-:ENST00000347528/ORF1
8361	chr3:45018242:+>chr3:45030632:+	chr3:45018242:+:MIRc>chr3:45030632:+:ENST00000265564/ORF2
8362	chr22:24200216:+>chr22:24200767:+	chr22:24200216:+:ENST00000436643>chr22:24200767:+:L2a/ORF1
8363	chr5:149907179:+>chr5:149907366:+	chr5:149907179:+:MIR>chr5:149907366:+:ENST00000523767/ORF3
8364	chr9:133984764:+>chr9:133986984:+	chr9:133984764:+:AluSz6>chr9:133986984:+:ENST00000372314/ORF1
8365	chr9:133984764:+>chr9:133986984:+	chr9:133984764:+:AluSz6>chr9:133986984:+:ENST00000372309/ORF1

8366	chr2:38824403:->chr2:38818790:-	chr2:38824403:-:L3>chr2:38818790:-:ENST00000449105/ORF1
8367	chr6:13699751:->chr6:13697128:-	chr6:13699751:-:Tigger4a>chr6:13697128:-:ENST00000011619/ORF3
8368	chr1:236885705:+>chr1:236889233:+	chr1:236885705:+:AluSg>chr1:236889233:+:ENST00000542672/ORF3
8369	chr1:236885705:+>chr1:236889233:+	chr1:236885705:+:AluSg>chr1:236889233:+:ENST00000366578/ORF3
8370	chr12:102569444:+>chr12:102571636:+	chr12:102569444:+:ENST00000327680>chr12:102571636:+:L2c/ORF1
8371	chr12:102569444:+>chr12:102571636:+	chr12:102569444:+:ENST00000358383>chr12:102571636:+:L2c/ORF1
8372	chr12:102569444:+>chr12:102571636:+	chr12:102569444:+:ENST00000541394>chr12:102571636:+:L2c/ORF1
8373	chr10:4884696:+>chr10:4915406:+	chr10:4884696:+:ENST00000474119>chr10:4915406:+:THE1B/ORF1
8374	chr10:4884696:+>chr10:4915406:+	chr10:4884696:+:ENST00000463345>chr10:4915406:+:THE1B/ORF1
8375	chr10:4884696:+>chr10:4915406:+	chr10:4884696:+:ENST00000532248>chr10:4915406:+:THE1B/ORF1
8376	chr10:4884696:+>chr10:4915406:+	chr10:4884696:+:ENST00000345253>chr10:4915406:+:THE1B/ORF1
8377	chr1:21925216:->chr1:21924995:-	chr1:21925216:-:L2c>chr1:21924995:-:ENST00000374761/ORF1
8378	chr12:94072848:+>chr12:94209180:+	chr12:94072848:+:ENST00000552983>chr12:94209180:+:MER20B/ORF1
8379	chr15:89430657:->chr15:89430576:-	chr15:89430657:-:L2b>chr15:89430576:-:ENST00000562889/ORF1
8380	chr2:224804247:->chr2:224782727:-	chr2:224804247:-:THE1B>chr2:224782727:-:ENST00000429915/ORF2
8381	chr2:224804247:->chr2:224782727:-	chr2:224804247:-:THE1B>chr2:224782727:-:ENST00000233055/ORF2
8382	chr12:16054613:+>chr12:16055851:+	chr12:16054613:+:AluSx1>chr12:16055851:+:ENST00000538352/ORF3
8383	chr21:45222268:+>chr21:45240407:+	chr21:45222268:+:ENST00000497547>chr21:45240407:+:MLT1C/ORF1
8384	chr15:63336351:+>chr15:63342246:+	chr15:63336351:+:ENST00000559831>chr15:63342246:+:MIR/ORF1
8385	chr15:63342340:+>chr15:63349184:+	chr15:63342340:+:MIR>chr15:63349184:+:ENST00000288398/ORF2
8386	chr15:63336351:+>chr15:63342246:+	chr15:63336351:+:ENST00000288398>chr15:63342246:+:MIR/ORF1
8387	chr15:63336351:+>chr15:63342246:+	chr15:63336351:+:ENST00000357980>chr15:63342246:+:MIR/ORF1

The second set of results comes from proteome profiles for 375 cell lines in The Cancer Cell Line Encyclopedia (CCLE) collected using TMT 10-plex reagent and SPS-MS3 acquisition. Further information about the origin and characteristics of the samples are available in the following publication: Nusinow DP, Szpyt J, Ghandi M, Rose CM, McDonald ER, Kalocsay M, Jané-Valbuena J, Gelfand E, Schweppe DK, Jedrychowski M, Golji J, Porter DA, Rejtar T,

Wang YK, Kryukov GV, Stegmeier F, Erickson BK, Garraway LA, Sellers WR, Gygi SP. Quantitative Proteomics of the Cancer Cell Line Encyclopedia.Cell. 2020 Jan 23;180(2):387-402.e16. The raw files have all been uploaded to the MassIVE repository at UCSD.

Table13:

SEQ ID	chimeric_id	chimeric_id_tx_orf
8388	chr20:34315958:->chr20:34313077:-	chr20:34315958:-:AluSx>chr20:34313077:-:ENST00000448303/ORF2
8389	chr20:34315958:->chr20:34313077:-	chr20:34315958:-:AluSx>chr20:34313077:-:ENST00000361162/ORF2
8390	chr20:34315958:->chr20:34313077:-	chr20:34315958:-:AluSx>chr20:34313077:-:ENST00000253363/ORF2
8391	chr20:34315958:->chr20:34313077:-	chr20:34315958:-:AluSx>chr20:34313077:-:ENST00000374038/ORF2
8392	chr20:34315958:->chr20:34313077:-	chr20:34315958:-:AluSx>chr20:34313077:-:ENST00000434927/ORF2
8393	chr20:34315958:->chr20:34313077:-	chr20:34315958:-:AluSx>chr20:34313077:-:ENST00000338163/ORF2
8394	chr16:21987564:+>chr16:21988399:+	chr16:21987564:+:ENST00000268379>chr16:21988399:+:AluJr/ORF1
8395	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000521986>chr8:141723228:-:Charlie1a/ORF1
8396	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000522684>chr8:141723228:-:Charlie1a/ORF1
8397	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000538769>chr8:141723228:-:Charlie1a/ORF1
8398	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000523539>chr8:141723228:-:Charlie1a/ORF1
8399	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000519465>chr8:141723228:-:Charlie1a/ORF1
8400	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000517887>chr8:141723228:-:Charlie1a/ORF1
8401	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000430260>chr8:141723228:-:Charlie1a/ORF1
8402	chr8:72942008:+>chr8:72964774:+	chr8:72942008:+:Tigger5>chr8:72964774:+:ENST00000524152/ORF1
8403	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000518415>chr8:38698832:+:MER82/ORF1
8404	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000519416>chr8:38698832:+:MER82/ORF1
8405	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000520973>chr8:38698832:+:MER82/ORF1
8406	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000317827>chr8:38698832:+:MER82/ORF1

8407	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000276520>chr8:38698832:+:MER82/ORF1
8408	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000379931>chr8:38698832:+:MER82/ORF1
8409	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000443286>chr8:38698832:+:MER82/ORF1
8410	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000520611>chr8:38698832:+:MER82/ORF1
8411	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000348567>chr8:38698832:+:MER82/ORF1
8412	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000520615>chr8:38698832:+:MER82/ORF1
8413	chr8:38697785:+>chr8:38698832:+	chr8:38697785:+:ENST00000330691>chr8:38698832:+:MER82/ORF1
8414	chr2:153400699:+>chr2:153405535:+	chr2:153400699:+:AluSq2>chr2:153405535:+:ENST00000288670/ORF1
8415	chr16:29912241:+>chr16:29912873:+	chr16:29912241:+:G-rich>chr16:29912873:+:ENST00000308748/ORF2
8416	chr2:99224656:->chr2:99220650:-	chr2:99224656:-:MIRb>chr2:99220650:-:ENST00000409997/ORF1
8417	chr2:99224656:->chr2:99220650:-	chr2:99224656:-:MIRb>chr2:99220650:-:ENST00000328709/ORF1
8418	chr18:244302:->chr18:226901:-	chr18:244302:-:L1MEg>chr18:226901:-:ENST00000579891/ORF3
8419	chr18:244302:->chr18:226901:-	chr18:244302:-:L1MEg>chr18:226901:-:ENST00000261600/ORF3
8420	chr12:110005159:->chr12:110002981:-	chr12:110005159:-:MIRb>chr12:110002981:-:ENST00000537496/ORF3
8421	chr12:110005159:->chr12:110004972:-	chr12:110005159:-:MIRb>chr12:110004972:-:ENST00000503497/ORF3
8422	chr12:110005159:->chr12:110002981:-	chr12:110005159:-:MIRb>chr12:110002981:-:ENST00000545712/ORF3
8423	chr12:7125578:->chr12:7120720:-	chr12:7125578:-:ENST00000535479>chr12:7120720:-:L2b/ORF1
8424	chr15:49600974:+>chr15:49611801:+	chr15:49600974:+:L3>chr15:49611801:+:ENST00000327171/ORF3
8425	chr21:43290029:->chr21:43280481:-	chr21:43290029:-:L1MD1>chr21:43280481:-:ENST00000398548/ORF2
8426	chr6:17837109:->chr6:17835895:-	chr6:17837109:-:ENST00000378816>chr6:17835895:-:L2c/ORF1
8427	chr6:17837109:->chr6:17835895:-	chr6:17837109:-:ENST00000378814>chr6:17835895:-:L2c/ORF1
8428	chr3:185370866:->chr3:185369956:-	chr3:185370866:-:AluSx1>chr3:185369956:-:ENST00000382199/ORF2
8429	chr1:64036799:+>chr1:64048982:+	chr1:64036799:+:ENST00000371088>chr1:64048982:+:Tigger2/ORF1
8430	chr13:44432917:->chr13:44413224:-	chr13:44432917:-:ENST00000444614>chr13:44413224:-:LTR35B/ORF1
8431	chr22:42085308:+>chr22:42089467:+	chr22:42085308:+:AluSx1>chr22:42089467:+:ENST00000402966/ORF1
8432	chr4:2886393:+>chr4:2888303:+	chr4:2886393:+:ENST00000264758>chr4:2888303:+:L2a/ORF1

8433	chr15:79649214:+>chr15:79703742:+	chr15:79649214:+:L1ME4a>chr15:79703742:+:ENST00000424155/ORF2
8434	chr1:22263648:->chr1:22224962:-	chr1:22263648:-:ENST00000374695>chr1:22224962:-:MER5A/ORF1
8435	chr8:72942008:+>chr8:72964774:+	chr8:72942008:+:Tigger5>chr8:72964774:+:ENST00000524152/ORF1
8436	chrX:57620887:+>chrX:57667223:+	chrX:57620887:+:ENST00000374888>chrX:57667223:+:THE1A-int/ORF1
8437	chr1:36637320:+>chr1:36638065:+	chr1:36637320:+:AluSp>chr1:36638065:+:ENST00000429533/ORF3
8438	chr1:36637320:+>chr1:36638065:+	chr1:36637320:+:AluSp>chr1:36638065:+:ENST00000530729/ORF3
8439	chr6:147981955:+>chr6:148058453:+	chr6:147981955:+:MSTA>chr6:148058453:+:ENST00000566741/ORF3
8440	chr17:43475315:->chr17:43474814:-	chr17:43475315:-:ENST00000532891>chr17:43474814:-:L3/ORF1
8441	chr17:43475315:->chr17:43474814:-	chr17:43475315:-:ENST00000528384>chr17:43474814:-:L3/ORF1
8442	chr17:43475315:->chr17:43474814:-	chr17:43475315:-:ENST00000532038>chr17:43474814:-:L3/ORF1
8443	chr17:43475315:->chr17:43474814:-	chr17:43475315:-:ENST00000428638>chr17:43474814:-:L3/ORF1
8444	chr17:43475315:->chr17:43474814:-	chr17:43475315:-:ENST00000376922>chr17:43474814:-:L3/ORF1
8445	chr17:43475315:->chr17:43474814:-	chr17:43475315:-:ENST00000442348>chr17:43474814:-:L3/ORF1
8446	chr3:128828867:->chr3:128814012:-	chr3:128828867:-:AluJo>chr3:128814012:-:ENST00000418265/ORF3
8447	chr3:128828867:->chr3:128814012:-	chr3:128828867:-:AluJo>chr3:128814012:-:ENST00000315150/ORF3
8448	chr3:128828867:->chr3:128814012:-	chr3:128828867:-:AluJo>chr3:128814012:-:ENST00000476465/ORF3
8449	chr3:128828867:->chr3:128814012:-	chr3:128828867:-:AluJo>chr3:128814012:-:ENST00000457077/ORF3
8450	chr20:42212014:+>chr20:42213492:+	chr20:42212014:+:MIRc>chr20:42213492:+:ENST00000373100/ORF1
8451	chr7:107256834:+>chr7:107258773:+	chr7:107256834:+:LTR33A>chr7:107258773:+:ENST00000445771/ORF3
8452	chr7:107256834:+>chr7:107258773:+	chr7:107256834:+:LTR33A>chr7:107258773:+:ENST00000005259/ORF3
8453	chr6:17835789:->chr6:17834302:-	chr6:17835789:-:MIR>chr6:17834302:-:ENST00000378843/ORF1
8454	chr6:17835789:->chr6:17834302:-	chr6:17835789:-:MIR>chr6:17834302:-:ENST00000378826/ORF1
8455	chr6:17835789:->chr6:17834302:-	chr6:17835789:-:MIR>chr6:17834302:-:ENST00000378814/ORF1
8456	chr6:17835789:->chr6:17834302:-	chr6:17835789:-:MIR>chr6:17834302:-:ENST00000259711/ORF1
8457	chr9:128421519:->chr9:128420078:-	chr9:128421519:-:MIR>chr9:128420078:-:ENST00000373498/ORF1
8458	chr9:128421519:->chr9:128420078:-	chr9:128421519:-:MIR>chr9:128420078:-:ENST00000350766/ORF1

8459	chr9:128421519:->chr9:128420078:-	chr9:128421519:-:MIR>chr9:128420078:-:ENST00000373496/ORF1
8460	chr9:128421519:->chr9:128420078:-	chr9:128421519:-:MIR>chr9:128420078:-:ENST00000373511/ORF1
8461	chr9:128421519:->chr9:128420078:-	chr9:128421519:-:MIR>chr9:128420078:-:ENST00000394060/ORF1
8462	chr6:74228940:->chr6:74213929:-	chr6:74228940:-:ENST00000316292>chr6:74213929:-:AluJb/ORF1
8463	chr12:44164907:+>chr12:44165023:+	chr12:44164907:+:MSTD>chr12:44165023:+:ENST00000550616/ORF1
8464	chr12:112149997:+>chr12:112150302:+	chr12:112149997:+:LTR10C>chr12:112150302:+:ENST00000552706/ORF3
8465	chr12:112149997:+>chr12:112150302:+	chr12:112149997:+:LTR10C>chr12:112150302:+:ENST00000455480/ORF3
8466	chr12:112149997:+>chr12:112150302:+	chr12:112149997:+:LTR10C>chr12:112150302:+:ENST00000549590/ORF3
8467	chr2:238991995:+>chr2:238992535:+	chr2:238991995:+:ENST00000433750>chr2:238992535:+:L1MDa/ORF1
8468	chr16:89607754:+>chr16:89611056:+	chr16:89607754:+:L1MD2>chr16:89611056:+:ENST00000268704/ORF3
8469	chr7:72720556:->chr7:72719094:-	chr7:72720556:-:L2c>chr7:72719094:-:ENST00000438747/ORF1
8470	chr7:72720556:->chr7:72719094:-	chr7:72720556:-:L2c>chr7:72719094:-:ENST00000455763/ORF1
8471	chr7:72720556:->chr7:72719094:-	chr7:72720556:-:L2c>chr7:72719094:-:ENST00000310326/ORF1
8472	chr7:72720556:->chr7:72719094:-	chr7:72720556:-:L2c>chr7:72719094:-:ENST00000428206/ORF1
8473	chr3:15058779:+>chr3:15062260:+	chr3:15058779:+:L2c>chr3:15062260:+:ENST00000425241/ORF3
8474	chr22:32787416:->chr22:32784086:-	chr22:32787416:-:AluSx1>chr22:32784086:-:ENST00000216038/ORF3
8475	chr3:40555431:+>chr3:40557351:+	chr3:40555431:+:LTR13>chr3:40557351:+:ENST00000420891/ORF3
8476	chr9:116123017:+>chr9:116123330:+	chr9:116123017:+:ENST00000374183>chr9:116123330:+:MER31A/ORF1
8477	chr18:8708134:+>chr18:8718422:+	chr18:8708134:+:L2c>chr18:8718422:+:ENST00000306329/ORF3
8478	chr7:102421195:+>chr7:102427782:+	chr7:102421195:+:L1PA4>chr7:102427782:+:ENST00000409231/ORF2
8479	chr17:42188097:->chr17:42182463:-	chr17:42188097:-:ENST00000588703>chr17:42182463:-:MIR3/ORF1
8480	chr17:42188097:->chr17:42182463:-	chr17:42188097:-:ENST00000393622>chr17:42182463:-:MIR3/ORF1
8481	chr17:42188097:->chr17:42182463:-	chr17:42188097:-:ENST00000591714>chr17:42182463:-:MIR3/ORF1
8482	chr17:42188097:->chr17:42182463:-	chr17:42188097:-:ENST00000225983>chr17:42182463:-:MIR3/ORF1
8483	chr3:101520833:+>chr3:101524929:+	chr3:101520833:+:ENST00000273347>chr3:101524929:+:L2a/ORF1

8484	chr16:4667729:+>chr16:4700366:+	chr16:4667729:+:AluJb>chr16:4700366:+:ENST00000262370/ORF3
8485	chr19:1045618:+>chr19:1046229:+	chr19:1045618:+:AluJb>chr19:1046229:+:ENST00000263094/ORF2
8486	chr5:94876747:->chr5:94876534:-	chr5:94876747:-:AluSp>chr5:94876534:-:ENST00000358746/ORF2
8487	chr5:94876747:->chr5:94876534:-	chr5:94876747:-:AluSp>chr5:94876534:-:ENST00000514952/ORF2
8488	chrX:138072670:->chrX:137791090:-	chrX:138072670:-:THE1B>chrX:137791090:-:ENST00000315930/ORF2
8489	chr18:74574245:+>chr18:74580641:+	chr18:74574245:+:L1MDa>chr18:74580641:+:ENST00000543926/ORF2
8490	chr18:74574245:+>chr18:74580641:+	chr18:74574245:+:L1MDa>chr18:74580641:+:ENST00000320610/ORF2
8491	chr18:74574245:+>chr18:74580641:+	chr18:74574245:+:L1MDa>chr18:74580641:+:ENST00000579322/ORF2
8492	chr10:90707015:->chr10:90706810:-	chr10:90707015:-:ENST00000224784>chr10:90706810:-:L1PA4/ORF1
8493	chr17:40046175:->chr17:40043956:-	chr17:40046175:-:AluSq2>chr17:40043956:-:ENST00000352035/ORF3
8494	chr19:20025631:+>chr19:20026089:+	chr19:20025631:+:MER5A1>chr19:20026089:+:ENST00000591366/ORF1
8495	chr19:20025631:+>chr19:20026089:+	chr19:20025631:+:MER5A1>chr19:20026089:+:ENST00000592160/ORF1
8496	chr19:20025631:+>chr19:20026089:+	chr19:20025631:+:MER5A1>chr19:20026089:+:ENST00000586021/ORF1
8497	chr19:20025631:+>chr19:20026089:+	chr19:20025631:+:MER5A1>chr19:20026089:+:ENST00000343769/ORF1
8498	chr13:45576476:+>chr13:45578440:+	chr13:45576476:+:7SLRNA>chr13:45578440:+:ENST00000379151/ORF3
8499	chr16:90158141:->chr16:90141431:-	chr16:90158141:-:THE1B>chr16:90141431:-:ENST00000449207/ORF2
8500	chr19:54502735:+>chr19:54515205:+	chr19:54502735:+:MIR3>chr19:54515205:+:ENST00000352529/ORF3
8501	chr3:93715528:+>chr3:93716091:+	chr3:93715528:+:ENST00000475206>chr3:93716091:+:MER1A/ORF1
8502	chr3:93715528:+>chr3:93716091:+	chr3:93715528:+:ENST00000478400>chr3:93716091:+:MER1A/ORF1
8503	chr3:93715528:+>chr3:93716091:+	chr3:93715528:+:ENST00000335438>chr3:93716091:+:MER1A/ORF1
8504	chr15:79168112:+>chr15:79170555:+	chr15:79168112:+:AluSx1>chr15:79170555:+:ENST00000331268/ORF1
8505	chr15:79168112:+>chr15:79170555:+	chr15:79168112:+:AluSx1>chr15:79170555:+:ENST00000558746/ORF1
8506	chr15:79168112:+>chr15:79170555:+	chr15:79168112:+:AluSx1>chr15:79170555:+:ENST00000560422/ORF1
8507	chr15:79168112:+>chr15:79170555:+	chr15:79168112:+:AluSx1>chr15:79170555:+:ENST00000379535/ORF1
8508	chr11:44960717:->chr11:44959917:-	chr11:44960717:-:L2b>chr11:44959917:-:ENST00000525138/ORF3
8509	chr14:97307963:+>chr14:97312432:+	chr14:97307963:+:AluSx>chr14:97312432:+:ENST00000216639/ORF1

8510	chr10:6010739:->chr10:6008302:-	chr10:6010739:-:L1MCc>chr10:6008302:-:ENST00000379977/ORF2
8511	chr7:44883388:->chr7:44882953:-	chr7:44883388:-:AluSz>chr7:44882953:-:ENST00000349299/ORF3
8512	chr7:44883388:->chr7:44882953:-	chr7:44883388:-:AluSz>chr7:44882953:-:ENST00000446531/ORF3
8513	chr7:44883388:->chr7:44882953:-	chr7:44883388:-:AluSz>chr7:44882953:-:ENST00000437072/ORF3
8514	chr7:44883388:->chr7:44882953:-	chr7:44883388:-:AluSz>chr7:44882953:-:ENST00000222690/ORF3
8515	chr7:44883388:->chr7:44882953:-	chr7:44883388:-:AluSz>chr7:44882953:-:ENST00000308153/ORF3
8516	chr7:44883388:->chr7:44882953:-	chr7:44883388:-:AluSz>chr7:44882953:-:ENST00000381124/ORF3
8517	chr9:130924301:+>chr9:130925722:+	chr9:130924301:+:MIR3>chr9:130925722:+:ENST00000372994/ORF2
8518	chr9:15506559:->chr9:15492223:-	chr9:15506559:-:ENST00000380738>chr9:15492223:-:THE1D-int/ORF1
8519	chr17:78263365:+>chr17:78263458:+	chr17:78263365:+:AluSq>chr17:78263458:+:ENST00000456466/ORF2
8520	chr17:78263365:+>chr17:78263458:+	chr17:78263365:+:AluSq>chr17:78263458:+:ENST00000319921/ORF2
8521	chr17:78263365:+>chr17:78263458:+	chr17:78263365:+:AluSq>chr17:78263458:+:ENST00000508628/ORF2
8522	chr8:103282996:->chr8:103282411:-	chr8:103282996:-:AluSx>chr8:103282411:-:ENST00000520539/ORF1
8523	chr1:53346501:+>chr1:53347143:+	chr1:53346501:+:MLT1E1A>chr1:53347143:+:ENST00000371532/ORF1
8524	chr3:185370866:->chr3:185369956:-	chr3:185370866:-:AluSx1>chr3:185369956:-:ENST00000382199/ORF3
8525	chr11:64643083:->chr11:64641990:-	chr11:64643083:-:MamSINE1>chr11:64641990:-:ENST00000411683/ORF1
8526	chr2:99224660:->chr2:99220654:-	chr2:99224660:-:MIRb>chr2:99220654:-:ENST00000409997/ORF1
8527	chr2:99224660:->chr2:99220654:-	chr2:99224660:-:MIRb>chr2:99220654:-:ENST00000328709/ORF1
8528	chr5:113769590:+>chr5:113798746:+	chr5:113769590:+:LTR12C>chr5:113798746:+:ENST00000512097/ORF1
8529	chr20:44442103:+>chr20:44442603:+	chr20:44442103:+:ENST00000405520>chr20:44442603:+:AluSz6/ORF1
8530	chr17:17735071:->chr17:17723835:-	chr17:17735071:-:MIR3>chr17:17723835:-:ENST00000338854/ORF2
8531	chr12:63961380:->chr12:63954442:-	chr12:63961380:-:L1ME1>chr12:63954442:-:ENST00000324472/ORF3
8532	chr17:76700853:->chr17:76698686:-	chr17:76700853:-:AluJr4>chr17:76698686:-:ENST00000591455/ORF1
8533	chr2:99224633:->chr2:99220654:-	chr2:99224633:-:MIRb>chr2:99220654:-:ENST00000328709/ORF1
8534	chr2:99224633:->chr2:99220654:-	chr2:99224633:-:MIRb>chr2:99220654:-:ENST00000409997/ORF1
8535	chr10:28824988:+>chr10:28872328:+	chr10:28824988:+:AluSx1>chr10:28872328:+:ENST00000375664/ORF1

8536	chr10:28824988:+>chr10:28872328:+	chr10:28824988:+:AluSx1>chr10:28872328:+:ENST00000448193/ORF1
8537	chr17:46134864:+>chr17:46165707:+	chr17:46134864:+:ENST00000583210>chr17:46165707:+:AluSg/ORF1
8538	chr9:116859581:->chr9:116858787:-	chr9:116859581:-:ENST00000468460>chr9:116858787:-:L2c/ORF1
8539	chr16:82201145:->chr16:82197799:-	chr16:82201145:-:MER1A>chr16:82197799:-:ENST00000258169/ORF3
8540	chr1:116206078:+>chr1:116206282:+	chr1:116206078:+:Tigger15a>chr1:116206282:+:ENST00000355485/ORF2
8541	chr12:72301769:+>chr12:72307606:+	chr12:72301769:+:AluSx>chr12:72307606:+:ENST00000550746/ORF3
8542	chr3:149581921:+>chr3:149589816:+	chr3:149581921:+:MSTB1>chr3:149589816:+:ENST00000470151/ORF2
8543	chr8:128749923:+>chr8:128750494:+	chr8:128749923:+:G-rich>chr8:128750494:+:ENST00000377970/ORF3
8544	chr2:37520065:->chr2:37518142:-	chr2:37520065:-:AluJb>chr2:37518142:-:ENST00000443187/ORF2
8545	chr2:37520065:->chr2:37518142:-	chr2:37520065:-:AluJb>chr2:37518142:-:ENST00000379066/ORF2
8546	chr5:179238682:+>chr5:179250858:+	chr5:179238682:+:MER61-int>chr5:179250858:+:ENST00000376929/ORF2
8547	chr5:1475076:->chr5:1474800:-	chr5:1475076:-:Tigger1>chr5:1474800:-:ENST00000475622/ORF2
8548	chr12:22831248:+>chr12:22837417:+	chr12:22831248:+:L2>chr12:22837417:+:ENST00000538218/ORF2
8549	chr5:145153908:->chr5:145144563:-	chr5:145153908:-:MIRb>chr5:145144563:-:ENST00000334744/ORF2
8550	chr20:49307663:->chr20:49307455:-	chr20:49307663:-:ENST00000535356>chr20:49307455:-:MIR3/ORF1
8551	chr10:102711867:+>chr10:102716208:+	chr10:102711867:+:AluSz>chr10:102716208:+:ENST00000238961/ORF1
8552	chr9:119602892:->chr9:119583062:-	chr9:119602892:-:SVA_D>chr9:119583062:-:ENST00000373996/ORF1
8553	chr2:113956803:+>chr2:113966557:+	chr2:113956803:+:ENST00000245796>chr2:113966557:+:L4/ORF1
8554	chr2:113956803:+>chr2:113966557:+	chr2:113956803:+:ENST00000441564>chr2:113966557:+:L4/ORF1
8555	chr6:18260552:->chr6:18258636:-	chr6:18260552:-:MER2>chr6:18258636:-:ENST00000397239/ORF2
8556	chr6:18260552:->chr6:18258636:-	chr6:18260552:-:MER2>chr6:18258636:-:ENST00000515742/ORF2
8557	chr6:18260552:->chr6:18258636:-	chr6:18260552:-:MER2>chr6:18258636:-:ENST00000505224/ORF2
8558	chr22:31947110:+>chr22:31952928:+	chr22:31947110:+:L2>chr22:31952928:+:ENST00000540643/ORF3
8559	chr22:31947110:+>chr22:31952928:+	chr22:31947110:+:L2>chr22:31952928:+:ENST00000524296/ORF3
8560	chr22:31947110:+>chr22:31952928:+	chr22:31947110:+:L2>chr22:31952928:+:ENST00000450787/ORF3
8561	chr22:31947110:+>chr22:31952928:+	chr22:31947110:+:L2>chr22:31952928:+:ENST00000443326/ORF3

8562	chr17:62609987:->chr17:62602758:-	chr17:62609987:-:MER1A>chr17:62602758:-:ENST00000578386/ORF3
8563	chr17:45356073:+>chr17:45360720:+	chr17:45356073:+:MER1B>chr17:45360720:+:ENST00000435993/ORF2
8564	chr17:45356073:+>chr17:45360720:+	chr17:45356073:+:MER1B>chr17:45360720:+:ENST00000571680/ORF2
8565	chr17:45356073:+>chr17:45360720:+	chr17:45356073:+:MER1B>chr17:45360720:+:ENST00000559488/ORF2
8566	chr17:47441711:+>chr17:47450375:+	chr17:47441711:+:MSTD>chr17:47450375:+:ENST00000576461/ORF3
8567	chr6:100379769:->chr6:100369131:-	chr6:100379769:-:L1PA3>chr6:100369131:-:ENST00000281806/ORF3
8568	chr3:136005373:+>chr3:136012598:+	chr3:136005373:+:L2>chr3:136012598:+:ENST00000251654/ORF3
8569	chr12:42795298:+>chr12:42835117:+	chr12:42795298:+:MER1B>chr12:42835117:+:ENST00000549190/ORF1
8570	chr17:38177572:->chr17:38176606:-	chr17:38177572:-:MIRb>chr17:38176606:-:ENST00000394126/ORF1
8571	chr17:38177572:->chr17:38176606:-	chr17:38177572:-:MIRb>chr17:38176606:-:ENST00000491466/ORF1
8572	chr16:29692733:+>chr16:29705985:+	chr16:29692733:+:Charlie4z>chr16:29705985:+:ENST00000449759/ORF2
8573	chr16:29692733:+>chr16:29705985:+	chr16:29692733:+:Charlie4z>chr16:29705985:+:ENST00000562473/ORF2
8574	chr16:29692733:+>chr16:29705985:+	chr16:29692733:+:Charlie4z>chr16:29705985:+:ENST00000395384/ORF2
8575	chr12:110470515:+>chr12:110471602:+	chr12:110470515:+:L1ME3D>chr12:110471602:+:ENST00000261739/ORF2
8576	chr11:74830434:+>chr11:74873700:+	chr11:74830434:+:L1PA4>chr11:74873700:+:ENST00000289575/ORF3
8577	chr8:74872000:->chr8:74871067:-	chr8:74872000:-:ENST00000602840>chr8:74871067:-:Tigger3b/ORF1
8578	chr1:51218110:->chr1:51210447:-	chr1:51218110:-:L1MEc>chr1:51210447:-:ENST00000396153/ORF2
8579	chr7:99674926:->chr7:99674180:-	chr7:99674926:-:ENST00000413658>chr7:99674180:-:AluSc8/ORF1
8580	chr18:12635061:->chr18:12628847:-	chr18:12635061:-:ENST00000309836>chr18:12628847:-:L1PA6/ORF1
8581	chr7:121018964:->chr7:121018536:-	chr7:121018964:-:ENST00000426156>chr7:121018536:-:FRAM/ORF1
8582	chr12:95596369:->chr12:95566520:-	chr12:95596369:-:FLAM_C>chr12:95566520:-:ENST00000343958/ORF3
8583	chr6:30629093:->chr6:30628019:-	chr6:30629093:-:AluY>chr6:30628019:-:ENST00000376437/ORF2
8584	chr5:68551355:+>chr5:68551980:+	chr5:68551355:+:ENST00000506563>chr5:68551980:+:AluJo/ORF1
8585	chr18:19147325:->chr18:19146167:-	chr18:19147325:-:AluSz>chr18:19146167:-:ENST00000269214/ORF3
8586	chr6:17835789:->chr6:17834302:-	chr6:17835789:-:MIR>chr6:17834302:-:ENST00000378843/ORF1

8587	chr6:17835789:->chr6:17834302:-	chr6:17835789:-:MIR>chr6:17834302:-:ENST00000378826/ORF1
8588	chr6:17835789:->chr6:17834302:-	chr6:17835789:-:MIR>chr6:17834302:-:ENST00000378814/ORF1
8589	chr6:17835789:->chr6:17834302:-	chr6:17835789:-:MIR>chr6:17834302:-:ENST00000259711/ORF1
8590	chr4:102117073:->chr4:102104428:-	chr4:102117073:-:ENST00000512215>chr4:102104428:-:MLT1J/ORF1
8591	chr4:102117073:->chr4:102104428:-	chr4:102117073:-:ENST00000529324>chr4:102104428:-:MLT1J/ORF1
8592	chr10:1100108:->chr10:1090111:-	chr10:1100108:-:Tigger1>chr10:1090111:-:ENST00000381344/ORF1
8593	chr9:97177535:+>chr9:97179629:+	chr9:97177535:+:ENST00000428393>chr9:97179629:+:AluSp/ORF1
8594	chr2:131824664:->chr2:131813268:-	chr2:131824664:-:THE1B>chr2:131813268:-:ENST00000409185/ORF3
8595	chr2:131840150:->chr2:131829742:-	chr2:131840150:-:ENST00000409185>chr2:131829742:-:AluSq2/ORF1
8596	chr14:71471132:+>chr14:71476351:+	chr14:71471132:+:MER1B>chr14:71476351:+:ENST00000238570/ORF3
8597	chr16:2115231:+>chr16:2115520:+	chr16:2115231:+:AluY>chr16:2115520:+:ENST00000401874/ORF1
8598	chr16:2115231:+>chr16:2115520:+	chr16:2115231:+:AluY>chr16:2115520:+:ENST00000382538/ORF1
8599	chr16:2115231:+>chr16:2115520:+	chr16:2115231:+:AluY>chr16:2115520:+:ENST00000219476/ORF1
8600	chr16:2115231:+>chr16:2115520:+	chr16:2115231:+:AluY>chr16:2115520:+:ENST00000353929/ORF1
8601	chr16:2115231:+>chr16:2115520:+	chr16:2115231:+:AluY>chr16:2115520:+:ENST00000350773/ORF1
8602	chr14:105335983:+>chr14:105342593:+	chr14:105335983:+:MLT1A1>chr14:105342593:+:ENST00000453495/ORF1
8603	chr6:34511797:->chr6:34511385:-	chr6:34511797:-:ENST00000374037>chr6:34511385:-:L2a/ORF1
8604	chr19:53119971:->chr19:53097557:-	chr19:53119971:-:ENST00000596930>chr19:53097557:-:SVA_D/ORF1
8605	chr6:3432328:->chr6:3416089:-	chr6:3432328:-:MIRc>chr6:3416089:-:ENST00000436008/ORF3
8606	chr12:69249761:->chr12:69236109:-	chr12:69249761:-:AluSx1>chr12:69236109:-:ENST00000551897/ORF3
8607	chr3:10160654:+>chr3:10167310:+	chr3:10160654:+:Tigger2>chr3:10167310:+:ENST00000530758/ORF2
8608	chr3:10160654:+>chr3:10167310:+	chr3:10160654:+:Tigger2>chr3:10167310:+:ENST00000256463/ORF2
8609	chr13:113897987:+>chr13:113898724:+	chr13:113897987:+:L1MC5>chr13:113898724:+:ENST00000375441/ORF2
8610	chr17:1003877:->chr17:1001199:-	chr17:1003877:-:ENST00000302538>chr17:1001199:-:MIRc/ORF1
8611	chr17:1003877:->chr17:1001199:-	chr17:1003877:-:ENST00000570441>chr17:1001199:-:MIRc/ORF1

8612	chr17:1003877:->chr17:1001199:-	chr17:1003877:-:ENST00000544583>chr17:1001199:-:MIRc/ORF1
8613	chr17:1003877:->chr17:1001199:-	chr17:1003877:-:ENST00000291107>chr17:1001199:-:MIRc/ORF1
8614	chr1:222838358:+>chr1:222838651:+	chr1:222838358:+:AluJb>chr1:222838651:+:ENST00000344922/ORF2
8615	chr17:25958330:+>chr17:25965125:+	chr17:25958330:+:ENST00000310394>chr17:25965125:+:L2a/ORF1
8616	chr1:193028315:->chr1:193022970:-	chr1:193028315:-:ENST00000367455>chr1:193022970:-:L2c/ORF1
8617	chr1:193028315:->chr1:193022970:-	chr1:193028315:-:ENST00000367450>chr1:193022970:-:L2c/ORF1
8618	chr5:132253438:->chr5:132240096:-	chr5:132253438:-:AluSx>chr5:132240096:-:ENST00000425658/ORF3
8619	chr5:132253438:->chr5:132240096:-	chr5:132253438:-:AluSx>chr5:132240096:-:ENST00000378595/ORF3
8620	chr5:132253438:->chr5:132240096:-	chr5:132253438:-:AluSx>chr5:132240096:-:ENST00000265343/ORF3
8621	chr13:41835827:->chr13:41835011:-	chr13:41835827:-:MIR3>chr13:41835011:-:ENST00000379480/ORF1
8622	chr1:97187663:+>chr1:97189120:+	chr1:97187663:+:G-rich>chr1:97189120:+:ENST00000609116/ORF3
8623	chr22:46193106:+>chr22:46202839:+	chr22:46193106:+:L1ME1>chr22:46202839:+:ENST00000381061/ORF1
8624	chr7:56052571:+>chr7:56059164:+	chr7:56052571:+:ENST00000446778>chr7:56059164:+:AluSp/ORF1
8625	chr7:56052571:+>chr7:56059164:+	chr7:56052571:+:ENST00000322090>chr7:56059164:+:AluSp/ORF1
8626	chr7:56052571:+>chr7:56059164:+	chr7:56052571:+:ENST00000437587>chr7:56059164:+:AluSp/ORF1
8627	chr6:129786434:+>chr6:129788349:+	chr6:129786434:+:ENST00000421865>chr6:129788349:+:L1PA17/ORF1
8628	chr2:43779972:->chr2:43779478:-	chr2:43779972:-:L1MB8>chr2:43779478:-:ENST00000330266/ORF3
8629	chr12:86274547:+>chr12:86276001:+	chr12:86274547:+:AluY>chr12:86276001:+:ENST00000551529/ORF1
8630	chr7:116555100:+>chr7:116556114:+	chr7:116555100:+:AluSz6>chr7:116556114:+:ENST00000361183/ORF3
8631	chr3:12604393:+>chr3:12610374:+	chr3:12604393:+:MER1A>chr3:12610374:+:ENST00000448482/ORF2
8632	chr3:12604393:+>chr3:12610374:+	chr3:12604393:+:MER1A>chr3:12610374:+:ENST00000170447/ORF2
8633	chr2:201751637:->chr2:201750495:-	chr2:201751637:-:AluJo>chr2:201750495:-:ENST00000286175/ORF3
8634	chr7:75083158:->chr7:75070925:-	chr7:75083158:-:MLT1G1>chr7:75070925:-:ENST00000257665/ORF2
8635	chr20:1532337:->chr20:1530245:-	chr20:1532337:-:ENST00000381621>chr20:1530245:-:L1MB7/ORF1
8636	chr12:79996543:->chr12:79990438:-	chr12:79996543:-:AluJo>chr12:79990438:-:ENST00000328827/ORF3
8637	chr1:6531548:->chr1:6531300:-	chr1:6531548:-:ENST00000377748>chr1:6531300:-:MIRb/ORF1

8638	chr1:6531548:->chr1:6531300:-	chr1:6531548:-:ENST00000400915>chr1:6531300:-:MIRb/ORF1
8639	chr1:6531548:->chr1:6531300:-	chr1:6531548:-:ENST00000535355>chr1:6531300:-:MIRb/ORF1
8640	chr1:6531548:->chr1:6531300:-	chr1:6531548:-:ENST00000377732>chr1:6531300:-:MIRb/ORF1
8641	chr1:6531548:->chr1:6531300:-	chr1:6531548:-:ENST00000537245>chr1:6531300:-:MIRb/ORF1
8642	chr1:6531548:->chr1:6531300:-	chr1:6531548:-:ENST00000400913>chr1:6531300:-:MIRb/ORF1
8643	chr2:37490123:->chr2:37487527:-	chr2:37490123:-:L1M5>chr2:37487527:-:ENST00000443977/ORF3
8644	chr5:175504713:+>chr5:175516466:+	chr5:175504713:+:AluY>chr5:175516466:+:ENST00000253490/ORF3
8645	chr5:177450333:+>chr5:177462097:+	chr5:177450333:+:AluY>chr5:177462097:+:ENST00000511856/ORF3
8646	chr5:177187438:->chr5:177175700:-	chr5:177187438:-:AluY>chr5:177175700:-:ENST00000504518/ORF3
8647	chr5:177450333:+>chr5:177462097:+	chr5:177450333:+:AluY>chr5:177462097:+:ENST00000511189/ORF3
8648	chr20:32888526:->chr20:32883391:-	chr20:32888526:-:L2b>chr20:32883391:-:ENST00000217426/ORF1
8649	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000521986>chr8:141723228:-:Charlie1a/ORF1
8650	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000522684>chr8:141723228:-:Charlie1a/ORF1
8651	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000538769>chr8:141723228:-:Charlie1a/ORF1
8652	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000523539>chr8:141723228:-:Charlie1a/ORF1
8653	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000519465>chr8:141723228:-:Charlie1a/ORF1
8654	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000517887>chr8:141723228:-:Charlie1a/ORF1
8655	chr8:141727697:->chr8:141723228:-	chr8:141727697:-:ENST00000430260>chr8:141723228:-:Charlie1a/ORF1
8656	chr6:31150660:->chr6:31133824:-	chr6:31150660:-:Harlequin-int>chr6:31133824:-:ENST00000259915/ORF2
8657	chr20:17550856:+>chr20:17565018:+	chr20:17550856:+:ENST00000246069>chr20:17565018:+:AluSp/ORF1
8658	chr2:98263129:+>chr2:98263530:+	chr2:98263129:+:AluSq2>chr2:98263530:+:ENST00000258424/ORF3
8659	chr8:66633382:->chr8:66631730:-	chr8:66633382:-:L3>chr8:66631730:-:ENST00000401827/ORF3
8660	chr20:32888526:->chr20:32883391:-	chr20:32888526:-:L2b>chr20:32883391:-:ENST00000217426/ORF1

8661	chr7:50595367:->chr7:50571757:-	chr7:50595367:-:L2a>chr7:50571757:-:ENST00000357936/ORF3
8662	chr7:50595367:->chr7:50571757:-	chr7:50595367:-:L2a>chr7:50571757:-:ENST00000380984/ORF3
8663	chr5:1257816:->chr5:1255526:-	chr5:1257816:-:L4>chr5:1255526:-:ENST00000310581/ORF3
8664	chr2:3381419:->chr2:3360102:-	chr2:3381419:-:ENST00000398659>chr2:3360102:-:LTR16A/ORF1
8665	chr8:99648370:->chr8:99608397:-	chr8:99648370:-:MIR>chr8:99608397:-:ENST00000518165/ORF1
8666	chr8:99648370:->chr8:99608397:-	chr8:99648370:-:MIR>chr8:99608397:-:ENST00000419617/ORF1
8667	chr4:154669797:->chr4:154666879:-	chr4:154669797:-:ENST00000274068>chr4:154666879:-:MSTD/ORF1
8668	chr2:231040909:->chr2:231037675:-	chr2:231040909:-:AluJb>chr2:231037675:-:ENST00000258381/ORF1
8669	chr10:104231153:+>chr10:104231667:+	chr10:104231153:+:ENST00000366277>chr10:104231667:+:MIR3/ORF1
8670	chr1:183107957:+>chr1:183109539:+	chr1:183107957:+:AluSx1>chr1:183109539:+:ENST00000258341/ORF2
8671	chr19:19976808:+>chr19:19982937:+	chr19:19976808:+:ENST00000589717>chr19:19982937:+:LTR70/ORF1
8672	chr6:130374597:+>chr6:130376316:+	chr6:130374597:+:AluY>chr6:130376316:+:ENST00000529410/ORF1
8673	chr22:36007617:->chr22:36007153:-	chr22:36007617:-:L3>chr22:36007153:-:ENST00000397326/ORF3
8674	chr22:37870550:->chr22:37861756:-	chr22:37870550:-:ENST00000356998>chr22:37861756:-:L2a/ORF1
8675	chr22:37870550:->chr22:37861756:-	chr22:37870550:-:ENST00000416983>chr22:37861756:-:L2a/ORF1
8676	chr2:37570066:+>chr2:37579932:+	chr2:37570066:+:LTR16A>chr2:37579932:+:ENST00000338415/ORF2
8677	chr2:10135488:+>chr2:10136007:+	chr2:10135488:+:AluJb>chr2:10136007:+:ENST00000405379/ORF3
8678	chr2:10135488:+>chr2:10136007:+	chr2:10135488:+:AluJb>chr2:10136007:+:ENST00000472167/ORF3
8679	chr9:97214855:+>chr9:97216240:+	chr9:97214855:+:AluSx>chr9:97216240:+:ENST00000375344/ORF1
8680	chr12:112169999:+>chr12:112171727:+	chr12:112169999:+:L1M5>chr12:112171727:+:ENST00000552706/ORF3
8681	chr12:112169999:+>chr12:112171727:+	chr12:112169999:+:L1M5>chr12:112171727:+:ENST00000392636/ORF3
8682	chr3:122863676:+>chr3:122864369:+	chr3:122863676:+:AluY>chr3:122864369:+:ENST00000316218/ORF3
8683	chr1:70612092:->chr1:70611588:-	chr1:70612092:-:MIR>chr1:70611588:-:ENST00000370952/ORF3
8684	chr5:86704905:->chr5:86704003:-	chr5:86704905:-:L2>chr5:86704003:-:ENST00000508855/ORF2
8685	chr13:115035095:+>chr13:115037659:+	chr13:115035095:+:L1ME3>chr13:115037659:+:ENST00000360383/ORF3
8686	chr19:49834874:->chr19:49797810:-	chr19:49834874:-:MLT1J2>chr19:49797810:-:ENST00000454748/ORF1

8687	chr19:49834874:->chr19:49797810:-	chr19:49834874:-:MLT1J2>chr19:49797810:-:ENST00000335875/ORF1
8688	chr16:70333257:+>chr16:70333775:+	chr16:70333257:+:ENST00000288071>chr16:70333775:+:L2c/ORF1
8689	chr11:129978600:+>chr11:129979324:+	chr11:129978600:+:L1PA5>chr11:129979324:+:ENST00000533195/ORF1
8690	chr20:30254794:->chr20:30253889:-	chr20:30254794:-:MIRb>chr20:30253889:-:ENST00000376062/ORF2
8691	chr20:30254794:->chr20:30253889:-	chr20:30254794:-:MIRb>chr20:30253889:-:ENST00000450273/ORF2
8692	chr9:96211969:->chr9:96209979:-	chr9:96211969:-:AluSc>chr9:96209979:-:ENST00000428378/ORF1
8693	chr9:96211969:->chr9:96209979:-	chr9:96211969:-:AluSc>chr9:96209979:-:ENST00000423591/ORF1
8694	chr6:110774731:->chr6:110768193:-	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000451557/ORF2
8695	chr20:60835987:+>chr20:60838672:+	chr20:60835987:+:AluJo>chr20:60838672:+:ENST00000313733/ORF3
8696	chr19:49832179:+>chr19:49838971:+	chr19:49832179:+:MLT1F1>chr19:49838971:+:ENST00000391859/ORF2
8697	chr10:112572705:+>chr10:112576399:+	chr10:112572705:+:ENST00000369519>chr10:112576399:+:L2a/ORF1
8698	chr14:60442915:+>chr14:60443943:+	chr14:60442915:+:MER1A>chr14:60443943:+:ENST00000254271/ORF3
8699	chr5:179238682:+>chr5:179250858:+	chr5:179238682:+:MER61-int>chr5:179250858:+:ENST00000376929/ORF2
8700	chr3:77121427:+>chr3:77147165:+	chr3:77121427:+:MER1A>chr3:77147165:+:ENST00000487694/ORF2
8701	chr19:50010181:+>chr19:50027764:+	chr19:50010181:+:MER45A>chr19:50027764:+:ENST00000221466/ORF3
8702	chr5:414855:+>chr5:422844:+	chr5:414855:+:L1MEd>chr5:422844:+:ENST00000510400/ORF2
8703	chr13:115049839:+>chr13:115051777:+	chr13:115049839:+:(TG)n>chr13:115051777:+:ENST00000375299/ORF1
8704	chr2:28190310:+>chr2:28210860:+	chr2:28190310:+:THE1B>chr2:28210860:+:ENST00000436924/ORF3
8705	chr4:103554408:->chr4:103553438:-	chr4:103554408:-:MLT1N2>chr4:103553438:-:ENST00000226578/ORF3
8706	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000446471/ORF3
8707	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000434592/ORF3
8708	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000454079/ORF3
8709	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000442092/ORF3
8710	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000419610/ORF3
8711	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000446471/ORF3
8712	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000434592/ORF3
8713	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000454079/ORF3

8714	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000442092/ORF3
8715	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000419610/ORF3
8716	chr9:97843062:+>chr9:97909493:+	chr9:97843062:+:ENST00000433691>chr9:97909493:+:Charlie1/ORF1
8717	chr9:97843062:+>chr9:97909493:+	chr9:97843062:+:ENST00000375315>chr9:97909493:+:Charlie1/ORF1
8718	chr9:97843062:+>chr9:97909493:+	chr9:97843062:+:ENST00000424143>chr9:97909493:+:Charlie1/ORF1
8719	chr9:97843062:+>chr9:97909493:+	chr9:97843062:+:ENST00000425634>chr9:97909493:+:Charlie1/ORF1
8720	chr9:97843062:+>chr9:97909493:+	chr9:97843062:+:ENST00000428313>chr9:97909493:+:Charlie1/ORF1
8721	chr9:97843062:+>chr9:97909493:+	chr9:97843062:+:ENST00000297979>chr9:97909493:+:Charlie1/ORF1
8722	chr10:118750845:->chr10:118738819:-	chr10:118750845:-:MSTB1>chr10:118738819:-:ENST00000355371/ORF2
8723	chr10:118750845:->chr10:118738819:-	chr10:118750845:-:MSTB1>chr10:118738819:-:ENST00000392903/ORF2
8724	chr10:118750845:->chr10:118738819:-	chr10:118750845:-:MSTB1>chr10:118738819:-:ENST00000260777/ORF2
8725	chr17:76700853:->chr17:76698686:-	chr17:76700853:-:AluJr4>chr17:76698686:-:ENST00000591455/ORF1
8726	chr11:18491675:->chr11:18490765:-	chr11:18491675:-:AluSz6>chr11:18490765:-:ENST00000536719/ORF1
8727	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000446471/ORF3
8728	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000434592/ORF3
8729	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000454079/ORF3
8730	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000442092/ORF3
8731	chr3:50089360:+>chr3:50091768:+	chr3:50089360:+:L1MB7>chr3:50091768:+:ENST00000419610/ORF3
8732	chr11:18491675:->chr11:18490765:-	chr11:18491675:-:AluSz6>chr11:18490765:-:ENST00000536719/ORF1
8733	chr12:42835231:+>chr12:42836287:+	chr12:42835231:+:ENST00000552761>chr12:42836287:+:LTR22A/ORF1
8734	chr12:42835231:+>chr12:42836287:+	chr12:42835231:+:ENST00000256678>chr12:42836287:+:LTR22A/ORF1
8735	chr12:42835231:+>chr12:42836287:+	chr12:42835231:+:ENST00000317560>chr12:42836287:+:LTR22A/ORF1
8736	chr12:42835231:+>chr12:42836287:+	chr12:42835231:+:ENST00000449194>chr12:42836287:+:LTR22A/ORF1
8737	chr12:42835231:+>chr12:42836287:+	chr12:42835231:+:ENST00000549190>chr12:42836287:+:LTR22A/ORF1
8738	chr12:42835231:+>chr12:42836287:+	chr12:42835231:+:ENST00000395580>chr12:42836287:+:LTR22A/ORF1
8739	chr12:42835231:+>chr12:42836287:+	chr12:42835231:+:ENST00000358314>chr12:42836287:+:LTR22A/ORF1
8740	chr12:42835231:+>chr12:42836287:+	chr12:42835231:+:ENST00000337898>chr12:42836287:+:LTR22A/ORF1

8741	chr11:76708271:+>chr11:76709807:+	chr11:76708271:+:L2c>chr11:76709807:+:ENST00000534206/ORF2
8742	chr11:76708271:+>chr11:76709807:+	chr11:76708271:+:L2c>chr11:76709807:+:ENST00000532485/ORF2
8743	chr1:154709520:->chr1:154705620:-	chr1:154709520:-:L2c>chr1:154705620:-:ENST00000271915/ORF1
8744	chr9:96211969:->chr9:96210771:-	chr9:96211969:-:AluSc>chr9:96210771:-:ENST00000476484/ORF3
8745	chr5:60220118:->chr5:60217982:-	chr5:60220118:-:L1MC4>chr5:60217982:-:ENST00000265038/ORF1
8746	chr17:43536749:->chr17:43531638:-	chr17:43536749:-:L1MB7>chr17:43531638:-:ENST00000430334/ORF2
8747	chr2:219296440:+>chr2:219296580:+	chr2:219296440:+:MIRb>chr2:219296580:+:ENST00000248444/ORF1
8748	chr22:25019883:+>chr22:25023093:+	chr22:25019883:+:ENST00000248923>chr22:25023093:+:L2b/ORF1
8749	chr3:141809634:->chr3:141724386:-	chr3:141809634:-:AluSx1>chr3:141724386:-:ENST00000489671/ORF2
8750	chr3:141809634:->chr3:141724386:-	chr3:141809634:-:AluSx1>chr3:141724386:-:ENST00000467634/ORF2
8751	chr3:141809634:->chr3:141724386:-	chr3:141809634:-:AluSx1>chr3:141724386:-:ENST00000487734/ORF2
8752	chr12:52641995:+>chr12:52645561:+	chr12:52641995:+:ENST00000331817>chr12:52645561:+:MER58A/ORF1
8753	chr12:111950004:->chr12:111948386:-	chr12:111950004:-:AluSq2>chr12:111948386:-:ENST00000389153/ORF1
8754	chr20:56286012:->chr20:56234753:-	chr20:56286012:-:L2b>chr20:56234753:-:ENST00000341744/ORF2
8755	chr20:56265035:->chr20:56234753:-	chr20:56265035:-:MIRb>chr20:56234753:-:ENST00000341744/ORF3
8756	chr16:23574051:+>chr16:23575360:+	chr16:23574051:+:ENST00000219638>chr16:23575360:+:L2c/ORF1
8757	chr2:55845886:->chr2:55842642:-	chr2:55845886:-:AluSc8>chr2:55842642:-:ENST00000272313/ORF1
8758	chr12:124872018:->chr12:124870433:-	chr12:124872018:-:MIRc>chr12:124870433:-:ENST00000356219/ORF1
8759	chr12:124835133:->chr12:124834994:-	chr12:124835133:-:ENST00000356219>chr12:124834994:-:L3/ORF1
8760	chr12:124852429:->chr12:124848345:-	chr12:124852429:-:AluSz>chr12:124848345:-:ENST00000356219/ORF2
8761	chr20:60739957:+>chr20:60740478:+	chr20:60739957:+:AluJb>chr20:60740478:+:ENST00000421564/ORF1
8762	chr11:105130369:->chr11:105009805:-	chr11:105130369:-:MER44D>chr11:105009805:-:ENST00000530950/ORF3
8763	chr19:42335940:+>chr19:42365240:+	chr19:42335940:+:AluSx>chr19:42365240:+:ENST00000600467/ORF2
8764	chr1:147120048:->chr1:147074300:-	chr1:147120048:-:ENST00000369238>chr1:147074300:-:AluSg/ORF1
8765	chr19:42335940:+>chr19:42365240:+	chr19:42335940:+:AluSx>chr19:42365240:+:ENST00000600467/ORF2
8766	chr8:120069570:+>chr8:120101919:+	chr8:120069570:+:THE1D>chr8:120101919:+:ENST00000332843/ORF3

8767	chr8:119919242:+>chr8:120079593:+	chr8:119919242:+:THE1B>chr8:120079593:+:ENST00000332843/ORF1
8768	chr8:120050389:+>chr8:120101919:+	chr8:120050389:+:MIRb>chr8:120101919:+:ENST00000332843/ORF2
8769	chr8:119919242:+>chr8:120101919:+	chr8:119919242:+:THE1B>chr8:120101919:+:ENST00000332843/ORF3
8770	chr8:119776623:+>chr8:120101919:+	chr8:119776623:+:MER57A-int>chr8:120101919:+:ENST00000332843/ORF2
8771	chr8:120021792:+>chr8:120101919:+	chr8:120021792:+:MSTB2>chr8:120101919:+:ENST00000332843/ORF1
8772	chr17:53207643:+>chr17:53218671:+	chr17:53207643:+:MLT1E3>chr17:53218671:+:ENST00000376352/ORF3
8773	chr1:179339213:+>chr1:179340287:+	chr1:179339213:+:ENST00000434088>chr1:179340287:+:AluSz/ORF1
8774	chr13:111909972:+>chr13:111919895:+	chr13:111909972:+:L1M1>chr13:111919895:+:ENST00000544132/ORF3
8775	chr19:18493439:+>chr19:18497039:+	chr19:18493439:+:AluSx>chr19:18497039:+:ENST00000595973/ORF3
8776	chr6:47547012:+>chr6:47547121:+	chr6:47547012:+:AluJb>chr6:47547121:+:ENST00000359314/ORF1
8777	chr19:36390354:+>chr19:36394253:+	chr19:36390354:+:AluSx1>chr19:36394253:+:ENST00000246551/ORF1
8778	chr2:26947428:+>chr2:26950535:+	chr2:26947428:+:MIR>chr2:26950535:+:ENST00000302909/ORF1
8779	chr5:115421303:+>chr5:115423194:+	chr5:115421303:+:MER113>chr5:115423194:+:ENST00000274458/ORF3
8780	chr5:115421275:+>chr5:115423194:+	chr5:115421275:+:MER113>chr5:115423194:+:ENST00000274458/ORF2
8781	chr12:69649832:+>chr12:69650477:+	chr12:69649832:+:L1MB8>chr12:69650477:+:ENST00000435070/ORF1
8782	chr7:76044541:+>chr7:76054369:+	chr7:76044541:+:AluSz>chr7:76054369:+:ENST00000394857/ORF1
8783	chr10:104637429:+>chr10:104638136:+	chr10:104637429:+:FLAM_A>chr10:104638136:+:ENST00000369880/ORF1
8784	chr3:4872631:->chr3:4871958:-	chr3:4872631:-:ENST00000449914>chr3:4871958:-:AluSx/ORF1
8785	chr3:176780176:->chr3:176771706:-	chr3:176780176:-:MER5A>chr3:176771706:-:ENST00000430069/ORF1
8786	chr3:176780176:->chr3:176771706:-	chr3:176780176:-:MER5A>chr3:176771706:-:ENST00000427349/ORF1
8787	chr9:135519082:->chr9:135517450:-	chr9:135519082:-:MIR>chr9:135517450:-:ENST00000372159/ORF2
8788	chr1:33775216:->chr1:33773054:-	chr1:33775216:-:SVA_B>chr1:33773054:-:ENST00000330379/ORF1
8789	chr9:99067556:->chr9:99064349:-	chr9:99067556:-:MLT1F2>chr9:99064349:-:ENST00000375263/ORF3
8790	chr16:30635061:->chr16:30620959:-	chr16:30635061:-:HERVK3-int>chr16:30620959:-:ENST00000287461/ORF1
8791	chr1:28861892:+>chr1:28862122:+	chr1:28861892:+:ENST00000434290>chr1:28862122:+:MIR/ORF1
8792	chr2:85804390:+>chr2:85806132:+	chr2:85804390:+:FLAM_C>chr2:85806132:+:ENST00000263864/ORF3
8793	chr19:852716:+>chr19:852876:+	chr19:852716:+:MIR3>chr19:852876:+:ENST00000590230/ORF1

8794	chr11:725377:+>chr11:725728:+	chr11:725377:+:AluJb>chr11:725728:+:ENST00000318562/ORF1
8795	chr11:725414:+>chr11:725728:+	chr11:725414:+:AluJb>chr11:725728:+:ENST00000318562/ORF2
8796	chr9:125788579:+>chr9:125827627:+	chr9:125788579:+:AluSx1>chr9:125827627:+:ENST00000373647/ORF3
8797	chr9:125788389:+>chr9:125827627:+	chr9:125788389:+:AluSx1>chr9:125827627:+:ENST00000373647/ORF2
8798	chr9:125788389:+>chr9:125827627:+	chr9:125788389:+:AluSx1>chr9:125827627:+:ENST00000456584/ORF2
8799	chr9:125788579:+>chr9:125827627:+	chr9:125788579:+:AluSx1>chr9:125827627:+:ENST00000456584/ORF3
8800	chr2:73490341:->chr2:73490138:-	chr2:73490341:-:ENST00000295133>chr2:73490138:-:AluSp/ORF1
8801	chr2:73487517:->chr2:73487263:-	chr2:73487517:-:ENST00000295133>chr2:73487263:-:MIR/ORF1
8802	chrX:134482809:+>chrX:134483035:+	chrX:134482809:+:MER33>chrX:134483035:+:ENST00000339249/ORF1
8803	chr10:123689954:->chr10:123683844:-	chr10:123689954:-:LTR5B>chr10:123683844:-:ENST00000369043/ORF1
8804	chr10:123690092:->chr10:123683844:-	chr10:123690092:-:LTR5B>chr10:123683844:-:ENST00000369043/ORF1
8805	chr9:131672740:+>chr9:131678375:+	chr9:131672740:+:AluJo>chr9:131678375:+:ENST00000372600/ORF3
8806	chr14:20787171:->chr14:20784719:-	chr14:20787171:-:AluSz>chr14:20784719:-:ENST00000556563/ORF3
8807	chr16:23574051:+>chr16:23575360:+	chr16:23574051:+:ENST00000219638>chr16:23575360:+:L2c/ORF1
8808	chr1:155987923:->chr1:155984860:-	chr1:155987923:-:L3b>chr1:155984860:-:ENST00000295702/ORF2
8809	chr3:50130475:+>chr3:50131153:+	chr3:50130475:+:AluJb>chr3:50131153:+:ENST00000404526/ORF3
8810	chr19:17444964:->chr19:17444609:-	chr19:17444964:-:MIR>chr19:17444609:-:ENST00000597643/ORF2
8811	chr19:8531498:+>chr19:8533658:+	chr19:8531498:+:AluSx1>chr19:8533658:+:ENST00000594907/ORF2
8812	chr18:74574245:+>chr18:74580641:+	chr18:74574245:+:L1MDa>chr18:74580641:+:ENST00000320610/ORF3
8813	chr19:10743677:+>chr19:10745432:+	chr19:10743677:+:MIR>chr19:10745432:+:ENST00000588409/ORF3
8814	chr3:128828867:->chr3:128814012:-	chr3:128828867:-:AluJo>chr3:128814012:-:ENST00000418265/ORF3
8815	chr14:23350226:+>chr14:23353883:+	chr14:23350226:+:AluSc>chr14:23353883:+:ENST00000267396/ORF1
8816	chr8:72875283:+>chr8:72937597:+	chr8:72875283:+:ENST00000521467>chr8:72937597:+:THE1D/ORF1
8817	chr10:81838940:+>chr10:81841396:+	chr10:81838940:+:ENST00000372273>chr10:81841396:+:AluJr/ORF1
8818	chr8:150392:->chr8:129347:-	chr8:150392:-:ENST00000523795>chr8:129347:-:THE1B-int/ORF1
8819	chr8:150392:->chr8:36580:-	chr8:150392:-:ENST00000523795>chr8:36580:-:L1MC4a/ORF1
8820	chr3:51424477:+>chr3:51425168:+	chr3:51424477:+:AluJb>chr3:51425168:+:ENST00000528157/ORF2

8821	chr17:15930016:+>chr17:15931568:+	chr17:15930016:+:ENST00000486880>chr17:15931568:+:MER5B/ORF1
8822	chr17:15909882:+>chr17:15912292:+	chr17:15909882:+:ENST00000486880>chr17:15912292:+:L2a/ORF1
8823	chr1:165863816:+>chr1:165865427:+	chr1:165863816:+:MER5B>chr1:165865427:+:ENST00000367879/ORF1
8824	chr14:64908293:+>chr14:64908772:+	chr14:64908293:+:AluY>chr14:64908772:+:ENST00000545908/ORF3
8825	chr5:176408378:->chr5:176402481:-	chr5:176408378:-:AluSc8>chr5:176402481:-:ENST00000510698/ORF2
8826	chr9:33787393:+>chr9:33796641:+	chr9:33787393:+:ERVL-E-int>chr9:33796641:+:ENST00000361005/ORF2
8827	chr20:3653818:->chr20:3653545:-	chr20:3653818:-:MIR>chr20:3653545:-:ENST00000356518/ORF1
8828	chr12:8273702:+>chr12:8278157:+	chr12:8273702:+:MLT1I>chr12:8278157:+:ENST00000229332/ORF1
8829	chr19:45397323:+>chr19:45399580:+	chr19:45397323:+:ENST00000592041>chr19:45399580:+:MIR/ORF1
8830	chr10:135216277:+>chr10:135240587:+	chr10:135216277:+:ENST00000468317>chr10:135240587:+:L1M5/ORF1
8831	chr10:135233096:+>chr10:135240587:+	chr10:135233096:+:ENST00000468317>chr10:135240587:+:L1M5/ORF1
8832	chr4:84195547:->chr4:84194770:-	chr4:84195547:-:AluSx1>chr4:84194770:-:ENST00000503915/ORF2
8833	chr4:84195547:->chr4:84194770:-	chr4:84195547:-:AluSx1>chr4:84194770:-:ENST00000503391/ORF2
8834	chr16:69418483:->chr16:69413560:-	chr16:69418483:-:ENST00000603068>chr16:69413560:-:Charlie1a/ORF1
8835	chr8:48353104:+>chr8:48358023:+	chr8:48353104:+:ENST00000519401>chr8:48358023:+:Tigger1/ORF1
8836	chr3:53163843:->chr3:53160010:-	chr3:53163843:-:MIR>chr3:53160010:-:ENST00000296292/ORF1
8837	chr22:35777322:+>chr22:35779099:+	chr22:35777322:+:MIRb>chr22:35779099:+:ENST00000216117/ORF1
8838	chr22:35777322:+>chr22:35779099:+	chr22:35777322:+:MIRb>chr22:35779099:+:ENST00000412893/ORF1
8839	chr11:34654351:+>chr11:34664175:+	chr11:34654351:+:L2a>chr11:34664175:+:ENST00000531794/ORF3
8840	chr1:43897572:+>chr1:43897822:+	chr1:43897572:+:ENST00000372442>chr1:43897822:+:MIRb/ORF1
8841	chr16:17215958:->chr16:17211836:-	chr16:17215958:-:L1PB1>chr16:17211836:-:ENST00000261381/ORF2
8842	chrX:69218743:+>chrX:69243068:+	chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000374552/ORF1
8843	chrX:69218743:+>chrX:69243068:+	chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000503592/ORF1
8844	chrX:69218743:+>chrX:69243068:+	chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000524573/ORF1
8845	chr12:46760160:->chr12:46758972:-	chr12:46760160:-:Tigger4b>chr12:46758972:-:ENST00000256689/ORF1
8846	chr12:95657285:+>chr12:95660133:+	chr12:95657285:+:AluJr>chr12:95660133:+:ENST00000552821/ORF2

8847	chr19:17125357:->chr19:17122567:-	chr19:17125357:-:THE1B>chr19:17122567:-:ENST00000443236/ORF2
8848	chr2:62199161:+>chr2:62227836:+	chr2:62199161:+:AluJb>chr2:62227836:+:ENST00000311832/ORF1
8849	chr2:62189783:+>chr2:62227836:+	chr2:62189783:+:MER77B>chr2:62227836:+:ENST00000311832/ORF1
8850	chr15:65831275:+>chr15:65844014:+	chr15:65831275:+:Tigger1>chr15:65844014:+:ENST00000261875/ORF3
8851	chr20:33190934:->chr20:33176411:-	chr20:33190934:-:L1MC5>chr20:33176411:-:ENST00000217446/ORF2
8852	chr18:74574245:+>chr18:74580641:+	chr18:74574245:+:L1MDa>chr18:74580641:+:ENST00000320610/ORF3
8853	chr10:47919476:+>chr10:47919942:+	chr10:47919476:+:AluY>chr10:47919942:+:ENST00000358474/ORF3
8854	chr10:47928311:+>chr10:47929795:+	chr10:47928311:+:L1MB7>chr10:47929795:+:ENST00000358474/ORF1
8855	chr10:47919476:+>chr10:47919942:+	chr10:47919476:+:AluY>chr10:47919942:+:ENST00000355876/ORF3
8856	chr10:47928311:+>chr10:47929795:+	chr10:47928311:+:L1MB7>chr10:47929795:+:ENST00000355876/ORF1
8857	chr16:47484313:->chr16:47462809:-	chr16:47484313:-:5S>chr16:47462809:-:ENST00000320640/ORF1
8858	chr19:48627044:->chr19:48626575:-	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000263274/ORF2
8859	chr15:66775033:+>chr15:66777328:+	chr15:66775033:+:L2b>chr15:66777328:+:ENST00000307102/ORF3
8860	chr10:105819196:->chr10:105817948:-	chr10:105819196:-:MER5A1>chr10:105817948:-:ENST00000353479/ORF2
8861	chr6:159316398:+>chr6:159329766:+	chr6:159316398:+:ENST00000367073>chr6:159329766:+:FordPrefect_a/ORF1
8862	chr11:129980556:+>chr11:129987692:+	chr11:129980556:+:ENST00000543137>chr11:129987692:+:AluSc8/ORF1
8863	chr10:47919476:+>chr10:47919942:+	chr10:47919476:+:AluY>chr10:47919942:+:ENST00000358474/ORF3
8864	chr10:47928311:+>chr10:47929795:+	chr10:47928311:+:L1MB7>chr10:47929795:+:ENST00000358474/ORF1
8865	chr10:47919476:+>chr10:47919942:+	chr10:47919476:+:AluY>chr10:47919942:+:ENST00000355876/ORF3
8866	chr10:47928311:+>chr10:47929795:+	chr10:47928311:+:L1MB7>chr10:47929795:+:ENST00000355876/ORF1
8867	chr5:52301822:+>chr5:52322578:+	chr5:52301822:+:L1PA10>chr5:52322578:+:ENST00000296585/ORF1
8868	chr5:52301822:+>chr5:52322578:+	chr5:52301822:+:L1PA10>chr5:52322578:+:ENST00000509814/ORF1
8869	chr5:52301822:+>chr5:52322578:+	chr5:52301822:+:L1PA10>chr5:52322578:+:ENST00000509960/ORF1
8870	chr5:52301822:+>chr5:52322578:+	chr5:52301822:+:L1PA10>chr5:52322578:+:ENST00000503810/ORF1
8871	chr5:52301822:+>chr5:52322578:+	chr5:52301822:+:L1PA10>chr5:52322578:+:ENST00000510722/ORF1
8872	chr3:38398618:+>chr3:38401830:+	chr3:38398618:+:MLT1B>chr3:38401830:+:ENST00000207870/ORF1
8873	chr10:98821532:->chr10:98820544:-	chr10:98821532:-:L1ME3>chr10:98820544:-:ENST00000314867/ORF1

8874	chr10:98821532:->chr10:98820544:-	chr10:98821532:-:L1ME3>chr10:98820544:-:ENST00000266058/ORF1
8875	chr4:38696173:+>chr4:38696367:+	chr4:38696173:+:L2b>chr4:38696367:+:ENST00000261438/ORF2
8876	chr13:20425495:->chr13:20423562:-	chr13:20425495:-:ENST00000502168>chr13:20423562:-:AluJr/ORF1
8877	chr10:127633904:+>chr10:127668730:+	chr10:127633904:+:L1PA2>chr10:127668730:+:ENST00000368693/ORF3
8878	chr14:24631779:+>chr14:24632175:+	chr14:24631779:+:AluSc5>chr14:24632175:+:ENST00000559284/ORF2
8879	chr14:24631779:+>chr14:24632175:+	chr14:24631779:+:AluSc5>chr14:24632175:+:ENST00000560275/ORF2
8880	chr14:24631779:+>chr14:24632175:+	chr14:24631779:+:AluSc5>chr14:24632175:+:ENST00000396864/ORF2
8881	chr1:45278355:+>chr1:45278668:+	chr1:45278355:+:AluSc8>chr1:45278668:+:ENST00000450269/ORF3
8882	chr16:718154:+>chr16:718358:+	chr16:718154:+:G-rich>chr16:718358:+:ENST00000561929/ORF1
8883	chr16:718154:+>chr16:718353:+	chr16:718154:+:G-rich>chr16:718353:+:ENST00000561929/ORF3
8884	chr14:51355621:+>chr14:51359931:+	chr14:51355621:+:ENST00000395752>chr14:51359931:+:LTR7/ORF1
8885	chr12:48166365:+>chr12:48172811:+	chr12:48166365:+:AluJr>chr12:48172811:+:ENST00000442218/ORF2
8886	chr16:89765443:->chr16:89764713:-	chr16:89765443:-:AluSc>chr16:89764713:-:ENST00000289805/ORF3
8887	chr16:89765443:->chr16:89764713:-	chr16:89765443:-:AluSc>chr16:89764713:-:ENST00000335360/ORF3
8888	chr18:33076739:->chr18:33060527:-	chr18:33076739:-:AluJr4>chr18:33060527:-:ENST00000592173/ORF3
8889	chr18:33076739:->chr18:33060527:-	chr18:33076739:-:AluJr4>chr18:33060527:-:ENST00000334598/ORF3
8890	chr18:33076739:->chr18:33060527:-	chr18:33076739:-:AluJr4>chr18:33060527:-:ENST00000591139/ORF3
8891	chr19:1385282:+>chr19:1387810:+	chr19:1385282:+:AluSp>chr19:1387810:+:ENST00000414651/ORF2
8892	chr1:65890007:+>chr1:65890986:+	chr1:65890007:+:L3>chr1:65890986:+:ENST00000371065/ORF1
8893	chr16:67063052:+>chr16:67063630:+	chr16:67063052:+:(CGG)n>chr16:67063630:+:ENST00000290858/ORF1
8894	chr14:91641326:+>chr14:91642278:+	chr14:91641326:+:MER21B>chr14:91642278:+:ENST00000520328/ORF1
8895	chr18:77906530:+>chr18:77920399:+	chr18:77906530:+:L3>chr18:77920399:+:ENST00000586421/ORF1
8896	chr18:77906530:+>chr18:77920399:+	chr18:77906530:+:L3>chr18:77920399:+:ENST00000587254/ORF1
8897	chr16:8890694:->chr16:8890447:-	chr16:8890694:-:MIRb>chr16:8890447:-:ENST00000333050/ORF3
8898	chr20:33851310:+>chr20:33851594:+	chr20:33851310:+:L2c>chr20:33851594:+:ENST00000246186/ORF3
8899	chr9:5690038:+>chr9:5710416:+	chr9:5690038:+:ENST00000381532>chr9:5710416:+:HAL1/ORF1

8900	chr9:5732479:+>chr9:5736335:+	chr9:5732479:+:ENST00000381532>chr9:5736335:+:L1MEc/ORF1
8901	chr9:5690038:+>chr9:5712361:+	chr9:5690038:+:ENST00000381532>chr9:5712361:+:L1PA5/ORF1
8902	chr20:60717124:->chr20:60716000:-	chr20:60717124:-:MER20>chr20:60716000:-:ENST00000370873/ORF2
8903	chr2:131824664:->chr2:131813268:-	chr2:131824664:-:THE1B>chr2:131813268:-:ENST00000409185/ORF1
8904	chr14:102937942:+>chr14:102963316:+	chr14:102937942:+:AluJo>chr14:102963316:+:ENST00000359520/ORF2
8905	chr9:79947029:+>chr9:79950293:+	chr9:79947029:+:ENST00000376634>chr9:79950293:+:L1PA7/ORF1
8906	chr9:79947029:+>chr9:79950293:+	chr9:79947029:+:ENST00000376636>chr9:79950293:+:L1PA7/ORF1
8907	chr13:22254080:+>chr13:22255181:+	chr13:22254080:+:AluY>chr13:22255181:+:ENST00000382353/ORF2
8908	chr3:11862757:->chr3:11858811:-	chr3:11862757:-:MER1A>chr3:11858811:-:ENST00000455809/ORF2
8909	chr1:240569786:+>chr1:240601361:+	chr1:240569786:+:MIR>chr1:240601361:+:ENST00000319653/ORF2
8910	chr19:49642169:+>chr19:49642925:+	chr19:49642169:+:AluSz>chr19:49642925:+:ENST00000334186/ORF2
8911	chr9:42256117:+>chr9:42671887:+	chr9:42256117:+:GSATII>chr9:42671887:+:ENST00000456520/ORF2
8912	chr6:11217909:->chr6:11213960:-	chr6:11217909:-:MIR3>chr6:11213960:-:ENST00000379446/ORF1
8913	chr6:11217909:->chr6:11213960:-	chr6:11217909:-:MIR3>chr6:11213960:-:ENST00000508546/ORF1
8914	chr11:104970090:->chr11:104969741:-	chr11:104970090:-:ENST00000375707>chr11:104969741:-:L2/ORF1
8915	chr9:124066789:+>chr9:124072962:+	chr9:124066789:+:MIRc>chr9:124072962:+:ENST00000373823/ORF2
8916	chr9:98759695:+>chr9:98766802:+	chr9:98759695:+:Tigger1>chr9:98766802:+:ENST00000407474/ORF2
8917	chr15:83697368:->chr15:83687605:-	chr15:83697368:-:L1M5>chr15:83687605:-:ENST00000261721/ORF2
8918	chr15:83697368:->chr15:83689514:-	chr15:83697368:-:L1M5>chr15:83689514:-:ENST00000261721/ORF2
8919	chr11:78278238:->chr11:78277318:-	chr11:78278238:-:MER44D>chr11:78277318:-:ENST00000281038/ORF3
8920	chr7:84736037:->chr7:84727281:-	chr7:84736037:-:THE1D>chr7:84727281:-:ENST00000284136/ORF3
8921	chr7:84736037:->chr7:84727281:-	chr7:84736037:-:THE1D>chr7:84727281:-:ENST00000444867/ORF3
8922	chr17:65894534:+>chr17:65899905:+	chr17:65894534:+:L1MD>chr17:65899905:+:ENST00000544778/ORF2
8923	chr12:123907591:->chr12:123897983:-	chr12:123907591:-:ENST00000280571>chr12:123897983:-:LTR12C/ORF1
8924	chr20:18449705:+>chr20:18451948:+	chr20:18449705:+:ENST00000377603>chr20:18451948:+:L2c/ORF1
8925	chr6:79595160:+>chr6:79606401:+	chr6:79595160:+:ENST00000607739>chr6:79606401:+:AluJb/ORF1

8926	chr6:79595160:+>chr6:79606401:+	chr6:79595160:+:ENST00000369940>chr6:79606401:+:AluJb/ORF1
8927	chr6:79595160:+>chr6:79606401:+	chr6:79595160:+:ENST00000606868>chr6:79606401:+:AluJb/ORF1
8928	chr5:33794368:->chr5:33751653:-	chr5:33794368:-:L1PBa1>chr5:33751653:-:ENST00000352040/ORF1
8929	chr5:33794368:->chr5:33751653:-	chr5:33794368:-:L1PBa1>chr5:33751653:-:ENST00000515401/ORF1
8930	chr5:33794368:->chr5:33751653:-	chr5:33794368:-:L1PBa1>chr5:33751653:-:ENST00000504830/ORF1
8931	chr11:104970090:->chr11:104969741:-	chr11:104970090:-:ENST00000375707>chr11:104969741:-:L2/ORF1
8932	chr19:51853970:->chr19:51853645:-	chr19:51853970:-:AluSx1>chr19:51853645:-:ENST00000354232/ORF3
8933	chr11:70208594:+>chr11:70217126:+	chr11:70208594:+:ENST00000253925>chr11:70217126:+:AluSz/ORF1
8934	chr1:45988450:->chr1:45980667:-	chr1:45988450:-:AluSx3>chr1:45980667:-:ENST00000262746/ORF3
8935	chr7:138950208:+>chr7:138951079:+	chr7:138950208:+:AluSc8>chr7:138951079:+:ENST00000288561/ORF3
8936	chr1:45988450:->chr1:45981479:-	chr1:45988450:-:AluSx3>chr1:45981479:-:ENST00000262746/ORF3
8937	chr20:50669039:->chr20:50668671:-	chr20:50669039:-:AluY>chr20:50668671:-:ENST00000371518/ORF1
8938	chr2:9691604:->chr2:9683414:-	chr2:9691604:-:AluY>chr2:9683414:-:ENST00000497134/ORF2
8939	chrX:1557990:->chrX:1555154:-	chrX:1557990:-:ENST00000381317>chrX:1555154:-:AluSx/ORF1
8940	chr2:9691604:->chr2:9683414:-	chr2:9691604:-:AluY>chr2:9683414:-:ENST00000310823/ORF2
8941	chr1:45988450:->chr1:45981479:-	chr1:45988450:-:AluSx3>chr1:45981479:-:ENST00000447184/ORF3
8942	chr22:21340186:+>chr22:21341610:+	chr22:21340186:+:ENST00000215739>chr22:21341610:+:AluSx1/ORF1
8943	chrX:1557990:->chrX:1555154:-	chrX:1557990:-:ENST00000534940>chrX:1555154:-:AluSx/ORF1
8944	chr19:18513606:+>chr19:18538161:+	chr19:18513606:+:LTR5B>chr19:18538161:+:ENST00000597724/ORF3
8945	chr22:18351213:->chr22:18348778:-	chr22:18351213:-:MIR>chr22:18348778:-:ENST00000441493/ORF1
8946	chr12:32630008:+>chr12:32717071:+	chr12:32630008:+:AluSx1>chr12:32717071:+:ENST00000534526/ORF3
8947	chr2:135128769:+>chr2:135160559:+	chr2:135128769:+:MIR3>chr2:135160559:+:ENST00000409645/ORF3
8948	chr1:6260335:->chr1:6257816:-	chr1:6260335:-:MER5A1>chr1:6257816:-:ENST00000234875/ORF3
8949	chr7:129915476:+>chr7:129916468:+	chr7:129915476:+:CR1_Mam>chr7:129916468:+:ENST00000222481/ORF1
8950	chr6:109740390:->chr6:109736869:-	chr6:109740390:-:ENST00000520723>chr6:109736869:-:Tigger2/ORF1
8951	chr4:54179803:->chr4:54149354:-	chr4:54179803:-:ENST00000401642>chr4:54149354:-:L1ME3/ORF1

8952	chr1:116927464:+>chr1:116928351:+	chr1:116927464:+:ENST00000295598>chr1:116928351:+:MER21A/ORF1
8953	chr1:116927464:+>chr1:116928351:+	chr1:116927464:+:ENST00000418797>chr1:116928351:+:MER21A/ORF1
8954	chr1:116927464:+>chr1:116928351:+	chr1:116927464:+:ENST00000537345>chr1:116928351:+:MER21A/ORF1
8955	chr2:10282081:+>chr2:10304486:+	chr2:10282081:+:ENST00000381786>chr2:10304486:+:MIR/ORF1
8956	chr11:104970090:->chr11:104969741:-	chr11:104970090:-:ENST00000375707>chr11:104969741:-:L2/ORF1
8957	chr1:27480474:->chr1:27465146:-	chr1:27480474:-:ENST00000263980>chr1:27465146:-:L2a/ORF1
8958	chr1:27480474:->chr1:27465188:-	chr1:27480474:-:ENST00000263980>chr1:27465188:-:L2a/ORF1
8959	chr6:30526730:+>chr6:30529611:+	chr6:30526730:+:L1ME3A>chr6:30529611:+:ENST00000376560/ORF2
8960	chr2:136531849:+>chr2:136533819:+	chr2:136531849:+:L1MB7>chr2:136533819:+:ENST00000272638/ORF1
8961	chr2:136531946:+>chr2:136533819:+	chr2:136531946:+:L1MB7>chr2:136533819:+:ENST00000272638/ORF1
8962	chr9:15865593:+>chr9:15874530:+	chr9:15865593:+:Tigger2a>chr9:15874530:+:ENST00000297641/ORF3
8963	chr7:129757509:+>chr7:129760589:+	chr7:129757509:+:AluJo>chr7:129760589:+:ENST00000335420/ORF1
8964	chr7:129757509:+>chr7:129760589:+	chr7:129757509:+:AluJo>chr7:129760589:+:ENST00000463413/ORF1
8965	chr5:125936006:+>chr5:125939262:+	chr5:125936006:+:LTR10C>chr5:125939262:+:ENST00000297540/ORF3
8966	chr9:88264917:->chr9:88261333:-	chr9:88264917:-:L1M6>chr9:88261333:-:ENST00000432218/ORF3
8967	chr9:88264917:->chr9:88261333:-	chr9:88264917:-:L1M6>chr9:88261333:-:ENST00000376083/ORF3
8968	chr13:28209668:+>chr13:28222516:+	chr13:28209668:+:MIRc>chr13:28222516:+:ENST00000399697/ORF3
8969	chr13:103314171:+>chr13:103315998:+	chr13:103314171:+:L1MB8>chr13:103315998:+:ENST00000376065/ORF1
8970	chrX:107934392:+>chrX:107935978:+	chrX:107934392:+:L1MA4A>chrX:107935978:+:ENST00000328300/ORF3
8971	chr10:69695910:->chr10:69694344:-	chr10:69695910:-:ENST00000373700>chr10:69694344:-:HAL1/ORF1
8972	chr10:69695910:->chr10:69694344:-	chr10:69695910:-:ENST00000412272>chr10:69694344:-:HAL1/ORF1
8973	chr10:69695910:->chr10:69694344:-	chr10:69695910:-:ENST00000395198>chr10:69694344:-:HAL1/ORF1
8974	chr10:69695910:->chr10:69694344:-	chr10:69695910:-:ENST00000277817>chr10:69694344:-:HAL1/ORF1
8975	chr3:50356387:->chr3:50349850:-	chr3:50356387:-:ENST00000447092>chr3:50349850:-:SVA_D/ORF1

8976	chr15:57542903:+>chr15:57543548:+	chr15:57542903:+:AluSz>chr15:57543548:+:ENST00000438423/ORF1
8977	chr15:57542903:+>chr15:57543548:+	chr15:57542903:+:AluSz>chr15:57543548:+:ENST00000267811/ORF1
8978	chr3:128828867:->chr3:128814012:-	chr3:128828867:-:AluJo>chr3:128814012:-:ENST00000418265/ORF3
8979	chr3:128828867:->chr3:128814012:-	chr3:128828867:-:AluJo>chr3:128814012:-:ENST00000315150/ORF3
8980	chr3:128828867:->chr3:128814012:-	chr3:128828867:-:AluJo>chr3:128814012:-:ENST00000476465/ORF3
8981	chr3:128828867:->chr3:128814012:-	chr3:128828867:-:AluJo>chr3:128814012:-:ENST00000457077/ORF3
8982	chr5:113769626:+>chr5:113798746:+	chr5:113769626:+:LTR12C>chr5:113798746:+:ENST00000512097/ORF1
8983	chr10:12280484:+>chr10:12301986:+	chr10:12280484:+:ENST00000378900>chr10:12301986:+:MLT1B/ORF1
8984	chr10:12280484:+>chr10:12301986:+	chr10:12280484:+:ENST00000281141>chr10:12301986:+:MLT1B/ORF1
8985	chr2:48593264:+>chr2:48600431:+	chr2:48593264:+:AluSx>chr2:48600431:+:ENST00000340553/ORF3
8986	chr2:48593264:+>chr2:48600431:+	chr2:48593264:+:AluSx>chr2:48600431:+:ENST00000413569/ORF3
8987	chr5:37496626:+>chr5:37516616:+	chr5:37496626:+:LTR12B>chr5:37516616:+:ENST00000504564/ORF3
8988	chr10:18875224:->chr10:18875022:-	chr10:18875224:-:LTR12_>chr10:18875022:-:ENST00000377304/ORF2
8989	chr5:37496626:+>chr5:37516616:+	chr5:37496626:+:LTR12B>chr5:37516616:+:ENST00000265107/ORF3
8990	chr9:98759695:+>chr9:98766802:+	chr9:98759695:+:Tigger1>chr9:98766802:+:ENST00000407474/ORF2
8991	chr9:33787393:+>chr9:33796641:+	chr9:33787393:+:ERVL-E-int>chr9:33796641:+:ENST00000361005/ORF3
8992	chr2:42615589:->chr2:42580483:-	chr2:42615589:-:MLT1B>chr2:42580483:-:ENST00000378669/ORF3
8993	chr2:42615589:->chr2:42580483:-	chr2:42615589:-:MLT1B>chr2:42580483:-:ENST00000468711/ORF3
8994	chr2:42615589:->chr2:42580483:-	chr2:42615589:-:MLT1B>chr2:42580483:-:ENST00000463055/ORF3
8995	chr6:30705934:->chr6:30698877:-	chr6:30705934:-:MER5A1>chr6:30698877:-:ENST00000376389/ORF3
8996	chr6:30705934:->chr6:30698877:-	chr6:30705934:-:MER5A1>chr6:30698877:-:ENST00000438162/ORF3
8997	chr11:118885078:+>chr11:118885704:+	chr11:118885078:+:AluSg>chr11:118885704:+:ENST00000334418/ORF2
8998	chr1:116202394:+>chr1:116205953:+	chr1:116202394:+:ENST00000355485>chr1:116205953:+:Tigger15a/ORF1
8999	chr2:54097965:->chr2:54096675:-	chr2:54097965:-:AluJo>chr2:54096675:-:ENST00000421748/ORF3
9000	chr7:73776406:+>chr7:73778585:+	chr7:73776406:+:AluSx1>chr7:73778585:+:ENST00000223398/ORF3
9001	chr7:73776406:+>chr7:73778585:+	chr7:73776406:+:AluSx1>chr7:73778585:+:ENST00000361545/ORF3

9002	chr10:105614953:->chr10:105563607:-	chr10:105614953:-:ENST00000369774>chr10:105563607:-:MER4B/ORF1
9003	chr4:39699922:+>chr4:39739040:+	chr4:39699922:+:(CGG)n>chr4:39739040:+:ENST00000261427/ORF1
9004	chr19:58433833:->chr19:58423557:-	chr19:58433833:-:PRIMAX-int>chr19:58423557:-:ENST00000312026/ORF2
9005	chr10:111874654:+>chr10:111876017:+	chr10:111874654:+:AluJr>chr10:111876017:+:ENST00000360162/ORF3
9006	chr19:53386494:->chr19:53385236:-	chr19:53386494:-:AluSx>chr19:53385236:-:ENST00000391781/ORF2
9007	chr20:18452009:+>chr20:18453486:+	chr20:18452009:+:L2c>chr20:18453486:+:ENST00000377603/ORF1
9008	chr9:37853518:+>chr9:37854777:+	chr9:37853518:+:L1MEe>chr9:37854777:+:ENST00000377724/ORF3
9009	chr17:35702210:->chr17:35696810:-	chr17:35702210:-:AluSx4>chr17:35696810:-:ENST00000353139/ORF3
9010	chr8:11690251:+>chr8:11695897:+	chr8:11690251:+:MER20>chr8:11695897:+:ENST00000538689/ORF2
9011	chr3:53915693:->chr3:53914136:-	chr3:53915693:-:MIRb>chr3:53914136:-:ENST00000335754/ORF3
9012	chr3:53915693:->chr3:53914099:-	chr3:53915693:-:MIRb>chr3:53914099:-:ENST00000335754/ORF3
9013	chr9:21808999:+>chr9:21815432:+	chr9:21808999:+:MLT1B>chr9:21815432:+:ENST00000580718/ORF1
9014	chr9:21808999:+>chr9:21815432:+	chr9:21808999:+:MLT1B>chr9:21815432:+:ENST00000404796/ORF1
9015	chr9:21808999:+>chr9:21815432:+	chr9:21808999:+:MLT1B>chr9:21815432:+:ENST00000380172/ORF1
9016	chr9:21808999:+>chr9:21815432:+	chr9:21808999:+:MLT1B>chr9:21815432:+:ENST00000419385/ORF1
9017	chr9:21808999:+>chr9:21815432:+	chr9:21808999:+:MLT1B>chr9:21815432:+:ENST00000580900/ORF1
9018	chr16:21059883:->chr16:21051265:-	chr16:21059883:-:L1PA2>chr16:21051265:-:ENST00000261383/ORF3
9019	chr16:21059883:->chr16:21053525:-	chr16:21059883:-:L1PA2>chr16:21053525:-:ENST00000261383/ORF3
9020	chr18:57333308:->chr18:57147470:-	chr18:57333308:-:THE1B>chr18:57147470:-:ENST00000439986/ORF1
9021	chr19:39346206:->chr19:39338074:-	chr19:39346206:-:SVA_D>chr19:39338074:-:ENST00000601813/ORF3
9022	chr19:39346206:->chr19:39338074:-	chr19:39346206:-:SVA_D>chr19:39338074:-:ENST00000221419/ORF3
9023	chr19:39346206:->chr19:39338074:-	chr19:39346206:-:SVA_D>chr19:39338074:-:ENST00000600233/ORF3
9024	chr6:110731713:->chr6:110729645:-	chr6:110731713:-:THE1C>chr6:110729645:-:ENST00000368923/ORF2
9025	chr5:145540727:->chr5:145540049:-	chr5:145540727:-:Tigger1>chr5:145540049:-:ENST00000394434/ORF2
9026	chr1:113246006:->chr1:113245741:-	chr1:113246006:-:MIRb>chr1:113245741:-:ENST00000414971/ORF2
9027	chr1:113246006:->chr1:113245741:-	chr1:113246006:-:MIRb>chr1:113245741:-:ENST00000534717/ORF2

9028	chr1:113246006:->chr1:113245741:-	chr1:113246006:-:MIRb>chr1:113245741:-:ENST00000436685/ORF2
9029	chr1:113246006:->chr1:113245741:-	chr1:113246006:-:MIRb>chr1:113245741:-:ENST00000425265/ORF2
9030	chr1:113246006:->chr1:113245741:-	chr1:113246006:-:MIRb>chr1:113245741:-:ENST00000605933/ORF2
9031	chr1:113246006:->chr1:113245741:-	chr1:113246006:-:MIRb>chr1:113245741:-:ENST00000369636/ORF2
9032	chr1:113246006:->chr1:113245741:-	chr1:113246006:-:MIRb>chr1:113245741:-:ENST00000339083/ORF2
9033	chr1:113246006:->chr1:113245741:-	chr1:113246006:-:MIRb>chr1:113245741:-:ENST00000484054/ORF2
9034	chrX:67652709:->chrX:67600753:-	chrX:67652709:-:ENST00000355520>chrX:67600753:-:MIRb/ORF1
9035	chr4:25916044:+>chr4:25922319:+	chr4:25916044:+:ENST00000506197>chr4:25922319:+:Tigger3b/ORF1
9036	chr9:33796800:+>chr9:33797121:+	chr9:33796800:+:ENST00000457896>chr9:33797121:+:MER5B/ORF1
9037	chr9:33796800:+>chr9:33797121:+	chr9:33796800:+:ENST00000342836>chr9:33797121:+:MER5B/ORF1
9038	chr9:33796800:+>chr9:33797121:+	chr9:33796800:+:ENST00000379405>chr9:33797121:+:MER5B/ORF1
9039	chr9:33796800:+>chr9:33797121:+	chr9:33796800:+:ENST00000361005>chr9:33797121:+:MER5B/ORF1
9040	chr9:33796800:+>chr9:33797121:+	chr9:33796800:+:ENST00000429677>chr9:33797121:+:MER5B/ORF1
9041	chr4:103600768:->chr4:103595227:-	chr4:103600768:-:Zaphod3>chr4:103595227:-:ENST00000226578/ORF2
9042	chr17:59777799:->chr17:59770873:-	chr17:59777799:-:L1MB7>chr17:59770873:-:ENST00000259008/ORF2
9043	chr13:102182187:+>chr13:102220050:+	chr13:102182187:+:THE1C>chr13:102220050:+:ENST00000376180/ORF3
9044	chr10:101420239:+>chr10:101421203:+	chr10:101420239:+:L1MC4a>chr10:101421203:+:ENST00000370489/ORF1
9045	chr17:60100941:->chr17:60088594:-	chr17:60100941:-:LTR33A>chr17:60088594:-:ENST00000397786/ORF3
9046	chr1:223998133:->chr1:223996866:-	chr1:223998133:-:ENST00000343537>chr1:223996866:-:AluJb/ORF1
9047	chr1:154908672:->chr1:154904891:-	chr1:154908672:-:AluSx4>chr1:154904891:-:ENST00000368467/ORF3
9048	chr7:140522194:->chr7:140508795:-	chr7:140522194:-:L1ME1>chr7:140508795:-:ENST00000497784/ORF2
9049	chr7:140522194:->chr7:140508795:-	chr7:140522194:-:L1ME1>chr7:140508795:-:ENST00000288602/ORF2
9050	chr21:34973474:->chr21:34971591:-	chr21:34973474:-:AluSx1>chr21:34971591:-:ENST00000452420/ORF2
9051	chr21:34973474:->chr21:34971554:-	chr21:34973474:-:AluSx1>chr21:34971554:-:ENST00000381554/ORF2
9052	chr10:65359043:+>chr10:65361146:+	chr10:65359043:+:ENST00000298249>chr10:65361146:+:HAL1/ORF1
9053	chr10:65359043:+>chr10:65361146:+	chr10:65359043:+:ENST00000373758>chr10:65361146:+:HAL1/ORF1

9054	chr10:128215274:->chr10:128202508:-	chr10:128215274:-:L1MB7>chr10:128202508:-:ENST00000432642/ORF3
9055	chr10:128215274:->chr10:128202508:-	chr10:128215274:-:L1MB7>chr10:128202508:-:ENST00000463082/ORF3
9056	chr10:128215274:->chr10:128202508:-	chr10:128215274:-:L1MB7>chr10:128202508:-:ENST00000454341/ORF3
9057	chr10:128215274:->chr10:128202508:-	chr10:128215274:-:L1MB7>chr10:128202508:-:ENST00000284694/ORF3
9058	chr9:33035301:+>chr9:33036572:+	chr9:33035301:+:AluSq2>chr9:33036572:+:ENST00000330899/ORF3
9059	chr8:17097235:->chr8:17094882:-	chr8:17097235:-:AluY>chr8:17094882:-:ENST00000524358/ORF3
9060	chr8:17097235:->chr8:17094882:-	chr8:17097235:-:AluY>chr8:17094882:-:ENST00000519918/ORF3
9061	chr8:17097235:->chr8:17094882:-	chr8:17097235:-:AluY>chr8:17094882:-:ENST00000361272/ORF3
9062	chr8:17097235:->chr8:17094882:-	chr8:17097235:-:AluY>chr8:17094882:-:ENST00000523917/ORF3
9063	chr8:53483830:->chr8:53455005:-	chr8:53483830:-:MLT2A1>chr8:53455005:-:ENST00000358543/ORF2
9064	chr1:44680991:+>chr1:44684081:+	chr1:44680991:+:L2b>chr1:44684081:+:ENST00000361745/ORF2
9065	chr1:44680991:+>chr1:44684081:+	chr1:44680991:+:L2b>chr1:44684081:+:ENST00000372290/ORF2
9066	chr1:44680991:+>chr1:44683983:+	chr1:44680991:+:L2b>chr1:44683983:+:ENST00000361745/ORF2
9067	chr12:45716800:+>chr12:45725078:+	chr12:45716800:+:L4>chr12:45725078:+:ENST00000425752/ORF3
9068	chr5:171684365:->chr5:171661362:-	chr5:171684365:-:L1PA15>chr5:171661362:-:ENST00000393792/ORF3
9069	chr2:9527118:+>chr2:9528423:+	chr2:9527118:+:AluY>chr2:9528423:+:ENST00000281419/ORF1
9070	chr11:73359132:+>chr11:73360057:+	chr11:73359132:+:MIRc>chr11:73360057:+:ENST00000354190/ORF1
9071	chr19:10471638:->chr19:10468814:-	chr19:10471638:-:AluJr>chr19:10468814:-:ENST00000264818/ORF2
9072	chr19:10471638:->chr19:10469978:-	chr19:10471638:-:AluJr>chr19:10469978:-:ENST00000264818/ORF2
9073	chr10:89694519:+>chr10:89711875:+	chr10:89694519:+:AluSc>chr10:89711875:+:ENST00000371953/ORF3
9074	chr15:42151606:->chr15:42151178:-	chr15:42151606:-:AluSz>chr15:42151178:-:ENST00000320955/ORF3
9075	chr19:4703015:->chr19:4702728:-	chr19:4703015:-:MER20>chr19:4702728:-:ENST00000594671/ORF2
9076	chr7:55635973:->chr7:55588823:-	chr7:55635973:-:AluY>chr7:55588823:-:ENST00000285279/ORF3
9077	chr16:4406031:->chr16:4405373:-	chr16:4406031:-:AluSp>chr16:4405373:-:ENST00000572467/ORF3
9078	chrX:71492529:->chrX:71475904:-	chrX:71492529:-:ENST00000316084>chrX:71475904:-:L2b/ORF1
9079	chr8:74573935:->chr8:74529686:-	chr8:74573935:-:L1ME1>chr8:74529686:-:ENST00000518981/ORF1
9080	chr8:74573935:->chr8:74529686:-	chr8:74573935:-:L1ME1>chr8:74529686:-:ENST00000355780/ORF1

9081	chr8:74573935:->chr8:74529686:-	chr8:74573935:-:L1ME1>chr8:74529686:-:ENST00000521210/ORF1
9082	chr8:74573935:->chr8:74529686:-	chr8:74573935:-:L1ME1>chr8:74529686:-:ENST00000521447/ORF1
9083	chr8:74573935:->chr8:74529686:-	chr8:74573935:-:L1ME1>chr8:74529686:-:ENST00000522695/ORF1
9084	chr9:88264917:->chr9:88261333:-	chr9:88264917:-:L1M6>chr9:88261333:-:ENST00000432218/ORF3
9085	chr9:88264917:->chr9:88261333:-	chr9:88264917:-:L1M6>chr9:88261333:-:ENST00000376083/ORF3
9086	chrX:19559549:->chrX:19555898:-	chrX:19559549:-:MamRep137>chrX:19555898:-:ENST00000397821/ORF1
9087	chrX:134482809:+>chrX:134483035:+	chrX:134482809:+:MER33>chrX:134483035:+:ENST00000339249/ORF3
9088	chr4:83752626:->chr4:83750211:-	chr4:83752626:-:MER5A1>chr4:83750211:-:ENST00000503937/ORF3
9089	chr19:6365650:+>chr19:6366269:+	chr19:6365650:+:AluJb>chr19:6366269:+:ENST00000596605/ORF3
9090	chr19:6365650:+>chr19:6366269:+	chr19:6365650:+:AluJb>chr19:6366269:+:ENST00000597326/ORF3
9091	chr19:6365650:+>chr19:6366269:+	chr19:6365650:+:AluJb>chr19:6366269:+:ENST00000245816/ORF3
9092	chr2:172723242:->chr2:172712459:-	chr2:172723242:-:SVA_D>chr2:172712459:-:ENST00000422440/ORF2
9093	chr2:172723242:->chr2:172712459:-	chr2:172723242:-:SVA_D>chr2:172712459:-:ENST00000426896/ORF2
9094	chr2:172723334:->chr2:172712459:-	chr2:172723334:-:SVA_D>chr2:172712459:-:ENST00000422440/ORF2
9095	chr17:17815566:->chr17:17810845:-	chr17:17815566:-:SVA_D>chr17:17810845:-:ENST00000581396/ORF1
9096	chr2:172723242:->chr2:172712459:-	chr2:172723242:-:SVA_D>chr2:172712459:-:ENST00000475360/ORF2
9097	chr12:7120639:->chr12:7092700:-	chr12:7120639:-:L2b>chr12:7092700:-:ENST00000535479/ORF1
9098	chr8:113686332:->chr8:113678644:-	chr8:113686332:-:LTR78B>chr8:113678644:-:ENST00000343508/ORF1
9099	chr5:76108438:+>chr5:76128515:+	chr5:76108438:+:SVA_D>chr5:76128515:+:ENST00000296677/ORF2
9100	chr10:95225471:->chr10:95216694:-	chr10:95225471:-:AluSx>chr10:95216694:-:ENST00000371488/ORF1
9101	chr10:95225471:->chr10:95216694:-	chr10:95225471:-:AluSx>chr10:95216694:-:ENST00000371502/ORF1
9102	chr10:95225471:->chr10:95216694:-	chr10:95225471:-:AluSx>chr10:95216694:-:ENST00000371489/ORF1
9103	chr10:95225471:->chr10:95216694:-	chr10:95225471:-:AluSx>chr10:95216694:-:ENST00000358334/ORF1
9104	chr10:95225471:->chr10:95216694:-	chr10:95225471:-:AluSx>chr10:95216694:-:ENST00000371501/ORF1
9105	chr10:95225471:->chr10:95216694:-	chr10:95225471:-:AluSx>chr10:95216694:-:ENST00000359263/ORF1
9106	chr5:242876:+>chr5:251107:+	chr5:242876:+:HERVK9-int>chr5:251107:+:ENST00000264932/ORF2
9107	chr7:20686997:+>chr7:20687158:+	chr7:20686997:+:U2>chr7:20687158:+:ENST00000404938/ORF2

9108	chr4:25916293:+>chr4:25929935:+	chr4:25916293:+:MIRb>chr4:25929935:+:ENST00000506197/ORF1
9109	chr1:178806756:+>chr1:178846633:+	chr1:178806756:+:L1PA2>chr1:178846633:+:ENST00000367635/ORF3
9110	chr5:133691774:->chr5:133657594:-	chr5:133691774:-:MER1A>chr5:133657594:-:ENST00000265334/ORF2
9111	chr5:133691774:->chr5:133686118:-	chr5:133691774:-:MER1A>chr5:133686118:-:ENST00000265334/ORF2
9112	chr11:86534635:+>chr11:86561222:+	chr11:86534635:+:ENST00000532234>chr11:86561222:+:HERV30-int/ORF1
9113	chr10:51747031:+>chr10:51748511:+	chr10:51747031:+:THE1D>chr10:51748511:+:ENST00000374056/ORF1
9114	chr10:47219702:->chr10:47215080:-	chr10:47219702:-:ENST00000355232>chr10:47215080:-:THE1D/ORF1
9115	chr10:47214974:->chr10:47213479:-	chr10:47214974:-:THE1D>chr10:47213479:-:ENST00000452145/ORF1
9116	chr10:47232156:->chr10:46734639:-	chr10:47232156:-:ENST00000413193>chr10:46734639:-:THE1D/ORF1
9117	chr10:48197195:+>chr10:48214270:+	chr10:48197195:+:ENST00000453919>chr10:48214270:+:THE1D/ORF1
9118	chr10:51747031:+>chr10:51749068:+	chr10:51747031:+:THE1D>chr10:51749068:+:ENST00000412531/ORF1
9119	chr14:50671969:->chr14:50671127:-	chr14:50671969:-:AluJb>chr14:50671127:-:ENST00000216373/ORF3
9120	chr12:57081782:->chr12:57080459:-	chr12:57081782:-:ENST00000262033>chr12:57080459:-:AluSp/ORF1
9121	chr1:160283437:->chr1:160282957:-	chr1:160283437:-:AluY>chr1:160282957:-:ENST00000368069/ORF1
9122	chr2:26332775:+>chr2:26346251:+	chr2:26332775:+:ENST00000264710>chr2:26346251:+:Tigger2/ORF1
9123	chr2:101633566:->chr2:101628002:-	chr2:101633566:-:Tigger3b>chr2:101628002:-:ENST00000376840/ORF3
9124	chr2:130939522:->chr2:130934210:-	chr2:130939522:-:L2b>chr2:130934210:-:ENST00000351288/ORF1
9125	chr15:99433697:+>chr15:99434554:+	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000268035/ORF2
9126	chr15:99433697:+>chr15:99434554:+	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000558762/ORF2
9127	chr15:99433697:+>chr15:99434554:+	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000558355/ORF2
9128	chr22:46695582:+>chr22:46704047:+	chr22:46695582:+:L2>chr22:46704047:+:ENST00000454366/ORF1
9129	chr11:86534635:+>chr11:86561222:+	chr11:86534635:+:ENST00000532234>chr11:86561222:+:HERV30-int/ORF1
9130	chr7:99257739:->chr7:99250402:-	chr7:99257739:-:L1PA4>chr7:99250402:-:ENST00000222982/ORF3
9131	chr11:113632161:->chr11:113631640:-	chr11:113632161:-:AluJb>chr11:113631640:-:ENST00000535142/ORF1
9132	chr11:113632161:->chr11:113631640:-	chr11:113632161:-:AluJb>chr11:113631640:-:ENST00000200135/ORF1

9133	chr3:123648191:->chr3:123634565:-	chr3:123648191:-:AluJo>chr3:123634565:-:ENST00000310351/ORF2
9134	chr6:117763597:->chr6:117739669:-	chr6:117763597:-:THE1B>chr6:117739669:-:ENST00000368507/ORF1
9135	chr6:117763560:->chr6:117739669:-	chr6:117763560:-:THE1B>chr6:117739669:-:ENST00000368507/ORF1
9136	chr17:18250810:->chr17:18248741:-	chr17:18250810:-:ENST00000539052>chr17:18248741:-:AluSx1/ORF1
9137	chr17:18250810:->chr17:18248741:-	chr17:18250810:-:ENST00000316694>chr17:18248741:-:AluSx1/ORF1
9138	chr3:112278355:->chr3:112277264:-	chr3:112278355:-:L2a>chr3:112277264:-:ENST00000496423/ORF2
9139	chr3:112278355:->chr3:112277264:-	chr3:112278355:-:L2a>chr3:112277264:-:ENST00000283290/ORF2
9140	chr3:112278355:->chr3:112277264:-	chr3:112278355:-:L2a>chr3:112277264:-:ENST00000402314/ORF2
9141	chr11:31429090:+>chr11:31429657:+	chr11:31429090:+:AluJb>chr11:31429657:+:ENST00000527731/ORF1
9142	chr7:102793520:+>chr7:102939015:+	chr7:102793520:+:HERVE_a-int>chr7:102939015:+:ENST00000249269/ORF2
9143	chr14:52372666:+>chr14:52417368:+	chr14:52372666:+:THE1C>chr14:52417368:+:ENST00000553432/ORF2
9144	chr4:25916293:+>chr4:25929935:+	chr4:25916293:+:MIRb>chr4:25929935:+:ENST00000506197/ORF1
9145	chr10:123733905:->chr10:123733596:-	chr10:123733905:-:MER5A>chr10:123733596:-:ENST00000369023/ORF1
9146	chr10:123733911:->chr10:123733596:-	chr10:123733911:-:MER5A>chr10:123733596:-:ENST00000369023/ORF1
9147	chr10:123733944:->chr10:123733596:-	chr10:123733944:-:MER5A>chr10:123733596:-:ENST00000369023/ORF1
9148	chr12:123076000:+>chr12:123077407:+	chr12:123076000:+:ENST00000333479>chr12:123077407:+:LTR12C/ORF1
9149	chr8:15471132:+>chr8:15480589:+	chr8:15471132:+:THE1B>chr8:15480589:+:ENST00000382020/ORF3
9150	chr8:15471132:+>chr8:15480589:+	chr8:15471132:+:THE1B>chr8:15480589:+:ENST00000509380/ORF3
9151	chr8:15471132:+>chr8:15480589:+	chr8:15471132:+:THE1B>chr8:15480589:+:ENST00000503731/ORF3
9152	chr8:15471132:+>chr8:15480589:+	chr8:15471132:+:THE1B>chr8:15480589:+:ENST00000515859/ORF3
9153	chr8:15471132:+>chr8:15480589:+	chr8:15471132:+:THE1B>chr8:15480589:+:ENST00000506802/ORF3
9154	chr4:88940723:+>chr4:88952237:+	chr4:88940723:+:ENST00000237596>chr4:88952237:+:MER47B/ORF1
9155	chrX:149945390:->chrX:149944766:-	chrX:149945390:-:MER4A>chrX:149944766:-:ENST00000370377/ORF2
9156	chr12:22831248:+>chr12:22837417:+	chr12:22831248:+:L2>chr12:22837417:+:ENST00000266517/ORF1
9157	chr15:73055759:->chr15:73052868:-	chr15:73055759:-:AluSz>chr15:73052868:-:ENST00000569534/ORF3
9158	chr15:73055759:->chr15:73052868:-	chr15:73055759:-:AluSz>chr15:73052868:-:ENST00000311669/ORF3

9159	chr15:73055759:->chr15:73052868:-	chr15:73055759:-:AluSz>chr15:73052868:-:ENST00000565814/ORF3
9160	chr15:73055759:->chr15:73052868:-	chr15:73055759:-:AluSz>chr15:73052868:-:ENST00000563907/ORF3
9161	chr10:123903221:+>chr10:123906127:+	chr10:123903221:+:ENST00000369005>chr10:123906127:+:MSTC/ORF1
9162	chr5:14490172:+>chr5:14492676:+	chr5:14490172:+:AluSx3>chr5:14492676:+:ENST00000512070/ORF3
9163	chr5:14490172:+>chr5:14492676:+	chr5:14490172:+:AluSx3>chr5:14492676:+:ENST00000344204/ORF3
9164	chr1:155368337:->chr1:155365344:-	chr1:155368337:-:Tigger3b>chr1:155365344:-:ENST00000368346/ORF2
9165	chr9:17365375:+>chr9:17366615:+	chr9:17365375:+:MSTA>chr9:17366615:+:ENST00000380647/ORF2

4.3 Methods

Total proteomics:

For the discovery of fusions or JETs (junctions exon-TE) at the proteome level, publicly available data from lung primary tumors published in Stewart *et al.* in Cell 2019 (raw files downloaded from PRIDE database – accession code PXD010357) was used.

Briefly, total protein extracts were obtained from cell lines or tumours and were subsequently digested with trypsin. The resulting peptides were chemically labelled with isobaric tags using TMT, where different samples were analysed in the same experiment, together with an internal reference standard. Peptides were fractionated offline through HPLC and different fractions from each experiment were run on the mass spectrometer separately (Orbitrap Fusion or Orbitrap Fusion Lumos, from Thermo-Fisher). Further details regarding the experimental procedures and analysis are available in the corresponding publications.

Raw output files from mass spectrometry runs were interrogated using Proteome Discoverer 2.4 (Thermo-Fisher), with Sequest-HT as search engine. Customized databases were used to query the mass spectrometry peaks, both of them including Swissprot and TrEMBL canonical sequences, as well as the in silico translation of lung tumor-specific JET sequences predicted from different datasets (lung TCGA and CCLE). Protein cleavage was specified as Trypsin allowing for a maximum of 2 miss-cleavages. Peptide FDR was set to 1% while protein FDR was allowed to 100%, to focus our search on the investigation of peptides. The mass tolerance for peptides was 4.5ppm and fragment tolerance 0.02Da. Carbamidomethylation of Cysteines was set as fixed modification. For the quantification, signals from TMT reporters were obtained using MS2 or MS3 fragmentation, paired with the MS2 scans for peptide identification. Only

junctions containing an identified peptide overlapping junction and involving a gene located into plasma membrane according to Uniprot annotation were kept.

Surface enrichment proteomics

Lung adenocarcinoma cell line H1650 (ATCC) was grown in RPMI media, supplemented with fetal bovine serum and 1% penicillin/streptomycin at 37°C in an atmosphere at 5% CO2. 10 million cells at around 85% confluency were used for the enrichment of their surface proteome using the Pierce Cell Surface Protein Biotinylation and Isolation kit (Thermo Scientific, catalog number A44390).

Media was removed from adherent cells, which were washed with PBS and biotinylated using the provided sulfo-NHS-SS-Biotin in the kit. After incubating for 10 minutes at room temperature, the labelling solution was removed and cells were washed twice with ice-cold TBS. Cells were subsequently scrapped in ice-cold TBS, pelleted down by centrifugation at 500g for 3 minutes at 4°C and lysed using the provided lysis buffer in the kit, supplemented with protease inhibitors. For the complete disruption of cells, they were incubated in the presence of buffer during 30 minutes on ice. The resulting extract was cleared by centrifugation at 15000g for 5 minutes at 4°C.

In order to capture the labelled proteins, the extract was incubated with NeutrAvidin agarose beads on the provided columns in the kit, for 30 minutes at room temperature on an end-over-end rotator. After incubation, unbound material was discarded by centrifugation of column. Beads were cleaned using the supplied Wash Buffer and shortly centrifugating to discard flow-through. A total of 4 washes with Wash Buffer were carried out, followed by 3 more washes with 20mM Tris-HCl (pH 8). Elution of biotinylated proteins was performed using 100ul Elution buffer (10mM Tris-HCl (pH 8) 10mM DTT), allowing to incubate with beads for 45 minutes at room temperature in an end-over-end rotator. Enriched proteins were finally recovered by centrifugation of column for 2 minutes at 1000g.

Eluted was used for following analysis. Proteins were alkylated using 5.5mM CAA for 30 minutes at room temperature in the dark. After verification of pH (between 7-9), in-solution digestion of proteins was then carried out using Trypsin in a 1:100 ratio (protein:enzyme) over the night, at room temperature. Trypsinization was stopped by acidifing the sample with TFA.

Resulting peptides were desalted using in-house packed microcolumns of C18 material. Columns were washed with 70%ACN 0.1%TFA and equilibrated with 0.1%TFA. Sample was loaded and further washed with 0.1%TFA, then peptides were eluted with 40%ACN 0.1%TFA.

Cleaned peptides were then dried down completely prior to their LC-MS/MS analysis in Orbitrap Fusion (Thermo Scientific).

The following tables 14 and 15 respectively refer to the detailed identification of the proteins (or peptides as the term as used herein as synonyms) of SEQ ID NO 1 to 1423 translated from the fusion transcripts wherein the exon is the donor and the chimeric proteins of SEQ ID NO 1424 to 8202 translated from the fusion transcripts wherein the TE is the donor. This set of (transmembrane) neoantigenic peptides was obtained by selecting the fusion transcripts having an exonic sequence which is annotated in normal proteome databases (such as herein UNIPROT) as belonging to a transcript coding for a transmembrane protein. The breakpoint column gives the position of the breakpoint between the exon-derived aa sequence and the TE-derived aa sequence. The last column in each table refers to the various chimeric proteins (identified by their SEQ ID NO) that are derived from splice variants of the same JET (or fusion).

Tables 16-18 relates to metafusions. Metafusions are the combinations of 2 fusions.

For example in the tables below, metaFusion_id : chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:- is made of the 2 chimeric id that are part of the metafusion. Column's numbers refer to the following items:

Col. number	Exon donor (table 16)	TE donor (table 17)
1	Fusion_id	Fusion_id
2	common_metafusion_id	common_metafusion_id
3	Donor_Chromosome_Exon	Donor_Chromosome_TE
4	Donor_start_Exon	Donor_start_TE
5	Donor_Breakpoint_Exon	Donor_Breakpoint_TE
6	Donor_tx_name_Exon	Donor_strand_TE
7	Donor_strand_Exon	Acceptor_Chromosome_Exon
8	Acceptor_Chromosome_TE	Acceptor_Breakpoint_Exon
9	Acceptor_Breakpoint_TE	Acceptor_end_Exon
10	Acceptor_end_TE	Acceptor_strand_Exon
11	Acceptor_strand_TE	Acceptor_tx_name_Exon
12	Tissue	Tissue

Table 18 provides the metafusion_id, transcript, ORF and name for metafusion peptides (or proteins used herein as synonyms) of SEQ ID NO:9166 to 10163.

Tables 19 and 20 respectively refer to the detailed identification of the translated fusion peptides of SEQ ID NO 10164 to 12830 translated from the fusion transcripts wherein the exon is the

donor and of the translated fusion peptides of SEQ ID NO 12331 to 21452 translated from the fusion transcripts wherein the TE is the donor. The column numbers refer to the following:

col number	exon donor (table 19)	TE donor (table 20)
1	Fusion_id	Fusion_id
2	Donor_Chromosome_Exon	Donor_Chromosome_TE
3	Donor_start_Exon	Donor_start_TE
4	Donor_Breakpoint_Exon	Donor_Breakpoint_TE
5	Donor_tx_name_Exon	Donor_strand_TE
6	Donor_strand_Exon	Acceptor_Chromosome_Exon
7	Acceptor_Chromosome_TE	Acceptor_Breakpoint_Exon
8	Acceptor_Breakpoint_TE	Acceptor_end_Exon
9	Acceptor_end_TE	Acceptor_strand_Exon
10	Acceptor_strand_TE	Acceptor_tx_name_Exon
11	Position	Position
12	Breakpoint_position_in_AA	Breakpoint_position_in_AA
13	Tissue	Tissue

The column 11 (position) gives reference to the SEQ ID of the peptides translated from the corresponding transcripts (mentioned herein as tx in the column) and that are associated to each fusion id. SEQ ID can be obtained by adding 10163 to the numbers of column 11 for table 19 and 12330 to the numbers of column 11 for table 20. Column 12 give the position of the breakpoint for each of the translated peptides of column 11.

Tables 19bis and 20bis refers to the corresponding peptides obtained from exon or TE donor fusions from tables 19 and 20 and referred to in these tables. The tables provides the fusion id, ORF, names of the transcripts and of the TE involved in the fusion.

Table 4

	Gene	ORF	Fusion_id	BreakPoint
1	MUC16	ORF1,chr19:8961952:-:ENST00000397910>chr19:8958092:-:LTR1B	chr19:8961952:->chr19:8958092:-	14475
2	GPR98	ORF1,chr5:90398157:+:ENST00000405460>chr5:90444891:+:THE1D-int	chr5:90398157:+>chr5:90444891:+	6144
3	GPR98	ORF1,chr5:90398157:+:ENST00000405460>chr5:90412152:+:MIRb	chr5:90398157:+>chr5:90412152:+	6144
4	LRP1	ORF1,chr12:57606044:+:ENST00000243077>chr12:57610579:+:GC_rich	chr12:57606044:+>chr12:57610579:+	4498
5	SYNE2	ORF1,chr14:64554574:+:ENST00000554584>chr14:64555808:+:AluSq	chr14:64554574:+>chr14:64555808:+	3923
6	LRP2	ORF1,chr2:170018982:-:ENST00000263816>chr2:170017592:-:MIR3	chr2:170018982:->chr2:170017592:-	3962
7	SYNE2	ORF1,chr14:64554574:+:ENST00000358025>chr14:64555808:+:AluSq	chr14:64554574:+>chr14:64555808:+	3890
8	SYNE2	ORF1,chr14:64554574:+:ENST00000344113>chr14:64555808:+:AluSq	chr14:64554574:+>chr14:64555808:+	3890
9	PKHD1	ORF1,chr6:51609183:-:ENST00000371117>chr6:51608386:-:L2a	chr6:51609183:->chr6:51608386:-	3385
10	PKHD1	ORF1,chr6:51609183:-:ENST00000340994>chr6:51608386:-:L2a	chr6:51609183:->chr6:51608386:-	3385
11	NOTCH3	ORF1,chr19:15273276:-:ENST00000263388>chr19:15272955:-:AluSz	chr19:15273276:->chr19:15272955:-	1971
12	LRBA	ORF1,chr4:151719233:-:ENST00000535741>chr4:151703761:-:MLT1D	chr4:151719233:->chr4:151703761:-	1860
13	LRBA	ORF1,chr4:151719233:-:ENST00000510413>chr4:151703761:-:MLT1D	chr4:151719233:->chr4:151703761:-	1860
14	LRBA	ORF1,chr4:151719233:-:ENST00000357115>chr4:151703761:-:MLT1D	chr4:151719233:->chr4:151703761:-	1860
15	LRBA	ORF1,chr4:151719233:-:ENST00000507224>chr4:151703761:-:MLT1D	chr4:151719233:->chr4:151703761:-	1860
16	GPR98	ORF1,chr5:90398157:+:ENST00000425867>chr5:90444891:+:THE1D-int	chr5:90398157:+>chr5:90444891:+	1805
17	GPR98	ORF1,chr5:90398157:+:ENST00000425867>chr5:90412152:+:MIRb	chr5:90398157:+>chr5:90412152:+	1805
18	ROS1	ORF1,chr6:117650492:-:ENST00000368508>chr6:117648743:-:MIR	chr6:117650492:->chr6:117648743:-	1788
19	ROS1	ORF1,chr6:117650492:-:ENST00000368507>chr6:117648743:-:MIR	chr6:117650492:->chr6:117648743:-	1782
20	FAT2	ORF1,chr5:150928856:-:ENST00000261800>chr5:150928335:-:AluSx	chr5:150928856:->chr5:150928335:-	1596
21	FAT2	ORF1,chr5:150928856:-:ENST00000261800>chr5:150928172:-:AluSx	chr5:150928856:->chr5:150928172:-	1596
22	FAT2	ORF1,chr5:150928856:-:ENST00000261800>chr5:150928204:-:AluSx	chr5:150928856:->chr5:150928204:-	1596
23	FRAS1	ORF1,chr4:79308855:+:ENST00000325942>chr4:79309817:+:AluJb	chr4:79308855:+>chr4:79309817:+	1325
24	FRAS1	ORF1,chr4:79308855:+:ENST00000264895>chr4:79309817:+:AluJb	chr4:79308855:+>chr4:79309817:+	1325
25	ABCC1	ORF1,chr16:16225792:+:ENST00000399408>chr16:16227957:+:LTR83	chr16:16225792:+>chr16:16227957:+	1332
26	ABCC1	ORF1,chr16:16225792:+:ENST00000399410>chr16:16227957:+:LTR83	chr16:16225792:+>chr16:16227957:+	1322
27	ABCC1	ORF1,chr16:16225792:+:ENST00000345148>chr16:16227957:+:LTR83	chr16:16225792:+>chr16:16227957:+	1322
28	ATRN	ORF1,chr20:3615036:+:ENST00000262919>chr20:3615708:+:L1PB1	chr20:3615036:+>chr20:3615708:+	1314
29	NOTCH3	ORF1,chr19:15289634:-:ENST00000263388>chr19:15289326:-:AluSx1	chr19:15289634:->chr19:15289326:-	1279
30	SCN3A	ORF1,chr2:165969395:-:ENST00000360093>chr2:165963542:-:L2	chr2:165969395:->chr2:165963542:-	1281
31	SCN3A	ORF1,chr2:165969395:-:ENST00000283254>chr2:165963542:-:L2	chr2:165969395:->chr2:165963542:-	1281
32	NOTCH3	ORF1,chr19:15289634:-:ENST00000263388>chr19:15289358:-:AluSx1	chr19:15289634:->chr19:15289358:-	1279
33	NOTCH3	ORF1,chr19:15289634:-:ENST00000263388>chr19:15289244:-:AluSx1	chr19:15289634:->chr19:15289244:-	1279
34	ATRN	ORF1,chr20:3584909:+:ENST00000262919>chr20:3586253:+:L1PA11	chr20:3584909:+>chr20:3586253:+	1267
35	ATRN	ORF1,chr20:3584909:+:ENST00000446916>chr20:3586253:+:L1PA11	chr20:3584909:+>chr20:3586253:+	1267
36	ABCC1	ORF1,chr16:16225792:+:ENST00000346370>chr16:16227957:+:LTR83	chr16:16225792:+>chr16:16227957:+	1266
37	ATP10D	ORF1,chr4:47584081:+:ENST00000273859>chr4:47584886:+:AluJr	chr4:47584081:+>chr4:47584886:+	1251
38	NOTCH3	ORF1,chr19:15289634:-:ENST00000601011>chr19:15289326:-:AluSx1	chr19:15289634:->chr19:15289326:-	1226
39	ABCC1	ORF1,chr16:16225792:+:ENST00000351154>chr16:16227957:+:LTR83	chr16:16225792:+>chr16:16227957:+	1263
40	SCN3A	ORF1,chr2:165969395:-:ENST00000409101>chr2:165963542:-:L2	chr2:165969395:->chr2:165963542:-	1232
41	SCN3A	ORF1,chr2:165969395:-:ENST00000440431>chr2:165963542:-:L2	chr2:165969395:->chr2:165963542:-	1232
42	TENM1	ORF1,chrX:123621059:-:ENST00000422452>chrX:123617935:-:L1MC3	chrX:123621059:->chrX:123617935:-	1238
43	NOTCH3	ORF1,chr19:15289634:-:ENST00000601011>chr19:15289358:-:AluSx1	chr19:15289634:->chr19:15289358:-	1226
44	TRPM4	ORF1,chr19:49714526:+:ENST00000252826>chr19:49739844:+:MER54B	chr19:49714526:+>chr19:49739844:+	1213
45	NOTCH3	ORF1,chr19:15289634:-:ENST00000601011>chr19:15289244:-:AluSx1	chr19:15289634:->chr19:15289244:-	1226
46	ABCC1	ORF1,chr16:16225792:+:ENST00000349029>chr16:16227957:+:LTR83	chr16:16225792:+>chr16:16227957:+	1207
47	KIAA0922	ORF1,chr4:154533552:+:ENST00000409959>chr4:154534436:+:HAL1b	chr4:154533552:+>chr4:154534436:+	1189
48	KIAA0922	ORF1,chr4:154533552:+:ENST00000409663>chr4:154534436:+:HAL1b	chr4:154533552:+>chr4:154534436:+	1188
49	MUC16	ORF1,chr19:8961952:-:ENST00000380951>chr19:8958092:-:LTR1B	chr19:8961952:->chr19:8958092:-	1116
50	CFTR	ORF1,chr7:117254767:+:ENST00000003084>chr7:117258279:+:L2	chr7:117254767:+>chr7:117258279:+	1156
51	CFTR	ORF1,chr7:117254767:+:ENST00000426809>chr7:117258279:+:L2	chr7:117254767:+>chr7:117258279:+	1126
52	ATP2B3	ORF1,chrX:152830561:+:ENST00000349466>chrX:152831276:+:L2	chrX:152830561:+>chrX:152831276:+	1114
53	ATP2B3	ORF1,chrX:152830561:+:ENST00000359149>chrX:152831276:+:L2	chrX:152830561:+>chrX:152831276:+	1114
54	ATP2B3	ORF1,chrX:152830561:+:ENST00000263519>chrX:152831276:+:L2	chrX:152830561:+>chrX:152831276:+	1114
55	ESYT1	ORF1,chr12:56537413:+:ENST00000267113>chr12:56543734:+:LTR47A	chr12:56537413:+>chr12:56543734:+	1101
56	ESYT1	ORF1,chr12:56537413:+:ENST00000541590>chr12:56543734:+:LTR47A	chr12:56537413:+>chr12:56543734:+	1101
57	ESYT1	ORF1,chr12:56537413:+:ENST00000394048>chr12:56543734:+:LTR47A	chr12:56537413:+>chr12:56543734:+	1091
58	ATP2B3	ORF1,chrX:152830561:+:ENST00000370186>chrX:152831276:+:L2	chrX:152830561:+>chrX:152831276:+	1100
59	ATP2B3	ORF1,chrX:152830561:+:ENST00000393842>chrX:152831276:+:L2	chrX:152830561:+>chrX:152831276:+	1100
60	ATP2B3	ORF1,chrX:152830561:+:ENST00000370181>chrX:152831276:+:L2	chrX:152830561:+>chrX:152831276:+	1100
61	KIAA0922	ORF1,chr4:154533552:+:ENST00000440693>chr4:154534436:+:HAL1b	chr4:154533552:+>chr4:154534436:+	1105
62	CFTR	ORF1,chr7:117254767:+:ENST00000454343>chr7:117258279:+:L2	chr7:117254767:+>chr7:117258279:+	1095
63	TRPM4	ORF1,chr19:49714526:+:ENST00000427978>chr19:49739844:+:MER54B	chr19:49714526:+>chr19:49739844:+	1068
64	ATP1A3	ORF1,chr19:42471401:-:ENST00000545399>chr19:42470173:-:AluSx	chr19:42471401:->chr19:42470173:-	1017
65	ATP1A3	ORF1,chr19:42471401:-:ENST00000543770>chr19:42470173:-:AluSx	chr19:42471401:->chr19:42470173:-	1015
66	CDH23	ORF1,chr10:73464887:+:ENST00000299366>chr10:73466221:+:MIRb	chr10:73464887:+>chr10:73466221:+	1029
67	PCDH10	ORF1,chr4:134084437:+:ENST00000264360>chr4:134129231:+:MLT1F2	chr4:134084437:+>chr4:134129231:+	1034

68	ATP1A3	ORF1,chr19:42471401:-:ENST00000441343>chr19:42470173:-:AluSx	chr19:42471401:->chr19:42470173:-	1004
69	ATP1A3	ORF1,chr19:42471401:-:ENST00000302102>chr19:42470173:-:AluSx	chr19:42471401:->chr19:42470173:-	1004
70	DSCAML1	ORF1,chr11:117342584:-:ENST00000321322>chr11:117342050:-:AluSx	chr11:117342584:->chr11:117342050:-	1044
71	KIAA1324L	ORF1,chr7:86521040:-:ENST00000450689>chr7:86458061:-:Tigger1	chr7:86521040:->chr7:86458061:-	1010
72	KIAA0319	ORF1,chr6:24551662:-:ENST00000378214>chr6:24548828:-:MER61B	chr6:24551662:->chr6:24548828:-	1013
73	KIAA0319	ORF1,chr6:24551662:-:ENST00000543707>chr6:24548828:-:MER61B	chr6:24551662:->chr6:24548828:-	1013
74	ATP1A3	ORF1,chr19:42471401:-:ENST00000602133>chr19:42470173:-:AluSx	chr19:42471401:->chr19:42470173:-	974
75	KIAA0319	ORF1,chr6:24551662:-:ENST00000535378>chr6:24548828:-:MER61B	chr6:24551662:->chr6:24548828:-	1004
76	ATP1A2	ORF1,chr1:160109774:+:ENST00000361216>chr1:160110441:+:MER102b	chr1:160109774:+>chr1:160110441:+	1011
77	CDH23	ORF1,chr10:73464887:+:ENST00000224721>chr10:73466221:+:MIRb	chr10:73464887:+>chr10:73466221:+	989
78	ATP1A2	ORF1,chr1:160109774:+:ENST00000361216>chr1:160110396:+:MER102b	chr1:160109774:+>chr1:160110396:+	1011
79	EGFR	ORF1,chr7:55268106:+:ENST00000275493>chr7:55268471:+:MIRb	chr7:55268106:+>chr7:55268471:+	982
80	ATP1A2	ORF1,chr1:160109774:+:ENST00000392233>chr1:160110441:+:MER102b	chr1:160109774:+>chr1:160110441:+	1000
81	ATP1A2	ORF1,chr1:160109774:+:ENST00000392233>chr1:160110396:+:MER102b	chr1:160109774:+>chr1:160110396:+	1000
82	KIAA0319	ORF1,chr6:24551662:-:ENST00000430948>chr6:24548828:-:MER61B	chr6:24551662:->chr6:24548828:-	968
83	ABCC8	ORF1,chr11:17428901:-:ENST00000302539>chr11:17428756:-:MIRc	chr11:17428901:->chr11:17428756:-	974
84	KIAA1324L	ORF1,chr7:86521040:-:ENST00000444627>chr7:86458061:-:Tigger1	chr7:86521040:->chr7:86458061:-	939
85	ABCC8	ORF1,chr11:17428901:-:ENST00000389817>chr11:17428756:-:MIRc	chr11:17428901:->chr11:17428756:-	973
86	EGFR	ORF1,chr7:55268106:+:ENST00000455089>chr7:55268471:+:MIRb	chr7:55268106:+>chr7:55268471:+	937
87	KIAA0922	ORF1,chr4:154533552:+:ENST00000240487>chr4:154534436:+:HAL1b	chr4:154533552:+>chr4:154534436:+	966
88	EGFR	ORF1,chr7:55268106:+:ENST00000454757>chr7:55268471:+:MIRb	chr7:55268106:+>chr7:55268471:+	929
89	ATP1A2	ORF1,chr1:160106821:+:ENST00000361216>chr1:160108093:+:Charlie19a	chr1:160106821:+>chr1:160108093:+	946
90	ATP1A2	ORF1,chr1:160106821:+:ENST00000392233>chr1:160108093:+:Charlie19a	chr1:160106821:+>chr1:160108093:+	946
91	KCNU1	ORF1,chr8:36780147:+:ENST00000399881>chr8:36786424:+:MER5A	chr8:36780147:+>chr8:36786424:+	912
92	KCNU1	ORF1,chr8:36780147:+:ENST00000522372>chr8:36786424:+:MER5A	chr8:36780147:+>chr8:36786424:+	912
93	ATP1A1	ORF1,chr1:116943811:+:ENST00000295598>chr1:116954291:+:AluSq	chr1:116943811:+>chr1:116954291:+	926
94	ATP1A1	ORF1,chr1:116943811:+:ENST00000537345>chr1:116954291:+:AluSq	chr1:116943811:+>chr1:116954291:+	926
95	ABCC5	ORF1,chr3:183677521:-:ENST00000334444>chr3:183672947:-:MER4D0	chr3:183677521:->chr3:183672947:-	827
96	ABCC5	ORF1,chr3:183677521:-:ENST00000265586>chr3:183672947:-:MER4D0	chr3:183677521:->chr3:183672947:-	827
97	ABCC1	ORF1,chr16:16196574:+:ENST00000399408>chr16:16197279:+:AluSx1	chr16:16196574:+>chr16:16197279:+	921
98	ABCC1	ORF1,chr16:16196574:+:ENST00000399410>chr16:16197279:+:AluSx1	chr16:16196574:+>chr16:16197279:+	911
99	ABCC1	ORF1,chr16:16196574:+:ENST00000345148>chr16:16197279:+:AluSx1	chr16:16196574:+>chr16:16197279:+	911
100	PROM1	ORF1,chr4:15981018:-:ENST00000447510>chr4:15980303:-:LTR87	chr4:15981018:->chr4:15980303:-	860
101	PROM1	ORF1,chr4:15981018:-:ENST00000510224>chr4:15980303:-:LTR87	chr4:15981018:->chr4:15980303:-	860
102	ATP1A1	ORF1,chr1:116943811:+:ENST00000369496>chr1:116954291:+:AluSq	chr1:116943811:+>chr1:116954291:+	895
103	LDLR	ORF1,chr19:11240346:+:ENST00000557933>chr19:11243599:+:AluJo	chr19:11240346:+>chr19:11243599:+	869
104	PROM1	ORF1,chr4:15981018:-:ENST00000505450>chr4:15980303:-:LTR87	chr4:15981018:->chr4:15980303:-	851
105	PROM1	ORF1,chr4:15981018:-:ENST00000508167>chr4:15980303:-:LTR87	chr4:15981018:->chr4:15980303:-	851
106	ITGA8	ORF1,chr10:15614210:-:ENST00000378076>chr10:15610215:-:AluJr	chr10:15614210:->chr10:15610215:-	879
107	SLC12A2	ORF1,chr5:127497492:+:ENST00000262461>chr5:127498715:+:MER30	chr5:127497492:+>chr5:127498715:+	872
108	SLC12A2	ORF1,chr5:127497492:+:ENST00000509205>chr5:127498715:+:MER30	chr5:127497492:+>chr5:127498715:+	872
109	SLC12A2	ORF1,chr5:127497492:+:ENST00000343225>chr5:127498715:+:MER30	chr5:127497492:+>chr5:127498715:+	872
110	KIAA1324L	ORF1,chr7:86521040:-:ENST00000416314>chr7:86458061:-:Tigger1	chr7:86521040:->chr7:86458061:-	843
111	ROS1	ORF1,chr6:117700222:-:ENST00000368508>chr6:117693892:-:LTR12C	chr6:117700222:->chr6:117693892:-	865
112	TRPM4	ORF1,chr19:49714526:+:ENST00000355712>chr19:49739844:+:MER54B	chr19:49714526:+>chr19:49739844:+	859
113	PROM1	ORF1,chr4:15981018:-:ENST00000447510>chr4:15973998:-:MSTD	chr4:15981018:->chr4:15973998:-	860
114	PROM1	ORF1,chr4:15981018:-:ENST00000510224>chr4:15973998:-:MSTD	chr4:15981018:->chr4:15973998:-	860
115	ROS1	ORF1,chr6:117700222:-:ENST00000368507>chr6:117693892:-:LTR12C	chr6:117700222:->chr6:117693892:-	860
116	PROM1	ORF1,chr4:15981018:-:ENST00000505450>chr4:15973998:-:MSTD	chr4:15981018:->chr4:15973998:-	851
117	PROM1	ORF1,chr4:15981018:-:ENST00000508167>chr4:15973998:-:MSTD	chr4:15981018:->chr4:15973998:-	851
118	LDLR	ORF1,chr19:11240346:+:ENST00000558518>chr19:11243599:+:AluJo	chr19:11240346:+>chr19:11243599:+	849
119	LDLR	ORF1,chr19:11240346:+:ENST00000558013>chr19:11243599:+:AluJo	chr19:11240346:+>chr19:11243599:+	849
120	ABCC1	ORF1,chr16:16196574:+:ENST00000346370>chr16:16197279:+:AluSx1	chr16:16196574:+>chr16:16197279:+	855
121	ABCC1	ORF1,chr16:16196574:+:ENST00000351154>chr16:16197279:+:AluSx1	chr16:16196574:+>chr16:16197279:+	852
122	GRIA1	ORF1,chr5:153182050:+:ENST00000448073>chr5:153182478:+:L3	chr5:153182050:+>chr5:153182478:+	850
123	GRIA1	ORF1,chr5:153182050:+:ENST00000518783>chr5:153182478:+:L3	chr5:153182050:+>chr5:153182478:+	850
124	UNC5B	ORF1,chr10:73056499:+:ENST00000335350>chr10:73057337:+:MIR3	chr10:73056499:+>chr10:73057337:+	830
125	GRIA1	ORF1,chr5:153182050:+:ENST00000285900>chr5:153182478:+:L3	chr5:153182050:+>chr5:153182478:+	840
126	GRIA1	ORF1,chr5:153182050:+:ENST00000340592>chr5:153182478:+:L3	chr5:153182050:+>chr5:153182478:+	840
127	GRIK2	ORF1,chr6:102483441:+:ENST00000369138>chr6:102495349:+:AluSx3	chr6:102483441:+>chr6:102495349:+	770
128	GRIK2	ORF1,chr6:102483441:+:ENST00000413795>chr6:102495349:+:AluSx3	chr6:102483441:+>chr6:102495349:+	770
129	GRIK2	ORF1,chr6:102483441:+:ENST00000421544>chr6:102495349:+:AluSx3	chr6:102483441:+>chr6:102495349:+	770
130	GRIK2	ORF1,chr6:102483441:+:ENST00000318991>chr6:102495349:+:AluSx3	chr6:102483441:+>chr6:102495349:+	770
131	UNC5B	ORF1,chr10:73056499:+:ENST00000373192>chr10:73057337:+:MIR3	chr10:73056499:+>chr10:73057337:+	819
132	DSG2	ORF1,chr18:29125786:+:ENST00000261590>chr18:29127576:+:AluSx1	chr18:29125786:+>chr18:29127576:+	812
133	ITGB1	ORF1,chr10:33197296:-:ENST00000423113>chr10:33039666:-:LTR33	chr10:33197296:->chr10:33039666:-	777
134	ITGB1	ORF1,chr10:33197296:-:ENST00000396033>chr10:33039666:-:LTR33	chr10:33197296:->chr10:33039666:-	777

135	ITGB1	ORF1,chr10:33197296:-:ENST00000302278>chr10:33039666:-:LTR33	chr10:33197296:->chr10:33039666:-	777
136	ITGB1	ORF1,chr10:33197296:-:ENST00000374956>chr10:33039666:-:LTR33	chr10:33197296:->chr10:33039666:-	777
137	LDLR	ORF1,chr19:11240346:+:ENST00000535915>chr19:11243599:+:AluJo	chr19:11240346:+>chr19:11243599:+	808
138	CDH26	ORF1,chr20:58581842:+:ENST00000348616>chr20:58600042:+:MLT1J	chr20:58581842:+>chr20:58600042:+	765
139	KIAA1324L	ORF1,chr7:86521040:-:ENST00000297222>chr7:86458061:-:Tigger1	chr7:86521040:->chr7:86458061:-	770
140	ABCC1	ORF1,chr16:16196574:+:ENST00000349029>chr16:16197279:+:AluSx1	chr16:16196574:+>chr16:16197279:+	796
141	ATP1A3	ORF1,chr19:42479791:-:ENST00000545399>chr19:42475038:-:AluY	chr19:42479791:->chr19:42475038:-	764
142	GRAMD1A	ORF1,chr19:35514451:+:ENST00000599564>chr19:35514601:+:MIR3	chr19:35514451:+>chr19:35514601:+	777
143	GRIK2	ORF1,chr6:102483441:+:ENST00000369134>chr6:102495349:+:AluSx3	chr6:102483441:+>chr6:102495349:+	721
144	ATP1A3	ORF1,chr19:42479791:-:ENST00000543770>chr19:42475038:-:AluY	chr19:42479791:->chr19:42475038:-	762
145	DSCAML1	ORF1,chr11:117342584:-:ENST00000527706>chr11:117342050:-:AluSx	chr11:117342584:->chr11:117342050:-	774
146	CDH3	ORF1,chr16:68729826:+:ENST00000264012>chr16:68761056:+:MLT2B3	chr16:68729826:+>chr16:68761056:+	760
147	CDH3	ORF1,chr16:68729826:+:ENST00000429102>chr16:68761056:+:MLT2B3	chr16:68729826:+>chr16:68761056:+	760
148	ATP1A3	ORF1,chr19:42479791:-:ENST00000441343>chr19:42475038:-:AluY	chr19:42479791:->chr19:42475038:-	751
149	ATP1A3	ORF1,chr19:42479791:-:ENST00000302102>chr19:42475038:-:AluY	chr19:42479791:->chr19:42475038:-	751
150	GRIA1	ORF1,chr5:153182050:+:ENST00000521843>chr5:153182478:+:L3	chr5:153182050:+>chr5:153182478:+	771
151	CDH26	ORF1,chr20:58581842:+:ENST00000244047>chr20:58600042:+:MLT1J	chr20:58581842:+>chr20:58600042:+	724
152	PCDH15	ORF1,chr10:55826517:-:ENST00000373965>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	747
153	PCDH15	ORF1,chr10:55826517:-:ENST00000395445>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	747
154	SDK1	ORF1,chr7:4026954:+:ENST00000404826>chr7:4027977:+:L2c	chr7:4026954:+>chr7:4027977:+	710
155	SDK1	ORF1,chr7:4026954:+:ENST00000389531>chr7:4027977:+:L2c	chr7:4026954:+>chr7:4027977:+	710
156	PCDH15	ORF1,chr10:55826517:-:ENST00000414778>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	745
157	ITGB2	ORF1,chr21:46306651:-:ENST00000397852>chr21:46302588:-:LTR26E	chr21:46306651:->chr21:46302588:-	749
158	ITGB2	ORF1,chr21:46306651:-:ENST00000397857>chr21:46302588:-:LTR26E	chr21:46306651:->chr21:46302588:-	749
159	ITGB2	ORF1,chr21:46306651:-:ENST00000355153>chr21:46302588:-:LTR26E	chr21:46306651:->chr21:46302588:-	749
160	ITGB2	ORF1,chr21:46306651:-:ENST00000397850>chr21:46302588:-:LTR26E	chr21:46306651:->chr21:46302588:-	749
161	ITGB2	ORF1,chr21:46306651:-:ENST00000302347>chr21:46302588:-:LTR26E	chr21:46306651:->chr21:46302588:-	749
162	PCDH15	ORF1,chr10:55826517:-:ENST00000395438>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	740
163	PCDH15	ORF1,chr10:55826517:-:ENST00000361849>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	740
164	PCDH15	ORF1,chr10:55826517:-:ENST00000320301>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	740
165	PCDH15	ORF1,chr10:55826517:-:ENST00000395430>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	740
166	PCDH15	ORF1,chr10:55826517:-:ENST00000373955>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	740
167	GRIA1	ORF1,chr5:153182050:+:ENST00000518142>chr5:153182478:+:L3	chr5:153182050:+>chr5:153182478:+	760
168	GRIK2	ORF1,chr6:102483441:+:ENST00000369137>chr6:102495349:+:AluSx3	chr6:102483441:+>chr6:102495349:+	694
169	ITGB4	ORF1,chr17:73733725:+:ENST00000579662>chr17:73735417:+:MER103C	chr17:73733725:+>chr17:73735417:+	740
170	ITGB4	ORF1,chr17:73733725:+:ENST00000339591>chr17:73735417:+:MER103C	chr17:73733725:+>chr17:73735417:+	740
171	ITGB4	ORF1,chr17:73733725:+:ENST00000200181>chr17:73735417:+:MER103C	chr17:73733725:+>chr17:73735417:+	740
172	ITGB4	ORF1,chr17:73733725:+:ENST00000450894>chr17:73735417:+:MER103C	chr17:73733725:+>chr17:73735417:+	740
173	ITGB4	ORF1,chr17:73733725:+:ENST00000449880>chr17:73735417:+:MER103C	chr17:73733725:+>chr17:73735417:+	740
174	ATP1A3	ORF1,chr19:42479791:-:ENST00000602133>chr19:42475038:-:AluY	chr19:42479791:->chr19:42475038:-	721
175	GUCY2C	ORF1,chr12:14792796:-:ENST00000261170>chr12:14784392:-:L1PA3	chr12:14792796:->chr12:14784392:-	719
176	PCDH15	ORF1,chr10:55826517:-:ENST00000395433>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	718
177	PCDH15	ORF1,chr10:55826517:-:ENST00000373957>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	718
178	PCDH15	ORF1,chr10:55826517:-:ENST00000395432>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	703
179	CDH3	ORF1,chr16:68729826:+:ENST00000581171>chr16:68761056:+:MLT2B3	chr16:68729826:+>chr16:68761056:+	705
180	DNER	ORF1,chr2:230231589:-:ENST00000341772>chr2:230226984:-:MIRc	chr2:230231589:->chr2:230226984:-	700
181	FRAS1	ORF1,chr4:79240140:+:ENST00000264899>chr4:79251105:+:HERVK11-int	chr4:79240140:+>chr4:79251105:+	712
182	FRAS1	ORF1,chr4:79240140:+:ENST00000325942>chr4:79251105:+:HERVK11-int	chr4:79240140:+>chr4:79251105:+	712
183	FRAS1	ORF1,chr4:79240140:+:ENST00000264895>chr4:79251105:+:HERVK11-int	chr4:79240140:+>chr4:79251105:+	712
184	ITGB2	ORF1,chr21:46306651:-:ENST00000397854>chr21:46302588:-:LTR26E	chr21:46306651:->chr21:46302588:-	692
185	GRAMD1A	ORF1,chr19:35514451:+:ENST00000317991>chr19:35514601:+:MIR3	chr19:35514451:+>chr19:35514601:+	694
186	SLCO4A1	ORF1,chr20:61300430:+:ENST00000217159>chr20:61301309:+:Tigger7	chr20:61300430:+>chr20:61301309:+	675
187	SLCO4A1	ORF1,chr20:61300430:+:ENST00000370507>chr20:61301309:+:Tigger7	chr20:61300430:+>chr20:61301309:+	675
188	GRAMD1A	ORF1,chr19:35514451:+:ENST00000411896>chr19:35514601:+:MIR3	chr19:35514451:+>chr19:35514601:+	683
189	LDLR	ORF1,chr19:11240346:+:ENST00000455727>chr19:11243599:+:AluJo	chr19:11240346:+>chr19:11243599:+	681
190	PCDH15	ORF1,chr10:55826517:-:ENST00000437009>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	669
191	HCN2	ORF1,chr19:614016:+:ENST00000251287>chr19:615234:+:AluY	chr19:614016:+>chr19:615234:+	663
192	GRIN2C	ORF1,chr17:72843447:-:ENST00000293190>chr17:72843222:-:MIR3	chr17:72843447:->chr17:72843222:-	667
193	GRIN2C	ORF1,chr17:72843447:-:ENST00000347612>chr17:72843222:-:MIR3	chr17:72843447:->chr17:72843222:-	667
194	LDLR	ORF1,chr19:11240346:+:ENST00000545707>chr19:11243599:+:AluJo	chr19:11240346:+>chr19:11243599:+	671
195	SLCO4A1	ORF1,chr20:61300430:+:ENST00000217159>chr20:61301432:+:Tigger7	chr20:61300430:+>chr20:61301432:+	675
196	SLCO4A1	ORF1,chr20:61300430:+:ENST00000370507>chr20:61301432:+:Tigger7	chr20:61300430:+>chr20:61301432:+	675
197	TFRC	ORF1,chr3:195780393:-:ENST00000360110>chr3:195779399:-:AluSp	chr3:195780393:->chr3:195779399:-	645
198	TFRC	ORF1,chr3:195780393:-:ENST00000392396>chr3:195779399:-:AluSp	chr3:195780393:->chr3:195779399:-	645
199	FOLH1	ORF1,chr11:49175398:-:ENST00000256999>chr11:49173831:-:L1ME4a	chr11:49175398:->chr11:49173831:-	656
200	FOLH1	ORF1,chr11:49175398:-:ENST00000356696>chr11:49173831:-:L1ME4a	chr11:49175398:->chr11:49173831:-	656
201	ADCY3	ORF1,chr2:25057354:-:ENST00000260600>chr2:25056695:-:MIRc	chr2:25057354:->chr2:25056695:-	655
202	PTPRA	ORF1,chr20:3008487:+:ENST00000425918>chr20:3013475:+:L2	chr20:3008487:+>chr20:3013475:+	651
203	APP	ORF1,chr21:27277336:-:ENST00000346798>chr21:27271390:-:L3b	chr21:27277336:->chr21:27271390:-	654

204	CDH11	ORF1,chr16:64984670:-:ENST00000394156>chr16:64978001:-:L2a	chr16:64984670:->chr16:64978001:-	631
205	CDH11	ORF1,chr16:64984670:-:ENST00000268603>chr16:64978001:-:L2a	chr16:64984670:->chr16:64978001:-	631
206	SLCO1B1	ORF1,chr12:21377773:+:ENST00000256958>chr12:21420585:+:L2	chr12:21377773:+>chr12:21420585:+	621
207	FOLH1	ORF1,chr11:49175398:-:ENST00000340334>chr11:49173831:-:L1ME4a	chr11:49175398:->chr11:49173831:-	641
208	FOLH1	ORF1,chr11:49175398:-:ENST00000533034>chr11:49173831:-:L1ME4a	chr11:49175398:->chr11:49173831:-	641
209	PTPRN2	ORF1,chr7:157691365:-:ENST00000404321>chr7:157654981:-:MLT1C	chr7:157691365:->chr7:157654981:-	619
210	DSG3	ORF1,chr18:29052306:+:ENST00000257189>chr18:29056696:+:AluYb8	chr18:29052306:+>chr18:29056696:+	652
211	KCNQ2	ORF1,chr20:62039766:-:ENST00000354587>chr20:62039382:-:LTR16A2	chr20:62039766:->chr20:62039382:-	637
212	KCNQ2	ORF1,chr20:62039766:-:ENST00000370224>chr20:62039382:-:LTR16A2	chr20:62039766:->chr20:62039382:-	637
213	ADCY9	ORF1,chr16:4057369:-:ENST00000294016>chr16:4053508:-:MIRb	chr16:4057369:->chr16:4053508:-	628
214	PTPRA	ORF1,chr20:3008487:+:ENST00000380393>chr20:3013475:+:L2	chr20:3008487:+>chr20:3013475:+	640
215	PTPRA	ORF1,chr20:3008487:+:ENST00000399903>chr20:3013475:+:L2	chr20:3008487:+>chr20:3013475:+	640
216	KCNQ2	ORF1,chr20:62039766:-:ENST00000359125>chr20:62039382:-:LTR16A2	chr20:62039766:->chr20:62039382:-	629
217	KCNQ2	ORF1,chr20:62039766:-:ENST00000359689>chr20:62039382:-:LTR16A2	chr20:62039766:->chr20:62039382:-	629
218	PTPRA	ORF1,chr20:3008487:+:ENST00000216877>chr20:3013475:+:L2	chr20:3008487:+>chr20:3013475:+	631
219	PTPRA	ORF1,chr20:3008487:+:ENST00000318266>chr20:3013475:+:L2	chr20:3008487:+>chr20:3013475:+	631
220	PTPRA	ORF1,chr20:3008487:+:ENST00000356147>chr20:3013475:+:L2	chr20:3008487:+>chr20:3013475:+	631
221	APP	ORF1,chr21:27277336:-:ENST00000357903>chr21:27271390:-:L3b	chr21:27277336:->chr21:27271390:-	635
222	APP	ORF1,chr21:27277336:-:ENST00000440126>chr21:27271390:-:L3b	chr21:27277336:->chr21:27271390:-	630
223	ERBB2	ORF1,chr17:37873733:+:ENST00000584450>chr17:37875964:+:MIRc	chr17:37873733:+>chr17:37875964:+	632
224	ERBB2	ORF1,chr17:37873733:+:ENST00000269571>chr17:37875964:+:MIRc	chr17:37873733:+>chr17:37875964:+	632
225	SLC28A1	ORF1,chr15:85488098:+:ENST00000537624>chr15:85494311:+:MLT1J	chr15:85488098:+>chr15:85494311:+	624
226	SLC28A1	ORF1,chr15:85488098:+:ENST00000286749>chr15:85494311:+:MLT1J	chr15:85488098:+>chr15:85494311:+	624
227	SLC28A1	ORF1,chr15:85488098:+:ENST00000394573>chr15:85494311:+:MLT1J	chr15:85488098:+>chr15:85494311:+	624
228	CHL1	ORF1,chr3:419625:+:ENST00000256509>chr3:420259:+:LTR33	chr3:419625:+>chr3:420259:+	625
229	ASTN2	ORF1,chr9:119737487:-:ENST00000313400>chr9:119732431:-:MLT1D	chr9:119737487:->chr9:119732431:-	629
230	SIGLEC10	ORF1,chr19:51914568:-:ENST00000356298>chr19:51914197:-:AluSx1	chr19:51914568:->chr19:51914197:-	626
231	SIGLEC10	ORF1,chr19:51914568:-:ENST00000339313>chr19:51914197:-:AluSx1	chr19:51914568:->chr19:51914197:-	626
232	PTPRN2	ORF1,chr7:157691365:-:ENST00000389418>chr7:157654981:-:MLT1C	chr7:157691365:->chr7:157654981:-	596
233	ASTN2	ORF1,chr9:119737487:-:ENST00000373996>chr9:119732431:-:MLT1D	chr9:119737487:->chr9:119732431:-	625
234	KCNQ2	ORF1,chr20:62039766:-:ENST00000357249>chr20:62039382:-:LTR16A2	chr20:62039766:->chr20:62039382:-	611
235	PTPRC	ORF1,chr1:198698300:+:ENST00000442510>chr1:198699460:+:L2a	chr1:198698300:+>chr1:198699460:+	621
236	PTPRC	ORF1,chr1:198698300:+:ENST00000367376>chr1:198699460:+:L2a	chr1:198698300:+>chr1:198699460:+	619
237	APPL2	ORF1,chr12:105582051:-:ENST00000551662>chr12:105578472:-:L1PA7	chr12:105582051:->chr12:105578472:-	550
238	XPR1	ORF1,chr1:180843078:+:ENST00000367590>chr1:180846668:+:L1MEg	chr1:180843078:+>chr1:180846668:+	602
239	ERBB2	ORF1,chr17:37873733:+:ENST00000541774>chr17:37875964:+:MIRc	chr17:37873733:+>chr17:37875964:+	617
240	SLC44A4	ORF1,chr6:31832800:-:ENST00000229729>chr6:31831116:-:AluSx	chr6:31832800:->chr6:31831116:-	606
241	DSG3	ORF1,chr18:29049235:+:ENST00000257189>chr18:29056696:+:AluYb8	chr18:29049235:+>chr18:29056696:+	606
242	CHL1	ORF1,chr3:419625:+:ENST00000397491>chr3:420259:+:LTR33	chr3:419625:+>chr3:420259:+	609
243	KCNQ2	ORF1,chr20:62039766:-:ENST00000360480>chr20:62039382:-:LTR16A2	chr20:62039766:->chr20:62039382:-	601
244	APPL2	ORF1,chr12:105582051:-:ENST00000258530>chr12:105578472:-:L1PA7	chr12:105582051:->chr12:105578472:-	544
245	SLCO1A2	ORF1,chr12:21427403:-:ENST00000307378>chr12:21426319:-:LTR40a	chr12:21427403:->chr12:21426319:-	597
246	SLCO1A2	ORF1,chr12:21427403:-:ENST00000452078>chr12:21426319:-:LTR40a	chr12:21427403:->chr12:21426319:-	597
247	PTPRN2	ORF1,chr7:157903521:-:ENST00000404321>chr7:157893548:-:L1PB1	chr7:157903521:->chr7:157893548:-	570
248	PTPRN2	ORF1,chr7:157691365:-:ENST00000389416>chr7:157654981:-:MLT1C	chr7:157691365:->chr7:157654981:-	579
249	PTPRN2	ORF1,chr7:157903521:-:ENST00000404321>chr7:157893545:-:L1PB1	chr7:157903521:->chr7:157893545:-	570
250	KCNQ2	ORF1,chr20:62039766:-:ENST00000344462>chr20:62039382:-:LTR16A2	chr20:62039766:->chr20:62039382:-	598
251	DYSF	ORF1,chr2:71778286:+:ENST00000409651>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	578
252	DYSF	ORF1,chr2:71778286:+:ENST00000413539>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	577
253	ABCB5	ORF1,chr7:20698299:+:ENST00000404938>chr7:20707892:+:SVA_E	chr7:20698299:+>chr7:20707892:+	569
254	ERBB2	ORF1,chr17:37873733:+:ENST00000584601>chr17:37875964:+:MIRc	chr17:37873733:+>chr17:37875964:+	602
255	ERBB2	ORF1,chr17:37873733:+:ENST00000578199>chr17:37875964:+:MIRc	chr17:37873733:+>chr17:37875964:+	602
256	ERBB2	ORF1,chr17:37873733:+:ENST00000406381>chr17:37875964:+:MIRc	chr17:37873733:+>chr17:37875964:+	602
257	ERBB2	ORF1,chr17:37873733:+:ENST00000540147>chr17:37875964:+:MIRc	chr17:37873733:+>chr17:37875964:+	602
258	ERBB2	ORF1,chr17:37873733:+:ENST00000540042>chr17:37875964:+:MIRc	chr17:37873733:+>chr17:37875964:+	602
259	APP	ORF1,chr21:27277336:-:ENST00000359726>chr21:27271390:-:L3b	chr21:27277336:->chr21:27271390:-	598
260	APP	ORF1,chr21:27277336:-:ENST00000439274>chr21:27271390:-:L3b	chr21:27277336:->chr21:27271390:-	598
261	PTPRN2	ORF1,chr7:157691365:-:ENST00000389413>chr7:157654981:-:MLT1C	chr7:157691365:->chr7:157654981:-	567
262	CDH17	ORF1,chr8:95164096:-:ENST00000027335>chr8:95161602:-:L2c	chr8:95164096:->chr8:95161602:-	598
263	CDH17	ORF1,chr8:95164096:-:ENST00000450165>chr8:95161602:-:L2c	chr8:95164096:->chr8:95161602:-	598
264	DYSF	ORF1,chr2:71778286:+:ENST00000410020>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	564
265	DYSF	ORF1,chr2:71778286:+:ENST00000410041>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	564
266	ADAM9	ORF1,chr8:38928922:+:ENST00000487273>chr8:38930199:+:L2b	chr8:38928922:+>chr8:38930199:+	565
267	ADAM9	ORF1,chr8:38928922:+:ENST00000481873>chr8:38930199:+:L2b	chr8:38928922:+>chr8:38930199:+	565
268	ADAM9	ORF1,chr8:38928922:+:ENST00000379917>chr8:38930199:+:L2b	chr8:38928922:+>chr8:38930199:+	565
269	ADAM9	ORF1,chr8:38928922:+:ENST00000468065>chr8:38930199:+:L2b	chr8:38928922:+>chr8:38930199:+	565
270	SYNE2	ORF1,chr14:64554574:+:ENST00000555002>chr14:64555808:+:AluSq	chr14:64554574:+>chr14:64555808:+	524
271	DYSF	ORF1,chr2:71778286:+:ENST00000409582>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	563
272	DYSF	ORF1,chr2:71778286:+:ENST00000409762>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	563

273	PTPRN2	ORF1,chr7:157691365:-:ENST00000409483>chr7:157654981:-:MLT1C	chr7:157691365:->chr7:157654981:-	558
274	SLC44A4	ORF1,chr6:31833092:-:ENST00000229729>chr6:31832937:-:MER45A	chr6:31833092:->chr6:31832937:-	586
275	PTPRN2	ORF1,chr7:157903521:-:ENST00000389418>chr7:157893548:-:L1PB1	chr7:157903521:->chr7:157893548:-	547
276	TFRC	ORF1,chr3:195780393:-:ENST00000420415>chr3:195779399:-:AluSp	chr3:195780393:->chr3:195779399:-	564
277	PTPRN2	ORF1,chr7:157903521:-:ENST00000389418>chr7:157893545:-:L1PB1	chr7:157903521:->chr7:157893545:-	547
278	ERBB2	ORF1,chr17:37872858:+:ENST00000584450>chr17:37873232:+:MIRb	chr17:37872858:+>chr17:37873232:+	579
279	ERBB2	ORF1,chr17:37872858:+:ENST00000269571>chr17:37873232:+:MIRb	chr17:37872858:+>chr17:37873232:+	579
280	ABCC1	ORF1,chr16:16150152:+:ENST00000399410>chr16:16151288:+:L2a	chr16:16150152:+>chr16:16151288:+	559
281	ABCC1	ORF1,chr16:16150152:+:ENST00000345148>chr16:16151288:+:L2a	chr16:16150152:+>chr16:16151288:+	559
282	ABCC1	ORF1,chr16:16150152:+:ENST00000346370>chr16:16151288:+:L2a	chr16:16150152:+>chr16:16151288:+	559
283	ABCC1	ORF1,chr16:16150152:+:ENST00000349029>chr16:16151288:+:L2a	chr16:16150152:+>chr16:16151288:+	559
284	ABCC1	ORF1,chr16:16150152:+:ENST00000351154>chr16:16151288:+:L2a	chr16:16150152:+>chr16:16151288:+	559
285	ABCC1	ORF1,chr16:16150152:+:ENST00000399408>chr16:16151288:+:L2a	chr16:16150152:+>chr16:16151288:+	559
286	APP	ORF1,chr21:27277336:-:ENST00000348990>chr21:27271390:-:L3b	chr21:27277336:->chr21:27271390:-	579
287	ASTN2	ORF1,chr9:119737487:-:ENST00000361209>chr9:119732431:-:MLT1D	chr9:119737487:->chr9:119732431:-	578
288	DYSF	ORF1,chr2:71778286:+:ENST00000394120>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	547
289	DYSF	ORF1,chr2:71778286:+:ENST00000409366>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	547
290	DYSF	ORF1,chr2:71778286:+:ENST00000429174>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	546
291	DYSF	ORF1,chr2:71778286:+:ENST00000258104>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	546
292	ABCC1	ORF1,chr16:16150152:+:ENST00000399410>chr16:16150247:+:AluSx	chr16:16150152:+>chr16:16150247:+	559
293	ABCC1	ORF1,chr16:16150152:+:ENST00000345148>chr16:16150247:+:AluSx	chr16:16150152:+>chr16:16150247:+	559
294	ABCC1	ORF1,chr16:16150152:+:ENST00000346370>chr16:16150247:+:AluSx	chr16:16150152:+>chr16:16150247:+	559
295	ABCC1	ORF1,chr16:16150152:+:ENST00000349029>chr16:16150247:+:AluSx	chr16:16150152:+>chr16:16150247:+	559
296	ABCC1	ORF1,chr16:16150152:+:ENST00000351154>chr16:16150247:+:AluSx	chr16:16150152:+>chr16:16150247:+	559
297	ABCC1	ORF1,chr16:16150152:+:ENST00000399408>chr16:16150247:+:AluSx	chr16:16150152:+>chr16:16150247:+	559
298	PTPRC	ORF1,chr1:198698300:+:ENST00000529828>chr1:198699460:+:L2a	chr1:198698300:+>chr1:198699460:+	573
299	SLC44A4	ORF1,chr6:31832800:-:ENST00000375562>chr6:31831116:-:AluSx	chr6:31832800:->chr6:31831116:-	564
300	PTPRN2	ORF1,chr7:157903521:-:ENST00000389416>chr7:157893548:-:L1PB1	chr7:157903521:->chr7:157893548:-	530
301	PTPRC	ORF1,chr1:198698300:+:ENST00000352140>chr1:198699460:+:L2a	chr1:198698300:+>chr1:198699460:+	571
302	PTPRN2	ORF1,chr7:157903521:-:ENST00000389416>chr7:157893545:-:L1PB1	chr7:157903521:->chr7:157893545:-	530
303	SIGLEC10	ORF1,chr19:51914568:-:ENST00000439889>chr19:51914197:-:AluSx1	chr19:51914568:->chr19:51914197:-	568
304	APPL2	ORF1,chr12:105582051:-:ENST00000539978>chr12:105578472:-:L1PA7	chr12:105582051:->chr12:105578472:-	501
305	TFRC	ORF1,chr3:195785155:-:ENST00000360110>chr3:195782790:-:FRAM	chr3:195785155:->chr3:195782790:-	559
306	TFRC	ORF1,chr3:195785155:-:ENST00000392396>chr3:195782790:-:FRAM	chr3:195785155:->chr3:195782790:-	559
307	ERBB2	ORF1,chr17:37872858:+:ENST00000541774>chr17:37873232:+:MIRb	chr17:37872858:+>chr17:37873232:+	564
308	TFRC	ORF1,chr3:195785155:-:ENST00000360110>chr3:195782922:-:FRAM	chr3:195785155:->chr3:195782922:-	559
309	TFRC	ORF1,chr3:195785155:-:ENST00000392396>chr3:195782922:-:FRAM	chr3:195785155:->chr3:195782922:-	559
310	DAGLA	ORF1,chr11:61505679:+:ENST00000257215>chr11:61506649:+:MIR3	chr11:61505679:+>chr11:61506649:+	552
311	TFRC	ORF1,chr3:195785155:-:ENST00000360110>chr3:195782660:-:AluJb	chr3:195785155:->chr3:195782660:-	559
312	TFRC	ORF1,chr3:195785155:-:ENST00000392396>chr3:195782660:-:AluJb	chr3:195785155:->chr3:195782660:-	559
313	MMP16	ORF1,chr8:89058897:-:ENST00000286614>chr8:89039641:-:HAL1	chr8:89058897:->chr8:89039641:-	496
314	DYSF	ORF1,chr2:71778286:+:ENST00000409744>chr2:71778523:+:MIR3	chr2:71778286:+>chr2:71778523:+	533
315	PTPRC	ORF1,chr1:198698300:+:ENST00000367367>chr1:198699460:+:L2a	chr1:198698300:+>chr1:198699460:+	555
316	ERBB2	ORF1,chr17:37872858:+:ENST00000584601>chr17:37873232:+:MIRb	chr17:37872858:+>chr17:37873232:+	549
317	ERBB2	ORF1,chr17:37872858:+:ENST00000578199>chr17:37873232:+:MIRb	chr17:37872858:+>chr17:37873232:+	549
318	ERBB2	ORF1,chr17:37872858:+:ENST00000406381>chr17:37873232:+:MIRb	chr17:37872858:+>chr17:37873232:+	549
319	ERBB2	ORF1,chr17:37872858:+:ENST00000540147>chr17:37873232:+:MIRb	chr17:37872858:+>chr17:37873232:+	549
320	ERBB2	ORF1,chr17:37872858:+:ENST00000540042>chr17:37873232:+:MIRb	chr17:37872858:+>chr17:37873232:+	549
321	XPR1	ORF1,chr1:180843078:+:ENST00000367589>chr1:180846668:+:L1MEg	chr1:180843078:+>chr1:180846668:+	537
322	SLC28A1	ORF1,chr15:85478749:+:ENST00000537216>chr15:85494311:+:MLT1J	chr15:85478749:+>chr15:85494311:+	527
323	SLC28A1	ORF1,chr15:85478749:+:ENST00000537624>chr15:85494311:+:MLT1J	chr15:85478749:+>chr15:85494311:+	527
324	SLC28A1	ORF1,chr15:85478749:+:ENST00000286749>chr15:85494311:+:MLT1J	chr15:85478749:+>chr15:85494311:+	527
325	SLC28A1	ORF1,chr15:85478749:+:ENST00000394573>chr15:85494311:+:MLT1J	chr15:85478749:+>chr15:85494311:+	527
326	PTPRN2	ORF1,chr7:157903521:-:ENST00000409483>chr7:157893548:-:L1PB1	chr7:157903521:->chr7:157893548:-	509
327	DSG2	ORF1,chr18:29116392:+:ENST00000261590>chr18:29118187:+:L1MC4	chr18:29116392:+>chr18:29118187:+	550
328	PTPRN2	ORF1,chr7:157903521:-:ENST00000409483>chr7:157893545:-:L1PB1	chr7:157903521:->chr7:157893545:-	509
329	SLC44A4	ORF1,chr6:31833092:-:ENST00000375562>chr6:31832937:-:MER45A	chr6:31833092:->chr6:31832937:-	544
330	APP	ORF1,chr21:27277336:-:ENST00000448388>chr21:27271390:-:L3b	chr21:27277336:->chr21:27271390:-	544
331	SCNN1A	ORF1,chr12:6463604:-:ENST00000360168>chr12:6463053:-:AluYf5	chr12:6463604:->chr12:6463053:-	512
332	GPNMB	ORF1,chr7:23313233:+:ENST00000381990>chr7:23322924:+:L1ME3D	chr7:23313233:+>chr7:23322924:+	519
333	SLC44A4	ORF1,chr6:31832800:-:ENST00000544672>chr6:31831116:-:AluSx	chr6:31832800:->chr6:31831116:-	530
334	IGDCC4	ORF1,chr15:65687432:-:ENST00000352385>chr15:65687004:-:MIRb	chr15:65687432:->chr15:65687004:-	525
335	FOLH1	ORF1,chr11:49186257:-:ENST00000256999>chr11:49184464:-:L1PA10	chr11:49186257:->chr11:49184464:-	480
336	FOLH1	ORF1,chr11:49186257:-:ENST00000356696>chr11:49184464:-:L1PA10	chr11:49186257:->chr11:49184464:-	480
337	PCDH15	ORF1,chr10:55943204:-:ENST00000373965>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	537
338	PCDH15	ORF1,chr10:55943204:-:ENST00000395445>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	537
339	PCDH15	ORF1,chr10:55943204:-:ENST00000414778>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	535
340	SIGLEC10	ORF1,chr19:51914568:-:ENST00000353836>chr19:51914197:-:AluSx1	chr19:51914568:->chr19:51914197:-	531
341	SLC2A1	ORF1,chr1:43392716:-:ENST00000426263>chr1:43372275:-:ERVL-B4-int	chr1:43392716:->chr1:43372275:-	491

342	CDH11	ORF1,chr16:64984670:-:ENST00000566827>chr16:64978001:-:L2a	chr16:64984670:->chr16:64978001:-	505
343	PCDH15	ORF1,chr10:55943204:-:ENST00000395438>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	530
344	PCDH15	ORF1,chr10:55943204:-:ENST00000395446>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	530
345	PCDH15	ORF1,chr10:55943204:-:ENST00000361849>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	530
346	PCDH15	ORF1,chr10:55943204:-:ENST00000320301>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	530
347	PCDH15	ORF1,chr10:55943204:-:ENST00000395430>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	530
348	PCDH15	ORF1,chr10:55943204:-:ENST00000448885>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	530
349	PCDH15	ORF1,chr10:55943204:-:ENST00000437009>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	530
350	PCDH15	ORF1,chr10:55943204:-:ENST00000373955>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	530
351	GPNMB	ORF1,chr7:23313233:+:ENST00000258733>chr7:23322924:+:L1ME3D	chr7:23313233:+>chr7:23322924:+	507
352	APP	ORF1,chr21:27277336:-:ENST00000354192>chr21:27271390:-:L3b	chr21:27277336:->chr21:27271390:-	523
353	ANO2	ORF1,chr12:5841686:-:ENST00000356134>chr12:5777031:-:L1PA10	chr12:5841686:->chr12:5777031:-	516
354	ANO2	ORF1,chr12:5841686:-:ENST00000546188>chr12:5777031:-:L1PA10	chr12:5841686:->chr12:5777031:-	516
355	ANO2	ORF1,chr12:5841686:-:ENST00000327087>chr12:5777031:-:L1PA10	chr12:5841686:->chr12:5777031:-	515
356	FOLH1	ORF1,chr11:49186257:-:ENST00000340334>chr11:49184464:-:L1PA10	chr11:49186257:->chr11:49184464:-	465
357	FOLH1	ORF1,chr11:49186257:-:ENST00000533034>chr11:49184464:-:L1PA10	chr11:49186257:->chr11:49184464:-	465
358	AXL	ORF1,chr19:41749612:+:ENST00000301178>chr19:41751964:+:Charlie1	chr19:41749612:+>chr19:41751964:+	512
359	ACVRL1	ORF1,chr12:52312899:+:ENST00000550683>chr12:52327954:+:L2	chr12:52312899:+>chr12:52327954:+	473
360	SLC44A4	ORF1,chr6:31833092:-:ENST00000544672>chr6:31832937:-:MER45A	chr6:31833092:->chr6:31832937:-	510
361	AXL	ORF1,chr19:41749612:+:ENST00000359092>chr19:41751964:+:Charlie1	chr19:41749612:+>chr19:41751964:+	503
362	SCNN1A	ORF1,chr12:6463604:-:ENST00000543768>chr12:6463053:-:AluYf5	chr12:6463604:->chr12:6463053:-	476
363	SLC29A1	ORF1,chr6:44200743:+:ENST00000313248>chr6:44206179:+:MIRc	chr6:44200743:+>chr6:44206179:+	498
364	STRA6	ORF1,chr15:74476197:-:ENST00000563965>chr15:74475749:-:AluSc	chr15:74476197:->chr15:74475749:-	472
365	PTPRC	ORF1,chr1:198698300:+:ENST00000530727>chr1:198699460:+:L2a	chr1:198698300:+>chr1:198699460:+	507
366	PCDH15	ORF1,chr10:55943204:-:ENST00000395433>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	508
367	PCDH15	ORF1,chr10:55943204:-:ENST00000373957>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	508
368	ACVRL1	ORF1,chr12:52312899:+:ENST00000388922>chr12:52327954:+:L2	chr12:52312899:+>chr12:52327954:+	459
369	STRA6	ORF1,chr15:74476197:-:ENST00000535552>chr15:74475749:-:AluSc	chr15:74476197:->chr15:74475749:-	470
370	PTPRA	ORF1,chr20:3008487:+:ENST00000358719>chr20:3013475:+:L2	chr20:3008487:+>chr20:3013475:+	496
371	SLC6A3	ORF1,chr5:1409141:-:ENST00000270349>chr5:1406873:-:L1MB3	chr5:1409141:->chr5:1406873:-	499
372	SLC6A3	ORF1,chr5:1409141:-:ENST00000453492>chr5:1406873:-:L1MB3	chr5:1409141:->chr5:1406873:-	499
373	STRA6	ORF1,chr15:74476197:-:ENST00000569936>chr15:74475749:-:AluSc	chr15:74476197:->chr15:74475749:-	476
374	SYT7	ORF1,chr11:61295387:-:ENST00000539008>chr11:61292285:-:MIRb	chr11:61295387:->chr11:61292285:-	490
375	ACVRL1	ORF1,chr12:52312899:+:ENST00000550683>chr12:52324690:+:Tigger2a	chr12:52312899:+>chr12:52324690:+	473
376	PCDH15	ORF1,chr10:55943204:-:ENST00000395432>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	493
377	STRA6	ORF1,chr15:74476197:-:ENST00000563965>chr15:74475723:-:AluSc	chr15:74476197:->chr15:74475723:-	472
378	TFRC	ORF1,chr3:195785155:-:ENST00000420415>chr3:195782790:-:FRAM	chr3:195785155:->chr3:195782790:-	478
379	SCNN1A	ORF1,chr12:6463604:-:ENST00000358945>chr12:6463053:-:AluYf5	chr12:6463604:->chr12:6463053:-	453
380	SCNN1A	ORF1,chr12:6463604:-:ENST00000228916>chr12:6463053:-:AluYf5	chr12:6463604:->chr12:6463053:-	453
381	SCNN1A	ORF1,chr12:6463604:-:ENST00000396966>chr12:6463053:-:AluYf5	chr12:6463604:->chr12:6463053:-	453
382	TFRC	ORF1,chr3:195785155:-:ENST00000420415>chr3:195782922:-:FRAM	chr3:195785155:->chr3:195782922:-	478
383	STRA6	ORF1,chr15:74476197:-:ENST00000535552>chr15:74475723:-:AluSc	chr15:74476197:->chr15:74475723:-	470
384	ANO9	ORF1,chr11:428088:-:ENST00000332826>chr11:424187:-:AluSx	chr11:428088:->chr11:424187:-	444
385	SIGLEC10	ORF1,chr19:51914568:-:ENST00000436984>chr19:51914197:-:AluSx1	chr19:51914568:->chr19:51914197:-	483
386	TFRC	ORF1,chr3:195785155:-:ENST00000420415>chr3:195782660:-:AluJb	chr3:195785155:->chr3:195782660:-	478
387	STRA6	ORF1,chr15:74476197:-:ENST00000574278>chr15:74475749:-:AluSc	chr15:74476197:->chr15:74475749:-	448
388	GPNMB	ORF1,chr7:23313233:+:ENST00000453162>chr7:23322924:+:L1ME3D ORF1,chr2:69420547:+:ENST00000303714>chr2:69490927:+:ERV3-16A3_I-int	chr7:23313233:+>chr7:23322924:+	461
389	ANTXR1		chr2:69420547:+>chr2:69490927:+	478
390	ACVRL1	ORF1,chr12:52312899:+:ENST00000388922>chr12:52324690:+:Tigger2a	chr12:52312899:+>chr12:52324690:+	459
391	NAALAD2	ORF1,chr11:89896785:+:ENST00000534061>chr11:89901251:+:LTR12C	chr11:89896785:+>chr11:89901251:+	426
392	SLCO1A2	ORF1,chr12:21427403:-:ENST00000458504>chr12:21426319:-:LTR40a	chr12:21427403:->chr12:21426319:-	465
393	SLCO1A2	ORF1,chr12:21427403:-:ENST00000537524>chr12:21426319:-:LTR40a	chr12:21427403:->chr12:21426319:-	465
394	SCARB1	ORF1,chr12:125270903:-:ENST00000339570>chr12:125263793:-:AluJo	chr12:125270903:->chr12:125263793:-	467
395	SCARB1	ORF1,chr12:125270903:-:ENST00000415380>chr12:125263793:-:AluJo	chr12:125270903:->chr12:125263793:-	467
396	SCARB1	ORF1,chr12:125270903:-:ENST00000261693>chr12:125263793:-:AluJo	chr12:125270903:->chr12:125263793:-	467
397	STRA6	ORF1,chr15:74476197:-:ENST00000569936>chr15:74475723:-:AluSc	chr15:74476197:->chr15:74475723:-	476
398	SLC47A1	ORF1,chr17:19474885:+:ENST00000457293>chr17:19482057:+:MER65C	chr17:19474885:+>chr17:19482057:+	468
399	SLC47A1	ORF1,chr17:19474885:+:ENST00000270570>chr17:19482057:+:MER65C	chr17:19474885:+>chr17:19482057:+	468
400	SLC47A1	ORF1,chr17:19474885:+:ENST00000395585>chr17:19482057:+:MER65C	chr17:19474885:+>chr17:19482057:+	468
401	TMPRSS4	ORF1,chr11:117988130:+:ENST00000437212>chr11:117996010:+:LTR16D	chr11:117988130:+>chr11:117996010:+	421
402	PVRL2	ORF1,chr19:45389476:+:ENST00000252483>chr19:45390331:+:AluSx	chr19:45389476:+>chr19:45390331:+	449
403	BACE2	ORF1,chr21:42629253:+:ENST00000330333>chr21:42656465:+:MER74A	chr21:42629253:+>chr21:42656465:+	434
404	SIGLEC10	ORF1,chr19:51914568:-:ENST00000441969>chr19:51914197:-:AluSx1	chr19:51914568:->chr19:51914197:-	473
405	TMPRSS4	ORF1,chr11:117988130:+:ENST00000534111>chr11:117996010:+:LTR16D	chr11:117988130:+>chr11:117996010:+	419
406	TMPRSS4	ORF1,chr11:117988130:+:ENST00000522824>chr11:117996010:+:LTR16D	chr11:117988130:+>chr11:117996010:+	416
407	SLC29A1	ORF1,chr6:44200165:+:ENST00000313248>chr6:44209921:+:L1M5	chr6:44200165:+>chr6:44209921:+	432
408	ANO9	ORF1,chr11:428088:-:ENST00000332826>chr11:424071:-:AluSx	chr11:428088:->chr11:424071:-	444
409	STRA6	ORF1,chr15:74476197:-:ENST00000395105>chr15:74475749:-:AluSc	chr15:74476197:->chr15:74475749:-	433

410	STRA6	ORF1,chr15:74476197:-:ENST00000323940>chr15:74475749:-:AluSc	chr15:74476197:->chr15:74475749:-	433
411	STRA6	ORF1,chr15:74476197:-:ENST00000449139>chr15:74475749:-:AluSc	chr15:74476197:->chr15:74475749:-	433
412	SLC28A1	ORF1,chr15:85488098:+:ENST00000538177>chr15:85494311:+:MLT1J	chr15:85488098:+>chr15:85494311:+	458
413	STRA6	ORF1,chr15:74476197:-:ENST00000574278>chr15:74475723:-:AluSc	chr15:74476197:->chr15:74475723:-	448
414	GRAMD1A	ORF1,chr19:35505291:+:ENST00000599564>chr19:35505459:+:MIR	chr19:35505291:+>chr19:35505459:+	443
415	GRAMD1A	ORF1,chr19:35514451:+:ENST00000504615>chr19:35514601:+:MIR3	chr19:35514451:+>chr19:35514601:+	456
416	ABCC5	ORF1,chr3:183696291:-:ENST00000334444>chr3:183696207:-:AluSx	chr3:183696291:->chr3:183696207:-	432
417	ABCC5	ORF1,chr3:183696291:-:ENST00000437205>chr3:183696207:-:AluSx	chr3:183696291:->chr3:183696207:-	432
418	ABCC5	ORF1,chr3:183696291:-:ENST00000265586>chr3:183696207:-:AluSx	chr3:183696291:->chr3:183696207:-	432
419	STRA6	ORF1,chr15:74476197:-:ENST00000416286>chr15:74475749:-:AluSc	chr15:74476197:->chr15:74475749:-	425
420	PTPRC	ORF1,chr1:198698300:+:ENST00000348564>chr1:198699460:+:L2a	chr1:198698300:+>chr1:198699460:+	460
421	STRA6	ORF1,chr15:74476197:-:ENST00000423167>chr15:74475749:-:AluSc	chr15:74476197:->chr15:74475749:-	424
422	SLC17A3	ORF1,chr6:25849602:-:ENST00000397060>chr6:25847464:-:L1PREC2	chr6:25849602:->chr6:25847464:-	454
423	SERINC5	ORF1,chr5:79410337:-:ENST00000509193>chr5:79409445:-:THE1A	chr5:79410337:->chr5:79409445:-	456
424	PTPRC	ORF1,chr1:198698300:+:ENST00000594404>chr1:198699460:+:L2a	chr1:198698300:+>chr1:198699460:+	458
425	SLC47A1	ORF1,chr17:19470541:+:ENST00000457293>chr17:19482057:+:MER65C	chr17:19470541:+>chr17:19482057:+	436
426	SLC47A1	ORF1,chr17:19470541:+:ENST00000270570>chr17:19482057:+:MER65C	chr17:19470541:+>chr17:19482057:+	436
427	SLC47A1	ORF1,chr17:19470541:+:ENST00000395585>chr17:19482057:+:MER65C	chr17:19470541:+>chr17:19482057:+	436
428	SIGLEC10	ORF1,chr19:51914568:-:ENST00000432469>chr19:51914197:-:AluSx1	chr19:51914568:->chr19:51914197:-	448
429	STRA6	ORF1,chr15:74476197:-:ENST00000395105>chr15:74475723:-:AluSc	chr15:74476197:->chr15:74475723:-	433
430	STRA6	ORF1,chr15:74476197:-:ENST00000323940>chr15:74475723:-:AluSc	chr15:74476197:->chr15:74475723:-	433
431	STRA6	ORF1,chr15:74476197:-:ENST00000449139>chr15:74475723:-:AluSc	chr15:74476197:->chr15:74475723:-	433
432	ALPP	ORF1,chr2:233246077:+:ENST00000392027>chr2:233248914:+:AluJo	chr2:233246077:+>chr2:233248914:+	436
433	NAALAD2	ORF1,chr11:89896785:+:ENST00000321955>chr11:89901251:+:LTR12C	chr11:89896785:+>chr11:89901251:+	393
434	SLC16A1	ORF1,chr1:113456716:-:ENST00000369626>chr1:113446907:-:LTR8	chr1:113456716:->chr1:113446907:-	433
435	SLC16A1	ORF1,chr1:113456716:-:ENST00000538576>chr1:113446907:-:LTR8	chr1:113456716:->chr1:113446907:-	433
436	SLC16A1	ORF1,chr1:113456716:-:ENST00000458229>chr1:113446907:-:LTR8	chr1:113456716:->chr1:113446907:-	433
437	SLC39A8	ORF1,chr4:103180612:-:ENST00000424970>chr4:103178778:-:LTR33	chr4:103180612:->chr4:103178778:-	442
438	SIGLEC10	ORF1,chr19:51914568:-:ENST00000525998>chr19:51914197:-:AluSx1	chr19:51914568:->chr19:51914197:-	441
439	SCARB1	ORF1,chr12:125270903:-:ENST00000540495>chr12:125263793:-:AluJo	chr12:125270903:->chr12:125263793:-	430
440	STRA6	ORF1,chr15:74476197:-:ENST00000416286>chr15:74475723:-:AluSc	chr15:74476197:->chr15:74475723:-	425
441	SLC16A10	ORF1,chr6:111540245:+:ENST00000368851>chr6:111577260:+:(GAAA)n	chr6:111540245:+>chr6:111577260:+	438
442	STRA6	ORF1,chr15:74476197:-:ENST00000423167>chr15:74475723:-:AluSc	chr15:74476197:->chr15:74475723:-	424
443	TMPRSS4	ORF1,chr11:117985995:+:ENST00000437212>chr11:117996010:+:LTR16D	chr11:117985995:+>chr11:117996010:+	384
444	KCNQ2	ORF1,chr20:62069978:-:ENST00000357249>chr20:62066140:-:L1MB5	chr20:62069978:->chr20:62066140:-	341
445	KCNQ2	ORF1,chr20:62069978:-:ENST00000359125>chr20:62066140:-:L1MB5	chr20:62069978:->chr20:62066140:-	341
446	KCNQ2	ORF1,chr20:62069978:-:ENST00000354587>chr20:62066140:-:L1MB5	chr20:62069978:->chr20:62066140:-	341
447	KCNQ2	ORF1,chr20:62069978:-:ENST00000359689>chr20:62066140:-:L1MB5	chr20:62069978:->chr20:62066140:-	341
448	KCNQ2	ORF1,chr20:62069978:-:ENST00000360480>chr20:62066140:-:L1MB5	chr20:62069978:->chr20:62066140:-	341
449	KCNQ2	ORF1,chr20:62069978:-:ENST00000370224>chr20:62066140:-:L1MB5	chr20:62069978:->chr20:62066140:-	341
450	KCNQ2	ORF1,chr20:62069978:-:ENST00000344462>chr20:62066140:-:L1MB5	chr20:62069978:->chr20:62066140:-	341
451	KCNQ2	ORF1,chr20:62069978:-:ENST00000344425>chr20:62066140:-:L1MB5	chr20:62069978:->chr20:62066140:-	341
452	SCARB1	ORF1,chr12:125270903:-:ENST00000541205>chr12:125263793:-:AluJo	chr12:125270903:->chr12:125263793:-	426
453	TMPRSS4	ORF1,chr11:117985995:+:ENST00000534111>chr11:117996010:+:LTR16D	chr11:117985995:+>chr11:117996010:+	382
454	TMPRSS4	ORF1,chr11:117988130:+:ENST00000523251>chr11:117996010:+:LTR16D	chr11:117988130:+>chr11:117996010:+	381
455	TMPRSS4	ORF1,chr11:117985995:+:ENST00000522824>chr11:117996010:+:LTR16D	chr11:117985995:+>chr11:117996010:+	379
456	TMPRSS4	ORF1,chr11:117988169:+:ENST00000437212>chr11:117996044:+:LTR16D	chr11:117988169:+>chr11:117996044:+	434
457	TMPRSS4	ORF1,chr11:117988169:+:ENST00000534111>chr11:117996044:+:LTR16D	chr11:117988169:+>chr11:117996044:+	432
458	SLC47A1	ORF1,chr17:19470541:+:ENST00000436810>chr17:19482057:+:MER65C	chr17:19470541:+>chr17:19482057:+	413
459	SLC29A1	ORF1,chr6:44200743:+:ENST00000393844>chr6:44206179:+:MIRc	chr6:44200743:+>chr6:44206179:+	419
460	SLC29A1	ORF1,chr6:44200743:+:ENST00000427851>chr6:44206179:+:MIRc	chr6:44200743:+>chr6:44206179:+	419
461	SLC29A1	ORF1,chr6:44200743:+:ENST00000371740>chr6:44206179:+:MIRc	chr6:44200743:+>chr6:44206179:+	419
462	SLC29A1	ORF1,chr6:44200743:+:ENST00000371755>chr6:44206179:+:MIRc	chr6:44200743:+>chr6:44206179:+	419
463	SLC29A1	ORF1,chr6:44200743:+:ENST00000371731>chr6:44206179:+:MIRc	chr6:44200743:+>chr6:44206179:+	419
464	SLC29A1	ORF1,chr6:44200743:+:ENST00000393841>chr6:44206179:+:MIRc	chr6:44200743:+>chr6:44206179:+	419
465	SLC29A1	ORF1,chr6:44200743:+:ENST00000371713>chr6:44206179:+:MIRc	chr6:44200743:+>chr6:44206179:+	419
466	SLC29A1	ORF1,chr6:44200743:+:ENST00000371724>chr6:44206179:+:MIRc	chr6:44200743:+>chr6:44206179:+	419
467	SLC29A1	ORF1,chr6:44200743:+:ENST00000371708>chr6:44206179:+:MIRc	chr6:44200743:+>chr6:44206179:+	419
468	GPNMB	ORF1,chr7:23313233:+:ENST00000539136>chr7:23322924:+:L1ME3D	chr7:23313233:+>chr7:23322924:+	408
469	HTR3A	ORF1,chr11:113857768:+:ENST00000355556>chr11:113858309:+:AluJb	chr11:113857768:+>chr11:113858309:+	417
470	TMPRSS4	ORF1,chr11:117988169:+:ENST00000522824>chr11:117996044:+:LTR16D	chr11:117988169:+>chr11:117996044:+	429
471	BACE2	ORF1,chr21:42629253:+:ENST00000347667>chr21:42656465:+:MER74A	chr21:42629253:+>chr21:42656465:+	384
472	SYT7	ORF1,chr11:61295387:-:ENST00000542670>chr11:61292285:-:MIRb	chr11:61295387:->chr11:61292285:-	415
473	SCARB1	ORF1,chr12:125270903:-:ENST00000544327>chr12:125263793:-:AluJo	chr12:125270903:->chr12:125263793:-	413
474	STRA6	ORF1,chr15:74481456:-:ENST00000563965>chr15:74478184:-:MIRc	chr15:74481456:->chr15:74478184:-	402
475	HTR3A	ORF1,chr11:113857768:+:ENST00000506841>chr11:113858309:+:AluJb	chr11:113857768:+>chr11:113858309:+	411
476	RHBG	ORF1,chr1:156352660:+:ENST00000368246>chr1:156354082:+:MIRb	chr1:156352660:+>chr1:156354082:+	411
477	RHBG	ORF1,chr1:156352660:+:ENST00000368249>chr1:156354082:+:MIRb	chr1:156352660:+>chr1:156354082:+	411
478	STRA6	ORF1,chr15:74481456:-:ENST00000563965>chr15:74478181:-:MIRc	chr15:74481456:->chr15:74478181:-	402

479	SLC47A2	ORF1,chr17:19605918:-:ENST00000325411>chr17:19600213:-:MSTD	chr17:19605918:->chr17:19600213:-	424
480	STRA6	ORF1,chr15:74481456:-:ENST00000535552>chr15:74478184:-:MIRc	chr15:74481456:->chr15:74478184:-	400
481	STRA6	ORF1,chr15:74481456:-:ENST00000535552>chr15:74478181:-:MIRc	chr15:74481456:->chr15:74478181:-	400
482	GPR161	ORF1,chr1:168059802:-:ENST00000537209>chr1:168059333:-:MIRb	chr1:168059802:->chr1:168059333:-	421
483	ADRB2	ORF1,chr5:148207568:+:ENST00000305988>chr5:148257075:+:L1PA8	chr5:148207568:+>chr5:148257075:+	391
484	SLC52A3	ORF1,chr20:742345:-:ENST00000217254>chr20:734008:-:MLT1J	chr20:742345:->chr20:734008:-	399
485	SLC52A3	ORF1,chr20:742345:-:ENST00000381944>chr20:734008:-:MLT1J	chr20:742345:->chr20:734008:-	399
486	DNER	ORF1,chr2:230377499:-:ENST00000341772>chr2:230370969:-:THE1C	chr2:230377499:->chr2:230370969:-	382
487	STRA6	ORF1,chr15:74481456:-:ENST00000569936>chr15:74478184:-:MIRc	chr15:74481456:->chr15:74478184:-	406
488	STRA6	ORF1,chr15:74481456:-:ENST00000569936>chr15:74478181:-:MIRc	chr15:74481456:->chr15:74478181:-	406
489	RHBG	ORF1,chr1:156352660:+:ENST00000368246>chr1:156354102:+:MIRb	chr1:156352660:+>chr1:156354102:+	411
490	RHBG	ORF1,chr1:156352660:+:ENST00000368249>chr1:156354102:+:MIRb	chr1:156352660:+>chr1:156354102:+	411
491	ANO9	ORF1,chr11:428358:-:ENST00000332826>chr11:424187:-:AluSx	chr11:428358:->chr11:424187:-	407
492	STRA6	ORF1,chr15:74481456:-:ENST00000569936>chr15:74481299:-:MIR3	chr15:74481456:->chr15:74481299:-	406
493	STRA6	ORF1,chr15:74481456:-:ENST00000563965>chr15:74481299:-:MIR3	chr15:74481456:->chr15:74481299:-	402
494	GPNMB	ORF1,chr7:23300392:+:ENST00000258733>chr7:23300981:+:L1PA6	chr7:23300392:+>chr7:23300981:+	339
495	GPNMB	ORF1,chr7:23300392:+:ENST00000381990>chr7:23300981:+:L1PA6	chr7:23300392:+>chr7:23300981:+	339
496	STRA6	ORF1,chr15:74481456:-:ENST00000535552>chr15:74481299:-:MIR3	chr15:74481456:->chr15:74481299:-	400
497	DNER	ORF1,chr2:230377499:-:ENST00000341772>chr2:230343843:-:L1PA11	chr2:230377499:->chr2:230343843:-	382
498	GLDN	ORF1,chr15:51693940:+:ENST00000335449>chr15:51694052:+:L2c	chr15:51693940:+>chr15:51694052:+	392
499	TNFRSF1B	ORF1,chr1:12262228:+:ENST00000376259>chr1:12262564:+:L2c	chr1:12262228:+>chr1:12262564:+	368
500	SLC47A2	ORF1,chr17:19605918:-:ENST00000350657>chr17:19600213:-:MSTD	chr17:19605918:->chr17:19600213:-	402
501	JPH2	ORF1,chr20:42788258:-:ENST00000372980>chr20:42726338:-:LTR18B	chr20:42788258:->chr20:42726338:-	389
502	TMPRSS4	ORF1,chr11:117985995:+:ENST00000523251>chr11:117996010:+:LTR16D	chr11:117985995:+>chr11:117996010:+	344
503	KCND2	ORF1,chr7:119915801:+:ENST00000331113>chr7:120120762:+:MSTD	chr7:119915801:+>chr7:120120762:+	371
504	GPR161	ORF1,chr1:168059802:-:ENST00000367838>chr1:168059333:-:MIRb	chr1:168059802:->chr1:168059333:-	401
505	GPR161	ORF1,chr1:168059802:-:ENST00000271357>chr1:168059333:-:MIRb	chr1:168059802:->chr1:168059333:-	401
506	GPR161	ORF1,chr1:168059802:-:ENST00000361697>chr1:168059333:-:MIRb	chr1:168059802:->chr1:168059333:-	401
507	GPR161	ORF1,chr1:168059802:-:ENST00000367835>chr1:168059333:-:MIRb	chr1:168059802:->chr1:168059333:-	401
508	STRA6	ORF1,chr15:74481456:-:ENST00000574278>chr15:74478184:-:MIRc	chr15:74481456:->chr15:74478184:-	378
509	STRA6	ORF1,chr15:74481456:-:ENST00000574278>chr15:74478181:-:MIRc	chr15:74481456:->chr15:74478181:-	378
510	LILRB4	ORF1,chr19:55178200:+:ENST00000391733>chr19:55178294:+:L2	chr19:55178200:+>chr19:55178294:+	348
511	SLC36A1	ORF1,chr5:150859050:+:ENST00000520701>chr5:150903253:+:L2a	chr5:150859050:+>chr5:150903253:+	386
512	SLC36A1	ORF1,chr5:150859050:+:ENST00000243389>chr5:150903253:+:L2a	chr5:150859050:+>chr5:150903253:+	386
513	SLC36A1	ORF1,chr5:150859050:+:ENST00000521925>chr5:150903253:+:L2a	chr5:150859050:+>chr5:150903253:+	386
514	HTR3A	ORF1,chr11:113857768:+:ENST00000375498>chr11:113858309:+:AluJb	chr11:113857768:+>chr11:113858309:+	385
515	LILRB4	ORF1,chr19:55178200:+:ENST00000391736>chr19:55178294:+:L2	chr19:55178200:+>chr19:55178294:+	347
516	LILRB4	ORF1,chr19:55178200:+:ENST00000270452>chr19:55178294:+:L2	chr19:55178200:+>chr19:55178294:+	347
517	LILRB4	ORF1,chr19:55178200:+:ENST00000430952>chr19:55178294:+:L2	chr19:55178200:+>chr19:55178294:+	347
518	LILRB4	ORF1,chr19:55178200:+:ENST00000391734>chr19:55178294:+:L2	chr19:55178200:+>chr19:55178294:+	347
519	LILRB4	ORF1,chr19:55178200:+:ENST00000434286>chr19:55178294:+:L2	chr19:55178200:+>chr19:55178294:+	346
520	SDC3	ORF1,chr1:31347144:-:ENST00000339394>chr1:31340352:-:MIRb	chr1:31347144:->chr1:31340352:-	387
521	TMPRSS4	ORF1,chr11:117988169:+:ENST00000523251>chr11:117996044:+:LTR16D	chr11:117988169:+>chr11:117996044:+	394
522	SLC29A1	ORF1,chr6:44200165:+:ENST00000393844>chr6:44209921:+:L1M5	chr6:44200165:+>chr6:44209921:+	353
523	SLC29A1	ORF1,chr6:44200165:+:ENST00000427851>chr6:44209921:+:L1M5	chr6:44200165:+>chr6:44209921:+	353
524	SLC29A1	ORF1,chr6:44200165:+:ENST00000371740>chr6:44209921:+:L1M5	chr6:44200165:+>chr6:44209921:+	353
525	SLC29A1	ORF1,chr6:44200165:+:ENST00000371755>chr6:44209921:+:L1M5	chr6:44200165:+>chr6:44209921:+	353
526	SLC29A1	ORF1,chr6:44200165:+:ENST00000371731>chr6:44209921:+:L1M5	chr6:44200165:+>chr6:44209921:+	353
527	SLC29A1	ORF1,chr6:44200165:+:ENST00000393841>chr6:44209921:+:L1M5	chr6:44200165:+>chr6:44209921:+	353
528	SLC29A1	ORF1,chr6:44200165:+:ENST00000371713>chr6:44209921:+:L1M5	chr6:44200165:+>chr6:44209921:+	353
529	SLC29A1	ORF1,chr6:44200165:+:ENST00000371724>chr6:44209921:+:L1M5	chr6:44200165:+>chr6:44209921:+	353
530	SLC29A1	ORF1,chr6:44200165:+:ENST00000371708>chr6:44209921:+:L1M5	chr6:44200165:+>chr6:44209921:+	353
531	HTR3A	ORF1,chr11:113857768:+:ENST00000504030>chr11:113858309:+:AluJb	chr11:113857768:+>chr11:113858309:+	379
532	RHBG	ORF1,chr1:156352660:+:ENST00000400992>chr1:156354082:+:MIRb	chr1:156352660:+>chr1:156354082:+	379
533	SLC28A1	ORF1,chr15:85467341:+:ENST00000538177>chr15:85472528:+:AluSx1	chr15:85467341:+>chr15:85472528:+	361
534	SLC28A1	ORF1,chr15:85467341:+:ENST00000537216>chr15:85472528:+:AluSx1	chr15:85467341:+>chr15:85472528:+	361
535	SLC28A1	ORF1,chr15:85467341:+:ENST00000537624>chr15:85472528:+:AluSx1	chr15:85467341:+>chr15:85472528:+	361
536	SLC28A1	ORF1,chr15:85467341:+:ENST00000286749>chr15:85472528:+:AluSx1	chr15:85467341:+>chr15:85472528:+	361
537	SLC28A1	ORF1,chr15:85467341:+:ENST00000394573>chr15:85472528:+:AluSx1	chr15:85467341:+>chr15:85472528:+	361
538	ENG	ORF1,chr9:130586583:-:ENST00000373203>chr9:130586123:-:AluSz	chr9:130586583:->chr9:130586123:-	378
539	ENG	ORF1,chr9:130586583:-:ENST00000344849>chr9:130586123:-:AluSz	chr9:130586583:->chr9:130586123:-	378
540	RET	ORF1,chr10:43602019:+:ENST00000355710>chr10:43602522:+:LTR16C	chr10:43602019:+>chr10:43602522:+	354
541	RET	ORF1,chr10:43602019:+:ENST00000340058>chr10:43602522:+:LTR16C	chr10:43602019:+>chr10:43602522:+	354
542	NAALAD2	ORF1,chr11:89896785:+:ENST00000525171>chr11:89901251:+:LTR12C	chr11:89896785:+>chr11:89901251:+	333
543	TFRC	ORF1,chr3:195780393:-:ENST00000535031>chr3:195779399:-:AluSp	chr3:195780393:->chr3:195779399:-	363
544	EMR2	ORF1,chr19:14875245:-:ENST00000315576>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	361
545	EMR2	ORF1,chr19:14875245:-:ENST00000392967>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	361
546	EMR2	ORF1,chr19:14875245:-:ENST00000596991>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	361
547	EMR2	ORF1,chr19:14875245:-:ENST00000392965>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	361

548	EMR2	ORF1,chr19:14875245:-:ENST00000601345>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	361
549	SIGLEC10	ORF1,chr19:51914568:-:ENST00000442846>chr19:51914197:-:AluSx1	chr19:51914568:->chr19:51914197:-	383
550	STRA6	ORF1,chr15:74481456:-:ENST00000395105>chr15:74478184:-:MIRc	chr15:74481456:->chr15:74478184:-	363
551	STRA6	ORF1,chr15:74481456:-:ENST00000323940>chr15:74478184:-:MIRc	chr15:74481456:->chr15:74478184:-	363
552	STRA6	ORF1,chr15:74481456:-:ENST00000449139>chr15:74478184:-:MIRc	chr15:74481456:->chr15:74478184:-	363
553	STRA6	ORF1,chr15:74481456:-:ENST00000395105>chr15:74478181:-:MIRc	chr15:74481456:->chr15:74478181:-	363
554	STRA6	ORF1,chr15:74481456:-:ENST00000323940>chr15:74478181:-:MIRc	chr15:74481456:->chr15:74478181:-	363
555	STRA6	ORF1,chr15:74481456:-:ENST00000449139>chr15:74478181:-:MIRc	chr15:74481456:->chr15:74478181:-	363
556	CDH17	ORF1,chr8:95164096:-:ENST00000441892>chr8:95161602:-:L2c	chr8:95164096:->chr8:95161602:-	384
557	STRA6	ORF1,chr15:74481456:-:ENST00000574278>chr15:74481299:-:MIR3	chr15:74481456:->chr15:74481299:-	378
558	SLC17A3	ORF1,chr6:25849602:-:ENST00000361703>chr6:25847464:-:L1PREC2	chr6:25849602:->chr6:25847464:-	376
559	SLC17A3	ORF1,chr6:25849602:-:ENST00000360657>chr6:25847464:-:L1PREC2	chr6:25849602:->chr6:25847464:-	376
560	BACE2	ORF1,chr21:42622828:+:ENST00000328735>chr21:42628789:+:MER4E	chr21:42622828:+>chr21:42628789:+	378
561	BACE2	ORF1,chr21:42622828:+:ENST00000330333>chr21:42628789:+:MER4E	chr21:42622828:+>chr21:42628789:+	378
562	SCARB1	ORF1,chr12:125270903:-:ENST00000376788>chr12:125263793:-:AluJo	chr12:125270903:->chr12:125263793:-	367
563	RHBG	ORF1,chr1:156352660:+:ENST00000400992>chr1:156354102:+:MIRb	chr1:156352660:+>chr1:156354102:+	379
564	LAMP2	ORF1,chrX:119575585:-:ENST00000434600>chrX:119567897:-:Tigger15a	chrX:119575585:->chrX:119567897:-	364
565	LAMP2	ORF1,chrX:119575585:-:ENST00000200639>chrX:119567897:-:Tigger15a	chrX:119575585:->chrX:119567897:-	364
566	LAMP2	ORF1,chrX:119575585:-:ENST00000371335>chrX:119567897:-:Tigger15a	chrX:119575585:->chrX:119567897:-	364
567	STRA6	ORF1,chr15:74481456:-:ENST00000416286>chr15:74478184:-:MIRc	chr15:74481456:->chr15:74478184:-	355
568	XKRX	ORF1,chrX:100169610:-:ENST00000328526>chrX:100143801:-:L2a	chrX:100169610:->chrX:100143801:-	368
569	HTR3A	ORF1,chr11:113857768:+:ENST00000299961>chr11:113858309:+:AluJb	chr11:113857768:+>chr11:113858309:+	364
570	STRA6	ORF1,chr15:74481456:-:ENST00000416286>chr15:74478181:-:MIRc	chr15:74481456:->chr15:74478181:-	355
571	STRA6	ORF1,chr15:74481456:-:ENST00000423167>chr15:74478184:-:MIRc	chr15:74481456:->chr15:74478184:-	354
572	GRAMD1A	ORF1,chr19:35505291:+:ENST00000317991>chr19:35505459:+:MIR	chr19:35505291:+>chr19:35505459:+	356
573	STRA6	ORF1,chr15:74481456:-:ENST00000423167>chr15:74478181:-:MIRc	chr15:74481456:->chr15:74478181:-	354
574	SLC16A10	ORF1,chr6:111527938:+:ENST00000368851>chr6:111577260:+:(GAAA)n	chr6:111527938:+>chr6:111577260:+	362
575	KCND2	ORF1,chr7:119915801:+:ENST00000331113>chr7:119930930:+:MER117	chr7:119915801:+>chr7:119930930:+	371
576	PODXL	ORF1,chr7:131193710:-:ENST00000541194>chr7:131193341:-:MIR3	chr7:131193710:->chr7:131193341:-	369
577	PCDH15	ORF1,chr10:55826517:-:ENST00000409834>chr10:55816578:-:THE1B-int	chr10:55826517:->chr10:55816578:-	351
578	PODXL	ORF1,chr7:131193710:-:ENST00000378555>chr7:131193341:-:MIR3	chr7:131193710:->chr7:131193341:-	367
579	GRAMD1A	ORF1,chr19:35505291:+:ENST00000411896>chr19:35505459:+:MIR	chr19:35505291:+>chr19:35505459:+	349
580	STRA6	ORF1,chr15:74481456:-:ENST00000395105>chr15:74481299:-:MIR3	chr15:74481456:->chr15:74481299:-	363
581	STRA6	ORF1,chr15:74481456:-:ENST00000323940>chr15:74481299:-:MIR3	chr15:74481456:->chr15:74481299:-	363
582	STRA6	ORF1,chr15:74481456:-:ENST00000449139>chr15:74481299:-:MIR3	chr15:74481456:->chr15:74481299:-	363
583	TRABD2B	ORF1,chr1:48244126:-:ENST00000606738>chr1:48243506:-:L2b	chr1:48244126:->chr1:48243506:-	359
584	XKRX	ORF1,chrX:100169610:-:ENST00000372956>chrX:100143801:-:L2a	chrX:100169610:->chrX:100143801:-	355
585	SLC12A2	ORF1,chr5:127450373:+:ENST00000262461>chr5:127453179:+:L1MC5	chr5:127450373:+>chr5:127453179:+	349
586	SLC12A2	ORF1,chr5:127450373:+:ENST00000509205>chr5:127453179:+:L1MC5	chr5:127450373:+>chr5:127453179:+	349
587	SLC12A2	ORF1,chr5:127450373:+:ENST00000343225>chr5:127453179:+:L1MC5	chr5:127450373:+>chr5:127453179:+	349
588	STRA6	ORF1,chr15:74481456:-:ENST00000416286>chr15:74481299:-:MIR3	chr15:74481456:->chr15:74481299:-	355
589	FOLH1	ORF1,chr11:49175398:-:ENST00000343844>chr11:49173831:-:L1ME4a	chr11:49175398:->chr11:49173831:-	348
590	STRA6	ORF1,chr15:74481456:-:ENST00000423167>chr15:74481299:-:MIR3	chr15:74481456:->chr15:74481299:-	354
591	DNER	ORF1,chr2:230411663:-:ENST00000341772>chr2:230409543:-:AluSq2	chr2:230411663:->chr2:230409543:-	331
592	ADCY3	ORF1,chr2:25057354:-:ENST00000606682>chr2:25056695:-:MIRc	chr2:25057354:->chr2:25056695:-	348
593	GPR174	ORF1,chrX:78427461:+:ENST00000276077>chrX:78455898:+:L1PA7	chrX:78427461:+>chrX:78455898:+	319
594	ERBB2	ORF1,chr17:37873733:+:ENST00000445658>chr17:37875964:+:MIRc	chr17:37873733:+>chr17:37875964:+	356
595	CD19	ORF1,chr16:28947522:+:ENST00000538922>chr16:28947601:+:L2b	chr16:28947522:+>chr16:28947601:+	331
596	CD19	ORF1,chr16:28947522:+:ENST00000324662>chr16:28947601:+:L2b	chr16:28947522:+>chr16:28947601:+	331
597	CD19	ORF1,chr16:28947522:+:ENST00000567541>chr16:28947601:+:L2b	chr16:28947522:+>chr16:28947601:+	331
598	RHBG	ORF1,chr1:156352660:+:ENST00000255013>chr1:156354082:+:MIRb	chr1:156352660:+>chr1:156354082:+	342
599	ASTN2	ORF1,chr9:119737487:-:ENST00000373986>chr9:119732431:-:MLT1D	chr9:119737487:->chr9:119732431:-	352
600	GGT1	ORF1,chr22:25019883:+:ENST00000248923>chr22:25023093:+:L2b	chr22:25019883:+>chr22:25023093:+	340
601	GGT1	ORF1,chr22:25019883:+:ENST00000412658>chr22:25023093:+:L2b	chr22:25019883:+>chr22:25023093:+	340
602	GGT1	ORF1,chr22:25019883:+:ENST00000400382>chr22:25023093:+:L2b	chr22:25019883:+>chr22:25023093:+	340
603	GGT1	ORF1,chr22:25019883:+:ENST00000400383>chr22:25023093:+:L2b	chr22:25019883:+>chr22:25023093:+	340
604	GGT1	ORF1,chr22:25019883:+:ENST00000400380>chr22:25023093:+:L2b	chr22:25019883:+>chr22:25023093:+	340
605	GGT1	ORF1,chr22:25019883:+:ENST00000406383>chr22:25023093:+:L2b	chr22:25019883:+>chr22:25023093:+	340
606	GGT1	ORF1,chr22:25019883:+:ENST00000425895>chr22:25023093:+:L2b	chr22:25019883:+>chr22:25023093:+	340
607	GPNMB	ORF1,chr7:23300392:+:ENST00000453162>chr7:23300981:+:L1PA6	chr7:23300392:+>chr7:23300981:+	281
608	LPAR3	ORF1,chr1:85279558:-:ENST00000440886>chr1:85278179:-:AluSz6	chr1:85279558:->chr1:85278179:-	344
609	LPAR3	ORF1,chr1:85279558:-:ENST00000370611>chr1:85278179:-:AluSz6	chr1:85279558:->chr1:85278179:-	344
610	RHBG	ORF1,chr1:156352660:+:ENST00000451864>chr1:156354082:+:MIRb	chr1:156352660:+>chr1:156354082:+	333
611	CXADR	ORF1,chr21:18937929:+:ENST00000284878>chr21:19005467:+:LTR48	chr21:18937929:+>chr21:19005467:+	339
612	CXADR	ORF1,chr21:18937929:+:ENST00000400169>chr21:19005467:+:LTR48	chr21:18937929:+>chr21:19005467:+	339
613	SYNE2	ORF1,chr14:64554574:+:ENST00000357395>chr14:64555808:+:AluSq	chr14:64554574:+>chr14:64555808:+	275
614	SYNE2	ORF1,chr14:64554574:+:ENST00000394768>chr14:64555808:+:AluSq	chr14:64554574:+>chr14:64555808:+	275
615	NPSR1	ORF1,chr7:34888275:+:ENST00000360581>chr7:34935732:+:MSTA-int	chr7:34888275:+>chr7:34935732:+	341
616	NPSR1	ORF1,chr7:34888275:+:ENST00000359791>chr7:34935732:+:MSTA-int	chr7:34888275:+>chr7:34935732:+	341

617	NPSR1	ORF1,chr7:34888275:+:ENST00000381539>chr7:34935732:+:MSTA-int	chr7:34888275:+>chr7:34935732:+	341
618	GPR174	ORF1,chrX:78427465:+:ENST00000276077>chrX:78455898:+:L1PA7	chrX:78427465:+>chrX:78455898:+	320
619	RHBG	ORF1,chr1:156352660:+:ENST00000255013>chr1:156354102:+:MIRb	chr1:156352660:+>chr1:156354102:+	342
620	SDC3	ORF1,chr1:31347144:-:ENST00000336798>chr1:31340352:-:MIRb	chr1:31347144:->chr1:31340352:-	329
621	TRABD2A	ORF1,chr2:85066273:-:ENST00000409520>chr2:85059598:-:L2c	chr2:85066273:->chr2:85059598:-	330
622	TRABD2A	ORF1,chr2:85066273:-:ENST00000409133>chr2:85059598:-:L2c	chr2:85066273:->chr2:85059598:-	330
623	PODXL	ORF1,chr7:131193710:-:ENST00000322985>chr7:131193341:-:MIR3	chr7:131193710:->chr7:131193341:-	335
624	GPNMB	ORF1,chr7:23300392:+:ENST00000258733>chr7:23301185:+:L1PA6	chr7:23300392:+>chr7:23301185:+	339
625	GPNMB	ORF1,chr7:23300392:+:ENST00000381990>chr7:23301185:+:L1PA6	chr7:23300392:+>chr7:23301185:+	339
626	SYT7	ORF1,chr11:61295387:-:ENST00000535826>chr11:61292285:-:MIRb	chr11:61295387:->chr11:61292285:-	326
627	EMR2	ORF1,chr19:14875245:-:ENST00000346057>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	312
628	EMR2	ORF1,chr19:14875245:-:ENST00000594294>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	312
629	EMR2	ORF1,chr19:14875245:-:ENST00000392962>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	312
630	CD19	ORF1,chr16:28946875:+:ENST00000538922>chr16:28947601:+:L2b	chr16:28946875:+>chr16:28947601:+	315
631	CD19	ORF1,chr16:28946875:+:ENST00000324662>chr16:28947601:+:L2b	chr16:28946875:+>chr16:28947601:+	315
632	CD19	ORF1,chr16:28946875:+:ENST00000567541>chr16:28947601:+:L2b	chr16:28946875:+>chr16:28947601:+	315
633	IFNGR2	ORF1,chr21:34805178:+:ENST00000381995>chr21:34809604:+:MIRc	chr21:34805178:+>chr21:34809604:+	312
634	IFNGR2	ORF1,chr21:34805178:+:ENST00000381995>chr21:34809607:+:MIRc	chr21:34805178:+>chr21:34809607:+	312
635	NPSR1	ORF1,chr7:34888275:+:ENST00000531252>chr7:34935732:+:MSTA-int	chr7:34888275:+>chr7:34935732:+	330
636	ACVRL1	ORF1,chr12:52312899:+:ENST00000419526>chr12:52327954:+:L2	chr12:52312899:+>chr12:52327954:+	285
637	RHBG	ORF1,chr1:156352660:+:ENST00000451864>chr1:156354102:+:MIRb	chr1:156352660:+>chr1:156354102:+	333
638	LAMP2	ORF1,chrX:119575585:-:ENST00000540603>chrX:119567897:-:Tigger15a	chrX:119575585:->chrX:119567897:-	317
639	KCNH1	ORF1,chr1:211192206:-:ENST00000271751>chr1:211161772:-:L1PA4	chr1:211192206:->chr1:211161772:-	317
640	KCNH1	ORF1,chr1:211192206:-:ENST00000367007>chr1:211161772:-:L1PA4	chr1:211192206:->chr1:211161772:-	317
641	TMPRSS4	ORF1,chr11:117988130:+:ENST00000522307>chr11:117996010:+:LTR16D	chr11:117988130:+>chr11:117996010:+	274
642	GPR161	ORF1,chr1:168059802:-:ENST00000539777>chr1:168059333:-:MIRb	chr1:168059802:->chr1:168059333:-	323
643	ADRA1B	ORF1,chr5:159344861:+:ENST00000306675>chr5:159412678:+:MER63A	chr5:159344861:+>chr5:159412678:+	316
644	PTPRA	ORF1,chr20:2988066:+:ENST00000425918>chr20:2988850:+:L1MB3	chr20:2988066:+>chr20:2988850:+	313
645	IFNGR2	ORF1,chr21:34805178:+:ENST00000290219>chr21:34809604:+:MIRc	chr21:34805178:+>chr21:34809604:+	293
646	IFNGR2	ORF1,chr21:34805178:+:ENST00000290219>chr21:34809607:+:MIRc	chr21:34805178:+>chr21:34809607:+	293
647	ERG	ORF1,chr21:39762917:-:ENST00000417133>chr21:39739570:-:MLT1F1	chr21:39762917:->chr21:39739570:-	313
648	ERG	ORF1,chr21:39762917:-:ENST00000398919>chr21:39739570:-:MLT1F1	chr21:39762917:->chr21:39739570:-	313
649	SLC28A1	ORF1,chr15:85467341:+:ENST00000537703>chr15:85472528:+:AluSx1	chr15:85467341:+>chr15:85472528:+	283
650	LPPR5	ORF1,chr1:99380342:-:ENST00000263177>chr1:99378537:-:L3	chr1:99380342:->chr1:99378537:-	311
651	PTPRA	ORF1,chr20:2988066:+:ENST00000380393>chr20:2988850:+:L1MB3	chr20:2988066:+>chr20:2988850:+	302
652	PTPRA	ORF1,chr20:2988066:+:ENST00000399903>chr20:2988850:+:L1MB3	chr20:2988066:+>chr20:2988850:+	302
653	ERBB2	ORF1,chr17:37872858:+:ENST00000445658>chr17:37873232:+:MIRb	chr17:37872858:+>chr17:37873232:+	303
654	ANO1	ORF1,chr11:69962605:+:ENST00000355303>chr11:69970317:+:L2c	chr11:69962605:+>chr11:69970317:+	299
655	ANO1	ORF1,chr11:69962605:+:ENST00000538023>chr11:69970317:+:L2c	chr11:69962605:+>chr11:69970317:+	299
656	ACVRL1	ORF1,chr12:52312899:+:ENST00000419526>chr12:52324690:+:Tigger2a	chr12:52312899:+>chr12:52324690:+	285
657	LPPR5	ORF1,chr1:99380357:-:ENST00000370188>chr1:99378537:-:L3	chr1:99380357:->chr1:99378537:-	306
658	LPPR5	ORF1,chr1:99380357:-:ENST00000263177>chr1:99378537:-:L3	chr1:99380357:->chr1:99378537:-	306
659	GPNMB	ORF1,chr7:23300392:+:ENST00000539136>chr7:23300981:+:L1PA6	chr7:23300392:+>chr7:23300981:+	240
660	ERG	ORF1,chr21:39762917:-:ENST00000288319>chr21:39739570:-:MLT1F1	chr21:39762917:->chr21:39739570:-	306
661	B4GALT1	ORF1,chr9:33120417:-:ENST00000379731>chr9:33116392:-:AluSc	chr9:33120417:->chr9:33116392:-	278
662	PTGER4	ORF1,chr5:40681962:+:ENST00000302472>chr5:40685833:+:MIRc	chr5:40681962:+>chr5:40685833:+	289
663	CXADR	ORF1,chr21:18937929:+:ENST00000306618>chr21:19005467:+:LTR48	chr21:18937929:+>chr21:19005467:+	298
664	ADCY1	ORF1,chr7:45650096:+:ENST00000297323>chr7:45652520:+:L1MA5	chr7:45650096:+>chr7:45652520:+	302
665	ADCK4	ORF1,chr19:41208505:-:ENST00000324464>chr19:41208126:-:L1ME3F	chr19:41208505:->chr19:41208126:-	297
666	ADCY3	ORF1,chr2:25057354:-:ENST00000405392>chr2:25056695:-:MIRc	chr2:25057354:->chr2:25056695:-	288
667	PTPRA	ORF1,chr20:2988066:+:ENST00000216877>chr20:2988850:+:L1MB3	chr20:2988066:+>chr20:2988850:+	293
668	PTPRA	ORF1,chr20:2988066:+:ENST00000318266>chr20:2988850:+:L1MB3	chr20:2988066:+>chr20:2988850:+	293
669	PTPRA	ORF1,chr20:2988066:+:ENST00000356147>chr20:2988850:+:L1MB3	chr20:2988066:+>chr20:2988850:+	293
670	SLC22A18	ORF1,chr11:2940637:+:ENST00000347936>chr11:2940947:+:MIRb	chr11:2940637:+>chr11:2940947:+	288
671	SLC22A18	ORF1,chr11:2940637:+:ENST00000312221>chr11:2940947:+:MIRb	chr11:2940637:+>chr11:2940947:+	288
672	SLC22A18	ORF1,chr11:2940637:+:ENST00000380574>chr11:2940947:+:MIRb	chr11:2940637:+>chr11:2940947:+	288
673	UPK3B	ORF1,chr7:76144473:+:ENST00000448265>chr7:76648226:+:MSTA	chr7:76144473:+>chr7:76648226:+	289
674	UPK3B	ORF1,chr7:76144473:+:ENST00000419923>chr7:76648226:+:MSTA	chr7:76144473:+>chr7:76648226:+	289
675	UPK3B	ORF1,chr7:76144473:+:ENST00000257632>chr7:76648226:+:MSTA	chr7:76144473:+>chr7:76648226:+	289
676	UPK3B	ORF1,chr7:76144473:+:ENST00000448265>chr7:76676146:+:MSTA	chr7:76144473:+>chr7:76676146:+	289
677	UPK3B	ORF1,chr7:76144473:+:ENST00000419923>chr7:76676146:+:MSTA	chr7:76144473:+>chr7:76676146:+	289
678	UPK3B	ORF1,chr7:76144473:+:ENST00000257632>chr7:76676146:+:MSTA	chr7:76144473:+>chr7:76676146:+	289
679	CD68	ORF1,chr17:7484314:+:ENST00000250092>chr17:7485027:+:AluSz	chr17:7484314:+>chr17:7485027:+	287
680	RET	ORF1,chr10:43600641:+:ENST00000355710>chr10:43600907:+:GC_rich	chr10:43600641:+>chr10:43600907:+	289
681	RET	ORF1,chr10:43600641:+:ENST00000340058>chr10:43600907:+:GC_rich	chr10:43600641:+>chr10:43600907:+	289
682	TMPRSS4	ORF1,chr11:117985995:+:ENST00000522307>chr11:117996010:+:LTR16D	chr11:117985995:+>chr11:117996010:+	237
683	RAET1G	ORF1,chr6:150239310:-:ENST00000367360>chr6:150238660:-:LTR13_	chr6:150239310:->chr6:150238660:-	280
684	SYT7	ORF1,chr11:61295387:-:ENST00000540677>chr11:61292285:-:MIRb	chr11:61295387:->chr11:61292285:-	282
685	EMR2	ORF1,chr19:14875245:-:ENST00000353876>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	268

686	EMR2	ORF1,chr19:14875245:-:ENST00000594076>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	268
687	ITGA8	ORF1,chr10:15713602:-:ENST00000378076>chr10:15712406:-:MIRb	chr10:15713602:->chr10:15712406:-	282
688	SLC22A18	ORF1,chr11:2940637:+:ENST00000347936>chr11:2940968:+:MIRb	chr11:2940637:+>chr11:2940968:+	288
689	SLC22A18	ORF1,chr11:2940637:+:ENST00000312221>chr11:2940968:+:MIRb	chr11:2940637:+>chr11:2940968:+	288
690	SLC22A18	ORF1,chr11:2940637:+:ENST00000380574>chr11:2940968:+:MIRb	chr11:2940637:+>chr11:2940968:+	288
691	ERG	ORF1,chr21:39762917:-:ENST00000398910>chr21:39739570:-:MLT1F1	chr21:39762917:->chr21:39739570:-	290
692	TRABD2A	ORF1,chr2:85066273:-:ENST00000335459>chr2:85059598:-:L2c	chr2:85066273:->chr2:85059598:-	281
693	ERG	ORF1,chr21:39762917:-:ENST00000398911>chr21:39739570:-:MLT1F1	chr21:39762917:->chr21:39739570:-	289
694	ERG	ORF1,chr21:39762917:-:ENST00000442448>chr21:39739570:-:MLT1F1	chr21:39762917:->chr21:39739570:-	289
695	TMPRSS4	ORF1,chr11:117988169:+:ENST00000522307>chr11:117996044:+:LTR16D	chr11:117988169:+>chr11:117996044:+	287
696	UPK3B	ORF1,chr7:76144473:+:ENST00000334348>chr7:76648226:+:MSTA	chr7:76144473:+>chr7:76648226:+	261
697	UPK3B	ORF1,chr7:76144473:+:ENST00000443097>chr7:76648226:+:MSTA	chr7:76144473:+>chr7:76648226:+	261
698	UPK3B	ORF1,chr7:76144473:+:ENST00000334348>chr7:76676146:+:MSTA	chr7:76144473:+>chr7:76676146:+	261
699	UPK3B	ORF1,chr7:76144473:+:ENST00000443097>chr7:76676146:+:MSTA	chr7:76144473:+>chr7:76676146:+	261
700	TFRC	ORF1,chr3:195785155:-:ENST00000535031>chr3:195782790:-:FRAM	chr3:195785155:->chr3:195782790:-	277
701	TFRC	ORF1,chr3:195785155:-:ENST00000535031>chr3:195782922:-:FRAM	chr3:195785155:->chr3:195782922:-	277
702	SLC17A3	ORF1,chr6:25850987:-:ENST00000397060>chr6:25836733:-:LTR46-int	chr6:25850987:->chr6:25836733:-	277
703	GPR161	ORF1,chr1:168059802:-:ENST00000546300>chr1:168059333:-:MIRb	chr1:168059802:->chr1:168059333:-	287
704	TFRC	ORF1,chr3:195785155:-:ENST00000535031>chr3:195782660:-:AluJb	chr3:195785155:->chr3:195782660:-	277
705	VSTM4	ORF1,chr10:50255028:-:ENST00000332853>chr10:50240450:-:MER63B	chr10:50255028:->chr10:50240450:-	279
706	ERG	ORF1,chr21:39762917:-:ENST00000398907>chr21:39739570:-:MLT1F1	chr21:39762917:->chr21:39739570:-	283
707	ERG	ORF1,chr21:39762917:-:ENST00000398905>chr21:39739570:-:MLT1F1	chr21:39762917:->chr21:39739570:-	282
708	SLC2A9	ORF1,chr4:9943537:-:ENST00000264784>chr4:9928812:-:AluSq	chr4:9943537:->chr4:9928812:-	271
709	CD68	ORF1,chr17:7484279:+:ENST00000250092>chr17:7485179:+:AluSz	chr17:7484279:+>chr17:7485179:+	275
710	ANO1	ORF1,chr11:69962605:+:ENST00000316296>chr11:69970317:+:L2c	chr11:69962605:+>chr11:69970317:+	271
711	GPNMB	ORF1,chr7:23300392:+:ENST00000453162>chr7:23301185:+:L1PA6	chr7:23300392:+>chr7:23301185:+	281
712	GLDN	ORF1,chr15:51693940:+:ENST00000396399>chr15:51694052:+:L2c	chr15:51693940:+>chr15:51694052:+	268
713	UPK3B	ORF1,chr7:76143393:+:ENST00000448265>chr7:76676146:+:MSTA	chr7:76143393:+>chr7:76676146:+	252
714	UPK3B	ORF1,chr7:76143393:+:ENST00000419923>chr7:76676146:+:MSTA	chr7:76143393:+>chr7:76676146:+	252
715	UPK3B	ORF1,chr7:76143393:+:ENST00000257632>chr7:76676146:+:MSTA	chr7:76143393:+>chr7:76676146:+	252
716	UPK3B	ORF1,chr7:76143393:+:ENST00000448265>chr7:76648226:+:MSTA	chr7:76143393:+>chr7:76648226:+	252
717	UPK3B	ORF1,chr7:76143393:+:ENST00000419923>chr7:76648226:+:MSTA	chr7:76143393:+>chr7:76648226:+	252
718	UPK3B	ORF1,chr7:76143393:+:ENST00000257632>chr7:76648226:+:MSTA	chr7:76143393:+>chr7:76648226:+	252
719	NPSR1	ORF1,chr7:34888275:+:ENST00000381542>chr7:34935732:+:MSTA-int	chr7:34888275:+>chr7:34935732:+	275
720	KLB	ORF1,chr4:39409394:+:ENST00000257408>chr4:39414939:+:Charlie21a	chr4:39409394:+>chr4:39414939:+	275
721	GRIA1	ORF1,chr5:153035432:+:ENST00000448073>chr5:153044088:+:L2b	chr5:153035432:+>chr5:153044088:+	243
722	GRIA1	ORF1,chr5:153035432:+:ENST00000518783>chr5:153044088:+:L2b	chr5:153035432:+>chr5:153044088:+	243
723	TRABD2A	ORF1,chr2:85097349:-:ENST00000335459>chr2:85080534:-:THE1C	chr2:85097349:->chr2:85080534:-	223
724	TRABD2A	ORF1,chr2:85097349:-:ENST00000409520>chr2:85080534:-:THE1C	chr2:85097349:->chr2:85080534:-	223
725	TRABD2A	ORF1,chr2:85097349:-:ENST00000409133>chr2:85080534:-:THE1C	chr2:85097349:->chr2:85080534:-	223
726	HPN	ORF1,chr19:35551721:+:ENST00000262626>chr19:35551967:+:L1MB7	chr19:35551721:+>chr19:35551967:+	270
727	HPN	ORF1,chr19:35551721:+:ENST00000392226>chr19:35551967:+:L1MB7	chr19:35551721:+>chr19:35551967:+	270
728	LRP4	ORF1,chr11:46920109:-:ENST00000378623>chr11:46919899:-:AluSz	chr11:46920109:->chr11:46919899:-	265
729	CD68	ORF1,chr17:7484067:+:ENST00000250092>chr17:7485173:+:AluSz	chr17:7484067:+>chr17:7485173:+	242
730	UPK3B	ORF1,chr7:76143393:+:ENST00000334348>chr7:76676146:+:MSTA	chr7:76143393:+>chr7:76676146:+	223
731	UPK3B	ORF1,chr7:76143393:+:ENST00000443097>chr7:76676146:+:MSTA	chr7:76143393:+>chr7:76676146:+	223
732	UPK3B	ORF1,chr7:76143393:+:ENST00000334348>chr7:76648226:+:MSTA	chr7:76143393:+>chr7:76648226:+	223
733	UPK3B	ORF1,chr7:76143393:+:ENST00000443097>chr7:76648226:+:MSTA	chr7:76143393:+>chr7:76648226:+	223
734	TRAF3IP3	ORF1,chr1:209946364:+:ENST00000367025>chr1:209948635:+:L2c	chr1:209946364:+>chr1:209948635:+	258
735	TRAF3IP3	ORF1,chr1:209946364:+:ENST00000478359>chr1:209948635:+:L2c	chr1:209946364:+>chr1:209948635:+	258
736	TRAF3IP3	ORF1,chr1:209946364:+:ENST00000367024>chr1:209948635:+:L2c	chr1:209946364:+>chr1:209948635:+	258
737	GPR161	ORF1,chr1:168059802:-:ENST00000367836>chr1:168059333:-:MIRb	chr1:168059802:->chr1:168059333:-	269
738	SLC51A	ORF1,chr3:195956932:+:ENST00000296327>chr3:195970598:+:SVA_C	chr3:195956932:+>chr3:195970598:+	260
739	CD68	ORF1,chr17:7484314:+:ENST00000380498>chr17:7485027:+:AluSz	chr17:7484314:+>chr17:7485027:+	260
740	LAMP2	ORF1,chrX:119575585:-:ENST00000538785>chrX:119567897:-:Tigger15a	chrX:119575585:->chrX:119567897:-	253
741	GRIA1	ORF1,chr5:153035432:+:ENST00000285900>chr5:153044088:+:L2b	chr5:153035432:+>chr5:153044088:+	233
742	GRIA1	ORF1,chr5:153035432:+:ENST00000340592>chr5:153044088:+:L2b	chr5:153035432:+>chr5:153044088:+	233
743	CD74	ORF1,chr5:149782749:-:ENST00000009530>chr5:149709118:-:Charlie4z	chr5:149782749:->chr5:149709118:-	250
744	ZDHHC21	ORF1,chr9:14639894:-:ENST00000380916>chr9:14555734:-:L2c	chr9:14639894:->chr9:14555734:-	207
745	SYT7	ORF1,chr11:61295387:-:ENST00000542836>chr11:61292285:-:MIRb	chr11:61295387:->chr11:61292285:-	251
746	ADCK4	ORF1,chr19:41208505:-:ENST00000450541>chr19:41208126:-:L1ME3F	chr19:41208505:->chr19:41208126:-	256
747	ADCK4	ORF1,chr19:41208505:-:ENST00000243583>chr19:41208126:-:L1ME3F	chr19:41208505:->chr19:41208126:-	256
748	PDPN	ORF1,chr1:13940906:+:ENST00000294489>chr1:13965666:+:MLT1F	chr1:13940906:+>chr1:13965666:+	236
749	SLC47A1	ORF1,chr17:19470541:+:ENST00000571335>chr17:19482057:+:MER65C	chr17:19470541:+>chr17:19482057:+	241
750	APCDD1	ORF1,chr18:10472058:+:ENST00000355285>chr18:10472376:+:MIR3	chr18:10472058:+>chr18:10472376:+	258
751	ITGB4	ORF1,chr17:73725517:+:ENST00000579662>chr17:73726063:+:AluJo	chr17:73725517:+>chr17:73726063:+	246
752	ITGB4	ORF1,chr17:73725517:+:ENST00000339591>chr17:73726063:+:AluJo	chr17:73725517:+>chr17:73726063:+	246
753	ITGB4	ORF1,chr17:73725517:+:ENST00000200181>chr17:73726063:+:AluJo	chr17:73725517:+>chr17:73726063:+	246
754	ITGB4	ORF1,chr17:73725517:+:ENST00000450894>chr17:73726063:+:AluJo	chr17:73725517:+>chr17:73726063:+	246

755	ITGB4	ORF1,chr17:73725517:+:ENST00000449880>chr17:73726063:+:AluJo	chr17:73725517:+>chr17:73726063:+	246
756	SLC20A2	ORF1,chr8:42302164:-:ENST00000342228>chr8:42301552:-:L1ME2	chr8:42302164:->chr8:42301552:-	243
757	SLC20A2	ORF1,chr8:42302164:-:ENST00000520262>chr8:42301552:-:L1ME2	chr8:42302164:->chr8:42301552:-	243
758	SLC20A2	ORF1,chr8:42302164:-:ENST00000520179>chr8:42301552:-:L1ME2	chr8:42302164:->chr8:42301552:-	243
759	SLC12A9	ORF1,chr7:100454798:+:ENST00000540482>chr7:100455389:+:AluSx	chr7:100454798:+>chr7:100455389:+	252
760	SLC12A9	ORF1,chr7:100454798:+:ENST00000428758>chr7:100455389:+:AluSx	chr7:100454798:+>chr7:100455389:+	252
761	SLC12A9	ORF1,chr7:100454798:+:ENST00000354161>chr7:100455389:+:AluSx	chr7:100454798:+>chr7:100455389:+	252
762	SLC20A2	ORF1,chr8:42302164:-:ENST00000342228>chr8:42301215:-:L1ME2	chr8:42302164:->chr8:42301215:-	243
763	SLC20A2	ORF1,chr8:42302164:-:ENST00000520262>chr8:42301215:-:L1ME2	chr8:42302164:->chr8:42301215:-	243
764	SLC20A2	ORF1,chr8:42302164:-:ENST00000520179>chr8:42301215:-:L1ME2	chr8:42302164:->chr8:42301215:-	243
765	CXADR	ORF1,chr21:18937929:+:ENST00000400166>chr21:19005467:+:LTR48	chr21:18937929:+>chr21:19005467:+	251
766	SLC20A2	ORF1,chr8:42302164:-:ENST00000342228>chr8:42301587:-:L1ME2	chr8:42302164:->chr8:42301587:-	243
767	SLC20A2	ORF1,chr8:42302164:-:ENST00000520262>chr8:42301587:-:L1ME2	chr8:42302164:->chr8:42301587:-	243
768	SLC20A2	ORF1,chr8:42302164:-:ENST00000520179>chr8:42301587:-:L1ME2	chr8:42302164:->chr8:42301587:-	243
769	CD68	ORF1,chr17:7484279:+:ENST00000380498>chr17:7485179:+:AluSz	chr17:7484279:+>chr17:7485179:+	248
770	KCNJ10	ORF1,chr1:160011624:-:ENST00000368089>chr1:159969284:-:LTR85c	chr1:160011624:->chr1:159969284:-	233
771	AXL	ORF1,chr19:41749612:+:ENST00000593513>chr19:41751964:+:Charlie1	chr19:41749612:+>chr19:41751964:+	244
772	SLC2A9	ORF1,chr4:9943537:-:ENST00000506583>chr4:9928812:-:AluSq	chr4:9943537:->chr4:9928812:-	242
773	SLC2A9	ORF1,chr4:9943537:-:ENST00000309065>chr4:9928812:-:AluSq	chr4:9943537:->chr4:9928812:-	242
774	PDPN	ORF1,chr1:13940906:+:ENST00000510906>chr1:13965666:+:MLT1F	chr1:13940906:+>chr1:13965666:+	227
775	ITGA3	ORF1,chr17:48145669:+:ENST00000320031>chr17:48147729:+:AluSq	chr17:48145669:+>chr17:48147729:+	221
776	ITGA3	ORF1,chr17:48145669:+:ENST00000007722>chr17:48147729:+:AluSq	chr17:48145669:+>chr17:48147729:+	221
777	TRAF3IP3	ORF1,chr1:209946364:+:ENST00000400959>chr1:209948635:+:L2c	chr1:209946364:+>chr1:209948635:+	238
778	TRAF3IP3	ORF1,chr1:209946364:+:ENST00000367026>chr1:209948635:+:L2c	chr1:209946364:+>chr1:209948635:+	238
779	TRAF3IP3	ORF1,chr1:209946364:+:ENST00000010338>chr1:209948635:+:L2c	chr1:209946364:+>chr1:209948635:+	238
780	SLC29A2	ORF1,chr11:66134935:-:ENST00000311161>chr11:66134753:-:MIR3	chr11:66134935:->chr11:66134753:-	244
781	SLC29A2	ORF1,chr11:66134935:-:ENST00000357440>chr11:66134753:-:MIR3	chr11:66134935:->chr11:66134753:-	244
782	SLC29A2	ORF1,chr11:66134935:-:ENST00000540386>chr11:66134753:-:MIR3	chr11:66134935:->chr11:66134753:-	244
783	SLC29A2	ORF1,chr11:66134935:-:ENST00000544554>chr11:66134753:-:MIR3	chr11:66134935:->chr11:66134753:-	244
784	SLC29A2	ORF1,chr11:66134935:-:ENST00000546034>chr11:66134753:-:MIR3	chr11:66134935:->chr11:66134753:-	244
785	SCNN1B	ORF1,chr16:23364395:+:ENST00000307331>chr16:23365549:+:MIR	chr16:23364395:+>chr16:23365549:+	240
786	EMR2	ORF1,chr19:14875245:-:ENST00000353005>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	219
787	EMR2	ORF1,chr19:14875245:-:ENST00000595839>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	219
788	CD68	ORF1,chr17:7484067:+:ENST00000380498>chr17:7485173:+:AluSz	chr17:7484067:+>chr17:7485173:+	215
789	UPK3B	ORF1,chr7:76144473:+:ENST00000394849>chr7:76648226:+:MSTA	chr7:76144473:+>chr7:76648226:+	234
790	UPK3B	ORF1,chr7:76144473:+:ENST00000394849>chr7:76676146:+:MSTA	chr7:76144473:+>chr7:76676146:+	234
791	CD68	ORF1,chr17:7483903:+:ENST00000250092>chr17:7485032:+:AluSz	chr17:7483903:+>chr17:7485032:+	229
792	GPNMB	ORF1,chr7:23300392:+:ENST00000539136>chr7:23301185:+:L1PA6	chr7:23300392:+>chr7:23301185:+	240
793	ASIC2	ORF1,chr17:31618426:-:ENST00000225823>chr17:31561582:-:MLT1A0	chr17:31618426:->chr17:31561582:-	236
794	AIG1	ORF1,chr6:143654582:+:ENST00000357847>chr6:143699354:+:THE1C	chr6:143654582:+>chr6:143699354:+	226
795	AIG1	ORF1,chr6:143654582:+:ENST00000275235>chr6:143699354:+:THE1C	chr6:143654582:+>chr6:143699354:+	226
796	ATP1B3	ORF1,chr3:141640905:+:ENST00000286371>chr3:141642262:+:MSTC	chr3:141640905:+>chr3:141642262:+	223
797	ANTXR1	ORF1,chr2:69304620:+:ENST00000303714>chr2:69316556:+:L4	chr2:69304620:+>chr2:69316556:+	214
798	ANTXR1	ORF1,chr2:69304620:+:ENST00000409829>chr2:69316556:+:L4	chr2:69304620:+>chr2:69316556:+	214
799	ANTXR1	ORF1,chr2:69304620:+:ENST00000409349>chr2:69316556:+:L4	chr2:69304620:+>chr2:69316556:+	214
800	IFNGR2	ORF1,chr21:34805178:+:ENST00000405436>chr21:34809604:+:MIRc	chr21:34805178:+>chr21:34809604:+	214
801	IFNGR2	ORF1,chr21:34805178:+:ENST00000405436>chr21:34809607:+:MIRc	chr21:34805178:+>chr21:34809607:+	214
802	SLC39A11	ORF1,chr17:70732789:-:ENST00000542342>chr17:70670711:-:L1MC4a	chr17:70732789:->chr17:70670711:-	230
803	TRABD2B	ORF1,chr1:48459706:-:ENST00000606738>chr1:48285477:-:L2b	chr1:48459706:->chr1:48285477:-	222
804	CD68	ORF1,chr17:7483903:+:ENST00000250092>chr17:7485013:+:AluSz	chr17:7483903:+>chr17:7485013:+	229
805	FOLH1	ORF1,chr11:49186257:-:ENST00000343844>chr11:49184464:-:L1PA10	chr11:49186257:->chr11:49184464:-	172
806	CD9	ORF1,chr12:6345441:+:ENST00000382518>chr12:6391293:+:L2b	chr12:6345441:+>chr12:6391293:+	207
807	CD9	ORF1,chr12:6345441:+:ENST00000009180>chr12:6391293:+:L2b	chr12:6345441:+>chr12:6391293:+	207
808	SLC39A11	ORF1,chr17:70732789:-:ENST00000255559>chr17:70670711:-:L1MC4a	chr17:70732789:->chr17:70670711:-	223
809	LRRC38	ORF1,chr1:13839458:-:ENST00000376085>chr1:13832360:-:L2a	chr1:13839458:->chr1:13832360:-	210
810	GPR174	ORF1,chrX:78427114:+:ENST00000276077>chrX:78455898:+:L1PA7	chrX:78427114:+>chrX:78455898:+	203
811	UPK3B	ORF1,chr7:76143393:+:ENST00000394849>chr7:76676146:+:MSTA	chr7:76143393:+>chr7:76676146:+	197
812	UPK3B	ORF1,chr7:76143393:+:ENST00000394849>chr7:76648226:+:MSTA	chr7:76143393:+>chr7:76648226:+	197
813	ATP1B3	ORF1,chr3:141640905:+:ENST00000286371>chr3:141642163:+:MSTC	chr3:141640905:+>chr3:141642163:+	223
814	XKRX	ORF1,chrX:100177782:-:ENST00000328526>chrX:100143801:-:L2a	chrX:100177782:->chrX:100143801:-	214
815	SYT7	ORF1,chr11:61295387:-:ENST00000263846>chr11:61292285:-:MIRb	chr11:61295387:->chr11:61292285:-	207
816	IL1R2	ORF1,chr2:102632513:+:ENST00000332549>chr2:102634836:+:MIRb	chr2:102632513:+>chr2:102634836:+	171
817	IL1R2	ORF1,chr2:102632513:+:ENST00000393414>chr2:102634836:+:MIRb	chr2:102632513:+>chr2:102634836:+	171
818	IL1R2	ORF1,chr2:102632513:+:ENST00000457817>chr2:102634836:+:MIRb	chr2:102632513:+>chr2:102634836:+	171
819	IL1R2	ORF1,chr2:102632513:+:ENST00000441002>chr2:102634836:+:MIRb	chr2:102632513:+>chr2:102634836:+	171
820	PPAPDC1B	ORF1,chr8:38123659:-:ENST00000424479>chr8:38103147:-:L1MC5	chr8:38123659:->chr8:38103147:-	211
821	PPAPDC1B	ORF1,chr8:38123659:-:ENST00000422581>chr8:38103147:-:L1MC5	chr8:38123659:->chr8:38103147:-	211
822	GPR143	ORF1,chrX:9716614:-:ENST00000380929>chrX:9715942:-:MER58A	chrX:9716614:->chrX:9715942:-	202
823	ABCC2	ORF1,chr10:101554225:+:ENST00000370449>chr10:101556266:+:AluSq2	chr10:101554225:+>chr10:101556266:+	210

824	ABCC2	ORF1,chr10:101554225:+:ENST00000370434>chr10:101556266:+:AluSq2	chr10:101554225:+>chr10:101556266:+	210
825	ADAM10	ORF1,chr15:58957296:-:ENST00000260408>chr15:58947615:-:MSTA	chr15:58957296:->chr15:58947615:-	195
826	ERG	ORF1,chr21:39762917:-:ENST00000453032>chr21:39739570:-:MLT1F1	chr21:39762917:->chr21:39739570:-	214
827	CD68	ORF1,chr17:7483903:+:ENST00000380498>chr17:7485032:+:AluSz	chr17:7483903:+>chr17:7485032:+	202
828	CD74	ORF1,chr5:149784243:-:ENST00000353334>chr5:149783719:-:MIR3	chr5:149784243:->chr5:149783719:-	208
829	CD74	ORF1,chr5:149784243:-:ENST00000009530>chr5:149783719:-:MIR3	chr5:149784243:->chr5:149783719:-	208
830	CD8B	ORF1,chr2:87072045:-:ENST00000393759>chr2:87069500:-:L4	chr2:87072045:->chr2:87069500:-	206
831	CD8B	ORF1,chr2:87072045:-:ENST00000331469>chr2:87069500:-:L4	chr2:87072045:->chr2:87069500:-	206
832	CD8B	ORF1,chr2:87072045:-:ENST00000390655>chr2:87069500:-:L4	chr2:87072045:->chr2:87069500:-	206
833	LAT	ORF1,chr16:28998214:+:ENST00000395461>chr16:29000220:+:AluJb	chr16:28998214:+>chr16:29000220:+	200
834	ADAM10	ORF1,chr15:58957296:-:ENST00000260408>chr15:58947589:-:MSTA	chr15:58957296:->chr15:58947589:-	195
835	SLC38A2	ORF1,chr12:46760647:-:ENST00000256689>chr12:46760066:-:Tigger4b	chr12:46760647:->chr12:46760066:-	187
836	ABCC2	ORF1,chr10:101554225:+:ENST00000370449>chr10:101556148:+:AluSq2	chr10:101554225:+>chr10:101556148:+	210
837	ABCC2	ORF1,chr10:101554225:+:ENST00000370434>chr10:101556148:+:AluSq2	chr10:101554225:+>chr10:101556148:+	210
838	LRRC38	ORF1,chr1:13839458:-:ENST00000376085>chr1:13735318:-:LTR26	chr1:13839458:->chr1:13735318:-	210
839	LRRC38	ORF1,chr1:13839458:-:ENST00000376085>chr1:13640779:-:LTR26	chr1:13839458:->chr1:13640779:-	210
840	LRRC38	ORF1,chr1:13839458:-:ENST00000376085>chr1:13514477:-:LTR26	chr1:13839458:->chr1:13514477:-	210
841	SLC39A11	ORF1,chr17:70845773:-:ENST00000542342>chr17:70827589:-:MIRc	chr17:70845773:->chr17:70827589:-	207
842	SLC17A3	ORF1,chr6:25850987:-:ENST00000361703>chr6:25836733:-:LTR46-int	chr6:25850987:->chr6:25836733:-	199
843	SLC17A3	ORF1,chr6:25850987:-:ENST00000360657>chr6:25836733:-:LTR46-int	chr6:25850987:->chr6:25836733:-	199
844	XKRX	ORF1,chrX:100177782:-:ENST00000372956>chrX:100143801:-:L2a	chrX:100177782:->chrX:100143801:-	201
845	CD68	ORF1,chr17:7483903:+:ENST00000380498>chr17:7485013:+:AluSz	chr17:7483903:+>chr17:7485013:+	202
846	LAT	ORF1,chr16:28998214:+:ENST00000360872>chr16:29000220:+:AluJb	chr16:28998214:+>chr16:29000220:+	193
847	LAT	ORF1,chr16:28998214:+:ENST00000566177>chr16:29000220:+:AluJb	chr16:28998214:+>chr16:29000220:+	192
848	SLC38A2	ORF1,chr12:46760647:-:ENST00000256689>chr12:46760023:-:Tigger4b	chr12:46760647:->chr12:46760023:-	187
849	CXADR	ORF1,chr21:18937929:+:ENST00000400165>chr21:19005467:+:LTR48	chr21:18937929:+>chr21:19005467:+	199
850	SLC39A11	ORF1,chr17:70845773:-:ENST00000255559>chr17:70827589:-:MIRc	chr17:70845773:->chr17:70827589:-	200
851	SLC39A11	ORF1,chr17:70845773:-:ENST00000579732>chr17:70827589:-:MIRc	chr17:70845773:->chr17:70827589:-	200
852	SLC39A11	ORF1,chr17:70845773:-:ENST00000580557>chr17:70827589:-:MIRc	chr17:70845773:->chr17:70827589:-	200
853	SCNN1B	ORF1,chr16:23364395:+:ENST00000343070>chr16:23365549:+:MIR	chr16:23364395:+>chr16:23365549:+	195
854	SCNN1B	ORF1,chr16:23364395:+:ENST00000564275>chr16:23365549:+:MIR	chr16:23364395:+>chr16:23365549:+	195
855	SCNN1B	ORF1,chr16:23364395:+:ENST00000568085>chr16:23365549:+:MIR	chr16:23364395:+>chr16:23365549:+	195
856	SCNN1B	ORF1,chr16:23364395:+:ENST00000568923>chr16:23365549:+:MIR	chr16:23364395:+>chr16:23365549:+	195
857	SLC22A18	ORF1,chr11:2940637:+:ENST00000449793>chr11:2940947:+:MIRb	chr11:2940637:+>chr11:2940947:+	190
858	PPAPDC1B	ORF1,chr8:38123659:-:ENST00000524616>chr8:38103147:-:L1MC5	chr8:38123659:->chr8:38103147:-	192
859	GPR143	ORF1,chrX:9716614:-:ENST00000467482>chrX:9715942:-:MER58A	chrX:9716614:->chrX:9715942:-	182
860	GRIA1	ORF1,chr5:153035432:+:ENST00000521843>chr5:153044088:+:L2b	chr5:153035432:+>chr5:153044088:+	164
861	LAT	ORF1,chr16:28998214:+:ENST00000354453>chr16:29000220:+:AluJb	chr16:28998214:+>chr16:29000220:+	183
862	GABRA1	ORF1,chr5:161302648:+:ENST00000023897>chr5:161308738:+:L2a	chr5:161302648:+>chr5:161308738:+	186
863	GABRA1	ORF1,chr5:161302648:+:ENST00000428797>chr5:161308738:+:L2a	chr5:161302648:+>chr5:161308738:+	186
864	GABRA1	ORF1,chr5:161302648:+:ENST00000393943>chr5:161308738:+:L2a	chr5:161302648:+>chr5:161308738:+	186
865	GABRA1	ORF1,chr5:161302648:+:ENST00000437025>chr5:161308738:+:L2a	chr5:161302648:+>chr5:161308738:+	186
866	GABRA1	ORF1,chr5:161302648:+:ENST00000420560>chr5:161308738:+:L2a	chr5:161302648:+>chr5:161308738:+	186
867	GABRA1	ORF1,chr5:161302648:+:ENST00000444819>chr5:161308738:+:L2a	chr5:161302648:+>chr5:161308738:+	186
868	GPR110	ORF1,chr6:46989694:-:ENST00000371253>chr6:46985755:-:L2a	chr6:46989694:->chr6:46985755:-	184
869	GPR110	ORF1,chr6:46989694:-:ENST00000371243>chr6:46985755:-:L2a	chr6:46989694:->chr6:46985755:-	184
870	TNFRSF14	ORF1,chr1:2492153:+:ENST00000426449>chr1:2512999:+:L1MEg	chr1:2492153:+>chr1:2512999:+	183
871	TNFRSF14	ORF1,chr1:2492153:+:ENST00000434817>chr1:2512999:+:L1MEg	chr1:2492153:+>chr1:2512999:+	183
872	TNFRSF14	ORF1,chr1:2492153:+:ENST00000435221>chr1:2512999:+:L1MEg	chr1:2492153:+>chr1:2512999:+	183
873	TNFRSF14	ORF1,chr1:2492153:+:ENST00000451778>chr1:2512999:+:L1MEg	chr1:2492153:+>chr1:2512999:+	183
874	TNFRSF14	ORF1,chr1:2492153:+:ENST00000409119>chr1:2512999:+:L1MEg	chr1:2492153:+>chr1:2512999:+	183
875	TNFRSF14	ORF1,chr1:2492153:+:ENST00000355716>chr1:2512999:+:L1MEg	chr1:2492153:+>chr1:2512999:+	183
876	ADCK4	ORF1,chr19:41208505:-:ENST00000595254>chr19:41208126:-:L1ME3F	chr19:41208505:->chr19:41208126:-	188
877	GPNMB	ORF1,chr7:23296684:+:ENST00000258733>chr7:23322419:+:AluSg7	chr7:23296684:+>chr7:23322419:+	180
878	GPNMB	ORF1,chr7:23296684:+:ENST00000381990>chr7:23322419:+:AluSg7	chr7:23296684:+>chr7:23322419:+	180
879	GPNMB	ORF1,chr7:23296684:+:ENST00000409458>chr7:23322419:+:AluSg7	chr7:23296684:+>chr7:23322419:+	180
880	SLC22A18	ORF1,chr11:2940637:+:ENST00000449793>chr11:2940968:+:MIRb	chr11:2940637:+>chr11:2940968:+	190
881	ANO1	ORF1,chr11:69962605:+:ENST00000398543>chr11:69970317:+:L2c	chr11:69962605:+>chr11:69970317:+	183
882	ANO1	ORF1,chr11:69962605:+:ENST00000530676>chr11:69970317:+:L2c	chr11:69962605:+>chr11:69970317:+	183
883	LRP6	ORF1,chr12:12397196:-:ENST00000261349>chr12:12389781:-:MER21C	chr12:12397196:->chr12:12389781:-	149
884	LRP6	ORF1,chr12:12397196:-:ENST00000543091>chr12:12389781:-:MER21C	chr12:12397196:->chr12:12389781:-	149
885	ERG	ORF1,chr21:39762917:-:ENST00000398897>chr21:39739570:-:MLT1F1	chr21:39762917:->chr21:39739570:-	190
886	GRIA4	ORF1,chr11:105623946:+:ENST00000393125>chr11:105628730:+:AluJr	chr11:105623946:+>chr11:105628730:+	162
887	GRIA4	ORF1,chr11:105623946:+:ENST00000282499>chr11:105628730:+:AluJr	chr11:105623946:+>chr11:105628730:+	162
888	GRIA4	ORF1,chr11:105623946:+:ENST00000393127>chr11:105628730:+:AluJr	chr11:105623946:+>chr11:105628730:+	162
889	GRIA4	ORF1,chr11:105623946:+:ENST00000428631>chr11:105628730:+:AluJr	chr11:105623946:+>chr11:105628730:+	162
890	GRIA4	ORF1,chr11:105623946:+:ENST00000531011>chr11:105628730:+:AluJr	chr11:105623946:+>chr11:105628730:+	162
891	GRIA4	ORF1,chr11:105623946:+:ENST00000525187>chr11:105628730:+:AluJr	chr11:105623946:+>chr11:105628730:+	162
892	GRIA4	ORF1,chr11:105623946:+:ENST00000530497>chr11:105628730:+:AluJr	chr11:105623946:+>chr11:105628730:+	162

893	SCNN1A	ORF1,chr12:6463604:-:ENST00000540037>chr12:6463053:-:AluYf5	chr12:6463604:->chr12:6463053:-	153
894	AIG1	ORF1,chr6:143654582:+:ENST00000344492>chr6:143699354:+:THE1C	chr6:143654582:+>chr6:143699354:+	174
895	SLC44A4	ORF1,chr6:31842237:-:ENST00000229729>chr6:31840700:-:AluSg	chr6:31842237:->chr6:31840700:-	176
896	GRIA1	ORF1,chr5:153035432:+:ENST00000518142>chr5:153044088:+:L2b	chr5:153035432:+>chr5:153044088:+	153
897	GPNMB	ORF1,chr7:23296684:+:ENST00000258733>chr7:23297011:+:AluSx	chr7:23296684:+>chr7:23297011:+	180
898	GPNMB	ORF1,chr7:23296684:+:ENST00000381990>chr7:23297011:+:AluSx	chr7:23296684:+>chr7:23297011:+	180
899	GPNMB	ORF1,chr7:23296684:+:ENST00000409458>chr7:23297011:+:AluSx	chr7:23296684:+>chr7:23297011:+	180
900	PTPRK	ORF1,chr6:128643184:-:ENST00000368226>chr6:128614483:-:MLT1A1	chr6:128643184:->chr6:128614483:-	165
901	PTPRK	ORF1,chr6:128643184:-:ENST00000368227>chr6:128614483:-:MLT1A1	chr6:128643184:->chr6:128614483:-	165
902	PTPRK	ORF1,chr6:128643184:-:ENST00000532331>chr6:128614483:-:MLT1A1	chr6:128643184:->chr6:128614483:-	165
903	PTPRK	ORF1,chr6:128643184:-:ENST00000368213>chr6:128614483:-:MLT1A1	chr6:128643184:->chr6:128614483:-	165
904	PTPRK	ORF1,chr6:128643184:-:ENST00000368210>chr6:128614483:-:MLT1A1	chr6:128643184:->chr6:128614483:-	165
905	PTPRK	ORF1,chr6:128643184:-:ENST00000368215>chr6:128614483:-:MLT1A1	chr6:128643184:->chr6:128614483:-	165
906	PTPRK	ORF1,chr6:128643184:-:ENST00000368207>chr6:128614483:-:MLT1A1	chr6:128643184:->chr6:128614483:-	165
907	PTPRK	ORF1,chr6:128643184:-:ENST00000525459>chr6:128614483:-:MLT1A1	chr6:128643184:->chr6:128614483:-	165
908	CD8B	ORF1,chr2:87072045:-:ENST00000349455>chr2:87069500:-:L4	chr2:87072045:->chr2:87069500:-	176
909	TNFRSF14	ORF1,chr1:2492153:+:ENST00000426449>chr1:2508457:+:L1MB4	chr1:2492153:+>chr1:2508457:+	183
910	TNFRSF14	ORF1,chr1:2492153:+:ENST00000434817>chr1:2508457:+:L1MB4	chr1:2492153:+>chr1:2508457:+	183
911	TNFRSF14	ORF1,chr1:2492153:+:ENST00000435221>chr1:2508457:+:L1MB4	chr1:2492153:+>chr1:2508457:+	183
912	TNFRSF14	ORF1,chr1:2492153:+:ENST00000451778>chr1:2508457:+:L1MB4	chr1:2492153:+>chr1:2508457:+	183
913	TNFRSF14	ORF1,chr1:2492153:+:ENST00000409119>chr1:2508457:+:L1MB4	chr1:2492153:+>chr1:2508457:+	183
914	TNFRSF14	ORF1,chr1:2492153:+:ENST00000355716>chr1:2508457:+:L1MB4	chr1:2492153:+>chr1:2508457:+	183
915	KLRD1	ORF1,chr12:10467372:+:ENST00000381908>chr12:10472160:+:MLT1F	chr12:10467372:+>chr12:10472160:+	174
916	KLRD1	ORF1,chr12:10467372:+:ENST00000381907>chr12:10472160:+:MLT1F	chr12:10467372:+>chr12:10472160:+	173
917	KLRD1	ORF1,chr12:10467372:+:ENST00000336164>chr12:10472160:+:MLT1F	chr12:10467372:+>chr12:10472160:+	173
918	GPR143	ORF1,chrX:9727372:-:ENST00000380929>chrX:9726425:-:MIR	chrX:9727372:->chrX:9726425:-	171
919	LRIG3	ORF1,chr12:59307763:-:ENST00000320743>chr12:59298969:-:L2a	chr12:59307763:->chr12:59298969:-	127
920	LRIG3	ORF1,chr12:59307763:-:ENST00000433272>chr12:59298969:-:L2a	chr12:59307763:->chr12:59298969:-	127
921	SPP1	ORF1,chr4:88902950:+:ENST00000395080>chr4:88903392:+:MIRc	chr4:88902950:+>chr4:88903392:+	180
922	PDPN	ORF1,chr1:13940906:+:ENST00000509009>chr1:13965666:+:MLT1F	chr1:13940906:+>chr1:13965666:+	155
923	ADCY9	ORF1,chr16:4057369:-:ENST00000572288>chr16:4053508:-:MIRb	chr16:4057369:->chr16:4053508:-	156
924	PPAPDC1B	ORF1,chr8:38123659:-:ENST00000529359>chr8:38103147:-:L1MC5	chr8:38123659:->chr8:38103147:-	170
925	LAT	ORF1,chr16:28998214:+:ENST00000395456>chr16:29000220:+:AluJb	chr16:28998214:+>chr16:29000220:+	164
926	LAT	ORF1,chr16:28998214:+:ENST00000564277>chr16:29000220:+:AluJb	chr16:28998214:+>chr16:29000220:+	163
927	LAT	ORF1,chr16:28998214:+:ENST00000454369>chr16:29000220:+:AluJb	chr16:28998214:+>chr16:29000220:+	163
928	SLC10A7	ORF1,chr4:147247113:-:ENST00000335472>chr4:147230127:-:L2a	chr4:147247113:->chr4:147230127:-	157
929	SLC10A7	ORF1,chr4:147247113:-:ENST00000507030>chr4:147230127:-:L2a	chr4:147247113:->chr4:147230127:-	157
930	SLC10A7	ORF1,chr4:147247113:-:ENST00000394062>chr4:147230127:-:L2a	chr4:147247113:->chr4:147230127:-	157
931	CLECL1	ORF1,chr12:9875240:-:ENST00000327839>chr12:9855036:-:LTR1D ORF1,chr12:106641147:-:ENST00000378026>chr12:106618557:-:MER102c	chr12:9875240:->chr12:9855036:-	162
932	CKAP4		chr12:106641147:->chr12:106618557:-	161
933	DDR1	ORF1,chr6:30857207:+:ENST00000503495>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	165
934	HM13	ORF1,chr20:30132838:+:ENST00000335574>chr20:30132929:+:MIR	chr20:30132838:+>chr20:30132929:+	151
935	HM13	ORF1,chr20:30132838:+:ENST00000340852>chr20:30132929:+:MIR	chr20:30132838:+>chr20:30132929:+	151
936	HM13	ORF1,chr20:30132838:+:ENST00000398174>chr20:30132929:+:MIR	chr20:30132838:+>chr20:30132929:+	151
937	HM13	ORF1,chr20:30132838:+:ENST00000376127>chr20:30132929:+:MIR	chr20:30132838:+>chr20:30132929:+	151
938	HM13	ORF1,chr20:30132838:+:ENST00000344042>chr20:30132929:+:MIR	chr20:30132838:+>chr20:30132929:+	151
939	TMPRSS6	ORF1,chr22:37492688:-:ENST00000346753>chr22:37492292:-:MIR	chr22:37492688:->chr22:37492292:-	143
940	TMPRSS6	ORF1,chr22:37492688:-:ENST00000442782>chr22:37492292:-:MIR	chr22:37492688:->chr22:37492292:-	143
941	SLC12A9	ORF1,chr7:100454798:+:ENST00000275729>chr7:100455389:+:AluSx	chr7:100454798:+>chr7:100455389:+	163
942	SLC12A9	ORF1,chr7:100454798:+:ENST00000415287>chr7:100455389:+:AluSx	chr7:100454798:+>chr7:100455389:+	163
943	FAM174B	ORF1,chr15:93173444:-:ENST00000327355>chr15:93171199:-:MER2	chr15:93173444:->chr15:93171199:-	158
944	DSC3	ORF1,chr18:28609475:-:ENST00000360428>chr18:28608268:-:L2a	chr18:28609475:->chr18:28608268:-	158
945	DSC3	ORF1,chr18:28609475:-:ENST00000434452>chr18:28608268:-:L2a	chr18:28609475:->chr18:28608268:-	158
946	SPP1	ORF1,chr4:88902950:+:ENST00000237623>chr4:88903392:+:MIRc	chr4:88902950:+>chr4:88903392:+	166
947	ADORA2B	ORF1,chr17:15848897:+:ENST00000304222>chr17:15872903:+:L2c	chr17:15848897:+>chr17:15872903:+	111
948	GABRB1	ORF1,chr4:47163486:+:ENST00000295454>chr4:47168375:+:Tigger2	chr4:47163486:+>chr4:47168375:+	153
949	PTPRA	ORF1,chr20:2988066:+:ENST00000358719>chr20:2988850:+:L1MB3	chr20:2988066:+>chr20:2988850:+	158
950	APLP2	ORF1,chr11:129980556:+:ENST00000278756>chr11:129987692:+:AluSc8	chr11:129980556:+>chr11:129987692:+	144
951	SLC10A7	ORF1,chr4:147247113:-:ENST00000432059>chr4:147230127:-:L2a	chr4:147247113:->chr4:147230127:-	144
952	DDR1	ORF1,chr6:30857207:+:ENST00000508312>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	157
953	GPR143	ORF1,chrX:9727372:-:ENST00000467482>chrX:9726425:-:MIR	chrX:9727372:->chrX:9726425:-	151
954	LGR5	ORF1,chr12:71928966:+:ENST00000266674>chr12:71938771:+:AluJo	chr12:71928966:+>chr12:71938771:+	142
955	LGR5	ORF1,chr12:71928966:+:ENST00000536515>chr12:71938771:+:AluJo	chr12:71928966:+>chr12:71938771:+	142
956	LGR5	ORF1,chr12:71928966:+:ENST00000540815>chr12:71938771:+:AluJo	chr12:71928966:+>chr12:71938771:+	142
957	PERP	ORF1,chr6:138417491:-:ENST00000421351>chr6:138345116:-:L1ME3C	chr6:138417491:->chr6:138345116:-	118
958	KLRD1	ORF1,chr12:10467372:+:ENST00000543777>chr12:10472160:+:MLT1F	chr12:10467372:+>chr12:10472160:+	152
959	C9	ORF1,chr5:39341248:-:ENST00000263408>chr5:39340068:-:MER20	chr5:39341248:->chr5:39340068:-	158
960	ABCB5	ORF1,chr7:20698299:+:ENST00000443026>chr7:20707892:+:SVA_E	chr7:20698299:+>chr7:20707892:+	124

961	ABCB5	ORF1,chr7:20698299:+:ENST00000406935>chr7:20707892:+:SVA_E	chr7:20698299:+>chr7:20707892:+	124
962	ABCB5	ORF1,chr7:20698299:+:ENST00000258738>chr7:20707892:+:SVA_E	chr7:20698299:+>chr7:20707892:+	124
963	CD9	ORF1,chr12:6345441:+:ENST00000382515>chr12:6391293:+:L2b	chr12:6345441:+>chr12:6391293:+	138
964	LPHN2	ORF1,chr1:82372915:+:ENST00000370721>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
965	LPHN2	ORF1,chr1:82372915:+:ENST00000370723>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
966	LPHN2	ORF1,chr1:82372915:+:ENST00000370725>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
967	LPHN2	ORF1,chr1:82372915:+:ENST00000370727>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
968	LPHN2	ORF1,chr1:82372915:+:ENST00000370728>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
969	LPHN2	ORF1,chr1:82372915:+:ENST00000370730>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
970	LPHN2	ORF1,chr1:82372915:+:ENST00000359929>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
971	LPHN2	ORF1,chr1:82372915:+:ENST00000319517>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
972	LPHN2	ORF1,chr1:82372915:+:ENST00000370713>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
973	LPHN2	ORF1,chr1:82372915:+:ENST00000370715>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
974	LPHN2	ORF1,chr1:82372915:+:ENST00000271029>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
975	LPHN2	ORF1,chr1:82372915:+:ENST00000335786>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
976	LPHN2	ORF1,chr1:82372915:+:ENST00000370717>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
977	LPHN2	ORF1,chr1:82372915:+:ENST00000394879>chr1:82386280:+:LTR16A	chr1:82372915:+>chr1:82386280:+	95
978	CLDN1	ORF1,chr3:190030661:-:ENST00000295522>chr3:190030018:-:AluSx	chr3:190030661:->chr3:190030018:-	129
979	TMPRSS6	ORF1,chr22:37492688:-:ENST00000381792>chr22:37492292:-:MIR	chr22:37492688:->chr22:37492292:-	134
980	TMPRSS6	ORF1,chr22:37492688:-:ENST00000406725>chr22:37492292:-:MIR	chr22:37492688:->chr22:37492292:-	134
981	TMPRSS6	ORF1,chr22:37492688:-:ENST00000406856>chr22:37492292:-:MIR	chr22:37492688:->chr22:37492292:-	134
982	TMPRSS6	ORF1,chr22:37492688:-:ENST00000423761>chr22:37492292:-:MIR	chr22:37492688:->chr22:37492292:-	134
983	NIPA2	ORF1,chr15:23012279:-:ENST00000337451>chr15:22992662:-:L1M4	chr15:23012279:->chr15:22992662:-	149
984	NIPA2	ORF1,chr15:23012279:-:ENST00000398014>chr15:22992662:-:L1M4	chr15:23012279:->chr15:22992662:-	149
985	NIPA2	ORF1,chr15:23012279:-:ENST00000398013>chr15:22992662:-:L1M4	chr15:23012279:->chr15:22992662:-	149
986	COL13A1	ORF1,chr10:71631966:+:ENST00000356340>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
987	COL13A1	ORF1,chr10:71631966:+:ENST00000398972>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
988	COL13A1	ORF1,chr10:71631966:+:ENST00000398973>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
989	COL13A1	ORF1,chr10:71631966:+:ENST00000398964>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
990	COL13A1	ORF1,chr10:71631966:+:ENST00000398966>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
991	COL13A1	ORF1,chr10:71631966:+:ENST00000398968>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
992	COL13A1	ORF1,chr10:71631966:+:ENST00000398971>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
993	COL13A1	ORF1,chr10:71631966:+:ENST00000398974>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
994	COL13A1	ORF1,chr10:71631966:+:ENST00000479733>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
995	COL13A1	ORF1,chr10:71631966:+:ENST00000354547>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
996	COL13A1	ORF1,chr10:71631966:+:ENST00000357811>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
997	COL13A1	ORF1,chr10:71631966:+:ENST00000398978>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
998	COL13A1	ORF1,chr10:71631966:+:ENST00000517713>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
999	COL13A1	ORF1,chr10:71631966:+:ENST00000520133>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
1000	COL13A1	ORF1,chr10:71631966:+:ENST00000522165>chr10:71640170:+:C-rich	chr10:71631966:+>chr10:71640170:+	133
1001	SLC36A1	ORF1,chr5:150859050:+:ENST00000517628>chr5:150903253:+:L2a	chr5:150859050:+>chr5:150903253:+	145
1002	CD74	ORF1,chr5:149785822:-:ENST00000377795>chr5:149758030:-:MLT1J	chr5:149785822:->chr5:149758030:-	147
1003	CD74	ORF1,chr5:149785822:-:ENST00000353334>chr5:149758030:-:MLT1J	chr5:149785822:->chr5:149758030:-	147
1004	CD74	ORF1,chr5:149785822:-:ENST00000524315>chr5:149758030:-:MLT1J	chr5:149785822:->chr5:149758030:-	147
1005	CD74	ORF1,chr5:149785822:-:ENST00000009530>chr5:149758030:-:MLT1J	chr5:149785822:->chr5:149758030:-	147
1006	SGCG	ORF1,chr13:23824856:+:ENST00000218867>chr13:23828484:+:MSTB-int	chr13:23824856:+>chr13:23828484:+	128
1007	SGCG	ORF1,chr13:23824856:+:ENST00000537476>chr13:23828484:+:MSTB-int	chr13:23824856:+>chr13:23828484:+	128
1008	SGCG	ORF1,chr13:23824856:+:ENST00000545013>chr13:23828484:+:MSTB-int	chr13:23824856:+>chr13:23828484:+	128
1009	APLP2	ORF1,chr11:129980556:+:ENST00000528499>chr11:129987692:+:AluSc8	chr11:129980556:+>chr11:129987692:+	134
1010	APLP2	ORF1,chr11:129980556:+:ENST00000263574>chr11:129987692:+:AluSc8	chr11:129980556:+>chr11:129987692:+	134
1011	APLP2	ORF1,chr11:129980556:+:ENST00000345598>chr11:129987692:+:AluSc8	chr11:129980556:+>chr11:129987692:+	134
1012	APLP2	ORF1,chr11:129980556:+:ENST00000338167>chr11:129987692:+:AluSc8	chr11:129980556:+>chr11:129987692:+	134
1013	SPP1	ORF1,chr4:88902950:+:ENST00000360804>chr4:88903392:+:MIRc	chr4:88902950:+>chr4:88903392:+	153
1014	TNFSF10	ORF1,chr3:172227007:-:ENST00000241261>chr3:172222405:-:MLT1C	chr3:172227007:->chr3:172222405:-	139
1015	SLC35G1	ORF1,chr10:95658508:+:ENST00000427197>chr10:95666009:+:MLT1G1	chr10:95658508:+>chr10:95666009:+	119
1016	SLC35G1	ORF1,chr10:95658508:+:ENST00000371408>chr10:95666009:+:MLT1G1	chr10:95658508:+>chr10:95666009:+	118
1017	KLRD1	ORF1,chr12:10467372:+:ENST00000350274>chr12:10472160:+:MLT1F	chr12:10467372:+>chr12:10472160:+	142
1018	AIG1	ORF1,chr6:143654582:+:ENST00000458219>chr6:143699354:+:THE1C	chr6:143654582:+>chr6:143699354:+	138
1019	GPR110	ORF1,chr6:46989694:-:ENST00000475745>chr6:46985755:-:L2a	chr6:46989694:->chr6:46985755:-	138
1020	TKT	ORF1,chr3:53274267:-:ENST00000462138>chr3:53270029:-:MIRb	chr3:53274267:->chr3:53270029:-	145
1021	TKT	ORF1,chr3:53274267:-:ENST00000423525>chr3:53270029:-:MIRb	chr3:53274267:->chr3:53270029:-	145
1022	TKT	ORF1,chr3:53274267:-:ENST00000423516>chr3:53270029:-:MIRb	chr3:53274267:->chr3:53270029:-	145
1023	TKT	ORF1,chr3:53274267:-:ENST00000450814>chr3:53270029:-:MIRb	chr3:53274267:->chr3:53270029:-	145
1024	TKT	ORF1,chr3:53274267:-:ENST00000469678>chr3:53270029:-:MIRb	chr3:53274267:->chr3:53270029:-	145
1025	TMEM117	ORF1,chr12:44338145:+:ENST00000551577>chr12:44422639:+:MER41A	chr12:44338145:+>chr12:44422639:+	136
1026	TMEM117	ORF1,chr12:44338145:+:ENST00000266534>chr12:44422639:+:MER41A	chr12:44338145:+>chr12:44422639:+	136
1027	TMEM117	ORF1,chr12:44338145:+:ENST00000546868>chr12:44422639:+:MER41A	chr12:44338145:+>chr12:44422639:+	136
1028	SLC39A11	ORF1,chr17:70732789:-:ENST00000582769>chr17:70670711:-:L1MC4a	chr17:70732789:->chr17:70670711:-	139
1029	APPL2	ORF1,chr12:105582051:-:ENST00000553109>chr12:105578472:-:L1PA7	chr12:105582051:->chr12:105578472:-	75

1030	SLC44A4	ORF1,chr6:31842237:-:ENST00000375562>chr6:31840700:-:AluSg	chr6:31842237:->chr6:31840700:-	134
1031	SGCB	ORF1,chr4:52899597:-:ENST00000381431>chr4:52896988:-:HAL1	chr4:52899597:->chr4:52896988:-	81
1032	DDR1	ORF1,chr6:30857207:+:ENST00000460944>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1033	DDR1	ORF1,chr6:30857207:+:ENST00000324771>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1034	DDR1	ORF1,chr6:30857207:+:ENST00000418800>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1035	DDR1	ORF1,chr6:30857207:+:ENST00000437124>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1036	DDR1	ORF1,chr6:30857207:+:ENST00000454612>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1037	DDR1	ORF1,chr6:30857207:+:ENST00000396342>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1038	DDR1	ORF1,chr6:30857207:+:ENST00000512694>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1039	DDR1	ORF1,chr6:30857207:+:ENST00000511510>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1040	DDR1	ORF1,chr6:30857207:+:ENST00000376569>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1041	DDR1	ORF1,chr6:30857207:+:ENST00000376570>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1042	DDR1	ORF1,chr6:30857207:+:ENST00000376575>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1043	DDR1	ORF1,chr6:30857207:+:ENST00000446312>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1044	DDR1	ORF1,chr6:30857207:+:ENST00000504927>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1045	DDR1	ORF1,chr6:30857207:+:ENST00000428153>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1046	DDR1	ORF1,chr6:30857207:+:ENST00000376568>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1047	DDR1	ORF1,chr6:30857207:+:ENST00000452441>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1048	DDR1	ORF1,chr6:30857207:+:ENST00000482873>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1049	DDR1	ORF1,chr6:30857207:+:ENST00000421124>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1050	DDR1	ORF1,chr6:30857207:+:ENST00000376567>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1051	DDR1	ORF1,chr6:30857207:+:ENST00000513240>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	139
1052	DDR1	ORF1,chr6:30857207:+:ENST00000424544>chr6:30857788:+:L2a	chr6:30857207:+>chr6:30857788:+	122
1053	ITGB1	ORF1,chr10:33218750:-:ENST00000488494>chr10:33217595:-:L2	chr10:33218750:->chr10:33217595:-	128
1054	PDPN	ORF1,chr1:13940906:+:ENST00000376061>chr1:13965666:+:MLT1F	chr1:13940906:+>chr1:13965666:+	118
1055	PDPN	ORF1,chr1:13940906:+:ENST00000513143>chr1:13965666:+:MLT1F	chr1:13940906:+>chr1:13965666:+	118
1056	PDPN	ORF1,chr1:13940906:+:ENST00000487038>chr1:13965666:+:MLT1F	chr1:13940906:+>chr1:13965666:+	118
1057	CDH26	ORF1,chr20:58581842:+:ENST00000350849>chr20:58600042:+:MLT1J	chr20:58581842:+>chr20:58600042:+	98
1058	GRAMD1A	ORF1,chr19:35505291:+:ENST00000504615>chr19:35505459:+:MIR	chr19:35505291:+>chr19:35505459:+	122
1059	PCDH15	ORF1,chr10:55943204:-:ENST00000409834>chr10:55933689:-:L2c	chr10:55943204:->chr10:55933689:-	141
1060	ITGB1	ORF1,chr10:33218750:-:ENST00000423113>chr10:33217595:-:L2	chr10:33218750:->chr10:33217595:-	125
1061	ITGB1	ORF1,chr10:33218750:-:ENST00000396033>chr10:33217595:-:L2	chr10:33218750:->chr10:33217595:-	125
1062	ITGB1	ORF1,chr10:33218750:-:ENST00000302278>chr10:33217595:-:L2	chr10:33218750:->chr10:33217595:-	125
1063	ITGB1	ORF1,chr10:33218750:-:ENST00000374956>chr10:33217595:-:L2	chr10:33218750:->chr10:33217595:-	125
1064	ITGB1	ORF1,chr10:33218750:-:ENST00000480226>chr10:33217595:-:L2	chr10:33218750:->chr10:33217595:-	125
1065	ITGB1	ORF1,chr10:33218750:-:ENST00000534049>chr10:33217595:-:L2	chr10:33218750:->chr10:33217595:-	125
1066	ITGB1	ORF1,chr10:33218750:-:ENST00000437302>chr10:33217595:-:L2	chr10:33218750:->chr10:33217595:-	125
1067	NIPA2	ORF1,chr15:23012279:-:ENST00000539711>chr15:22992662:-:L1M4	chr15:23012279:->chr15:22992662:-	130
1068	NIPA2	ORF1,chr15:23012279:-:ENST00000359727>chr15:22992662:-:L1M4	chr15:23012279:->chr15:22992662:-	130
1069	SPP1	ORF1,chr4:88902950:+:ENST00000508233>chr4:88903392:+:MIRc	chr4:88902950:+>chr4:88903392:+	139
1070	APLP2	ORF1,chr11:129980556:+:ENST00000533713>chr11:129987692:+:AluSc8	chr11:129980556:+>chr11:129987692:+	119
1071	MCOLN2	ORF1,chr1:85462479:-:ENST00000370608>chr1:85458992:-:Tigger1	chr1:85462479:->chr1:85458992:-	25
1072	MCOLN2	ORF1,chr1:85462479:-:ENST00000463065>chr1:85458992:-:Tigger1	chr1:85462479:->chr1:85458992:-	25
1073	CACNG6	ORF1,chr19:54501567:+:ENST00000252729>chr19:54502685:+:MIR3	chr19:54501567:+>chr19:54502685:+	135
1074	CACNG6	ORF1,chr19:54501567:+:ENST00000346968>chr19:54502685:+:MIR3	chr19:54501567:+>chr19:54502685:+	135
1075	HTR3A	ORF1,chr11:113857768:+:ENST00000535865>chr11:113858309:+:AluJb	chr11:113857768:+>chr11:113858309:+	123
1076	SLC2A9	ORF1,chr4:9998405:-:ENST00000264784>chr4:9995169:-:MIRb	chr4:9998405:->chr4:9995169:-	136
1077	SGCB	ORF1,chr4:52899597:-:ENST00000514133>chr4:52896988:-:HAL1	chr4:52899597:->chr4:52896988:-	70
1078	SLC16A10	ORF1,chr6:111540245:+:ENST00000368850>chr6:111577260:+:(GAAA)n	chr6:111540245:+>chr6:111577260:+	124
1079	OPN3	ORF1,chr1:241803184:-:ENST00000366554>chr1:241776670:-:MIR	chr1:241803184:->chr1:241776670:-	124
1080	OPN3	ORF1,chr1:241803184:-:ENST00000331838>chr1:241776670:-:MIR	chr1:241803184:->chr1:241776670:-	124
1081	EMR2	ORF1,chr19:14875245:-:ENST00000392964>chr19:14875035:-:AluJr	chr19:14875245:->chr19:14875035:-	100
1082	SLCO4A1	ORF1,chr20:61300430:+:ENST00000451793>chr20:61301309:+:Tigger7	chr20:61300430:+>chr20:61301309:+	104
1083	SLC27A1	ORF1,chr19:17581516:+:ENST00000600277>chr19:17594691:+:L2b	chr19:17581516:+>chr19:17594691:+	55
1084	SLC27A1	ORF1,chr19:17581516:+:ENST00000442725>chr19:17594691:+:L2b	chr19:17581516:+>chr19:17594691:+	55
1085	SLC27A1	ORF1,chr19:17581516:+:ENST00000252595>chr19:17594691:+:L2b	chr19:17581516:+>chr19:17594691:+	55
1086	SLC27A1	ORF1,chr19:17581516:+:ENST00000599380>chr19:17594691:+:L2b	chr19:17581516:+>chr19:17594691:+	55
1087	SLC27A1	ORF1,chr19:17581516:+:ENST00000600297>chr19:17594691:+:L2b	chr19:17581516:+>chr19:17594691:+	55
1088	LRIG3	ORF1,chr12:59307763:-:ENST00000379141>chr12:59298969:-:L2a	chr12:59307763:->chr12:59298969:-	67
1089	CDH26	ORF1,chr20:58581842:+:ENST00000456106>chr20:58600042:+:MLT1J	chr20:58581842:+>chr20:58600042:+	75
1090	SLC39A11	ORF1,chr17:70845773:-:ENST00000582769>chr17:70827589:-:MIRc	chr17:70845773:->chr17:70827589:-	116
1091	FXYD3	ORF1,chr19:35612149:+:ENST00000604255>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	89
1092	FXYD3	ORF1,chr19:35612149:+:ENST00000535103>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	89
1093	CLECL1	ORF1,chr12:9885545:-:ENST00000327839>chr12:9855036:-:LTR1D	chr12:9885545:->chr12:9855036:-	105
1094	BACE2	ORF1,chr21:42540502:+:ENST00000328735>chr21:42572645:+:MLT1B	chr21:42540502:+>chr21:42572645:+	104
1095	BACE2	ORF1,chr21:42540502:+:ENST00000330333>chr21:42572645:+:MLT1B	chr21:42540502:+>chr21:42572645:+	104
1096	BACE2	ORF1,chr21:42540502:+:ENST00000347667>chr21:42572645:+:MLT1B	chr21:42540502:+>chr21:42572645:+	104
1097	HPN	ORF1,chr19:35551721:+:ENST00000597419>chr19:35551967:+:L1MB7	chr19:35551721:+>chr19:35551967:+	112
1098	PMP22	ORF1,chr17:15142788:-:ENST00000395938>chr17:15056635:-:LTR33	chr17:15142788:->chr17:15056635:-	106

1099	PMP22	ORF1,chr17:15142788:-:ENST00000312280>chr17:15056635:-:LTR33	chr17:15142788:->chr17:15056635:-	106
1100	PMP22	ORF1,chr17:15142788:-:ENST00000395936>chr17:15056635:-:LTR33	chr17:15142788:->chr17:15056635:-	106
1101	PMP22	ORF1,chr17:15142788:-:ENST00000426385>chr17:15056635:-:LTR33	chr17:15142788:->chr17:15056635:-	106
1102	GPR143	ORF1,chrX:9716614:-:ENST00000431126>chrX:9715942:-:MER58A	chrX:9716614:->chrX:9715942:-	98
1103	C19orf26	ORF1,chr19:1235500:-:ENST00000590083>chr19:1235389:-:L2c	chr19:1235500:->chr19:1235389:-	103
1104	CLIC4	ORF1,chr1:25140710:+:ENST00000374379>chr1:25153084:+:MER3	chr1:25140710:+>chr1:25153084:+	102
1105	CLIC4	ORF1,chr1:25140710:+:ENST00000488683>chr1:25153084:+:MER3	chr1:25140710:+>chr1:25153084:+	102
1106	ROS1	ORF1,chr6:117650492:-:ENST00000403284>chr6:117648743:-:MIR	chr6:117650492:->chr6:117648743:-	95
1107	NKAIN3	ORF1,chr8:63502353:+:ENST00000523211>chr8:63546747:+:LOR1a	chr8:63502353:+>chr8:63546747:+	91
1108	NKAIN3	ORF1,chr8:63502353:+:ENST00000328472>chr8:63546747:+:LOR1a	chr8:63502353:+>chr8:63546747:+	91
1109	SLC44A4	ORF1,chr6:31842237:-:ENST00000544672>chr6:31840700:-:AluSg	chr6:31842237:->chr6:31840700:-	100
1110	NRG4	ORF1,chr15:76248273:-:ENST00000566417>chr15:76239200:-:L1MB3	chr15:76248273:->chr15:76239200:-	110
1111	NRG4	ORF1,chr15:76248273:-:ENST00000394907>chr15:76239200:-:L1MB3	chr15:76248273:->chr15:76239200:-	110
1112	NRG4	ORF1,chr15:76248273:-:ENST00000563910>chr15:76239200:-:L1MB3	chr15:76248273:->chr15:76239200:-	110
1113	DAG1	ORF1,chr3:49548252:+:ENST00000515359>chr3:49561872:+:AluJr	chr3:49548252:+>chr3:49561872:+	95
1114	DAG1	ORF1,chr3:49548252:+:ENST00000421560>chr3:49561872:+:AluJr	chr3:49548252:+>chr3:49561872:+	95
1115	DAG1	ORF1,chr3:49548252:+:ENST00000308775>chr3:49561872:+:AluJr	chr3:49548252:+>chr3:49561872:+	95
1116	DAG1	ORF1,chr3:49548252:+:ENST00000538711>chr3:49561872:+:AluJr	chr3:49548252:+>chr3:49561872:+	95
1117	DAG1	ORF1,chr3:49548252:+:ENST00000539901>chr3:49561872:+:AluJr	chr3:49548252:+>chr3:49561872:+	95
1118	DAG1	ORF1,chr3:49548252:+:ENST00000541308>chr3:49561872:+:AluJr	chr3:49548252:+>chr3:49561872:+	95
1119	DAG1	ORF1,chr3:49548252:+:ENST00000545947>chr3:49561872:+:AluJr	chr3:49548252:+>chr3:49561872:+	95
1120	DAG1	ORF1,chr3:49548252:+:ENST00000431960>chr3:49561872:+:AluJr	chr3:49548252:+>chr3:49561872:+	95
1121	DAG1	ORF1,chr3:49548252:+:ENST00000428779>chr3:49561872:+:AluJr	chr3:49548252:+>chr3:49561872:+	95
1122	SLCO4A1	ORF1,chr20:61300430:+:ENST00000451793>chr20:61301432:+:Tigger7	chr20:61300430:+>chr20:61301432:+	104
1123	SLC2A9	ORF1,chr4:9998405:-:ENST00000506583>chr4:9995169:-:MIRb	chr4:9998405:->chr4:9995169:-	107
1124	SLC2A9	ORF1,chr4:9998405:-:ENST00000309065>chr4:9995169:-:MIRb	chr4:9998405:->chr4:9995169:-	107
1125	SLC2A9	ORF1,chr4:9998405:-:ENST00000513129>chr4:9995169:-:MIRb	chr4:9998405:->chr4:9995169:-	107
1126	C19orf26	ORF1,chr19:1235500:-:ENST00000382477>chr19:1235389:-:L2c	chr19:1235500:->chr19:1235389:-	97
1127	C19orf26	ORF1,chr19:1235500:-:ENST00000215376>chr19:1235389:-:L2c	chr19:1235500:->chr19:1235389:-	97
1128	C19orf26	ORF1,chr19:1235500:-:ENST00000589260>chr19:1235389:-:L2c	chr19:1235500:->chr19:1235389:-	97
1129	PTPRN2	ORF1,chr7:158282427:-:ENST00000404321>chr7:158229450:-:L1MEg	chr7:158282427:->chr7:158229450:-	77
1130	BACE1	ORF1,chr11:117186251:-:ENST00000313005>chr11:117167925:-:LTR49	chr11:117186251:->chr11:117167925:-	87
1131	BACE1	ORF1,chr11:117186251:-:ENST00000528053>chr11:117167925:-:LTR49	chr11:117186251:->chr11:117167925:-	87
1132	BACE1	ORF1,chr11:117186251:-:ENST00000428381>chr11:117167925:-:LTR49	chr11:117186251:->chr11:117167925:-	87
1133	BACE1	ORF1,chr11:117186251:-:ENST00000445823>chr11:117167925:-:LTR49	chr11:117186251:->chr11:117167925:-	87
1134	BACE1	ORF1,chr11:117186251:-:ENST00000513780>chr11:117167925:-:LTR49	chr11:117186251:->chr11:117167925:-	87
1135	NPFFR2	ORF1,chr4:72897917:+:ENST00000308744>chr4:72934630:+:MIR	chr4:72897917:+>chr4:72934630:+	99
1136	NPFFR2	ORF1,chr4:72897917:+:ENST00000344413>chr4:72934630:+:MIR	chr4:72897917:+>chr4:72934630:+	99
1137	CDH26	ORF1,chr20:58581842:+:ENST00000244049>chr20:58600042:+:MLT1J	chr20:58581842:+>chr20:58600042:+	57
1138	TKT	ORF1,chr3:53274267:-:ENST00000296289>chr3:53270029:-:MIRb	chr3:53274267:->chr3:53270029:-	98
1139	ITGB1	ORF1,chr10:33197296:-:ENST00000488427>chr10:33039666:-:LTR33	chr10:33197296:->chr10:33039666:-	45
1140	TNFRSF11A	ORF1,chr18:60017170:+:ENST00000269485>chr18:60020589:+:MER82	chr18:60017170:+>chr18:60020589:+	94
1141	TNFRSF11A	ORF1,chr18:60017170:+:ENST00000586569>chr18:60020589:+:MER82	chr18:60017170:+>chr18:60020589:+	94
1142	BACE1	ORF1,chr11:117186251:-:ENST00000313005>chr11:117167913:-:LTR49	chr11:117186251:->chr11:117167913:-	87
1143	BACE1	ORF1,chr11:117186251:-:ENST00000528053>chr11:117167913:-:LTR49	chr11:117186251:->chr11:117167913:-	87
1144	BACE1	ORF1,chr11:117186251:-:ENST00000428381>chr11:117167913:-:LTR49	chr11:117186251:->chr11:117167913:-	87
1145	BACE1	ORF1,chr11:117186251:-:ENST00000445823>chr11:117167913:-:LTR49	chr11:117186251:->chr11:117167913:-	87
1146	BACE1	ORF1,chr11:117186251:-:ENST00000513780>chr11:117167913:-:LTR49	chr11:117186251:->chr11:117167913:-	87
1147	LAT	ORF1,chr16:28998214:+:ENST00000570232>chr16:29000220:+:AluJb	chr16:28998214:+>chr16:29000220:+	84
1148	FAP	ORF1,chr2:163099418:-:ENST00000188790>chr2:163094158:-:L1PA7	chr2:163099418:->chr2:163094158:-	30
1149	FAP	ORF1,chr2:163099418:-:ENST00000443424>chr2:163094158:-:L1PA7	chr2:163099418:->chr2:163094158:-	30
1150	HPN	ORF1,chr19:35540420:+:ENST00000262626>chr19:35547041:+:L2a	chr19:35540420:+>chr19:35547041:+	53
1151	HPN	ORF1,chr19:35540420:+:ENST00000392226>chr19:35547041:+:L2a	chr19:35540420:+>chr19:35547041:+	53
1152	HPN	ORF1,chr19:35540420:+:ENST00000600390>chr19:35547041:+:L2a	chr19:35540420:+>chr19:35547041:+	53
1153	GABRB1	ORF1,chr4:47163486:+:ENST00000538619>chr4:47168375:+:Tigger2	chr4:47163486:+>chr4:47168375:+	83
1154	GPNMB	ORF1,chr7:23296684:+:ENST00000539136>chr7:23322419:+:AluSg7	chr7:23296684:+>chr7:23322419:+	81
1155	ATP1A1	ORF1,chr1:116943811:+:ENST00000440951>chr1:116954291:+:AluSq	chr1:116943811:+>chr1:116954291:+	93
1156	GRIA1	ORF1,chr5:152873625:+:ENST00000448073>chr5:152889310:+:MIRb	chr5:152873625:+>chr5:152889310:+	83
1157	GRIA1	ORF1,chr5:152873625:+:ENST00000518783>chr5:152889310:+:MIRb	chr5:152873625:+>chr5:152889310:+	83
1158	CD68	ORF1,chr17:7484314:+:ENST00000584180>chr17:7485027:+:AluSz	chr17:7484314:+>chr17:7485027:+	88
1159	MRAP2	ORF1,chr6:84772711:+:ENST00000257776>chr6:84849189:+:MER34A1	chr6:84772711:+>chr6:84849189:+	75
1160	FXYD3	ORF1,chr19:35612149:+:ENST00000604255>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	89
1161	FXYD3	ORF1,chr19:35612149:+:ENST00000535103>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	89
1162	PTPRK	ORF1,chr6:128718711:-:ENST00000368226>chr6:128696545:-:THE1B	chr6:128718711:->chr6:128696545:-	74
1163	PTPRK	ORF1,chr6:128718711:-:ENST00000368227>chr6:128696545:-:THE1B	chr6:128718711:->chr6:128696545:-	74
1164	PTPRK	ORF1,chr6:128718711:-:ENST00000532331>chr6:128696545:-:THE1B	chr6:128718711:->chr6:128696545:-	74
1165	PTPRK	ORF1,chr6:128718711:-:ENST00000368213>chr6:128696545:-:THE1B	chr6:128718711:->chr6:128696545:-	74
1166	PTPRK	ORF1,chr6:128718711:-:ENST00000368210>chr6:128696545:-:THE1B	chr6:128718711:->chr6:128696545:-	74
1167	PTPRK	ORF1,chr6:128718711:-:ENST00000368215>chr6:128696545:-:THE1B	chr6:128718711:->chr6:128696545:-	74

1168	PTPRK	ORF1,chr6:128718711:-:ENST00000368207>chr6:128696545:-:THE1B	chr6:128718711:->chr6:128696545:-	74
1169	PTPRK	ORF1,chr6:128718711:-:ENST00000525459>chr6:128696545:-:THE1B	chr6:128718711:->chr6:128696545:-	74
1170	LRIG3	ORF1,chr12:59307763:-:ENST00000552267>chr12:59298969:-:L2a	chr12:59307763:->chr12:59298969:-	34
1171	FOLH1	ORF1,chr11:49229844:-:ENST00000256999>chr11:49228751:-:L2c	chr11:49229844:->chr11:49228751:-	39
1172	FOLH1	ORF1,chr11:49229844:-:ENST00000356696>chr11:49228751:-:L2c	chr11:49229844:->chr11:49228751:-	39
1173	FOLH1	ORF1,chr11:49229844:-:ENST00000525826>chr11:49228751:-:L2c	chr11:49229844:->chr11:49228751:-	39
1174	FOLH1	ORF1,chr11:49229844:-:ENST00000533510>chr11:49228751:-:L2c	chr11:49229844:->chr11:49228751:-	39
1175	FOLH1	ORF1,chr11:49229844:-:ENST00000529648>chr11:49228751:-:L2c	chr11:49229844:->chr11:49228751:-	39
1176	PPAPDC1B	ORF1,chr8:38123659:-:ENST00000531823>chr8:38103147:-:L1MC5	chr8:38123659:->chr8:38103147:-	79
1177	GPNMB	ORF1,chr7:23296684:+:ENST00000539136>chr7:23297011:+:AluSx	chr7:23296684:+>chr7:23297011:+	81
1178	NET1	ORF1,chr10:5471192:+:ENST00000355029>chr10:5475318:+:MER58B	chr10:5471192:+>chr10:5475318:+	85
1179	ANO2	ORF1,chr12:5841686:-:ENST00000545860>chr12:5777031:-:L1PA10	chr12:5841686:->chr12:5777031:-	75
1180	PTPRN2	ORF1,chr7:158282427:-:ENST00000389413>chr7:158229450:-:L1MEg	chr7:158282427:->chr7:158229450:-	54
1181	PTPRN2	ORF1,chr7:158282427:-:ENST00000409483>chr7:158229450:-:L1MEg	chr7:158282427:->chr7:158229450:-	54
1182	PTPRN2	ORF1,chr7:158282427:-:ENST00000389418>chr7:158229450:-:L1MEg	chr7:158282427:->chr7:158229450:-	54
1183	GRIA1	ORF1,chr5:152873625:+:ENST00000285900>chr5:152889310:+:MIRb	chr5:152873625:+>chr5:152889310:+	73
1184	GRIA1	ORF1,chr5:152873625:+:ENST00000518142>chr5:152889310:+:MIRb	chr5:152873625:+>chr5:152889310:+	73
1185	GRIA1	ORF1,chr5:152873625:+:ENST00000340592>chr5:152889310:+:MIRb	chr5:152873625:+>chr5:152889310:+	73
1186	ITGB1	ORF1,chr10:33218750:-:ENST00000474568>chr10:33217595:-:L2	chr10:33218750:->chr10:33217595:-	68
1187	TFRC	ORF1,chr3:195780393:-:ENST00000426789>chr3:195779399:-:AluSp	chr3:195780393:->chr3:195779399:-	57
1188	ATP1B3	ORF1,chr3:141622556:+:ENST00000286371>chr3:141641431:+:AluSx	chr3:141622556:+>chr3:141641431:+	68
1189	ADCY1	ORF1,chr7:45650096:+:ENST00000432715>chr7:45652520:+:L1MA5	chr7:45650096:+>chr7:45652520:+	77
1190	SLC17A3	ORF1,chr6:25849602:-:ENST00000481949>chr6:25847464:-:L1PREC2	chr6:25849602:->chr6:25847464:-	54
1191	MRAP2	ORF1,chr6:84772711:+:ENST00000257776>chr6:84775514:+:MLT2D	chr6:84772711:+>chr6:84775514:+	75
1192	MRAP2	ORF1,chr6:84772711:+:ENST00000257776>chr6:84775517:+:MLT2D	chr6:84772711:+>chr6:84775517:+	75
1193	GPR143	ORF1,chrX:9727372:-:ENST00000431126>chrX:9726425:-:MIR	chrX:9727372:->chrX:9726425:-	67
1194	TMEM117	ORF1,chr12:44338145:+:ENST00000536799>chr12:44422639:+:MER41A	chr12:44338145:+>chr12:44422639:+	66
1195	FAP	ORF1,chr2:163099418:-:ENST00000447386>chr2:163094158:-:L1PA7	chr2:163099418:->chr2:163094158:-	9
1196	FAP	ORF1,chr2:163099418:-:ENST00000450031>chr2:163094158:-:L1PA7	chr2:163099418:->chr2:163094158:-	9
1197	VAMP8	ORF1,chr2:85806290:+:ENST00000263864>chr2:85807491:+:MER115	chr2:85806290:+>chr2:85807491:+	54
1198	VAMP8	ORF1,chr2:85806290:+:ENST00000409760>chr2:85807491:+:MER115	chr2:85806290:+>chr2:85807491:+	54
1199	CD99L2	ORF1,chrX:149997988:-:ENST00000320893>chrX:149996841:-:MIR	chrX:149997988:->chrX:149996841:-	73
1200	GPR116	ORF1,chr6:46867766:-:ENST00000283296>chr6:46856509:-:L2	chr6:46867766:->chr6:46856509:-	52
1201	GPR116	ORF1,chr6:46867766:-:ENST00000362015>chr6:46856509:-:L2	chr6:46867766:->chr6:46856509:-	52
1202	GPR116	ORF1,chr6:46867766:-:ENST00000456426>chr6:46856509:-:L2	chr6:46867766:->chr6:46856509:-	52
1203	GPR116	ORF1,chr6:46867766:-:ENST00000265417>chr6:46856509:-:L2	chr6:46867766:->chr6:46856509:-	52
1204	TMPRSS4	ORF1,chr11:117988169:+:ENST00000524218>chr11:117996044:+:LTR16D ORF1,chr10:60273093:+:ENST00000373886>chr10:60376656:+:HERVL18-int	chr11:117988169:+>chr11:117996044:+ chr10:60273093:+>chr10:60376656:+	58 63
1205	BICC1			
1206	SERINC5	ORF1,chr5:79498705:-:ENST00000507668>chr5:79481724:-:LTR7	chr5:79498705:->chr5:79481724:-	65
1207	SERINC5	ORF1,chr5:79498705:-:ENST00000509193>chr5:79481724:-:LTR7	chr5:79498705:->chr5:79481724:-	65
1208	SERINC5	ORF1,chr5:79498705:-:ENST00000512972>chr5:79481724:-:LTR7	chr5:79498705:->chr5:79481724:-	65
1209	SERINC5	ORF1,chr5:79498705:-:ENST00000512721>chr5:79481724:-:LTR7	chr5:79498705:->chr5:79481724:-	65
1210	PMP22	ORF1,chr17:15162411:-:ENST00000395938>chr17:15145170:-:L2b	chr17:15162411:->chr17:15145170:-	59
1211	PMP22	ORF1,chr17:15162411:-:ENST00000312280>chr17:15145170:-:L2b	chr17:15162411:->chr17:15145170:-	59
1212	PMP22	ORF1,chr17:15162411:-:ENST00000395936>chr17:15145170:-:L2b	chr17:15162411:->chr17:15145170:-	59
1213	PMP22	ORF1,chr17:15162411:-:ENST00000426385>chr17:15145170:-:L2b	chr17:15162411:->chr17:15145170:-	59
1214	ATP1B3	ORF1,chr3:141622556:+:ENST00000539728>chr3:141641431:+:AluSx	chr3:141622556:+>chr3:141641431:+	54
1215	ATP1B3	ORF1,chr3:141622556:+:ENST00000495216>chr3:141641431:+:AluSx	chr3:141622556:+>chr3:141641431:+	54
1216	ADAM12	ORF1,chr10:128018981:-:ENST00000368679>chr10:127981199:-:MER58B	chr10:128018981:->chr10:127981199:-	62
1217	ADAM12	ORF1,chr10:128018981:-:ENST00000368676>chr10:127981199:-:MER58B	chr10:128018981:->chr10:127981199:-	62
1218	ADAM12	ORF1,chr10:128018981:-:ENST00000448723>chr10:127981199:-:MER58B	chr10:128018981:->chr10:127981199:-	62
1219	GPR174	ORF1,chrX:78426573:+:ENST00000276077>chrX:78455898:+:L1PA7	chrX:78426573:+>chrX:78455898:+	23
1220	BICC1	ORF1,chr10:60273093:+:ENST00000373886>chr10:60299081:+:L1PB3	chr10:60273093:+>chr10:60299081:+	63
1221	FXYD3	ORF1,chr19:35612149:+:ENST00000454903>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1222	FXYD3	ORF1,chr19:35612149:+:ENST00000406242>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1223	FXYD3	ORF1,chr19:35612149:+:ENST00000604404>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1224	FXYD3	ORF1,chr19:35612149:+:ENST00000435734>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1225	FXYD3	ORF1,chr19:35612149:+:ENST00000603181>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1226	FXYD3	ORF1,chr19:35612149:+:ENST00000344013>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1227	FXYD3	ORF1,chr19:35612149:+:ENST00000346446>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1228	FXYD3	ORF1,chr19:35612149:+:ENST00000603449>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1229	FXYD3	ORF1,chr19:35612149:+:ENST00000406988>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1230	FXYD3	ORF1,chr19:35612149:+:ENST00000605550>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1231	FXYD3	ORF1,chr19:35612149:+:ENST00000604804>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1232	FXYD3	ORF1,chr19:35612149:+:ENST00000605552>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1233	FXYD3	ORF1,chr19:35612149:+:ENST00000603524>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1234	FXYD3	ORF1,chr19:35612149:+:ENST00000604621>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32
1235	FXYD3	ORF1,chr19:35612149:+:ENST00000605677>chr19:35613516:+:L2a	chr19:35612149:+>chr19:35613516:+	32

1236	APLP2	ORF1,chr11:129980556:+:ENST00000543137>chr11:129987692:+:AluSc8	chr11:129980556:+>chr11:129987692:+	41
1237	CRB3	ORF1,chr19:6465629:+:ENST00000598494>chr19:6466184:+:AluSx3	chr19:6465629:+>chr19:6466184:+	52
1238	CRB3	ORF1,chr19:6465629:+:ENST00000600229>chr19:6466184:+:AluSx3	chr19:6465629:+>chr19:6466184:+	52
1239	CRB3	ORF1,chr19:6465629:+:ENST00000356762>chr19:6466184:+:AluSx3	chr19:6465629:+>chr19:6466184:+	52
1240	CRB3	ORF1,chr19:6465629:+:ENST00000308243>chr19:6466184:+:AluSx3	chr19:6465629:+>chr19:6466184:+	52
1241	SLC16A10	ORF1,chr6:111527938:+:ENST00000368850>chr6:111577260:+:(GAAA)n	chr6:111527938:+>chr6:111577260:+	48
1242	PLSCR1	ORF1,chr3:146251257:-:ENST00000448787>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	23
1243	PLSCR1	ORF1,chr3:146251257:-:ENST00000486631>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	23
1244	PTPRK	ORF1,chr6:128643184:-:ENST00000490332>chr6:128614483:-:MLT1A1	chr6:128643184:->chr6:128614483:-	47
1245	SLC39A11	ORF1,chr17:70732789:-:ENST00000581581>chr17:70670711:-:L1MC4a	chr17:70732789:->chr17:70670711:-	47
1246	PMP22	ORF1,chr17:15142788:-:ENST00000494511>chr17:15056635:-:LTR33	chr17:15142788:->chr17:15056635:-	46
1247	PMP22	ORF1,chr17:15142788:-:ENST00000580584>chr17:15056635:-:LTR33	chr17:15142788:->chr17:15056635:-	46
1248	B4GALT1	ORF1,chr9:33120417:-:ENST00000541851>chr9:33116392:-:AluSc	chr9:33120417:->chr9:33116392:-	25
1249	SLC2A1	ORF1,chr1:43408897:-:ENST00000426263>chr1:43372275:-:ERVL-B4-int	chr1:43408897:->chr1:43372275:-	38
1250	SLC2A1	ORF1,chr1:43408897:-:ENST00000415851>chr1:43372275:-:ERVL-B4-int	chr1:43408897:->chr1:43372275:-	38
1251	SLC2A1	ORF1,chr1:43408897:-:ENST00000372500>chr1:43372275:-:ERVL-B4-int	chr1:43408897:->chr1:43372275:-	38
1252	TSPAN5	ORF1,chr4:99428829:-:ENST00000508798>chr4:99423706:-:L2a	chr4:99428829:->chr4:99423706:-	44
1253	TSPAN5	ORF1,chr4:99428829:-:ENST00000305798>chr4:99423706:-:L2a	chr4:99428829:->chr4:99423706:-	44
1254	NOX1	ORF1,chrX:100125708:-:ENST00000372966>chrX:100125237:-:L1P1	chrX:100125708:->chrX:100125237:-	47
1255	NOX1	ORF1,chrX:100125708:-:ENST00000372964>chrX:100125237:-:L1P1	chrX:100125708:->chrX:100125237:-	47
1256	NOX1	ORF1,chrX:100125708:-:ENST00000217885>chrX:100125237:-:L1P1	chrX:100125708:->chrX:100125237:-	47
1257	NOX1	ORF1,chrX:100125708:-:ENST00000372960>chrX:100125237:-:L1P1	chrX:100125708:->chrX:100125237:-	47
1258	SLC14A1	ORF1,chr18:43307383:+:ENST00000415427>chr18:43309951:+:L2c	chr18:43307383:+>chr18:43309951:+	49
1259	SLC14A1	ORF1,chr18:43307383:+:ENST00000588179>chr18:43309951:+:L2c	chr18:43307383:+>chr18:43309951:+	49
1260	SLC14A1	ORF1,chr18:43307383:+:ENST00000436407>chr18:43309951:+:L2c	chr18:43307383:+>chr18:43309951:+	49
1261	SLC14A1	ORF1,chr18:43307383:+:ENST00000589891>chr18:43309951:+:L2c	chr18:43307383:+>chr18:43309951:+	49
1262	PVRL2	ORF1,chr19:45349870:+:ENST00000252485>chr19:45365316:+:L1PA10	chr19:45349870:+>chr19:45365316:+	29
1263	PVRL2	ORF1,chr19:45349870:+:ENST00000252483>chr19:45365316:+:L1PA10	chr19:45349870:+>chr19:45365316:+	29
1264	CDH3	ORF1,chr16:68729826:+:ENST00000569080>chr16:68761056:+:MLT2B3	chr16:68729826:+>chr16:68761056:+	33
1265	KLRD1	ORF1,chr12:10467372:+:ENST00000539792>chr12:10472160:+:MLT1F	chr12:10467372:+>chr12:10472160:+	40
1266	VAMP8	ORF1,chr2:85806290:+:ENST00000432071>chr2:85807491:+:MER115	chr2:85806290:+>chr2:85807491:+	28
1267	VTCN1	ORF1,chr1:117712729:-:ENST00000359008>chr1:117702007:-:THE1A	chr1:117712729:->chr1:117702007:-	35
1268	HPN	ORF1,chr19:35533426:+:ENST00000262626>chr19:35547041:+:L2a	chr19:35533426:+>chr19:35547041:+	5
1269	HPN	ORF1,chr19:35533426:+:ENST00000392226>chr19:35547041:+:L2a	chr19:35533426:+>chr19:35547041:+	5
1270	HPN	ORF1,chr19:35533426:+:ENST00000600390>chr19:35547041:+:L2a	chr19:35533426:+>chr19:35547041:+	5
1271	HPN	ORF1,chr19:35533426:+:ENST00000597419>chr19:35547041:+:L2a	chr19:35533426:+>chr19:35547041:+	5
1272	TRPM1	ORF1,chr15:31369108:-:ENST00000542188>chr15:31366147:-:L1MB8	chr15:31369108:->chr15:31366147:-	44
1273	SLC3A2	ORF1,chr11:62623853:+:ENST00000377892>chr11:62626953:+:AluSx	chr11:62623853:+>chr11:62626953:+	37
1274	SLC3A2	ORF1,chr11:62623853:+:ENST00000377890>chr11:62626953:+:AluSx	chr11:62623853:+>chr11:62626953:+	37
1275	SLC3A2	ORF1,chr11:62623853:+:ENST00000377891>chr11:62626953:+:AluSx	chr11:62623853:+>chr11:62626953:+	37
1276	SLC3A2	ORF1,chr11:62623853:+:ENST00000377889>chr11:62626953:+:AluSx	chr11:62623853:+>chr11:62626953:+	37
1277	SLC3A2	ORF1,chr11:62623853:+:ENST00000535296>chr11:62626953:+:AluSx	chr11:62623853:+>chr11:62626953:+	37
1278	STRA6	ORF1,chr15:74481456:-:ENST00000572785>chr15:74478184:-:MIRc	chr15:74481456:->chr15:74478184:-	39
1279	STRA6	ORF1,chr15:74481456:-:ENST00000572785>chr15:74478181:-:MIRc	chr15:74481456:->chr15:74478181:-	39
1280	CD74	ORF1,chr5:149792188:-:ENST00000377795>chr5:149786950:-:MamRep1879	chr5:149792188:->chr5:149786950:-	41
1281	CD74	ORF1,chr5:149792188:-:ENST00000353334>chr5:149786950:-:MamRep1879	chr5:149792188:->chr5:149786950:-	41
1282	CD74	ORF1,chr5:149792188:-:ENST00000524315>chr5:149786950:-:MamRep1879	chr5:149792188:->chr5:149786950:-	41
1283	CD74	ORF1,chr5:149792188:-:ENST00000009530>chr5:149786950:-:MamRep1879	chr5:149792188:->chr5:149786950:-	41
1284	CD74	ORF1,chr5:149792188:-:ENST00000522246>chr5:149786950:-:MamRep1879	chr5:149792188:->chr5:149786950:-	41
1285	CD74	ORF1,chr5:149792188:-:ENST00000523813>chr5:149786950:-:MamRep1879	chr5:149792188:->chr5:149786950:-	41
1286	VTCN1	ORF1,chr1:117712729:-:ENST00000328189>chr1:117702007:-:THE1A	chr1:117712729:->chr1:117702007:-	32
1287	VTCN1	ORF1,chr1:117712729:-:ENST00000369458>chr1:117702007:-:THE1A	chr1:117712729:->chr1:117702007:-	32
1288	TRPM1	ORF1,chr15:31369108:-:ENST00000542188>chr15:31367927:-:L1MB8	chr15:31369108:->chr15:31367927:-	44
1289	MAL2	ORF1,chr8:120220844:+:ENST00000276681>chr8:120233190:+:L2b	chr8:120220844:+>chr8:120233190:+	44
1290	ANO1	ORF1,chr11:69962605:+:ENST00000531349>chr11:69970317:+:L2c	chr11:69962605:+>chr11:69970317:+	34
1291	ATP6V0A4	ORF1,chr7:138455876:-:ENST00000393054>chr7:138455248:-:L2b	chr7:138455876:->chr7:138455248:-	39
1292	ATP6V0A4	ORF1,chr7:138455876:-:ENST00000310018>chr7:138455248:-:L2b	chr7:138455876:->chr7:138455248:-	39
1293	ATP6V0A4	ORF1,chr7:138455876:-:ENST00000353492>chr7:138455248:-:L2b	chr7:138455876:->chr7:138455248:-	39
1294	TSPAN15	ORF1,chr10:71211446:+:ENST00000373290>chr10:71228886:+:MER21C	chr10:71211446:+>chr10:71228886:+	32
1295	CD74	ORF1,chr5:149792188:-:ENST00000523208>chr5:149786950:-:MamRep1879	chr5:149792188:->chr5:149786950:-	38
1296	STRA6	ORF1,chr15:74481456:-:ENST00000572785>chr15:74481299:-:MIR3	chr15:74481456:->chr15:74481299:-	39
1297	CD68	ORF1,chr17:7484067:+:ENST00000584180>chr17:7485173:+:AluSz	chr17:7484067:+>chr17:7485173:+	43

1298	VTCN1	ORF1,chr1:117712729:-:ENST00000359008>chr1:117699971:-:THE1A	chr1:117712729:->chr1:117699971:-	35
1299	GYPC	ORF1,chr2:127413888:+:ENST00000259254>chr2:127447276:+:MSTB1	chr2:127413888:+>chr2:127447276:+	16
1300	GYPC	ORF1,chr2:127413888:+:ENST00000409836>chr2:127447276:+:MSTB1	chr2:127413888:+>chr2:127447276:+	16
1301	PLSCR1	ORF1,chr3:146251257:-:ENST00000342435>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	31
1302	PLSCR1	ORF1,chr3:146251257:-:ENST00000493432>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	31
1303	PLSCR1	ORF1,chr3:146251257:-:ENST00000463777>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	31
1304	PLSCR1	ORF1,chr3:146251257:-:ENST00000468985>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	31
1305	PLSCR1	ORF1,chr3:146251257:-:ENST00000488253>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	31
1306	PLSCR1	ORF1,chr3:146251257:-:ENST00000489775>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	31
1307	PLSCR1	ORF1,chr3:146251257:-:ENST00000478267>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	31
1308	PLSCR1	ORF1,chr3:146251257:-:ENST00000462666>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	31
1309	PLSCR1	ORF1,chr3:146251257:-:ENST00000472349>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	31
1310	PLA2G16	ORF1,chr11:63365533:-:ENST00000323646>chr11:63360665:-:L2a	chr11:63365533:->chr11:63360665:-	39
1311	PLA2G16	ORF1,chr11:63365533:-:ENST00000415826>chr11:63360665:-:L2a	chr11:63365533:->chr11:63360665:-	39
1312	FAM168B	ORF1,chr2:131840150:-:ENST00000409185>chr2:131829827:-:AluSq2	chr2:131840150:->chr2:131829827:-	23
1313	FAM168B	ORF1,chr2:131840150:-:ENST00000389915>chr2:131829827:-:AluSq2	chr2:131840150:->chr2:131829827:-	23
1314	TSPAN33	ORF1,chr7:128784922:+:ENST00000289407>chr7:128785708:+:MIR3	chr7:128784922:+>chr7:128785708:+	34
1315	VTCN1	ORF1,chr1:117712729:-:ENST00000328189>chr1:117699971:-:THE1A	chr1:117712729:->chr1:117699971:-	32
1316	VTCN1	ORF1,chr1:117712729:-:ENST00000369458>chr1:117699971:-:THE1A	chr1:117712729:->chr1:117699971:-	32
1317	CD3D	ORF1,chr11:118213268:-:ENST00000300692>chr11:118212457:-:MER81	chr11:118213268:->chr11:118212457:-	18
1318	CD3D	ORF1,chr11:118213268:-:ENST00000529594>chr11:118212457:-:MER81	chr11:118213268:->chr11:118212457:-	18
1319	CD3D	ORF1,chr11:118213268:-:ENST00000392884>chr11:118212457:-:MER81	chr11:118213268:->chr11:118212457:-	18
1320	GIPR	ORF1,chr19:46172850:+:ENST00000590918>chr19:46173062:+:AluSx1	chr19:46172850:+>chr19:46173062:+	24
1321	GIPR	ORF1,chr19:46172850:+:ENST00000263281>chr19:46173062:+:AluSx1	chr19:46172850:+>chr19:46173062:+	24
1322	GIPR	ORF1,chr19:46172850:+:ENST00000304207>chr19:46173062:+:AluSx1	chr19:46172850:+>chr19:46173062:+	24
1323	GIPR	ORF1,chr19:46172850:+:ENST00000585889>chr19:46173062:+:AluSx1	chr19:46172850:+>chr19:46173062:+	24
1324	CD68	ORF1,chr17:7483903:+:ENST00000584180>chr17:7485013:+:AluSz	chr17:7483903:+>chr17:7485013:+	30
1325	FXYD3	ORF1,chr19:35612149:+:ENST00000454903>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1326	FXYD3	ORF1,chr19:35612149:+:ENST00000406242>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1327	FXYD3	ORF1,chr19:35612149:+:ENST00000604404>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1328	FXYD3	ORF1,chr19:35612149:+:ENST00000435734>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1329	FXYD3	ORF1,chr19:35612149:+:ENST00000603181>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1330	FXYD3	ORF1,chr19:35612149:+:ENST00000344013>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1331	FXYD3	ORF1,chr19:35612149:+:ENST00000346446>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1332	FXYD3	ORF1,chr19:35612149:+:ENST00000603449>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1333	FXYD3	ORF1,chr19:35612149:+:ENST00000406988>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1334	FXYD3	ORF1,chr19:35612149:+:ENST00000605550>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1335	FXYD3	ORF1,chr19:35612149:+:ENST00000604804>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1336	FXYD3	ORF1,chr19:35612149:+:ENST00000605552>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1337	FXYD3	ORF1,chr19:35612149:+:ENST00000603524>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1338	FXYD3	ORF1,chr19:35612149:+:ENST00000604621>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1339	FXYD3	ORF1,chr19:35612149:+:ENST00000605677>chr19:35613565:+:L2a	chr19:35612149:+>chr19:35613565:+	32
1340	PLSCR1	ORF1,chr3:146251257:-:ENST00000487389>chr3:146248249:-:L2a	chr3:146251257:->chr3:146248249:-	24
1341	CD8B	ORF1,chr2:87072045:-:ENST00000431506>chr2:87069500:-:L4	chr2:87072045:->chr2:87069500:-	26
1342	TSPAN14	ORF1,chr10:82249070:+:ENST00000429989>chr10:82252292:+:AluY	chr10:82249070:+>chr10:82252292:+	27
1343	TSPAN14	ORF1,chr10:82249070:+:ENST00000481124>chr10:82252292:+:AluY	chr10:82249070:+>chr10:82252292:+	27
1344	TSPAN14	ORF1,chr10:82249070:+:ENST00000372164>chr10:82252292:+:AluY	chr10:82249070:+>chr10:82252292:+	27
1345	TSPAN14	ORF1,chr10:82249070:+:ENST00000372158>chr10:82252292:+:AluY	chr10:82249070:+>chr10:82252292:+	27
1346	TSPAN14	ORF1,chr10:82249070:+:ENST00000341863>chr10:82252292:+:AluY	chr10:82249070:+>chr10:82252292:+	27
1347	TSPAN14	ORF1,chr10:82249070:+:ENST00000372156>chr10:82252292:+:AluY	chr10:82249070:+>chr10:82252292:+	27
1348	UNC5B	ORF1,chr10:72972821:+:ENST00000335350>chr10:73034215:+:L3	chr10:72972821:+>chr10:73034215:+	26
1349	UNC5B	ORF1,chr10:72972821:+:ENST00000373192>chr10:73034215:+:L3	chr10:72972821:+>chr10:73034215:+	26
1350	PTPRK	ORF1,chr6:128718711:-:ENST00000531050>chr6:128696545:-:THE1B	chr6:128718711:->chr6:128696545:-	17
1351	TNFRSF11A	ORF1,chr18:59992660:+:ENST00000269485>chr18:60003547:+:MER5A1	chr18:59992660:+>chr18:60003547:+	25
1352	TNFRSF11A	ORF1,chr18:59992660:+:ENST00000586569>chr18:60003547:+:MER5A1	chr18:59992660:+>chr18:60003547:+	25
1353	PTPRZ1	ORF1,chr7:121513611:+:ENST00000393386>chr7:121549265:+:HAL1	chr7:121513611:+>chr7:121549265:+	19
1354	PTPRZ1	ORF1,chr7:121513611:+:ENST00000449182>chr7:121549265:+:HAL1	chr7:121513611:+>chr7:121549265:+	19
1355	TRPM1	ORF1,chr15:31369108:-:ENST00000256552>chr15:31366147:-:L1MB8	chr15:31369108:->chr15:31366147:-	27
1356	CXCR5	ORF1,chr11:118754701:+:ENST00000292174>chr11:118776642:+:AluJr	chr11:118754701:+>chr11:118776642:+	17
1357	FCRL5	ORF1,chr1:157519350:-:ENST00000361835>chr1:157517485:-:MIR3	chr1:157519350:->chr1:157517485:-	17
1358	FCRL5	ORF1,chr1:157519350:-:ENST00000368190>chr1:157517485:-:MIR3	chr1:157519350:->chr1:157517485:-	17
1359	FCRL5	ORF1,chr1:157519350:-:ENST00000368191>chr1:157517485:-:MIR3	chr1:157519350:->chr1:157517485:-	17
1360	FCRL5	ORF1,chr1:157519350:-:ENST00000368189>chr1:157517485:-:MIR3	chr1:157519350:->chr1:157517485:-	17
1361	FCRL5	ORF1,chr1:157519350:-:ENST00000368188>chr1:157517485:-:MIR3	chr1:157519350:->chr1:157517485:-	17
1362	LPAR1	ORF1,chr9:113800932:-:ENST00000538760>chr9:113773970:-:L3	chr9:113800932:->chr9:113773970:-	16
1363	CADM2	ORF1,chr3:85008819:+:ENST00000383699>chr3:85088184:+:GA-rich	chr3:85008819:+>chr3:85088184:+	20
1364	CADM2	ORF1,chr3:85008819:+:ENST00000407528>chr3:85088184:+:GA-rich	chr3:85008819:+>chr3:85088184:+	20
1365	SLC51A	ORF1,chr3:195956932:+:ENST00000415111>chr3:195970598:+:SVA_C	chr3:195956932:+>chr3:195970598:+	19
1366	TRPM1	ORF1,chr15:31369108:-:ENST00000256552>chr15:31367927:-:L1MB8	chr15:31369108:->chr15:31367927:-	27

1367	VAPA	ORF1,chr18:9914332:+:ENST00000400000>chr18:9927093:+:L1ME2z	chr18:9914332:+>chr18:9927093:+	26
1368	VAPA	ORF1,chr18:9914332:+:ENST00000340541>chr18:9927093:+:L1ME2z	chr18:9914332:+>chr18:9927093:+	26
1369	VAPA	ORF1,chr18:9914332:+:ENST00000585042>chr18:9927093:+:L1ME2z	chr18:9914332:+>chr18:9927093:+	26
1370	SLC39A11	ORF1,chr17:70845773:-:ENST00000581581>chr17:70827589:-:MIRc	chr17:70845773:->chr17:70827589:-	24
1371	FAM174B	ORF1,chr15:93173444:-:ENST00000553393>chr15:93171199:-:MER2	chr15:93173444:->chr15:93171199:-	17
1372	FAM174B	ORF1,chr15:93173444:-:ENST00000555748>chr15:93171199:-:MER2	chr15:93173444:->chr15:93171199:-	17
1373	FAM174B	ORF1,chr15:93173444:-:ENST00000555064>chr15:93171199:-:MER2	chr15:93173444:->chr15:93171199:-	17
1374	FAM174B	ORF1,chr15:93173444:-:ENST00000555696>chr15:93171199:-:MER2	chr15:93173444:->chr15:93171199:-	17
1375	FAM174B	ORF1,chr15:93173444:-:ENST00000557480>chr15:93171199:-:MER2	chr15:93173444:->chr15:93171199:-	17
1376	FAM174B	ORF1,chr15:93173444:-:ENST00000556824>chr15:93171199:-:MER2	chr15:93173444:->chr15:93171199:-	17
1377	BSG	ORF1,chr19:572701:+:ENST00000333511>chr19:576616:+:AluSg7	chr19:572701:+>chr19:576616:+	22
1378	BSG	ORF1,chr19:572701:+:ENST00000573216>chr19:576616:+:AluSg7	chr19:572701:+>chr19:576616:+	22
1379	BSG	ORF1,chr19:572701:+:ENST00000353555>chr19:576616:+:AluSg7	chr19:572701:+>chr19:576616:+	22
1380	CD79A	ORF1,chr19:42381453:+:ENST00000221972>chr19:42382530:+:MIR	chr19:42381453:+>chr19:42382530:+	26
1381	CD79A	ORF1,chr19:42381453:+:ENST00000597454>chr19:42382530:+:MIR	chr19:42381453:+>chr19:42382530:+	26
1382	CD79A	ORF1,chr19:42381453:+:ENST00000444740>chr19:42382530:+:MIR	chr19:42381453:+>chr19:42382530:+	26
1383	GPNMB	ORF1,chr7:23286546:+:ENST00000258733>chr7:23287188:+:MER5B	chr7:23286546:+>chr7:23287188:+	23
1384	GPNMB	ORF1,chr7:23286546:+:ENST00000381990>chr7:23287188:+:MER5B	chr7:23286546:+>chr7:23287188:+	23
1385	GPNMB	ORF1,chr7:23286546:+:ENST00000409458>chr7:23287188:+:MER5B	chr7:23286546:+>chr7:23287188:+	23
1386	GPNMB	ORF1,chr7:23286546:+:ENST00000539136>chr7:23287188:+:MER5B	chr7:23286546:+>chr7:23287188:+	23
1387	GPNMB	ORF1,chr7:23286546:+:ENST00000453162>chr7:23287188:+:MER5B	chr7:23286546:+>chr7:23287188:+	23
1388	GPNMB	ORF1,chr7:23286546:+:ENST00000258733>chr7:23287192:+:MER5B	chr7:23286546:+>chr7:23287192:+	23
1389	GPNMB	ORF1,chr7:23286546:+:ENST00000381990>chr7:23287192:+:MER5B	chr7:23286546:+>chr7:23287192:+	23
1390	GPNMB	ORF1,chr7:23286546:+:ENST00000409458>chr7:23287192:+:MER5B	chr7:23286546:+>chr7:23287192:+	23
1391	GPNMB	ORF1,chr7:23286546:+:ENST00000539136>chr7:23287192:+:MER5B	chr7:23286546:+>chr7:23287192:+	23
1392	GPNMB	ORF1,chr7:23286546:+:ENST00000453162>chr7:23287192:+:MER5B	chr7:23286546:+>chr7:23287192:+	23
1393	FOLH1	ORF1,chr11:49229900:-:ENST00000256999>chr11:49228426:-:L2	chr11:49229900:->chr11:49228426:-	20
1394	FOLH1	ORF1,chr11:49229900:-:ENST00000356696>chr11:49228426:-:L2	chr11:49229900:->chr11:49228426:-	20
1395	FOLH1	ORF1,chr11:49229900:-:ENST00000525826>chr11:49228426:-:L2	chr11:49229900:->chr11:49228426:-	20
1396	FOLH1	ORF1,chr11:49229900:-:ENST00000533510>chr11:49228426:-:L2	chr11:49229900:->chr11:49228426:-	20
1397	FOLH1	ORF1,chr11:49229900:-:ENST00000529648>chr11:49228426:-:L2	chr11:49229900:->chr11:49228426:-	20
1398	FAM174B	ORF1,chr15:93173444:-:ENST00000557398>chr15:93171199:-:MER2	chr15:93173444:->chr15:93171199:-	14
1399	ATP1B3	ORF1,chr3:141622556:+:ENST00000475483>chr3:141641431:+:AluSx	chr3:141622556:+>chr3:141641431:+	11
1400	ATP1B3	ORF1,chr3:141622556:+:ENST00000462082>chr3:141641431:+:AluSx	chr3:141622556:+>chr3:141641431:+	21
1401	CD3D	ORF1,chr11:118213268:-:ENST00000300692>chr11:118212471:-:MER81	chr11:118213268:->chr11:118212471:-	18
1402	CD3D	ORF1,chr11:118213268:-:ENST00000529594>chr11:118212471:-:MER81	chr11:118213268:->chr11:118212471:-	18
1403	CD3D	ORF1,chr11:118213268:-:ENST00000392884>chr11:118212471:-:MER81	chr11:118213268:->chr11:118212471:-	18
1404	APCDD1	ORF1,chr18:10472058:+:ENST00000579685>chr18:10472376:+:MIR3	chr18:10472058:+>chr18:10472376:+	18
1405	ERBB2	ORF1,chr17:37873733:+:ENST00000580074>chr17:37875964:+:MIRc	chr17:37873733:+>chr17:37875964:+	17
1406	SCNN1A	ORF1,chr12:6486833:-:ENST00000536788>chr12:6486517:-:MIR3	chr12:6486833:->chr12:6486517:-	3
1407	CLECL1	ORF1,chr12:9875240:-:ENST00000540988>chr12:9855036:-:LTR1D	chr12:9875240:->chr12:9855036:-	6
1408	GRIA1	ORF1,chr5:152873625:+:ENST00000521843>chr5:152889310:+:MIRb	chr5:152873625:+>chr5:152889310:+	4
1409	SLC17A3	ORF1,chr6:25849602:-:ENST00000505420>chr6:25847464:-:L1PREC2	chr6:25849602:->chr6:25847464:-	7
1410	ABCC1	ORF1,chr16:16196574:+:ENST00000572053>chr16:16197279:+:AluSx1	chr16:16196574:+>chr16:16197279:+	11
1411	SLC2A11	ORF1,chr22:24200216:+:ENST00000436643>chr22:24200767:+:L2a	chr22:24200216:+>chr22:24200767:+	10
1412	SLC2A11	ORF1,chr22:24200216:+:ENST00000316185>chr22:24200767:+:L2a	chr22:24200216:+>chr22:24200767:+	10
1413	TRPM1	ORF1,chr15:31369108:-:ENST00000397795>chr15:31366147:-:L1MB8	chr15:31369108:->chr15:31366147:-	5
1414	TRPM1	ORF1,chr15:31369108:-:ENST00000558445>chr15:31366147:-:L1MB8	chr15:31369108:->chr15:31366147:-	5
1415	TRPM1	ORF1,chr15:31369108:-:ENST00000559177>chr15:31366147:-:L1MB8	chr15:31369108:->chr15:31366147:-	5
1416	TRPM1	ORF1,chr15:31369108:-:ENST00000560658>chr15:31366147:-:L1MB8	chr15:31369108:->chr15:31366147:-	5
1417	TRPM1	ORF1,chr15:31369108:-:ENST00000559179>chr15:31366147:-:L1MB8	chr15:31369108:->chr15:31366147:-	5
1418	SLC14A1	ORF1,chr18:43307383:+:ENST00000502059>chr18:43309951:+:L2c	chr18:43307383:+>chr18:43309951:+	5
1419	TRPM1	ORF1,chr15:31369108:-:ENST00000397795>chr15:31367927:-:L1MB8	chr15:31369108:->chr15:31367927:-	5
1420	TRPM1	ORF1,chr15:31369108:-:ENST00000558445>chr15:31367927:-:L1MB8	chr15:31369108:->chr15:31367927:-	5
1421	TRPM1	ORF1,chr15:31369108:-:ENST00000559177>chr15:31367927:-:L1MB8	chr15:31369108:->chr15:31367927:-	5
1422	TRPM1	ORF1,chr15:31369108:-:ENST00000560658>chr15:31367927:-:L1MB8	chr15:31369108:->chr15:31367927:-	5
1423	TRPM1	ORF1,chr15:31369108:-:ENST00000559179>chr15:31367927:-:L1MB8	chr15:31369108:->chr15:31367927:-	5

Table 19

	Gene	ORF		Fusion_id	Break Point	Sequence_le
1424	LRP1	ORF3	chr12:57560106:+:AluJb>chr12:57560713:+:ENST00000243077	chr12:57560106:+>chr12:57560713:+	16	3628
1425	SYNE2	ORF3	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000358025	chr14:64549437:+>chr14:64554389:+	37	3116
1426	SYNE2	ORF3	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000555002	chr14:64549437:+>chr14:64554389:+	37	3116
1427	SYNE2	ORF3	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000357395	chr14:64549437:+>chr14:64554389:+	37	3094
1428	SYNE2	ORF3	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000344113	chr14:64549437:+>chr14:64554389:+	37	3094
1429	SYNE2	ORF3	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000394768	chr14:64549437:+>chr14:64554389:+	37	3094
1430	SYNE2	ORF3	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000554584	chr14:64549437:+>chr14:64554389:+	37	2994
1431	ROS1	ORF2	chr6:117763597:-:THE1B>chr6:117739669:-:ENST00000368508	chr6:117763597:->chr6:117739669:-	21	2327
1432	ROS1	ORF2	chr6:117763597:-:THE1B>chr6:117739669:-:ENST00000368507	chr6:117763597:->chr6:117739669:-	21	2321
1433	ROS1	ORF3	chr6:117763560:-:THE1B>chr6:117739669:-:ENST00000368508	chr6:117763560:->chr6:117739669:-	8	2314
1434	ROS1	ORF3	chr6:117763560:-:THE1B>chr6:117739669:-:ENST00000368507	chr6:117763560:->chr6:117739669:-	8	2308
1435	PTPRZ1	ORF3	chr7:121556146:+:AluSc>chr7:121568210:+:ENST00000393386	chr7:121556146:+>chr7:121568210:+	6	2302
1436	PTPRZ1	ORF3	chr7:121570251:+:L1MC>chr7:121608005:+:ENST00000393386	chr7:121570251:+>chr7:121608005:+	11	2285
1437	CACNA1A	ORF2	chr19:13448039:-:MLT1C>chr19:13446723:-:ENST00000360228	chr19:13448039:->chr19:13446723:-	11	2191
1438	PTPRZ1	ORF2	chr7:121615144:+:AluJb>chr7:121616227:+:ENST00000393386	chr7:121615144:+>chr7:121616227:+	15	2178
1439	PKHD1	ORF3	chr6:51817226:-:L2b>chr6:51799120:-:ENST00000371117	chr6:51817226:->chr6:51799120:-	26	2131
1440	CACNA1H	ORF2	chr16:1235900:+:G-rich>chr16:1250256:+:ENST00000348261	chr16:1235900:+>chr16:1250256:+	9	2095
1441	CACNA1H	ORF2	chr16:1235900:+:G-rich>chr16:1250256:+:ENST00000358590	chr16:1235900:+>chr16:1250256:+	9	2089
1442	CACNA1H	ORF2	chr16:1235900:+:G-rich>chr16:1250256:+:ENST00000565831	chr16:1235900:+>chr16:1250256:+	9	2089
1443	SORL1	ORF1	chr11:121357166:+:AluJb>chr11:121358741:+:ENST00000260197	chr11:121357166:+>chr11:121358741:+	11	2049
1444	CACNA1A	ORF2	chr19:13448039:-:MLT1C>chr19:13446723:-:ENST00000573710	chr19:13448039:->chr19:13446723:-	11	1946
1445	CELSR1	ORF1	chr22:46891300:-:Tigger3b>chr22:46860242:-:ENST00000262738	chr22:46891300:->chr22:46860242:-	50	1883
1446	CELSR1	ORF1	chr22:46887031:-:MER20>chr22:46860242:-:ENST00000262738	chr22:46887031:->chr22:46860242:-	33	1866
1447	CACNA1A	ORF3	chr19:13416027:-:LTR16C>chr19:13414698:-:ENST00000360228	chr19:13416027:->chr19:13414698:-	8	1852
1448	TRPM1	ORF3	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000397795	chr15:31365913:->chr15:31362429:-	20	1618
1449	TRPM1	ORF3	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000256552	chr15:31365913:->chr15:31362429:-	20	1618
1450	TRPM1	ORF3	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000542188	chr15:31365913:->chr15:31362429:-	20	1618
1451	CACNA1A	ORF3	chr19:13416027:-:LTR16C>chr19:13414698:-:ENST00000573710	chr19:13416027:->chr19:13414698:-	8	1606
1452	ABCC1	ORF2	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000399408	chr16:16086109:+>chr16:16101673:+	48	1573
1453	ABCC1	ORF2	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000399410	chr16:16086109:+>chr16:16101673:+	48	1563
1454	ABCC1	ORF1	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000399408	chr16:16100650:+>chr16:16101673:+	33	1558
1455	ABCC1	ORF1	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000399410	chr16:16100650:+>chr16:16101673:+	33	1548
1456	TENM1	ORF2	chrX:123617816:-:L1MC3>chrX:123615814:-:ENST00000371130	chrX:123617816:->chrX:123615814:-	14	1508
1457	TENM1	ORF2	chrX:123617816:-:L1MC3>chrX:123615814:-:ENST00000422452	chrX:123617816:->chrX:123615814:-	14	1508
1458	ABCC1	ORF2	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000346370	chr16:16086109:+>chr16:16101673:+	48	1507
1459	ABCC1	ORF2	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000351154	chr16:16086109:+>chr16:16101673:+	48	1504
1460	ABCC1	ORF2	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000345148	chr16:16086109:+>chr16:16101673:+	48	1498
1461	ABCC1	ORF1	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000346370	chr16:16100650:+>chr16:16101673:+	33	1492
1462	ABCC1	ORF1	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000351154	chr16:16100650:+>chr16:16101673:+	33	1489
1463	ABCC1	ORF1	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000345148	chr16:16100650:+>chr16:16101673:+	33	1483
1464	PKHD1	ORF3	chr6:51817226:-:L2b>chr6:51799120:-:ENST00000340994	chr6:51817226:->chr6:51799120:-	26	1453
1465	ABCC1	ORF2	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000349029	chr16:16086109:+>chr16:16101673:+	48	1448
1466	ITGB4	ORF1	chr17:73727670:+:MIR>chr17:73727893:+:ENST00000200181	chr17:73727670:+>chr17:73727893:+	24	1441
1467	PTPRZ1	ORF3	chr7:121556146:+:AluSc>chr7:121568210:+:ENST00000449182	chr7:121556146:+>chr7:121568210:+	6	1435
1468	ABCC1	ORF1	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000349029	chr16:16100650:+>chr16:16101673:+	33	1433
1469	ITGB4	ORF1	chr17:73727670:+:MIR>chr17:73727893:+:ENST00000339591	chr17:73727670:+>chr17:73727893:+	24	1424
1470	ITGB4	ORF1	chr17:73727670:+:MIR>chr17:73727893:+:ENST00000449880	chr17:73727670:+>chr17:73727893:+	24	1424
1471	PTPRZ1	ORF3	chr7:121570251:+:L1MC>chr7:121608005:+:ENST00000449182	chr7:121570251:+>chr7:121608005:+	11	1418
1472	TRPM1	ORF3	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000558445	chr15:31365913:->chr15:31362429:-	20	1405
1473	ABCC5	ORF1	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000334444	chr3:183707518:->chr3:183707171:-	10	1404
1474	DPCR1	ORF1	chr6:30913271:+:AluJr>chr6:30916324:+:ENST00000462446	chr6:30913271:+>chr6:30916324:+	6	1372
1475	ITGB4	ORF1	chr17:73727670:+:MIR>chr17:73727893:+:ENST00000579662	chr17:73727670:+>chr17:73727893:+	24	1371
1476	ITGB4	ORF1	chr17:73727670:+:MIR>chr17:73727893:+:ENST00000450894	chr17:73727670:+>chr17:73727893:+	24	1371
1477	ABCC5	ORF1	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000265586	chr3:183707518:->chr3:183707171:-	10	1361
1478	ROBO1	ORF1	chr3:78740637:-:L1M5>chr3:78737922:-:ENST00000436010	chr3:78740637:->chr3:78737922:-	13	1316
1479	ROBO1	ORF1	chr3:78740637:-:L1M5>chr3:78737922:-:ENST00000464233	chr3:78740637:->chr3:78737922:-	13	1316
1480	PTPRZ1	ORF2	chr7:121615144:+:AluJb>chr7:121616227:+:ENST00000449182	chr7:121615144:+>chr7:121616227:+	15	1311
1481	ROBO1	ORF1	chr3:78740637:-:L1M5>chr3:78737922:-:ENST00000495273	chr3:78740637:->chr3:78737922:-	13	1307
1482	ABCB4	ORF3	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000265723	chr7:87130521:->chr7:87101991:-	43	1303
1483	MYOF	ORF2	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000358334	chr10:95133812:->chr10:95132842:-	8	1302
1484	MYOF	ORF2	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000359263	chr10:95133812:->chr10:95132842:-	8	1302
1485	MYOF	ORF2	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000371501	chr10:95133812:->chr10:95132842:-	8	1302
1486	ERBB2	ORF2	chr17:37861418:+:MIRb>chr17:37863243:+:ENST00000541774	chr17:37861418:+>chr17:37863243:+	67	1298
1487	ERBB2	ORF2	chr17:37861418:+:MIRb>chr17:37863243:+:ENST00000269571	chr17:37861418:+>chr17:37863243:+	67	1298
1488	ABCB4	ORF3	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000359206	chr7:87130521:->chr7:87101991:-	43	1296
1489	ABCB4	ORF3	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000545634	chr7:87130521:->chr7:87101991:-	43	1296
1490	MYOF	ORF2	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000371502	chr10:95133812:->chr10:95132842:-	8	1292
1491	ERBB2	ORF1	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000541774	chr17:37861414:+>chr17:37863243:+	49	1280
1492	ERBB2	ORF1	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000269571	chr17:37861414:+>chr17:37863243:+	49	1280
1493	ERBB2	ORF2	chr17:37849578:+:Tigger2a>chr17:37863243:+:ENST00000541774	chr17:37849578:+>chr17:37863243:+	36	1267

Table 15

1494	ERBB2	ORF2	chr17:37849578:+:Tigger2a>chr17:37863243:+:ENST00000269571	chr17:37849578:+>chr17:37863243:+	36	1267
1495	ERBB2	ORF2	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000541774	chr17:37845053:+>chr17:37863243:+	22	1253
1496	ERBB2	ORF2	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000269571	chr17:37845053:+>chr17:37863243:+	22	1253
1497	ERBB2	ORF1	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000541774	chr17:37860613:+>chr17:37863243:+	22	1253
1498	ERBB2	ORF1	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000269571	chr17:37860613:+>chr17:37863243:+	22	1253
1499	ROBO1	ORF1	chr3:78740637:-:L1M5>chr3:78737922:-:ENST00000467549	chr3:78740637:->chr3:78737922:-	13	1252
1500	ABCB4	ORF3	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000358400	chr7:87130521:->chr7:87101991:-	43	1249
1501	ABCB4	ORF3	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000453593	chr7:87130521:->chr7:87101991:-	43	1249
1502	PLXNA1	ORF1	chr3:126729222:+:ERVL-B4-int>chr3:126730801:+:ENST00000251772	chr3:126729222:+>chr3:126730801:+	25	1217
1503	PLXNA1	ORF1	chr3:126729222:+:ERVL-B4-int>chr3:126730801:+:ENST00000393409	chr3:126729222:+>chr3:126730801:+	25	1217
1504	EGFR	ORF3	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000275493	chr7:55188387:+>chr7:55209979:+	31	1212
1505	ERBB2	ORF3	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000584601	chr17:37864193:+>chr17:37864574:+	7	1187
1506	ERBB2	ORF3	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000406381	chr17:37864193:+>chr17:37864574:+	7	1187
1507	ERBB2	ORF3	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000541774	chr17:37864193:+>chr17:37864574:+	7	1187
1508	ERBB2	ORF3	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000540147	chr17:37864193:+>chr17:37864574:+	7	1187
1509	ERBB2	ORF3	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000269571	chr17:37864193:+>chr17:37864574:+	7	1187
1510	ERBB2	ORF3	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000584601	chr17:37863725:+>chr17:37864574:+	5	1185
1511	ERBB2	ORF3	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000406381	chr17:37863725:+>chr17:37864574:+	5	1185
1512	ERBB2	ORF3	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000541774	chr17:37863725:+>chr17:37864574:+	5	1185
1513	ERBB2	ORF3	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000540147	chr17:37863725:+>chr17:37864574:+	5	1185
1514	ERBB2	ORF3	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000269571	chr17:37863725:+>chr17:37864574:+	5	1185
1515	ACE	ORF1	chr17:61556008:+:AluJb>chr17:61556368:+:ENST00000290866	chr17:61556008:+>chr17:61556368:+	13	1180
1516	IGF1R	ORF2	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000268035	chr15:99433697:+>chr15:99434554:+	13	1167
1517	IGF1R	ORF2	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000558762	chr15:99433697:+>chr15:99434554:+	13	1166
1518	NCKAP1	ORF3	chr2:183899651:-:MIR3>chr2:183888644:-:ENST00000361354	chr2:183899651:->chr2:183888644:-	29	1121
1519	NCKAP1	ORF3	chr2:183899651:-:MIR3>chr2:183888644:-:ENST00000360982	chr2:183899651:->chr2:183888644:-	29	1121
1520	DSG2	ORF2	chr18:29076818:+:LTR66>chr18:29098202:+:ENST00000261590	chr18:29076818:+>chr18:29098202:+	5	1108
1521	ERBB2	ORF2	chr17:37861418:+:MIRb>chr17:37863243:+:ENST00000584450	chr17:37861418:+>chr17:37863243:+	67	1098
1522	EGFR	ORF3	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000455089	chr7:55188387:+>chr7:55209979:+	31	1093
1523	ERBB2	ORF1	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000584450	chr17:37861414:+>chr17:37863243:+	49	1080
1524	LRIG2	ORF2	chr1:113611593:+:SVA_F>chr1:113616150:+:ENST00000361127	chr1:113611593:+>chr1:113616150:+	51	1076
1525	ABCC5	ORF3	chr3:183698324:-:L3>chr3:183696439:-:ENST00000334444	chr3:183698324:->chr3:183696439:-	12	1067
1526	ERBB2	ORF2	chr17:37849578:+:Tigger2a>chr17:37863243:+:ENST00000584450	chr17:37849578:+>chr17:37863243:+	36	1067
1527	TMPRSS9	ORF2	chr19:2393529:+:LTR12C>chr19:2396554:+:ENST00000332578	chr19:2393529:+>chr19:2396554:+	59	1065
1528	ANO1	ORF1	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000355303	chr11:69912149:+>chr11:69933858:+	107	1057
1529	ANO1	ORF1	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000538023	chr11:69912149:+>chr11:69933858:+	107	1057
1530	TENM2	ORF2	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000518659	chr5:167654073:+>chr5:167654900:+	43	1056
1531	TENM2	ORF2	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000545108	chr5:167654073:+>chr5:167654900:+	43	1056
1532	TENM2	ORF2	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000519204	chr5:167654073:+>chr5:167654900:+	43	1056
1533	TENM2	ORF2	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000520394	chr5:167654073:+>chr5:167654900:+	43	1056
1534	TENM2	ORF2	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000403607	chr5:167654073:+>chr5:167654900:+	43	1056
1535	ERBB2	ORF2	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000584450	chr17:37845053:+>chr17:37863243:+	22	1053
1536	ERBB2	ORF1	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000584450	chr17:37860613:+>chr17:37863243:+	22	1053
1537	GUCY2C	ORF2	chr12:14862945:-:HERVH-int>chr12:14840997:-:ENST00000261170	chr12:14862945:->chr12:14840997:-	44	1045
1538	MYOF	ORF2	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000463743	chr10:95133812:->chr10:95132842:-	8	1043
1539	EPHB2	ORF2	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000400191	chr1:23078200:+>chr1:23107914:+	8	1043
1540	ABCC5	ORF3	chr3:183698324:-:L3>chr3:183696439:-:ENST00000265586	chr3:183698324:->chr3:183696439:-	12	1024
1541	ACE	ORF1	chr17:61556008:+:AluJb>chr17:61556368:+:ENST00000428043	chr17:61556008:+>chr17:61556368:+	13	1019
1542	SORCS2	ORF1	chr4:7533048:+:MIRc>chr4:7533257:+:ENST00000329016	chr4:7533048:+>chr4:7533257:+	12	1004
1543	SORCS2	ORF1	chr4:7533048:+:MIRc>chr4:7533257:+:ENST00000507866	chr4:7533048:+>chr4:7533257:+	12	989
1544	ERBB2	ORF3	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000584450	chr17:37864193:+>chr17:37864574:+	7	987
1545	ERBB2	ORF3	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000584450	chr17:37863725:+>chr17:37864574:+	5	985
1546	KIAA1324	ORF2	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000369939	chr1:109695471:+>chr1:109704516:+	22	984
1547	LRBA	ORF2	chr4:151647737:-:THE1D>chr4:151604869:-:ENST00000357115	chr4:151647737:->chr4:151604869:-	36	981
1548	ABCC5	ORF3	chr3:183693330:-:AluSx3>chr3:183689707:-:ENST00000334444	chr3:183693330:->chr3:183689707:-	11	980
1549	EPHB2	ORF2	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000374632	chr1:23078200:+>chr1:23107914:+	8	975
1550	IGSF9	ORF3	chr1:159905473:-:MIRb>chr1:159904612:-:ENST00000368094	chr1:159905473:->chr1:159904612:-	19	974
1551	EPHB2	ORF2	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000374630	chr1:23078200:+>chr1:23107914:+	8	974
1552	PKD1	ORF2	chr16:2148723:-:L1M4>chr16:2147985:-:ENST00000262304	chr16:2148723:->chr16:2147985:-	19	972
1553	PKD1	ORF2	chr16:2148723:-:L1M4>chr16:2147985:-:ENST00000423118	chr16:2148723:->chr16:2147985:-	19	971
1554	LRBA	ORF2	chr4:151647737:-:THE1D>chr4:151604869:-:ENST00000535741	chr4:151647737:->chr4:151604869:-	36	970
1555	LRBA	ORF2	chr4:151647737:-:THE1D>chr4:151604869:-:ENST00000509835	chr4:151647737:->chr4:151604869:-	36	970
1556	LRBA	ORF2	chr4:151647737:-:THE1D>chr4:151604869:-:ENST00000510413	chr4:151647737:->chr4:151604869:-	36	969
1557	FCRL5	ORF2	chr1:157517430:-:MIR3>chr1:157516987:-:ENST00000361835	chr1:157517430:->chr1:157516987:-	9	969
1558	FCRL5	ORF2	chr1:157517430:-:MIR3>chr1:157516987:-:ENST00000356953	chr1:157517430:->chr1:157516987:-	9	969
1559	SORCS2	ORF2	chr4:7636844:+:L1MC3>chr4:7640055:+:ENST00000329016	chr4:7636844:+>chr4:7640055:+	9	967
1560	ITGAV	ORF3	chr2:187484317:+:L1MA5A>chr2:187487066:+:ENST00000261023	chr2:187484317:+>chr2:187487066:+	18	961
1561	ITGAV	ORF3	chr2:187484317:+:L1MA5A>chr2:187487066:+:ENST00000433736	chr2:187484317:+>chr2:187487066:+	18	961
1562	ANO1	ORF1	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000355303	chr11:69933693:+>chr11:69933858:+	9	959
1563	ANO1	ORF1	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000538023	chr11:69933693:+>chr11:69933858:+	9	959
1564	IGSF9	ORF3	chr1:159905473:-:MIRb>chr1:159904612:-:ENST00000361509	chr1:159905473:->chr1:159904612:-	19	958
1565	SORCS2	ORF2	chr4:7636844:+:L1MC3>chr4:7640055:+:ENST00000507866	chr4:7636844:+>chr4:7640055:+	9	952

Table 15

1566	ABCC1	ORF3	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000399408	chr16:16162702:+>chr16:16165499:+	13	946
1567	ABCC1	ORF3	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000572882	chr16:16162702:+>chr16:16165499:+	13	946
1568	ABCB5	ORF3	chr7:20686997:+:U2>chr7:20687158:+:ENST00000404938	chr7:20686997:+>chr7:20687158:+	10	940
1569	EPHB2	ORF2	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000374627	chr1:23078200:+>chr1:23107914:+	8	940
1570	CLSTN3	ORF1	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000266546	chr12:7284070:+>chr12:7285620:+	4	939
1571	CLSTN3	ORF1	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000537408	chr12:7284070:+>chr12:7285620:+	4	939
1572	UNC5B	ORF1	chr10:73034272:+:L3>chr10:73039578:+:ENST00000335350	chr10:73034272:+>chr10:73039578:+	19	938
1573	MEGF11	ORF2	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000409699	chr15:66275074:->chr15:66274826:-	25	938
1574	MEGF11	ORF2	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000288745	chr15:66275074:->chr15:66274826:-	25	938
1575	MEGF11	ORF2	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000395625	chr15:66275074:->chr15:66274826:-	25	938
1576	MEGF11	ORF2	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000422354	chr15:66275074:->chr15:66274826:-	25	938
1577	ABCC5	ORF3	chr3:183693330:-:AluSx3>chr3:183689707:-:ENST00000265586	chr3:183693330:->chr3:183689707:-	11	937
1578	ABCC1	ORF3	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000399410	chr16:16162702:+>chr16:16165499:+	13	936
1579	MEGF11	ORF2	chr15:66277564:-:MIRb>chr15:66274826:-:ENST00000409699	chr15:66277564:->chr15:66274826:-	18	931
1580	MEGF11	ORF2	chr15:66277564:-:MIRb>chr15:66274826:-:ENST00000288745	chr15:66277564:->chr15:66274826:-	18	931
1581	MEGF11	ORF2	chr15:66277564:-:MIRb>chr15:66274826:-:ENST00000395625	chr15:66277564:->chr15:66274826:-	18	931
1582	MEGF11	ORF2	chr15:66277564:-:MIRb>chr15:66274826:-:ENST00000422354	chr15:66277564:->chr15:66274826:-	18	931
1583	UNC5B	ORF1	chr10:73034272:+:L3>chr10:73039578:+:ENST00000373192	chr10:73034272:+>chr10:73039578:+	19	927
1584	BICC1	ORF1	chr10:60376727:+:HERVL18-int>chr10:60380615:+:ENST00000373886	chr10:60376727:+>chr10:60380615:+	15	926
1585	ITGAV	ORF3	chr2:187484317:+:L1MA5A>chr2:187487066:+:ENST00000374907	chr2:187484317:+>chr2:187487066:+	18	925
1586	BICC1	ORF1	chr10:60299167:+:L1PB3>chr10:60380615:+:ENST00000373886	chr10:60299167:+>chr10:60380615:+	13	924
1587	NOTCH3	ORF1	chr19:15285898:-:L2a>chr19:15285211:-:ENST00000263388	chr19:15285898:->chr19:15285211:-	54	908
1588	DDR1	ORF3	chr6:30844673:+:AluJb>chr6:30856465:+:ENST00000508312	chr6:30844673:+>chr6:30856465:+	11	901
1589	AXL	ORF3	chr19:41725654:+:G-rich>chr19:41726541:+:ENST00000301178	chr19:41725654:+>chr19:41726541:+	32	898
1590	KIAA1324	ORF2	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000529753	chr1:109695471:+>chr1:109704516:+	22	897
1591	AXL	ORF3	chr19:41725654:+:G-rich>chr19:41726541:+:ENST00000359092	chr19:41725654:+>chr19:41726541:+	32	889
1592	ABCC1	ORF3	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000399408	chr16:16171648:+>chr16:16173209:+	7	886
1593	ABCC1	ORF3	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000572882	chr16:16171648:+>chr16:16173209:+	7	886
1594	ABCC1	ORF3	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000346370	chr16:16162702:+>chr16:16165499:+	13	880
1595	ABCC1	ORF3	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000351154	chr16:16162702:+>chr16:16165499:+	13	877
1596	ABCC1	ORF3	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000399410	chr16:16171648:+>chr16:16173209:+	7	876
1597	CDH1	ORF3	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000261769	chr16:68769053:+>chr16:68772200:+	8	874
1598	SLC4A11	ORF1	chr20:3219491:-:MER45A>chr20:3218234:-:ENST00000380056	chr20:3219491:->chr20:3218234:-	11	872
1599	SLC4A11	ORF1	chr20:3219491:-:MER45A>chr20:3218234:-:ENST00000380059	chr20:3219491:->chr20:3218234:-	11	872
1600	SLC4A11	ORF1	chr20:3219491:-:MER45A>chr20:3218234:-:ENST00000539553	chr20:3219491:->chr20:3218234:-	11	872
1601	ADCY2	ORF2	chr5:7639181:+:THE1B>chr5:7690804:+:ENST00000338316	chr5:7639181:+>chr5:7690804:+	21	872
1602	ADCY2	ORF2	chr5:7639181:+:THE1B>chr5:7690804:+:ENST00000537121	chr5:7639181:+>chr5:7690804:+	21	872
1603	KIAA1324	ORF2	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000457623	chr1:109695471:+>chr1:109704516:+	22	872
1604	ABCC1	ORF3	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000345148	chr16:16162702:+>chr16:16165499:+	13	871
1605	GRIA2	ORF1	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000296526	chr4:158141877:+>chr4:158142819:+	11	865
1606	GRIA2	ORF1	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000264426	chr4:158141877:+>chr4:158142819:+	11	865
1607	FGFR1	ORF3	chr8:38320623:-:AluJb>chr8:38315052:-:ENST00000425967	chr8:38320623:->chr8:38315052:-	4	854
1608	NOX1	ORF3	chrX:100124234:-:L1P1>chrX:100118584:-:ENST00000372966	chrX:100124234:->chrX:100118584:-	336	853
1609	CDH1	ORF3	chr16:68834633:+:L2a>chr16:68835573:+:ENST00000261769	chr16:68834633:+>chr16:68835573:+	19	847
1610	ITGB4	ORF1	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000200181	chr17:73722173:+>chr17:73739798:+	4	838
1611	PLXNB3	ORF2	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000538966	chrX:152238123:+>chrX:153039148:+	13	836
1612	PLXNB3	ORF2	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000361971	chrX:152238123:+>chrX:153039148:+	13	836
1613	PLXNB3	ORF2	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000538776	chrX:152238123:+>chrX:153039148:+	13	836
1614	CDH1	ORF2	chr16:68769053:+:MIRb>chr16:68835573:+:ENST00000261769	chr16:68769053:+>chr16:68835573:+	8	836
1615	LGR6	ORF2	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000367278	chr1:202205792:+>chr1:202245434:+	8	833
1616	LGR6	ORF2	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000255432	chr1:202205792:+>chr1:202245434:+	8	833
1617	ADAM22	ORF2	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000265727	chr7:87600690:+>chr7:87607651:+	3	827
1618	ZNRF3	ORF1	chr22:29425207:+:MER115>chr22:29438483:+:ENST00000544604	chr22:29425207:+>chr22:29438483:+	33	827
1619	ZNRF3	ORF1	chr22:29425207:+:MER115>chr22:29438483:+:ENST00000332811	chr22:29425207:+>chr22:29438483:+	33	827
1620	ZNRF3	ORF1	chr22:29425207:+:MER115>chr22:29438483:+:ENST00000402174	chr22:29425207:+>chr22:29438483:+	33	827
1621	ZNRF3	ORF1	chr22:29425207:+:MER115>chr22:29438483:+:ENST00000406323	chr22:29425207:+>chr22:29438483:+	33	827
1622	ITGB4	ORF1	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000339591	chr17:73722173:+>chr17:73739798:+	4	821
1623	ITGB4	ORF1	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000449880	chr17:73722173:+>chr17:73739798:+	4	821
1624	ABCC1	ORF3	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000349029	chr16:16162702:+>chr16:16165499:+	13	821
1625	ADAM22	ORF2	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000315984	chr7:87600690:+>chr7:87607651:+	3	820
1626	ADAM22	ORF2	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000398209	chr7:87600690:+>chr7:87607651:+	3	820
1627	ABCC1	ORF3	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000346370	chr16:16171648:+>chr16:16173209:+	7	820
1628	ABCC1	ORF3	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000351154	chr16:16171648:+>chr16:16173209:+	7	817
1629	CDH1	ORF3	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000422392	chr16:68769053:+>chr16:68772200:+	8	813
1630	KIRREL3	ORF1	chr11:126423799:-:MER21-int>chr11:126396582:-:ENST00000525144	chr11:126423799:->chr11:126396582:-	77	811
1631	ABCC1	ORF3	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000345148	chr16:16171648:+>chr16:16173209:+	7	811
1632	FGFR2	ORF1	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000457416	chr10:123351280:->chr10:123325218:-	25	811
1633	ITGB4	ORF1	chr17:73744262:+:AluJr>chr17:73744922:+:ENST00000200181	chr17:73744262:+>chr17:73744922:+	25	810
1634	FGFR2	ORF1	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000358487	chr10:123351280:->chr10:123325218:-	25	810
1635	FGFR2	ORF1	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000346997	chr10:123351280:->chr10:123325218:-	25	808
1636	NOX1	ORF3	chrX:100124234:-:L1P1>chrX:100118584:-:ENST00000217885	chrX:100124234:->chrX:100118584:-	336	804
1637	KIRREL3	ORF1	chr11:126423799:-:MER21-int>chr11:126396582:-:ENST00000529097	chr11:126423799:->chr11:126396582:-	77	799

Table 15

1638	ITGB4	ORF3	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000200181	chr17:73744210:+>chr17:73744922:+	13	798
1639	ITGB4	ORF1	chr17:73744262:+:AluJr>chr17:73744922:+:ENST00000339591	chr17:73744262:+>chr17:73744922:+	25	793
1640	ITGB4	ORF1	chr17:73744262:+:AluJr>chr17:73744922:+:ENST00000449880	chr17:73744262:+>chr17:73744922:+	25	793
1641	ADAM22	ORF2	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000398204	chr7:87600690:+>chr7:87607651:+	3	791
1642	ROR2	ORF3	chr9:94504366:-:THE1A>chr9:94499800:-:ENST00000375708	chr9:94504366:->chr9:94499800:-	7	786
1643	CDH1	ORF3	chr16:68834633:+:L2a>chr16:68835573:+:ENST00000422392	chr16:68834633:+>chr16:68835573:+	19	786
1644	ITGB4	ORF3	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000339591	chr17:73744210:+>chr17:73744922:+	13	781
1645	ITGB4	ORF3	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000449880	chr17:73744210:+>chr17:73744922:+	13	781
1646	ADAM22	ORF2	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000398201	chr7:87600690:+>chr7:87607651:+	3	780
1647	KL	ORF2	chr13:33560375:+:MER82>chr13:33627904:+:ENST00000380099	chr13:33560375:+>chr13:33627904:+	37	776
1648	LIG1	ORF1	chr19:48654725:-:AluSq2>chr19:48654596:-:ENST00000263274	chr19:48654725:->chr19:48654596:-	11	775
1649	CDH1	ORF2	chr16:68769053:+:MIRb>chr16:68835573:+:ENST00000422392	chr16:68769053:+>chr16:68835573:+	8	775
1650	LIG1	ORF1	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000263274	chr19:48654725:->chr19:48654593:-	11	774
1651	LIG1	ORF1	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000427526	chr19:48654725:->chr19:48654593:-	11	774
1652	NTRK2	ORF1	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000376214	chr9:87294064:+>chr9:87317074:+	6	774
1653	NTRK2	ORF1	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000277120	chr9:87294064:+>chr9:87317074:+	6	774
1654	FGFR2	ORF1	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000351936	chr10:123351280:->chr10:123325218:-	25	774
1655	ACE2	ORF2	chrX:15614396:-:MIRc>chrX:15613126:-:ENST00000252519	chrX:15614396:->chrX:15613126:-	29	772
1656	ACE2	ORF2	chrX:15614396:-:MIRc>chrX:15613126:-:ENST00000427411	chrX:15614396:->chrX:15613126:-	29	772
1657	PROM2	ORF3	chr2:95940748:+:MIR3>chr2:95941209:+:ENST00000317620	chr2:95940748:+>chr2:95941209:+	18	771
1658	PROM2	ORF3	chr2:95940748:+:MIR3>chr2:95941209:+:ENST00000403131	chr2:95940748:+>chr2:95941209:+	18	771
1659	PROM2	ORF3	chr2:95940748:+:MIR3>chr2:95941209:+:ENST00000317668	chr2:95940748:+>chr2:95941209:+	18	771
1660	TRDN	ORF2	chr6:123908604:-:HERVH-int>chr6:123892277:-:ENST00000398178	chr6:123908604:->chr6:123892277:-	48	770
1661	MEGF11	ORF2	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000360698	chr15:66275074:->chr15:66274826:-	25	769
1662	ITGB4	ORF1	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000579662	chr17:73722173:+>chr17:73739798:+	4	768
1663	ITGB4	ORF1	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000450894	chr17:73722173:+>chr17:73739798:+	4	768
1664	SLMAP	ORF3	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000428312	chr3:57808278:+>chr3:57817110:+	4	766
1665	EPHB1	ORF3	chr3:134724968:+:THE1D>chr3:134825290:+:ENST00000398015	chr3:134724968:+>chr3:134825290:+	49	765
1666	APLP2	ORF2	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000263574	chr11:129977538:+>chr11:129979324:+	35	763
1667	MEGF11	ORF2	chr15:66277564:-:MIRb>chr15:66274826:-:ENST00000360698	chr15:66277564:->chr15:66274826:-	18	762
1668	TRDN	ORF2	chr6:123908604:-:HERVH-int>chr6:123892277:-:ENST00000334268	chr6:123908604:->chr6:123892277:-	48	762
1669	ABCC1	ORF3	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000349029	chr16:16171648:+>chr16:16173209:+	7	761
1670	KIRREL	ORF3	chr1:157968151:+:Charlie18a>chr1:158045903:+:ENST00000368173	chr1:157968151:+>chr1:158045903:+	4	760
1671	NPR2	ORF3	chr9:35790337:+:L2c>chr9:35799615:+:ENST00000342694	chr9:35790337:+>chr9:35799615:+	3	759
1672	ADAM22	ORF2	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000398203	chr7:87600690:+>chr7:87607651:+	3	758
1673	CDH3	ORF3	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000264012	chr16:68711459:+>chr16:68712037:+	11	758
1674	CDH3	ORF3	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000581171	chr16:68711459:+>chr16:68712037:+	11	758
1675	NTRK2	ORF1	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000376213	chr9:87294064:+>chr9:87317074:+	6	758
1676	NTRK2	ORF1	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000323115	chr9:87294064:+>chr9:87317074:+	6	758
1677	FGFR2	ORF1	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000369056	chr10:123351280:->chr10:123325218:-	25	758
1678	FGFR2	ORF1	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000369058	chr10:123351280:->chr10:123325218:-	25	757
1679	FOLH1	ORF3	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000256999	chr11:49228638:->chr11:49227724:-	44	755
1680	FOLH1	ORF3	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000340334	chr11:49228638:->chr11:49227724:-	44	755
1681	APLP2	ORF2	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000338167	chr11:129977538:+>chr11:129979324:+	35	751
1682	APLP2	ORF2	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000278756	chr11:129977538:+>chr11:129979324:+	35	751
1683	FCRL5	ORF2	chr1:157517430:-:MIR3>chr1:157516987:-:ENST00000368190	chr1:157517430:->chr1:157516987:-	9	751
1684	SLMAP	ORF3	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000295951	chr3:57808278:+>chr3:57817110:+	4	749
1685	SLMAP	ORF3	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000295952	chr3:57808278:+>chr3:57817110:+	4	749
1686	TRPM1	ORF1	chr15:31327580:-:AluSz>chr15:31325143:-:ENST00000397795	chr15:31327580:->chr15:31325143:-	23	748
1687	TRPM1	ORF1	chr15:31327580:-:AluSz>chr15:31325143:-:ENST00000256552	chr15:31327580:->chr15:31325143:-	23	748
1688	TRPM1	ORF1	chr15:31327580:-:AluSz>chr15:31325143:-:ENST00000542188	chr15:31327580:->chr15:31325143:-	23	748
1689	TRPM1	ORF1	chr15:31327580:-:AluSz>chr15:31325143:-:ENST00000558768	chr15:31327580:->chr15:31325143:-	23	748
1690	KIRREL	ORF3	chr1:157968151:+:Charlie18a>chr1:158045903:+:ENST00000359209	chr1:157968151:+>chr1:158045903:+	4	744
1691	APP	ORF3	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000346798	chr21:27462572:->chr21:27462388:-	47	742
1692	APP	ORF3	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000439274	chr21:27462572:->chr21:27462388:-	47	742
1693	ANO1	ORF1	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000316296	chr11:69912149:+>chr11:69933858:+	107	741
1694	ITGB4	ORF1	chr17:73744262:+:AluJr>chr17:73744922:+:ENST00000579662	chr17:73744262:+>chr17:73744922:+	25	740
1695	ITGB4	ORF1	chr17:73744262:+:AluJr>chr17:73744922:+:ENST00000450894	chr17:73744262:+>chr17:73744922:+	25	740
1696	EVC	ORF3	chr4:5743953:+:MIRb>chr4:5746931:+:ENST00000264956	chr4:5743953:+>chr4:5746931:+	13	738
1697	EVC	ORF3	chr4:5743953:+:MIRb>chr4:5746931:+:ENST00000382674	chr4:5743953:+>chr4:5746931:+	13	738
1698	SORCS2	ORF1	chr4:7680195:+:MIR>chr4:7684470:+:ENST00000329016	chr4:7680195:+>chr4:7684470:+	9	736
1699	TRPM1	ORF3	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000397795	chr15:31327548:->chr15:31325143:-	11	736
1700	TRPM1	ORF3	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000256552	chr15:31327548:->chr15:31325143:-	11	736
1701	TRPM1	ORF3	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000542188	chr15:31327548:->chr15:31325143:-	11	736
1702	TRPM1	ORF3	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000558768	chr15:31327548:->chr15:31325143:-	11	736
1703	EPHB4	ORF2	chr7:100418218:-:Charlie4a>chr7:100417918:-:ENST00000358173	chr7:100418218:->chr7:100417918:-	16	734
1704	ITGB4	ORF3	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000579662	chr17:73744210:+>chr17:73744922:+	13	728
1705	ITGB4	ORF3	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000450894	chr17:73744210:+>chr17:73744922:+	13	728
1706	SLCO2B1	ORF1	chr11:74751566:+:HERVE_a-int>chr11:74873700:+:ENST00000289575	chr11:74751566:+>chr11:74873700:+	24	728
1707	SLMAP	ORF3	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000449503	chr3:57808278:+>chr3:57817110:+	4	728
1708	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000428726	chr11:35110122:+>chr11:35198122:+	5	725
1709	RNF43	ORF1	chr17:56486202:-:L2a>chr17:56448394:-:ENST00000407977	chr17:56486202:->chr17:56448394:-	26	725

Table 15

1710	RNF43	ORF1	chr17:56486202:-:L2a>chr17:56448394:-:ENST00000584437	chr17:56486202:->chr17:56448394:-	26	725
1711	RNF43	ORF1	chr17:56486202:-:L2a>chr17:56448394:-:ENST00000577716	chr17:56486202:->chr17:56448394:-	26	725
1712	APP	ORF3	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000358918	chr21:27462572:->chr21:27462388:-	47	724
1713	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000428726	chr11:35195735:+>chr11:35198122:+	4	724
1714	FOLH1	ORF3	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000356696	chr11:49228638:->chr11:49227724:-	44	724
1715	FOLH1	ORF3	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000533034	chr11:49228638:->chr11:49227724:-	44	724
1716	APP	ORF3	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000357903	chr21:27462572:->chr21:27462388:-	47	723
1717	APP	ORF3	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000440126	chr21:27462572:->chr21:27462388:-	47	723
1718	CDH15	ORF1	chr16:89249054:+:AluSx>chr16:89249956:+:ENST00000289746	chr16:89249054:+>chr16:89249956:+	28	723
1719	BAI1	ORF3	chr8:143592168:+:G-rich>chr8:143592293:+:ENST00000517894	chr8:143592168:+>chr8:143592293:+	30	723
1720	BAI1	ORF3	chr8:143592168:+:G-rich>chr8:143592293:+:ENST00000323289	chr8:143592168:+>chr8:143592293:+	30	723
1721	CDH6	ORF2	chr5:31283267:+:MER20>chr5:31294121:+:ENST00000265071	chr5:31283267:+>chr5:31294121:+	25	722
1722	PROM2	ORF3	chr2:95940748:+:MIR3>chr2:95941209:+:ENST00000542147	chr2:95940748:+>chr2:95941209:+	18	722
1723	APP	ORF2	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000346798	chr21:27478879:->chr21:27462388:-	26	721
1724	APP	ORF2	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000439274	chr21:27478879:->chr21:27462388:-	26	721
1725	APP	ORF1	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000346798	chr21:27453597:->chr21:27425664:-	69	721
1726	APP	ORF1	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000439274	chr21:27453597:->chr21:27425664:-	69	721
1727	SORCS2	ORF1	chr4:7680195:+:MIR>chr4:7684470:+:ENST00000507866	chr4:7680195:+>chr4:7684470:+	9	721
1728	GABBR2	ORF3	chr9:101249441:-:Charlie16a>chr9:101243279:-:ENST00000259455	chr9:101249441:->chr9:101243279:-	23	720
1729	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000346798	chr21:27478885:->chr21:27462388:-	24	719
1730	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000439274	chr21:27478885:->chr21:27462388:-	24	719
1731	KIAA1324	ORF1	chr1:109725274:+:AluY>chr1:109727667:+:ENST00000369939	chr1:109725274:+>chr1:109727667:+	22	718
1732	FOLH1	ORF3	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000256999	chr11:49229182:->chr11:49227724:-	6	717
1733	FOLH1	ORF3	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000340334	chr11:49229182:->chr11:49227724:-	6	717
1734	SLC9A1	ORF3	chr1:27461002:-:MIRb>chr1:27440777:-:ENST00000263980	chr1:27461002:->chr1:27440777:-	19	717
1735	ABCC5	ORF1	chr3:183680541:-:AluSq2>chr3:183679442:-:ENST00000334444	chr3:183680541:->chr3:183679442:-	23	715
1736	FZD6	ORF2	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000522566	chr8:104325460:+>chr8:104330818:+	68	715
1737	FZD6	ORF2	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000358755	chr8:104325460:+>chr8:104330818:+	68	715
1738	FZD6	ORF2	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000523739	chr8:104325460:+>chr8:104330818:+	68	715
1739	ERBB3	ORF3	chr12:56489931:+:MIRc>chr12:56490287:+:ENST00000267101	chr12:56489931:+>chr12:56490287:+	57	714
1740	ERBB3	ORF3	chr12:56489931:+:MIRc>chr12:56490287:+:ENST00000450146	chr12:56489931:+>chr12:56490287:+	57	714
1741	ERBB3	ORF3	chr12:56489931:+:MIRc>chr12:56490287:+:ENST00000415288	chr12:56489931:+>chr12:56490287:+	57	714
1742	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000346798	chr21:27478885:->chr21:27462370:-	24	713
1743	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000439274	chr21:27478885:->chr21:27462370:-	24	713
1744	CDH3	ORF3	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000429102	chr16:68711459:+>chr16:68712037:+	11	713
1745	SLCO2B1	ORF2	chr11:74751690:+:HERVE_a-int>chr11:74873700:+:ENST00000289575	chr11:74751690:+>chr11:74873700:+	9	713
1746	EGFR	ORF3	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000344576	chr7:55188387:+>chr7:55209979:+	31	707
1747	NTRK2	ORF2	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000376214	chr9:87325380:+>chr9:87325552:+	10	706
1748	NTRK2	ORF2	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000277120	chr9:87325380:+>chr9:87325552:+	10	706
1749	AXL	ORF2	chr19:41732817:+:AluJb>chr19:41736872:+:ENST00000301178	chr19:41732817:+>chr19:41736872:+	6	705
1750	APP	ORF2	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000358918	chr21:27478879:->chr21:27462388:-	26	703
1751	APP	ORF1	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000358918	chr21:27453597:->chr21:27425664:-	69	703
1752	APP	ORF2	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000357903	chr21:27478879:->chr21:27462388:-	26	702
1753	APP	ORF2	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000440126	chr21:27478879:->chr21:27462388:-	26	702
1754	APP	ORF1	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000357903	chr21:27453597:->chr21:27425664:-	69	702
1755	APP	ORF1	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000440126	chr21:27453597:->chr21:27425664:-	69	702
1756	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000358918	chr21:27478885:->chr21:27462388:-	24	701
1757	SLC9A1	ORF3	chr1:27445289:-:MIR3>chr1:27440777:-:ENST00000263980	chr1:27445289:->chr1:27440777:-	3	701
1758	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000357903	chr21:27478885:->chr21:27462388:-	24	700
1759	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000440126	chr21:27478885:->chr21:27462388:-	24	700
1760	ABCB5	ORF3	chr7:20708050:+:SVA_E>chr7:20721128:+:ENST00000404938	chr7:20708050:+>chr7:20721128:+	12	700
1761	ABCB5	ORF3	chr7:20708050:+:SVA_E>chr7:20721128:+:ENST00000258738	chr7:20708050:+>chr7:20721128:+	12	700
1762	CNGA1	ORF2	chr4:48012811:-:LTR17>chr4:47954720:-:ENST00000402813	chr4:48012811:->chr4:47954720:-	8	699
1763	ACSL5	ORF3	chr10:114154577:+:(TG)n>chr10:114154676:+:ENST00000356116	chr10:114154577:+>chr10:114154676:+	5	698
1764	FGFR2	ORF1	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000369061	chr10:123351280:->chr10:123325218:-	25	698
1765	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000433354	chr11:35110122:+>chr11:35198122:+	5	697
1766	AXL	ORF2	chr19:41732817:+:AluJb>chr19:41736872:+:ENST00000359092	chr19:41732817:+>chr19:41736872:+	6	696
1767	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000433354	chr11:35195735:+>chr11:35198122:+	4	696
1768	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000358918	chr21:27478885:->chr21:27462370:-	24	695
1769	APLP2	ORF2	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000528499	chr11:129977538:+>chr11:129979324:+	35	695
1770	PTPRZ1	ORF2	chr7:121663441:+:MIR3>chr7:121668606:+:ENST00000393386	chr7:121663441:+>chr7:121668606:+	41	694
1771	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000357903	chr21:27478885:->chr21:27462370:-	24	694
1772	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000440126	chr21:27478885:->chr21:27462370:-	24	694
1773	FGFR2	ORF1	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000369060	chr10:123351280:->chr10:123325218:-	25	694
1774	LRBA	ORF2	chr4:151647737:-:THE1D>chr4:151604869:-:ENST00000507224	chr4:151647737:->chr4:151604869:-	36	693
1775	CLSTN1	ORF3	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000377298	chr1:9806225:->chr1:9804701:-	38	691
1776	CLSTN1	ORF3	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000361311	chr1:9806225:->chr1:9804701:-	38	691
1777	NTRK2	ORF2	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000376213	chr9:87325380:+>chr9:87325552:+	10	690
1778	NTRK2	ORF2	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000323115	chr9:87325380:+>chr9:87325552:+	10	690
1779	ASTN2	ORF2	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000373996	chr9:119602848:->chr9:119583062:-	29	688
1780	ASTN2	ORF2	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000313400	chr9:119602848:->chr9:119583062:-	29	688
1781	ASTN2	ORF2	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000373986	chr9:119602848:->chr9:119583062:-	29	688

Table 15

1782	ASTN2	ORF2	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000361209	chr9:119602848:->chr9:119583062:-	29	688
1783	TRPC4	ORF3	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379681	chr13:38270156:->chr13:38266472:-	5	688
1784	PTPRZ1	ORF2	chr7:121663441:+:MIR3>chr7:121668606:+:ENST00000449182	chr7:121663441:+>chr7:121668606:+	41	687
1785	ROR2	ORF3	chr9:94504366:-:THE1A>chr9:94499800:-:ENST00000375715	chr9:94504366:->chr9:94499800:-	7	687
1786	APP	ORF3	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000359726	chr21:27462572:->chr21:27462388:-	47	686
1787	FOLH1	ORF3	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000356696	chr11:49229182:->chr11:49227724:-	6	686
1788	FOLH1	ORF3	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000533034	chr11:49229182:->chr11:49227724:-	6	686
1789	ITGB1	ORF2	chr10:33224275:-:L2>chr10:33217099:-:ENST00000374956	chr10:33224275:->chr10:33217099:-	17	686
1790	DPP4	ORF2	chr2:162903212:-:L2a>chr2:162902122:-:ENST00000360534	chr2:162903212:->chr2:162902122:-	14	685
1791	ITGA3	ORF3	chr17:48150385:+:Tigger15a>chr17:48151280:+:ENST00000007722	chr17:48150385:+>chr17:48151280:+	4	685
1792	TRPC4	ORF3	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379705	chr13:38270156:->chr13:38266472:-	5	683
1793	TRPC4	ORF3	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000338947	chr13:38270156:->chr13:38266472:-	5	683
1794	TRPC4	ORF3	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379679	chr13:38270156:->chr13:38266472:-	5	683
1795	EPHB4	ORF2	chr7:100418218:-:Charlie4a>chr7:100417918:-:ENST00000360620	chr7:100418218:->chr7:100417918:-	16	682
1796	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000415148	chr11:35110122:+>chr11:35198122:+	5	682
1797	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000449691	chr11:35110122:+>chr11:35198122:+	5	682
1798	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000415148	chr11:35195735:+>chr11:35198122:+	4	681
1799	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000449691	chr11:35195735:+>chr11:35198122:+	4	681
1800	ANO1	ORF2	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000355303	chr11:69971235:+>chr11:69972167:+	13	679
1801	ANO1	ORF2	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000538023	chr11:69971235:+>chr11:69972167:+	13	679
1802	ABCC5	ORF1	chr3:183680541:-:AluSq2>chr3:183679442:-:ENST00000265586	chr3:183680541:->chr3:183679442:-	23	672
1803	SLCO3A1	ORF2	chr15:92016546:+:THE1D>chr15:92459223:+:ENST00000318445	chr15:92016546:+>chr15:92459223:+	22	672
1804	CLSTN1	ORF3	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000435891	chr1:9806225:->chr1:9804701:-	38	672
1805	CLSTN1	ORF3	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000377288	chr1:9806225:->chr1:9804701:-	38	672
1806	ITGA3	ORF3	chr17:48150385:+:Tigger15a>chr17:48151280:+:ENST00000320031	chr17:48150385:+>chr17:48151280:+	4	670
1807	APP	ORF3	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000354192	chr21:27462572:->chr21:27462388:-	47	667
1808	APP	ORF3	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000348990	chr21:27462572:->chr21:27462388:-	47	667
1809	APP	ORF3	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000448388	chr21:27462572:->chr21:27462388:-	47	667
1810	APP	ORF2	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000359726	chr21:27478879:->chr21:27462388:-	26	665
1811	APP	ORF1	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000359726	chr21:27453597:->chr21:27425664:-	69	665
1812	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000359726	chr21:27478885:->chr21:27462388:-	24	663
1813	TSHR	ORF1	chr14:81545280:+:MLT1H1>chr14:81554298:+:ENST00000541158	chr14:81545280:+>chr14:81554298:+	3	662
1814	TSHR	ORF1	chr14:81545280:+:MLT1H1>chr14:81554298:+:ENST00000298171	chr14:81545280:+>chr14:81554298:+	3	662
1815	ITGB1	ORF2	chr10:33224275:-:L2>chr10:33217099:-:ENST00000423113	chr10:33224275:->chr10:33217099:-	17	662
1816	APP	ORF1	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000346798	chr21:27438253:->chr21:27425664:-	8	660
1817	APP	ORF1	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000439274	chr21:27438253:->chr21:27425664:-	8	660
1818	PTPRZ1	ORF3	chr7:121668488:+:L1M3>chr7:121668606:+:ENST00000393386	chr7:121668488:+>chr7:121668606:+	6	659
1819	EGFR	ORF3	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000442591	chr7:55188387:+>chr7:55209979:+	31	659
1820	ITGB1	ORF2	chr10:33224275:-:L2>chr10:33217099:-:ENST00000396033	chr10:33224275:->chr10:33217099:-	17	659
1821	ITGB1	ORF2	chr10:33224275:-:L2>chr10:33217099:-:ENST00000302278	chr10:33224275:->chr10:33217099:-	17	659
1822	TMEM260	ORF2	chr14:56982236:+:THE1C>chr14:57051719:+:ENST00000261556	chr14:56982236:+>chr14:57051719:+	4	658
1823	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000359726	chr21:27478885:->chr21:27462370:-	24	657
1824	LIG1	ORF1	chr19:48654725:-:AluSq2>chr19:48654596:-:ENST00000601091	chr19:48654725:->chr19:48654596:-	11	657
1825	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000437706	chr11:35110122:+>chr11:35198122:+	5	657
1826	TMEM2	ORF1	chr9:74335407:-:AluSx1>chr9:74332995:-:ENST00000377044	chr9:74335407:->chr9:74332995:-	29	657
1827	TMEM2	ORF1	chr9:74335407:-:AluSx1>chr9:74332995:-:ENST00000377066	chr9:74335407:->chr9:74332995:-	29	657
1828	KIAA1324	ORF1	chr1:109725274:+:AluY>chr1:109727667:+:ENST00000457623	chr1:109725274:+>chr1:109727667:+	22	656
1829	SLCO3A1	ORF1	chr15:92396760:+:G-rich>chr15:92459223:+:ENST00000318445	chr15:92396760:+>chr15:92459223:+	6	656
1830	LIG1	ORF1	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000594759	chr19:48654725:->chr19:48654593:-	11	656
1831	LIG1	ORF1	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000601091	chr19:48654725:->chr19:48654593:-	11	656
1832	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000437706	chr11:35195735:+>chr11:35198122:+	4	656
1833	ZDHHC5	ORF2	chr11:57452387:+:AluSx1>chr11:57455980:+:ENST00000527985	chr11:57452387:+>chr11:57455980:+	16	656
1834	ZDHHC5	ORF2	chr11:57452387:+:AluSx1>chr11:57455980:+:ENST00000287169	chr11:57452387:+>chr11:57455980:+	16	656
1835	LRIG2	ORF2	chr1:113646357:+:MER31-int>chr1:113650216:+:ENST00000361127	chr1:113646357:+>chr1:113650216:+	27	655
1836	PKD2L1	ORF1	chr10:102058945:-:AluSx>chr10:102058572:-:ENST00000318222	chr10:102058945:->chr10:102058572:-	9	655
1837	SLCO3A1	ORF2	chr15:92016546:+:THE1D>chr15:92459223:+:ENST00000424469	chr15:92016546:+>chr15:92459223:+	22	654
1838	ANO1	ORF2	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000531349	chr11:69971235:+>chr11:69972167:+	13	653
1839	PTPRZ1	ORF3	chr7:121668488:+:L1M3>chr7:121668606:+:ENST00000449182	chr7:121668488:+>chr7:121668606:+	6	652
1840	SCNN1A	ORF3	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000358945	chr12:6517023:->chr12:6483811:-	7	652
1841	ANO1	ORF2	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000398543	chr11:69971235:+>chr11:69972167:+	13	649
1842	ANO1	ORF2	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000530676	chr11:69971235:+>chr11:69972167:+	13	649
1843	SCNN1B	ORF1	chr16:23347490:+:MIR>chr16:23359913:+:ENST00000307331	chr16:23347490:+>chr16:23359913:+	5	648
1844	ROR2	ORF2	chr9:94493912:-:MIR>chr9:94493437:-:ENST00000375708	chr9:94493912:->chr9:94493437:-	15	646
1845	APP	ORF2	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000354192	chr21:27478879:->chr21:27462388:-	26	646
1846	APP	ORF2	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000348990	chr21:27478879:->chr21:27462388:-	26	646
1847	APP	ORF2	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000448388	chr21:27478879:->chr21:27462388:-	26	646
1848	APP	ORF1	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000354192	chr21:27453597:->chr21:27425664:-	69	646
1849	APP	ORF1	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000348990	chr21:27453597:->chr21:27425664:-	69	646
1850	APP	ORF1	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000448388	chr21:27453597:->chr21:27425664:-	69	646
1851	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000354192	chr21:27478885:->chr21:27462388:-	24	644
1852	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000348990	chr21:27478885:->chr21:27462388:-	24	644
1853	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000448388	chr21:27478885:->chr21:27462388:-	24	644

Table 15

1854	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000395105	chr15:74490651:->chr15:74490159:-	14	644
1855	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000323940	chr15:74490651:->chr15:74490159:-	14	644
1856	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000449139	chr15:74490651:->chr15:74490159:-	14	644
1857	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000535552	chr15:74490651:->chr15:74490159:-	14	644
1858	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000563965	chr15:74490651:->chr15:74490159:-	14	644
1859	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000574278	chr15:74490651:->chr15:74490159:-	14	644
1860	ANO1	ORF1	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000316296	chr11:69933693:+>chr11:69933858:+	9	643
1861	ACSL5	ORF2	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000354655	chr10:114163723:+>chr10:114164269:+	48	643
1862	ACSL5	ORF2	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000393081	chr10:114163723:+>chr10:114164269:+	48	643
1863	ACSL5	ORF2	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000356116	chr10:114163723:+>chr10:114164269:+	48	643
1864	ACSL5	ORF2	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000354273	chr10:114163723:+>chr10:114164269:+	48	643
1865	APP	ORF1	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000358918	chr21:27438253:->chr21:27425664:-	8	642
1866	KIRREL	ORF3	chr1:157968151:+:Charlie18a>chr1:158045903:+:ENST00000392272	chr1:157968151:+>chr1:158045903:+	4	641
1867	APP	ORF1	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000357903	chr21:27438253:->chr21:27425664:-	8	641
1868	APP	ORF1	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000440126	chr21:27438253:->chr21:27425664:-	8	641
1869	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000354192	chr21:27478885:->chr21:27462370:-	24	638
1870	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000348990	chr21:27478885:->chr21:27462370:-	24	638
1871	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000448388	chr21:27478885:->chr21:27462370:-	24	638
1872	SLCO3A1	ORF1	chr15:92396760:+:G-rich>chr15:92459223:+:ENST00000424469	chr15:92396760:+>chr15:92459223:+	6	638
1873	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000416286	chr15:74490651:->chr15:74490159:-	14	636
1874	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000423167	chr15:74490651:->chr15:74490159:-	14	635
1875	KIRREL3	ORF1	chr11:126423799:-:MER21-int>chr11:126396582:-:ENST00000525704	chr11:126423799:->chr11:126396582:-	77	633
1876	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000601345	chr19:14876876:->chr19:14876616:-	12	632
1877	SCNN1A	ORF3	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000360168	chr12:6517023:->chr12:6483811:-	7	630
1878	SCNN1A	ORF3	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000228916	chr12:6517023:->chr12:6483811:-	7	630
1879	SCNN1A	ORF3	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000543768	chr12:6517023:->chr12:6483811:-	7	630
1880	IGDCC4	ORF1	chr15:65685287:-:MIR>chr15:65684708:-:ENST00000352385	chr15:65685287:->chr15:65684708:-	8	630
1881	EGFR	ORF3	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000342916	chr7:55188387:+>chr7:55209979:+	31	630
1882	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000315576	chr19:14876876:->chr19:14876616:-	12	624
1883	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000346057	chr19:14876876:->chr19:14876616:-	12	624
1884	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000353876	chr19:14876876:->chr19:14876616:-	12	624
1885	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000594076	chr19:14876876:->chr19:14876616:-	12	624
1886	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000594294	chr19:14876876:->chr19:14876616:-	12	624
1887	CDH22	ORF3	chr20:44848437:-:MIR>chr20:44845632:-:ENST00000372262	chr20:44848437:->chr20:44845632:-	18	623
1888	CDH22	ORF3	chr20:44848437:-:MIR>chr20:44845632:-:ENST00000537909	chr20:44848437:->chr20:44845632:-	18	623
1889	ACSL5	ORF2	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000433418	chr10:114163723:+>chr10:114164269:+	48	619
1890	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000392967	chr19:14876876:->chr19:14876616:-	12	613
1891	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000596991	chr19:14876876:->chr19:14876616:-	12	613
1892	PKD2L1	ORF1	chr10:102058945:-:AluSx>chr10:102058572:-:ENST00000353274	chr10:102058945:->chr10:102058572:-	9	610
1893	DAGLB	ORF3	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000297056	chr7:6485343:->chr7:6476164:-	16	606
1894	DAGLB	ORF3	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000436575	chr7:6485343:->chr7:6476164:-	16	606
1895	APP	ORF1	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000359726	chr21:27438253:->chr21:27425664:-	8	604
1896	ADAM10	ORF2	chr15:58942662:-:L1MEg>chr15:58938403:-:ENST00000260408	chr15:58942662:->chr15:58938403:-	47	600
1897	KCNH2	ORF3	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000330883	chr7:150655920:->chr7:150648787:-	4	599
1898	KCNH2	ORF3	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000392968	chr7:150655920:->chr7:150648787:-	4	599
1899	KCNH2	ORF3	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000262186	chr7:150655920:->chr7:150648787:-	4	599
1900	TRPC4	ORF3	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000358477	chr13:38270156:->chr13:38266472:-	5	599
1901	NOTCH3	ORF3	chr19:15279766:-:AluJo>chr19:15278222:-:ENST00000263388	chr19:15279766:->chr19:15278222:-	8	596
1902	CDH6	ORF2	chr5:31283267:+:MER20>chr5:31294121:+:ENST00000514738	chr5:31283267:+>chr5:31294121:+	25	595
1903	APP	ORF1	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000354192	chr21:27438253:->chr21:27425664:-	8	585
1904	APP	ORF1	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000348990	chr21:27438253:->chr21:27425664:-	8	585
1905	APP	ORF1	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000448388	chr21:27438253:->chr21:27425664:-	8	585
1906	FCRL5	ORF2	chr1:157517430:-:MIR3>chr1:157516987:-:ENST00000368189	chr1:157517430:->chr1:157516987:-	9	584
1907	GPNMB	ORF3	chr7:23251437:+:LTR33B>chr7:23292972:+:ENST00000381990	chr7:23251437:+>chr7:23292972:+	48	582
1908	PKD2L1	ORF1	chr10:102058945:-:AluSx>chr10:102058572:-:ENST00000338519	chr10:102058945:->chr10:102058572:-	9	580
1909	BMPR1B	ORF2	chr4:95983291:+:MSTA>chr4:96025559:+:ENST00000440890	chr4:95983291:+>chr4:96025559:+	70	578
1910	APLP1	ORF1	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000221891	chr19:36361472:+>chr19:36361798:+	23	577
1911	APLP1	ORF1	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000537454	chr19:36361472:+>chr19:36361798:+	23	576
1912	APLP1	ORF1	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000586861	chr19:36361472:+>chr19:36361798:+	23	576
1913	GPR176	ORF3	chr15:40185902:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40185902:->chr15:40099459:-	116	574
1914	GPR176	ORF3	chr15:40185902:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40185902:->chr15:40099459:-	116	574
1915	SLC13A3	ORF3	chr20:45296205:-:MIR>chr20:45242364:-:ENST00000279027	chr20:45296205:->chr20:45242364:-	7	572
1916	ITGAL	ORF1	chr16:30509333:+:AluSz>chr16:30510395:+:ENST00000356798	chr16:30509333:+>chr16:30510395:+	11	571
1917	GPNMB	ORF3	chr7:23251437:+:LTR33B>chr7:23292972:+:ENST00000258733	chr7:23251437:+>chr7:23292972:+	48	570
1918	ITGAL	ORF1	chr16:30509333:+:AluSz>chr16:30510395:+:ENST00000358164	chr16:30509333:+>chr16:30510395:+	11	570
1919	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000392965	chr19:14876876:->chr19:14876616:-	12	566
1920	ERBB2	ORF3	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000578199	chr17:37864193:+>chr17:37864574:+	7	565
1921	ERBB2	ORF3	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000540042	chr17:37864193:+>chr17:37864574:+	7	565
1922	BMPR1B	ORF2	chr4:95983246:+:MSTA>chr4:96025559:+:ENST00000440890	chr4:95983246:+>chr4:96025559:+	55	563
1923	ERBB2	ORF3	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000578199	chr17:37863725:+>chr17:37864574:+	5	563
1924	ERBB2	ORF3	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000540042	chr17:37863725:+>chr17:37864574:+	5	563
1925	NET1	ORF2	chr10:5454849:+:G-rich>chr10:5468618:+:ENST00000355029	chr10:5454849:+>chr10:5468618:+	7	561

Table 15

1926	NET1	ORF2	chr10:5454816:+:G-rich>chr10:5468618:+:ENST00000355029	chr10:5454816:+>chr10:5468618:+	7	561
1927	EPHB1	ORF2	chr3:134857845:+:L2b>chr3:134872994:+:ENST00000398015	chr3:134857845:+>chr3:134872994:+	4	556
1928	GPNMB	ORF3	chr7:23290481:+:MIR3>chr7:23292926:+:ENST00000381990	chr7:23290481:+>chr7:23292926:+	7	556
1929	PODXL	ORF3	chr7:131232243:-:MIRc>chr7:131196192:-:ENST00000541194	chr7:131232243:->chr7:131196192:-	30	555
1930	PODXL	ORF3	chr7:131232243:-:MIRc>chr7:131196192:-:ENST00000378555	chr7:131232243:->chr7:131196192:-	30	555
1931	PODXL	ORF3	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000541194	chr7:131202421:->chr7:131196192:-	28	553
1932	PODXL	ORF3	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000378555	chr7:131202421:->chr7:131196192:-	28	553
1933	ATP11A	ORF3	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000375630	chr13:113507475:+>chr13:113508593:+	24	552
1934	TFRC	ORF1	chr3:195797990:-:L2a>chr3:195796439:-:ENST00000420415	chr3:195797990:->chr3:195796439:-	20	551
1935	TFRC	ORF1	chr3:195797990:-:L2a>chr3:195796439:-:ENST00000360110	chr3:195797990:->chr3:195796439:-	20	551
1936	TFRC	ORF1	chr3:195797990:-:L2a>chr3:195796439:-:ENST00000392396	chr3:195797990:->chr3:195796439:-	20	551
1937	KCNQ2	ORF2	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000354587	chr20:62068988:->chr20:62065256:-	9	548
1938	KCNQ2	ORF2	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000370224	chr20:62068988:->chr20:62065256:-	9	548
1939	ROR2	ORF2	chr9:94493912:-:MIR>chr9:94493437:-:ENST00000375715	chr9:94493912:->chr9:94493437:-	15	547
1940	NOX1	ORF3	chrX:100122222:-:AluYc>chrX:100118584:-:ENST00000372966	chrX:100122222:->chrX:100118584:-	28	545
1941	PVRL2	ORF3	chr19:45347340:+:MIRb>chr19:45368528:+:ENST00000252483	chr19:45347340:+>chr19:45368528:+	36	545
1942	GPNMB	ORF3	chr7:23290481:+:MIR3>chr7:23292926:+:ENST00000258733	chr7:23290481:+>chr7:23292926:+	7	544
1943	TMPRSS2	ORF3	chr21:42882427:-:MLT2B1>chr21:42870116:-:ENST00000398585	chr21:42882427:->chr21:42870116:-	32	543
1944	ADCY5	ORF2	chr3:123034582:-:AluSz6>chr3:123033169:-:ENST00000491190	chr3:123034582:->chr3:123033169:-	40	542
1945	KCNQ2	ORF1	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000354587	chr20:62065933:->chr20:62065256:-	3	542
1946	KCNQ2	ORF1	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000370224	chr20:62065933:->chr20:62065256:-	3	542
1947	TRPC4	ORF3	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000355779	chr13:38270156:->chr13:38266472:-	5	542
1948	TRPC4	ORF3	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000447043	chr13:38270156:->chr13:38266472:-	5	542
1949	BMPR1B	ORF1	chr4:95983194:+:MSTA>chr4:96025559:+:ENST00000440890	chr4:95983194:+>chr4:96025559:+	32	540
1950	KCNQ2	ORF2	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000359125	chr20:62068988:->chr20:62065256:-	9	540
1951	KCNQ2	ORF2	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000359689	chr20:62068988:->chr20:62065256:-	9	540
1952	ILDR1	ORF3	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000344209	chr3:121766690:->chr3:121726008:-	13	540
1953	TTYH3	ORF1	chr7:2682079:+:AluSx>chr7:2686487:+:ENST00000258796	chr7:2682079:+>chr7:2686487:+	57	539
1954	PVRL2	ORF3	chr19:45365480:+:AluYk4>chr19:45368528:+:ENST00000252483	chr19:45365480:+>chr19:45368528:+	29	538
1955	ERBB3	ORF3	chr12:56489931:+:MIRc>chr12:56490287:+:ENST00000550070	chr12:56489931:+>chr12:56490287:+	57	537
1956	TRPM1	ORF1	chr15:31327580:-:AluSz>chr15:31325143:-:ENST00000558445	chr15:31327580:->chr15:31325143:-	23	535
1957	KCNQ2	ORF1	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000359125	chr20:62065933:->chr20:62065256:-	3	534
1958	KCNQ2	ORF1	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000359689	chr20:62065933:->chr20:62065256:-	3	534
1959	TRPC4	ORF3	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379673	chr13:38270156:->chr13:38266472:-	5	534
1960	PVRL2	ORF3	chr19:45365456:+:AluYk4>chr19:45368528:+:ENST00000252483	chr19:45365456:+>chr19:45368528:+	21	530
1961	PTPRC	ORF2	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000352140	chr1:198708339:+>chr1:198710998:+	25	530
1962	PTPRC	ORF2	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000367376	chr1:198708339:+>chr1:198710998:+	25	530
1963	PTPRC	ORF2	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000594404	chr1:198708339:+>chr1:198710998:+	25	530
1964	PTPRC	ORF2	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000442510	chr1:198708339:+>chr1:198710998:+	25	530
1965	PTPRC	ORF2	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000348564	chr1:198708339:+>chr1:198710998:+	25	530
1966	CDH1	ORF3	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000566612	chr16:68769053:+>chr16:68772200:+	8	529
1967	SLC6A20	ORF3	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000358525	chr3:45821882:->chr3:45821592:-	23	528
1968	NCAM1	ORF2	chr11:113094766:+:L1PA5>chr11:113102367:+:ENST00000524665	chr11:113094766:+>chr11:113102367:+	32	527
1969	NCAM1	ORF2	chr11:113094766:+:L1PA5>chr11:113102367:+:ENST00000316851	chr11:113094766:+>chr11:113102367:+	32	527
1970	GPR176	ORF2	chr15:40186077:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186077:->chr15:40099459:-	69	527
1971	GPR176	ORF2	chr15:40186077:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186077:->chr15:40099459:-	69	527
1972	CLSTN3	ORF3	chr12:7291030:+:MIRb>chr12:7293838:+:ENST00000266546	chr12:7291030:+>chr12:7293838:+	11	526
1973	CLSTN3	ORF3	chr12:7291030:+:MIRb>chr12:7293838:+:ENST00000537408	chr12:7291030:+>chr12:7293838:+	11	526
1974	GRAMD1A	ORF3	chr19:35503234:+:MIR>chr19:35504160:+:ENST00000317991	chr19:35503234:+>chr19:35504160:+	4	526
1975	BMPR1B	ORF2	chr4:95986245:+:L1MB8>chr4:96025559:+:ENST00000440890	chr4:95986245:+>chr4:96025559:+	17	525
1976	SCARB1	ORF3	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000541205	chr12:125337015:->chr12:125302253:-	14	525
1977	SCARB1	ORF3	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000540495	chr12:125337015:->chr12:125302253:-	14	525
1978	GPNMB	ORF3	chr7:23251437:+:LTR33B>chr7:23292972:+:ENST00000453162	chr7:23251437:+>chr7:23292972:+	48	524
1979	SCARB1	ORF3	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000415380	chr12:125337015:->chr12:125302253:-	14	524
1980	PODXL	ORF3	chr7:131232243:-:MIRc>chr7:131196192:-:ENST00000537928	chr7:131232243:->chr7:131196192:-	30	523
1981	PODXL	ORF3	chr7:131232243:-:MIRc>chr7:131196192:-:ENST00000322985	chr7:131232243:->chr7:131196192:-	30	523
1982	TRPM1	ORF3	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000558445	chr15:31327548:->chr15:31325143:-	11	523
1983	KCNQ2	ORF2	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000357249	chr20:62068988:->chr20:62065256:-	9	522
1984	SLC13A3	ORF3	chr20:45296205:-:MIR>chr20:45242364:-:ENST00000413164	chr20:45296205:->chr20:45242364:-	7	522
1985	APLP2	ORF2	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000345598	chr11:129977538:+>chr11:129979324:+	35	522
1986	GRAMD1A	ORF3	chr19:35503234:+:MIR>chr19:35504160:+:ENST00000599564	chr19:35503234:+>chr19:35504160:+	4	522
1987	GRAMD1A	ORF3	chr19:35503234:+:MIR>chr19:35504160:+:ENST00000411896	chr19:35503234:+>chr19:35504160:+	4	522
1988	TM7SF3	ORF1	chr12:27153593:-:AluY>chr12:27152609:-:ENST00000343028	chr12:27153593:->chr12:27152609:-	33	521
1989	PODXL	ORF3	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000537928	chr7:131202421:->chr7:131196192:-	28	521
1990	PODXL	ORF3	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000322985	chr7:131202421:->chr7:131196192:-	28	521
1991	TRPM1	ORF3	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000559177	chr15:31365913:->chr15:31362429:-	20	520
1992	SLCO3A1	ORF3	chr15:92501699:+:MIRb>chr15:92638111:+:ENST00000318445	chr15:92501699:+>chr15:92638111:+	25	520
1993	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000332149	chr21:42883790:->chr21:42866505:-	31	518
1994	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000398585	chr21:42883790:->chr21:42866505:-	31	518
1995	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000458356	chr21:42883790:->chr21:42866505:-	31	518
1996	TFR2	ORF3	chr7:100230403:-:AluJr>chr7:100229772:-:ENST00000223051	chr7:100230403:->chr7:100229772:-	16	518
1997	TFR2	ORF3	chr7:100230403:-:AluJr>chr7:100229772:-:ENST00000462107	chr7:100230403:->chr7:100229772:-	16	518

Table 15

1998	ADCY5	ORF2	chr3:123034582:-:AluSz6>chr3:123033169:-:ENST00000462833	chr3:123034582:->chr3:123033169:-	40	517
1999	ADCY5	ORF2	chr3:123034582:-:AluSz6>chr3:123033169:-:ENST00000309879	chr3:123034582:->chr3:123033169:-	40	517
2000	PVRL2	ORF1	chr19:45365943:+:L1PA10>chr19:45368528:+:ENST00000252483	chr19:45365943:+>chr19:45368528:+	7	516
2001	BMPR1B	ORF1	chr4:95977990:+:L2b>chr4:96025559:+:ENST00000440890	chr4:95977990:+>chr4:96025559:+	8	516
2002	KCNQ2	ORF1	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000357249	chr20:62065933:->chr20:62065256:-	3	516
2003	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000454499	chr21:42883790:->chr21:42866505:-	31	515
2004	SCARB1	ORF2	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000541205	chr12:125344729:->chr12:125302253:-	4	515
2005	SCARB1	ORF2	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000540495	chr12:125344729:->chr12:125302253:-	4	515
2006	APP	ORF1	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000448850	chr21:27453597:->chr21:27425664:-	69	514
2007	SCARB1	ORF2	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000415380	chr12:125344729:->chr12:125302253:-	4	514
2008	NRP1	ORF3	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000265371	chr10:33505616:->chr10:33502645:-	17	513
2009	NRP1	ORF3	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374867	chr10:33505616:->chr10:33502645:-	17	513
2010	SLC2A1	ORF1	chr1:43427043:-:L2b>chr1:43408992:-:ENST00000426263	chr1:43427043:->chr1:43408992:-	26	512
2011	KCNQ2	ORF2	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000360480	chr20:62068988:->chr20:62065256:-	9	512
2012	MCOLN1	ORF2	chr19:7590196:+:AluSx1>chr19:7591325:+:ENST00000264079	chr19:7590196:+>chr19:7591325:+	11	512
2013	SLC7A8	ORF2	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000316902	chr14:23669913:->chr14:23635749:-	25	510
2014	KCNQ2	ORF2	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000344462	chr20:62068988:->chr20:62065256:-	9	509
2015	TFR2	ORF1	chr7:100230403:-:AluJr>chr7:100229568:-:ENST00000223051	chr7:100230403:->chr7:100229568:-	30	509
2016	TFR2	ORF1	chr7:100230403:-:AluJr>chr7:100229568:-:ENST00000462107	chr7:100230403:->chr7:100229568:-	30	509
2017	AHCYL1	ORF1	chr1:110546029:+:L1MC4>chr1:110551656:+:ENST00000369799	chr1:110546029:+>chr1:110551656:+	19	509
2018	SLC44A1	ORF1	chr9:108112906:+:MIRb>chr9:108118493:+:ENST00000374720	chr9:108112906:+>chr9:108118493:+	16	507
2019	SLC44A1	ORF1	chr9:108112906:+:MIRb>chr9:108118493:+:ENST00000470972	chr9:108112906:+>chr9:108118493:+	16	507
2020	TTYH3	ORF1	chr7:2682079:+:AluSx>chr7:2686487:+:ENST00000407643	chr7:2682079:+>chr7:2686487:+	57	507
2021	SLC2A5	ORF2	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000377424	chr1:9128439:->chr1:9118309:-	17	507
2022	APP	ORF2	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000448850	chr21:27478885:->chr21:27462370:-	24	506
2023	NRP1	ORF3	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374875	chr10:33505616:->chr10:33502645:-	17	506
2024	KCNQ2	ORF1	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000360480	chr20:62065933:->chr20:62065256:-	3	506
2025	APCDD1	ORF1	chr18:10454378:+:G-rich>chr18:10468466:+:ENST00000355285	chr18:10454378:+>chr18:10468466:+	10	505
2026	AHCYL1	ORF2	chr1:110545898:+:L1MC4>chr1:110551656:+:ENST00000369799	chr1:110545898:+>chr1:110551656:+	15	505
2027	SLC44A1	ORF1	chr9:108112906:+:MIRb>chr9:108118493:+:ENST00000374724	chr9:108112906:+>chr9:108118493:+	16	504
2028	KCNQ2	ORF1	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000344462	chr20:62065933:->chr20:62065256:-	3	503
2029	SLC44A1	ORF1	chr9:108112906:+:MIRb>chr9:108118493:+:ENST00000374723	chr9:108112906:+>chr9:108118493:+	16	502
2030	SLCO3A1	ORF3	chr15:92501699:+:MIRb>chr15:92638111:+:ENST00000424469	chr15:92501699:+>chr15:92638111:+	25	502
2031	CDH1	ORF3	chr16:68834633:+:L2a>chr16:68835573:+:ENST00000566612	chr16:68834633:+>chr16:68835573:+	19	502
2032	TM7SF3	ORF1	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000343028	chr12:27153625:->chr12:27152581:-	22	501
2033	GPR176	ORF3	chr15:40186430:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186430:->chr15:40099459:-	42	500
2034	GPR176	ORF3	chr15:40186430:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186430:->chr15:40099459:-	42	500
2035	GPR176	ORF3	chr15:40186657:-:SVA_F>chr15:40099398:-:ENST00000299092	chr15:40186657:->chr15:40099398:-	62	500
2036	GPR176	ORF3	chr15:40186657:-:SVA_F>chr15:40099398:-:ENST00000561100	chr15:40186657:->chr15:40099398:-	62	500
2037	GPR176	ORF3	chr15:40186657:-:SVA_F>chr15:40099398:-:ENST00000543580	chr15:40186657:->chr15:40099398:-	62	500
2038	SLC7A8	ORF2	chr14:23642341:-:L2c>chr14:23635749:-:ENST00000316902	chr14:23642341:->chr14:23635749:-	15	500
2039	VANGL1	ORF2	chr1:116206078:+:Tigger15a>chr1:116206282:+:ENST00000355485	chr1:116206078:+>chr1:116206282:+	42	498
2040	VANGL1	ORF2	chr1:116206078:+:Tigger15a>chr1:116206282:+:ENST00000369510	chr1:116206078:+>chr1:116206282:+	42	498
2041	VANGL1	ORF2	chr1:116206078:+:Tigger15a>chr1:116206282:+:ENST00000310260	chr1:116206078:+>chr1:116206282:+	42	498
2042	VANGL1	ORF2	chr1:116206078:+:Tigger15a>chr1:116206282:+:ENST00000369509	chr1:116206078:+>chr1:116206282:+	42	498
2043	GPNMB	ORF3	chr7:23290481:+:MIR3>chr7:23292926:+:ENST00000453162	chr7:23290481:+>chr7:23292926:+	7	498
2044	SLC17A3	ORF3	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000397060	chr6:25864286:->chr6:25862672:-	29	497
2045	NOX1	ORF3	chrX:100122222:-:AluYc>chrX:100118584:-:ENST00000217885	chrX:100122222:->chrX:100118584:-	28	496
2046	SLC2A1	ORF3	chr1:43419630:-:MIRb>chr1:43408992:-:ENST00000426263	chr1:43419630:->chr1:43408992:-	10	496
2047	ILDR1	ORF3	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000273691	chr3:121766690:->chr3:121726008:-	13	496
2048	ILDR1	ORF3	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000462014	chr3:121766690:->chr3:121726008:-	13	496
2049	NRP1	ORF3	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000395995	chr10:33505616:->chr10:33502645:-	17	496
2050	GPR176	ORF3	chr15:40186733:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186733:->chr15:40099459:-	37	495
2051	GPR176	ORF3	chr15:40186733:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186733:->chr15:40099459:-	37	495
2052	ATP11A	ORF3	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000283558	chr13:113507475:+>chr13:113508593:+	24	495
2053	ATP11A	ORF3	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000375645	chr13:113507475:+>chr13:113508593:+	24	495
2054	ATP11A	ORF3	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000487903	chr13:113507475:+>chr13:113508593:+	24	495
2055	RHBDF2	ORF2	chr17:74471820:-:AluSx>chr17:74471223:-:ENST00000389760	chr17:74471820:->chr17:74471223:-	38	494
2056	RHBDF2	ORF2	chr17:74471820:-:AluSx>chr17:74471223:-:ENST00000313080	chr17:74471820:->chr17:74471223:-	38	494
2057	RHBDF2	ORF2	chr17:74471820:-:AluSx>chr17:74471223:-:ENST00000591885	chr17:74471820:->chr17:74471223:-	38	494
2058	ATP8A2	ORF1	chr13:26171792:+:MLT1E1A>chr13:26273311:+:ENST00000381655	chr13:26171792:+>chr13:26273311:+	42	493
2059	CDH1	ORF2	chr16:68769053:+:MIRb>chr16:68835573:+:ENST00000566612	chr16:68769053:+>chr16:68835573:+	8	491
2060	SLC6A20	ORF3	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000353278	chr3:45821882:->chr3:45821592:-	23	491
2061	SLC2A1	ORF1	chr1:43409704:-:MIR3>chr1:43408992:-:ENST00000426263	chr1:43409704:->chr1:43408992:-	3	489
2062	NTRK2	ORF1	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000304053	chr9:87294064:+>chr9:87317074:+	6	489
2063	PVRL2	ORF3	chr19:45347340:+:MIRb>chr19:45368528:+:ENST00000252485	chr19:45347340:+>chr19:45368528:+	36	486
2064	SLC6A20	ORF3	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000456124	chr3:45821882:->chr3:45821592:-	23	483
2065	NOX1	ORF3	chrX:100124234:-:L1P1>chrX:100118584:-:ENST00000372964	chrX:100124234:->chrX:100118584:-	336	481
2066	SCARB1	ORF3	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000261693	chr12:125337015:->chr12:125302253:-	14	481
2067	SLC16A9	ORF3	chr10:61448033:-:LSU-rRNA_Hsa>chr10:61443955:-:ENST00000395348	chr10:61448033:->chr10:61443955:-	3	481
2068	SLC16A9	ORF3	chr10:61448033:-:LSU-rRNA_Hsa>chr10:61443955:-:ENST00000395347	chr10:61448033:->chr10:61443955:-	3	481
2069	SLC6A1	ORF3	chr3:11060955:+:L1MB2>chr3:11061899:+:ENST00000287766	chr3:11060955:+>chr3:11061899:+	37	479

Table 15

2070	PVRL2	ORF3	chr19:45365480:+:AluYk4>chr19:45368528:+:ENST00000252485	chr19:45365480:+>chr19:45368528:+	29	479
2071	SCARB1	ORF3	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000339570	chr12:125337015:->chr12:125302253:-	14	478
2072	ATP1A3	ORF3	chr19:42479404:-:AluSc8>chr19:42474642:-:ENST00000441343	chr19:42479404:->chr19:42474642:-	23	478
2073	DAGLB	ORF3	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000425398	chr7:6485343:->chr7:6476164:-	16	477
2074	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000433892	chr11:35110122:+>chr11:35198122:+	5	476
2075	FZD6	ORF2	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000522484	chr8:104325460:+>chr8:104330818:+	68	476
2076	STRA6	ORF2	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000395105	chr15:74486835:->chr15:74486263:-	7	475
2077	STRA6	ORF2	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000423167	chr15:74486835:->chr15:74486263:-	7	475
2078	STRA6	ORF2	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000323940	chr15:74486835:->chr15:74486263:-	7	475
2079	STRA6	ORF2	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000449139	chr15:74486835:->chr15:74486263:-	7	475
2080	STRA6	ORF2	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000416286	chr15:74486835:->chr15:74486263:-	7	475
2081	STRA6	ORF2	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000535552	chr15:74486835:->chr15:74486263:-	7	475
2082	STRA6	ORF2	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000563965	chr15:74486835:->chr15:74486263:-	7	475
2083	STRA6	ORF2	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000574278	chr15:74486835:->chr15:74486263:-	7	475
2084	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000433892	chr11:35195735:+>chr11:35198122:+	4	475
2085	NTRK2	ORF1	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000376208	chr9:87294064:+>chr9:87317074:+	6	473
2086	SCNN1A	ORF3	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000396966	chr12:6517023:->chr12:6483811:-	7	472
2087	GPR176	ORF1	chr15:40186657:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186657:->chr15:40099459:-	14	472
2088	GPR176	ORF1	chr15:40186657:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186657:->chr15:40099459:-	14	472
2089	HCN2	ORF3	chr19:609804:+:AluJo>chr19:610259:+:ENST00000251287	chr19:609804:+>chr19:610259:+	61	471
2090	PVRL2	ORF3	chr19:45365456:+:AluYk4>chr19:45368528:+:ENST00000252485	chr19:45365456:+>chr19:45368528:+	21	471
2091	SCARB1	ORF2	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000261693	chr12:125344729:->chr12:125302253:-	4	471
2092	TMPRSS2	ORF1	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000332149	chr21:42864922:->chr21:42861520:-	57	470
2093	TMPRSS2	ORF1	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000398585	chr21:42864922:->chr21:42861520:-	57	470
2094	TMPRSS2	ORF1	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000458356	chr21:42864922:->chr21:42861520:-	57	470
2095	SCARA5	ORF3	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000354914	chr8:27795193:->chr8:27779762:-	55	470
2096	EPHB2	ORF2	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000544305	chr1:23078200:+>chr1:23107914:+	8	470
2097	ATP8A2	ORF1	chr13:26171792:+:MLT1E1A>chr13:26273311:+:ENST00000255283	chr13:26171792:+>chr13:26273311:+	42	468
2098	GPR176	ORF1	chr15:40186255:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186255:->chr15:40099459:-	10	468
2099	GPR176	ORF1	chr15:40186255:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186255:->chr15:40099459:-	10	468
2100	SCARB1	ORF2	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000339570	chr12:125344729:->chr12:125302253:-	4	468
2101	ANO1	ORF1	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000355303	chr11:70007088:+>chr11:70007267:+	7	467
2102	ANO1	ORF1	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000398543	chr11:70007088:+>chr11:70007267:+	7	467
2103	ANO1	ORF1	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000538023	chr11:70007088:+>chr11:70007267:+	7	467
2104	ANO1	ORF1	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000530676	chr11:70007088:+>chr11:70007267:+	7	467
2105	ANO1	ORF1	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000531349	chr11:70007088:+>chr11:70007267:+	7	467
2106	TMPRSS2	ORF1	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000454499	chr21:42864922:->chr21:42861520:-	57	467
2107	SCNN1A	ORF3	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000358945	chr12:6471665:->chr12:6471407:-	3	466
2108	GPR176	ORF2	chr15:40186733:-:SVA_F>chr15:40099398:-:ENST00000299092	chr15:40186733:->chr15:40099398:-	26	464
2109	GPR176	ORF2	chr15:40186733:-:SVA_F>chr15:40099398:-:ENST00000561100	chr15:40186733:->chr15:40099398:-	26	464
2110	GPR176	ORF2	chr15:40186733:-:SVA_F>chr15:40099398:-:ENST00000543580	chr15:40186733:->chr15:40099398:-	26	464
2111	RHBG	ORF1	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368246	chr1:156337862:+>chr1:156339110:+	30	464
2112	RHBDF2	ORF2	chr17:74471913:-:AluSx>chr17:74471223:-:ENST00000389760	chr17:74471913:->chr17:74471223:-	7	463
2113	RHBDF2	ORF2	chr17:74471913:-:AluSx>chr17:74471223:-:ENST00000313080	chr17:74471913:->chr17:74471223:-	7	463
2114	RHBDF2	ORF2	chr17:74471913:-:AluSx>chr17:74471223:-:ENST00000591885	chr17:74471913:->chr17:74471223:-	7	463
2115	EDNRB	ORF2	chr13:78549606:-:Harlequin-int>chr13:78492759:-:ENST00000377211	chr13:78549606:->chr13:78492759:-	4	463
2116	BACE2	ORF1	chr21:42582959:+:MER49>chr21:42598199:+:ENST00000330333	chr21:42582959:+>chr21:42598199:+	48	460
2117	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000332149	chr21:42883790:->chr21:42861520:-	46	459
2118	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000398585	chr21:42883790:->chr21:42861520:-	46	459
2119	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000458356	chr21:42883790:->chr21:42861520:-	46	459
2120	PTPRO	ORF2	chr12:15701267:+:L1MC4a>chr12:15702028:+:ENST00000281171	chr12:15701267:+>chr12:15702028:+	11	459
2121	SLCO1B1	ORF3	chr12:21332437:+:L2b>chr12:21349880:+:ENST00000256958	chr12:21332437:+>chr12:21349880:+	9	458
2122	PVRL2	ORF1	chr19:45365943:+:L1PA10>chr19:45368528:+:ENST00000252485	chr19:45365943:+>chr19:45368528:+	7	457
2123	SLC9A1	ORF3	chr1:27461002:-:MIRb>chr1:27440777:-:ENST00000374086	chr1:27461002:->chr1:27440777:-	19	457
2124	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000454499	chr21:42883790:->chr21:42861520:-	46	456
2125	GLDN	ORF2	chr15:51652734:+:HERV17-int>chr15:51669646:+:ENST00000335449	chr15:51652734:+>chr15:51669646:+	26	456
2126	GLRA3	ORF3	chr4:175796123:-:ERVL-E-int>chr4:175710094:-:ENST00000274093	chr4:175796123:->chr4:175710094:-	14	455
2127	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000569936	chr15:74490651:->chr15:74490159:-	14	454
2128	SCNN1B	ORF1	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000343070	chr16:23365611:+>chr16:23366620:+	9	454
2129	SCNN1B	ORF1	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000307331	chr16:23365611:+>chr16:23366620:+	9	454
2130	SCARB1	ORF3	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000546215	chr12:125337015:->chr12:125302253:-	14	453
2131	APP	ORF1	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000448850	chr21:27438253:->chr21:27425664:-	8	453
2132	ILDR1	ORF3	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000393631	chr3:121766690:->chr3:121726008:-	13	451
2133	SGCE	ORF3	chr7:94270209:-:AluSx>chr7:94268760:-:ENST00000415788	chr7:94270209:->chr7:94268760:-	16	451
2134	COL23A1	ORF2	chr5:178001896:-:L3>chr5:177987749:-:ENST00000390654	chr5:178001896:->chr5:177987749:-	6	448
2135	RHBG	ORF1	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368249	chr1:156337862:+>chr1:156339110:+	30	448
2136	GABRA5	ORF2	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000335625	chr15:27076933:+>chr15:27125993:+	13	447
2137	GABRA5	ORF2	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000355395	chr15:27076933:+>chr15:27125993:+	13	447
2138	GABRA5	ORF2	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000400081	chr15:27076933:+>chr15:27125993:+	13	447
2139	SORL1	ORF2	chr11:121482999:+:L4>chr11:121483445:+:ENST00000260197	chr11:121482999:+>chr11:121483445:+	6	446
2140	SORL1	ORF2	chr11:121482999:+:L4>chr11:121483445:+:ENST00000525532	chr11:121482999:+>chr11:121483445:+	6	446
2141	SORL1	ORF2	chr11:121482999:+:L4>chr11:121483445:+:ENST00000532694	chr11:121482999:+>chr11:121483445:+	6	446

Table 15

2142	SORL1	ORF2	chr11:121482999:+:L4>chr11:121483445:+:ENST00000534286	chr11:121482999:+>chr11:121483445:+	6	446
2143	SORL1	ORF2	chr11:121482999:+:L4>chr11:121483445:+:ENST00000527934	chr11:121482999:+>chr11:121483445:+	6	446
2144	SLMAP	ORF3	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000383718	chr3:57808278:+>chr3:57817110:+	4	444
2145	SCNN1A	ORF3	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000360168	chr12:6471665:->chr12:6471407:-	3	444
2146	SCNN1A	ORF3	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000228916	chr12:6471665:->chr12:6471407:-	3	444
2147	SCNN1A	ORF3	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000543768	chr12:6471665:->chr12:6471407:-	3	444
2148	SCARB1	ORF2	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000546215	chr12:125344729:->chr12:125302253:-	4	443
2149	EVC	ORF3	chr4:5789351:+:MLT1D>chr4:5795335:+:ENST00000264956	chr4:5789351:+>chr4:5795335:+	42	442
2150	EVC	ORF3	chr4:5789351:+:MLT1D>chr4:5795335:+:ENST00000382674	chr4:5789351:+>chr4:5795335:+	42	442
2151	SGCE	ORF3	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000445866	chr7:94270209:->chr7:94259153:-	16	442
2152	BACE2	ORF3	chr21:42567569:+:LTR78>chr21:42598193:+:ENST00000330333	chr21:42567569:+>chr21:42598193:+	28	442
2153	CADM2	ORF1	chr3:85827743:+:THE1D>chr3:85851197:+:ENST00000407528	chr3:85827743:+>chr3:85851197:+	27	442
2154	CADM2	ORF1	chr3:85827743:+:THE1D>chr3:85851197:+:ENST00000405615	chr3:85827743:+>chr3:85851197:+	27	442
2155	GLDN	ORF2	chr15:51649596:+:HERV17-int>chr15:51669646:+:ENST00000335449	chr15:51649596:+>chr15:51669646:+	11	441
2156	SLC9A1	ORF3	chr1:27445289:-:MIR3>chr1:27440777:-:ENST00000374086	chr1:27445289:->chr1:27440777:-	3	441
2157	NCAM1	ORF2	chr11:113094766:+:L1PA5>chr11:113102367:+:ENST00000534015	chr11:113094766:+>chr11:113102367:+	32	440
2158	GLRA3	ORF3	chr4:175796123:-:ERVL-E-int>chr4:175710094:-:ENST00000340217	chr4:175796123:->chr4:175710094:-	14	440
2159	ABCC5	ORF1	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000437205	chr3:183707518:->chr3:183707171:-	10	440
2160	TRPM1	ORF2	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000397795	chr15:31317748:->chr15:31295273:-	17	433
2161	TRPM1	ORF2	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000256552	chr15:31317748:->chr15:31295273:-	17	433
2162	TRPM1	ORF2	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000542188	chr15:31317748:->chr15:31295273:-	17	433
2163	TRPM1	ORF2	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000558768	chr15:31317748:->chr15:31295273:-	17	433
2164	SLC22A16	ORF3	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000368919	chr6:110774731:->chr6:110768193:-	33	433
2165	SLC22A16	ORF3	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000330550	chr6:110774731:->chr6:110768193:-	33	433
2166	CELSR1	ORF3	chr22:46768553:-:L2c>chr22:46765701:-:ENST00000262738	chr22:46768553:->chr22:46765701:-	4	432
2167	SGCE	ORF3	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000428696	chr7:94270209:->chr7:94259153:-	16	431
2168	PTPRO	ORF2	chr12:15701267:+:L1MC4a>chr12:15702028:+:ENST00000348962	chr12:15701267:+>chr12:15702028:+	11	431
2169	SCARA5	ORF1	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000354914	chr8:27834547:->chr8:27779762:-	16	431
2170	CHRNA9	ORF1	chr4:40338475:+:L1MB7>chr4:40339227:+:ENST00000310169	chr4:40338475:+>chr4:40339227:+	22	431
2171	TMPRSS4	ORF1	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000534111	chr11:117969154:+>chr11:117969700:+	7	430
2172	TMPRSS4	ORF1	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000437212	chr11:117969154:+>chr11:117969700:+	7	430
2173	BACE2	ORF3	chr21:42597622:+:L1ME2>chr21:42598193:+:ENST00000330333	chr21:42597622:+>chr21:42598193:+	16	430
2174	SLC2A9	ORF1	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000264784	chr4:9996312:->chr4:9987417:-	26	430
2175	SLC2A9	ORF1	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000506583	chr4:9996312:->chr4:9987417:-	26	430
2176	SLC2A9	ORF1	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000309065	chr4:9996312:->chr4:9987417:-	26	430
2177	PSD2	ORF3	chr5:139197989:+:AluJb>chr5:139201478:+:ENST00000274710	chr5:139197989:+>chr5:139201478:+	24	430
2178	DNER	ORF1	chr2:230409481:-:AluSq2>chr2:230377652:-:ENST00000341772	chr2:230409481:->chr2:230377652:-	23	429
2179	BACE2	ORF3	chr21:42597622:+:L1ME2>chr21:42598199:+:ENST00000330333	chr21:42597622:+>chr21:42598199:+	16	428
2180	SLC46A1	ORF3	chr17:26733475:-:MIR>chr17:26733015:-:ENST00000440501	chr17:26733475:->chr17:26733015:-	6	426
2181	TMPRSS4	ORF1	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000522824	chr11:117969154:+>chr11:117969700:+	7	425
2182	ASTN1	ORF2	chr1:176882366:-:L3>chr1:176863966:-:ENST00000361833	chr1:176882366:->chr1:176863966:-	18	422
2183	ASTN1	ORF2	chr1:176882366:-:L3>chr1:176863966:-:ENST00000367654	chr1:176882366:->chr1:176863966:-	18	422
2184	CADM2	ORF3	chr3:85827778:+:THE1D>chr3:85851197:+:ENST00000407528	chr3:85827778:+>chr3:85851197:+	7	422
2185	CADM2	ORF3	chr3:85827778:+:THE1D>chr3:85851197:+:ENST00000405615	chr3:85827778:+>chr3:85851197:+	7	422
2186	GPR161	ORF3	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000367838	chr1:168067120:->chr1:168066470:-	16	421
2187	GPR161	ORF3	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000271357	chr1:168067120:->chr1:168066470:-	16	421
2188	GPR161	ORF3	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000539777	chr1:168067120:->chr1:168066470:-	16	421
2189	GPR161	ORF3	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000361697	chr1:168067120:->chr1:168066470:-	16	421
2190	GPR161	ORF3	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000537209	chr1:168067120:->chr1:168066470:-	16	421
2191	GPR161	ORF3	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000546300	chr1:168067120:->chr1:168066470:-	16	421
2192	GPR161	ORF3	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000367835	chr1:168067120:->chr1:168066470:-	16	421
2193	NTRK2	ORF2	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000304053	chr9:87325380:+>chr9:87325552:+	10	421
2194	BACE2	ORF2	chr21:42582959:+:MER49>chr21:42609440:+:ENST00000330333	chr21:42582959:+>chr21:42609440:+	34	419
2195	SLC17A3	ORF3	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000361703	chr6:25864286:->chr6:25862672:-	29	419
2196	SLC17A3	ORF3	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000360657	chr6:25864286:->chr6:25862672:-	29	419
2197	ATP4A	ORF2	chr19:36047040:-:L2a>chr19:36046714:-:ENST00000262623	chr19:36047040:->chr19:36046714:-	6	418
2198	SCNN1B	ORF1	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000568085	chr16:23365611:+>chr16:23366620:+	9	418
2199	BACE2	ORF2	chr21:42486386:+:AluSx>chr21:42609440:+:ENST00000330333	chr21:42486386:+>chr21:42609440:+	32	417
2200	BACE2	ORF2	chr21:42434652:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42434652:+>chr21:42609440:+	32	417
2201	SGCE	ORF3	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000265735	chr7:94270209:->chr7:94259153:-	16	417
2202	SGCE	ORF3	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000415788	chr7:94270209:->chr7:94259153:-	16	415
2203	GPR161	ORF3	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000367838	chr1:168066913:->chr1:168066470:-	9	414
2204	GPR161	ORF3	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000271357	chr1:168066913:->chr1:168066470:-	9	414
2205	GPR161	ORF3	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000539777	chr1:168066913:->chr1:168066470:-	9	414
2206	GPR161	ORF3	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000361697	chr1:168066913:->chr1:168066470:-	9	414
2207	GPR161	ORF3	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000537209	chr1:168066913:->chr1:168066470:-	9	414
2208	GPR161	ORF3	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000546300	chr1:168066913:->chr1:168066470:-	9	414
2209	GPR161	ORF3	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000367835	chr1:168066913:->chr1:168066470:-	9	414
2210	NTRK2	ORF1	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000395882	chr9:87294064:+>chr9:87317074:+	6	413
2211	NTRK2	ORF1	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000359847	chr9:87294064:+>chr9:87317074:+	6	413
2212	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000434472	chr11:35110122:+>chr11:35198122:+	5	412
2213	LILRB4	ORF3	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000391733	chr19:55173998:+>chr19:55175292:+	13	412

Table 15

2214	TMPRSS4	ORF2	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000534111	chr11:117970832:+>chr11:117973816:+	26	411
2215	TMPRSS4	ORF2	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000523251	chr11:117970832:+>chr11:117973816:+	26	411
2216	TMPRSS4	ORF2	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000437212	chr11:117970832:+>chr11:117973816:+	26	411
2217	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000434472	chr11:35195735:+>chr11:35198122:+	4	411
2218	CD4	ORF1	chr12:6916634:+:L1MD1>chr12:6923308:+:ENST00000011653	chr12:6916634:+>chr12:6923308:+	24	411
2219	MRC1	ORF2	chr10:18180042:+:MER1A>chr10:18183139:+:ENST00000239761	chr10:18180042:+>chr10:18183139:+	4	411
2220	MRC1L1	ORF2	chr10:17933123:+:MER1A>chr10:17936221:+:ENST00000331429	chr10:17933123:+>chr10:17936221:+	4	411
2221	MRC1	ORF2	chr10:17933123:+:MER1A>chr10:18183139:+:ENST00000239761	chr10:17933123:+>chr10:18183139:+	4	411
2222	LILRB4	ORF3	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000391736	chr19:55173998:+>chr19:55175292:+	13	411
2223	LILRB4	ORF3	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000270452	chr19:55173998:+>chr19:55175292:+	13	411
2224	GPRC5B	ORF3	chr16:19893237:-:MIR3>chr16:19884168:-:ENST00000537135	chr16:19893237:->chr16:19884168:-	6	410
2225	BACE2	ORF1	chr21:42582959:+:MER49>chr21:42598199:+:ENST00000347667	chr21:42582959:+>chr21:42598199:+	48	410
2226	LILRB4	ORF3	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000430952	chr19:55173998:+>chr19:55175292:+	13	410
2227	NRG3	ORF1	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000404547	chr10:84403183:+>chr10:84498333:+	7	410
2228	NRG3	ORF1	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000372142	chr10:84403183:+>chr10:84498333:+	7	410
2229	NRP1	ORF2	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000265371	chr10:33497207:->chr10:33496644:-	24	409
2230	NRP1	ORF2	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374867	chr10:33497207:->chr10:33496644:-	24	409
2231	GPRC5B	ORF1	chr16:19886054:-:MER20>chr16:19884168:-:ENST00000537135	chr16:19886054:->chr16:19884168:-	4	408
2232	SGCE	ORF3	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000447873	chr7:94270209:->chr7:94259153:-	16	408
2233	F2RL1	ORF1	chr5:76108135:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108135:+>chr5:76128515:+	37	407
2234	EGFR	ORF3	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000420316	chr7:55188387:+>chr7:55209979:+	31	407
2235	TMPRSS4	ORF2	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000522824	chr11:117970832:+>chr11:117973816:+	26	406
2236	BACE2	ORF2	chr21:42609159:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42609159:+>chr21:42609440:+	21	406
2237	BACE2	ORF1	chr21:42609191:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42609191:+>chr21:42609440:+	21	406
2238	CDH1	ORF3	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000566510	chr16:68769053:+>chr16:68772200:+	8	406
2239	NCAM1	ORF2	chr11:113094766:+:L1PA5>chr11:113102367:+:ENST00000533760	chr11:113094766:+>chr11:113102367:+	32	405
2240	NTRK2	ORF2	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000376208	chr9:87325380:+>chr9:87325552:+	10	405
2241	BACE2	ORF3	chr21:42609349:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42609349:+>chr21:42609440:+	18	403
2242	CADM2	ORF1	chr3:85827743:+:THE1D>chr3:85851197:+:ENST00000383699	chr3:85827743:+>chr3:85851197:+	27	402
2243	NRP1	ORF2	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374875	chr10:33497207:->chr10:33496644:-	24	402
2244	GPR176	ORF2	chr15:40186733:-:SVA_F>chr15:40094455:-:ENST00000299092	chr15:40186733:->chr15:40094455:-	26	400
2245	GPR176	ORF2	chr15:40186733:-:SVA_F>chr15:40094455:-:ENST00000561100	chr15:40186733:->chr15:40094455:-	26	400
2246	GPR176	ORF2	chr15:40186733:-:SVA_F>chr15:40094455:-:ENST00000543580	chr15:40186733:->chr15:40094455:-	26	400
2247	ZP3	ORF3	chr7:76044541:+:AluSz>chr7:76054369:+:ENST00000394857	chr7:76044541:+>chr7:76054369:+	3	398
2248	AXL	ORF3	chr19:41752043:+:Charlie1>chr19:41754419:+:ENST00000301178	chr19:41752043:+>chr19:41754419:+	16	398
2249	AXL	ORF3	chr19:41752043:+:Charlie1>chr19:41754419:+:ENST00000359092	chr19:41752043:+>chr19:41754419:+	16	398
2250	AXL	ORF3	chr19:41752043:+:Charlie1>chr19:41754419:+:ENST00000593513	chr19:41752043:+>chr19:41754419:+	16	398
2251	SLC46A1	ORF3	chr17:26733475:-:MIR>chr17:26733015:-:ENST00000321666	chr17:26733475:->chr17:26733015:-	6	397
2252	F2RL1	ORF3	chr5:76108989:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108989:+>chr5:76128515:+	24	394
2253	ATP1A1	ORF1	chr1:116856424:+:AluJr4>chr1:116939290:+:ENST00000295598	chr1:116856424:+>chr1:116939290:+	5	393
2254	ATP1A1	ORF1	chr1:116856424:+:AluJr4>chr1:116939290:+:ENST00000537345	chr1:116856424:+>chr1:116939290:+	5	393
2255	ATP1A1	ORF1	chr1:116856424:+:AluJr4>chr1:116939290:+:ENST00000369496	chr1:116856424:+>chr1:116939290:+	5	393
2256	MMP24	ORF2	chr20:33851310:+:L2c>chr20:33851594:+:ENST00000246186	chr20:33851310:+>chr20:33851594:+	20	393
2257	BACE2	ORF3	chr21:42567569:+:LTR78>chr21:42598193:+:ENST00000347667	chr21:42567569:+>chr21:42598193:+	28	392
2258	NRP1	ORF2	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000395995	chr10:33497207:->chr10:33496644:-	24	392
2259	SLC39A8	ORF2	chr4:103323036:-:Zaphod>chr4:103236987:-:ENST00000394833	chr4:103323036:->chr4:103236987:-	5	392
2260	SLC39A8	ORF2	chr4:103323036:-:Zaphod>chr4:103236987:-:ENST00000356736	chr4:103323036:->chr4:103236987:-	5	392
2261	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000332149	chr21:42883790:->chr21:42852529:-	46	390
2262	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000398585	chr21:42883790:->chr21:42852529:-	46	390
2263	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000458356	chr21:42883790:->chr21:42852529:-	46	390
2264	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000454499	chr21:42883790:->chr21:42852529:-	46	387
2265	SLC8A1	ORF3	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000408028	chr2:40465674:->chr2:40404995:-	23	386
2266	NRG3	ORF1	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000372141	chr10:84403183:+>chr10:84498333:+	7	386
2267	NRG3	ORF1	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000404576	chr10:84403183:+>chr10:84498333:+	7	386
2268	NRG3	ORF1	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000556918	chr10:84403183:+>chr10:84498333:+	7	386
2269	DNER	ORF3	chr2:230370928:-:THE1C>chr2:230341969:-:ENST00000341772	chr2:230370928:->chr2:230341969:-	30	385
2270	F2RL1	ORF3	chr5:76108212:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108212:+>chr5:76128515:+	14	384
2271	C19orf26	ORF3	chr19:1232910:-:MIR3>chr19:1231274:-:ENST00000382477	chr19:1232910:->chr19:1231274:-	5	384
2272	CRTAM	ORF3	chr11:122700370:+:HERVH-int>chr11:122720776:+:ENST00000227348	chr11:122700370:+>chr11:122720776:+	6	384
2273	LPAR1	ORF1	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000374431	chr9:113706404:->chr9:113704448:-	35	384
2274	LPAR1	ORF1	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000541779	chr9:113706404:->chr9:113704448:-	35	384
2275	LPAR1	ORF1	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000374430	chr9:113706404:->chr9:113704448:-	35	384
2276	LPAR1	ORF1	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000358883	chr9:113706404:->chr9:113704448:-	35	384
2277	LPAR1	ORF1	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000538760	chr9:113706404:->chr9:113704448:-	35	384
2278	F2RL1	ORF3	chr5:76108296:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108296:+>chr5:76128515:+	13	383
2279	PIEZO1	ORF2	chr16:88785499:-:AluJr4>chr16:88783619:-:ENST00000301015	chr16:88785499:->chr16:88783619:-	19	383
2280	FOLH1	ORF3	chr11:49184098:-:L1PA10>chr11:49179595:-:ENST00000256999	chr11:49184098:->chr11:49179595:-	112	382
2281	FOLH1	ORF3	chr11:49184098:-:L1PA10>chr11:49179595:-:ENST00000343844	chr11:49184098:->chr11:49179595:-	112	382
2282	FOLH1	ORF3	chr11:49184098:-:L1PA10>chr11:49179595:-:ENST00000340334	chr11:49184098:->chr11:49179595:-	112	382
2283	CADM2	ORF3	chr3:85827778:+:THE1D>chr3:85851197:+:ENST00000383699	chr3:85827778:+>chr3:85851197:+	7	382
2284	SLCO3A1	ORF2	chr15:92659285:+:MIR>chr15:92663695:+:ENST00000318445	chr15:92659285:+>chr15:92663695:+	7	381
2285	BACE2	ORF3	chr21:42597622:+:L1ME2>chr21:42598193:+:ENST00000347667	chr21:42597622:+>chr21:42598193:+	16	380

2286	SLC16A10	ORF3	chr6:111494728:+:MER1A>chr6:111498415:+:ENST00000368851	chr6:111494728:+>chr6:111498415:+	27	380
2287	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000360158	chr11:35110122:+>chr11:35198122:+	5	379
2288	CDH1	ORF3	chr16:68834633:+:L2a>chr16:68835573:+:ENST00000566510	chr16:68834633:+>chr16:68835573:+	19	379
2289	OR7E24	ORF2	chr19:9356662:+:LTR66>chr19:9361761:+:ENST00000456448	chr19:9356662:+>chr19:9361761:+	52	378
2290	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000360158	chr11:35195735:+>chr11:35198122:+	4	378
2291	BACE2	ORF3	chr21:42597622:+:L1ME2>chr21:42598199:+:ENST00000347667	chr21:42597622:+>chr21:42598199:+	16	378
2292	SLC16A10	ORF1	chr6:111494717:+:MER1A>chr6:111498415:+:ENST00000368851	chr6:111494717:+>chr6:111498415:+	24	377
2293	CDH19	ORF3	chr18:64205766:-:L1MC4a>chr18:64202344:-:ENST00000262150	chr18:64205766:->chr18:64202344:-	9	377
2294	SLC39A8	ORF2	chr4:103323036:-:Zaphod>chr4:103236987:-:ENST00000424970	chr4:103323036:->chr4:103236987:-	5	376
2295	F2RL1	ORF1	chr5:76108438:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108438:+>chr5:76128515:+	5	375
2296	SCARA5	ORF3	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000524352	chr8:27795193:->chr8:27779762:-	55	375
2297	SCARA5	ORF3	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000518030	chr8:27795193:->chr8:27779762:-	55	375
2298	SCARA5	ORF3	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000301906	chr8:27795193:->chr8:27779762:-	55	375
2299	ANO9	ORF2	chr11:423942:-:AluSx>chr11:421198:-:ENST00000332826	chr11:423942:->chr11:421198:-	34	372
2300	KIRREL3	ORF2	chr11:126310717:-:L2c>chr11:126310444:-:ENST00000525144	chr11:126310717:->chr11:126310444:-	11	372
2301	SLC22A16	ORF3	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000451557	chr6:110774731:->chr6:110768193:-	33	371
2302	SLC22A16	ORF3	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000439654	chr6:110774731:->chr6:110768193:-	33	371
2303	TTYH1	ORF3	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000376531	chr19:54930864:+>chr19:54932451:+	11	370
2304	BACE2	ORF2	chr21:42582959:+:MER49>chr21:42609440:+:ENST00000347667	chr21:42582959:+>chr21:42609440:+	34	369
2305	CDH1	ORF2	chr16:68769053:+:MIRb>chr16:68835573:+:ENST00000566510	chr16:68769053:+>chr16:68835573:+	8	368
2306	EPCAM	ORF1	chr2:47596600:+:LTR41B>chr2:47596660:+:ENST00000263735	chr2:47596600:+>chr2:47596660:+	59	368
2307	BACE2	ORF2	chr21:42486386:+:AluSx>chr21:42609440:+:ENST00000347667	chr21:42486386:+>chr21:42609440:+	32	367
2308	BACE2	ORF2	chr21:42434652:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42434652:+>chr21:42609440:+	32	367
2309	PIEZO1	ORF2	chr16:88785499:-:AluJr4>chr16:88783619:-:ENST00000327397	chr16:88785499:->chr16:88783619:-	19	367
2310	LPAR1	ORF3	chr9:113773828:-:L3>chr9:113704448:-:ENST00000374431	chr9:113773828:->chr9:113704448:-	17	366
2311	LPAR1	ORF3	chr9:113773828:-:L3>chr9:113704448:-:ENST00000541779	chr9:113773828:->chr9:113704448:-	17	366
2312	LPAR1	ORF3	chr9:113773828:-:L3>chr9:113704448:-:ENST00000374430	chr9:113773828:->chr9:113704448:-	17	366
2313	LPAR1	ORF3	chr9:113773828:-:L3>chr9:113704448:-:ENST00000358883	chr9:113773828:->chr9:113704448:-	17	366
2314	LPAR1	ORF3	chr9:113773828:-:L3>chr9:113704448:-:ENST00000538760	chr9:113773828:->chr9:113704448:-	17	366
2315	ANO1	ORF2	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000316296	chr11:69971235:+>chr11:69972167:+	13	363
2316	FAS	ORF1	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000355740	chr10:90713663:+>chr10:90762786:+	38	363
2317	TTYH1	ORF2	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000376531	chr19:54930716:+>chr19:54932451:+	4	363
2318	SLCO3A1	ORF2	chr15:92659285:+:MIR>chr15:92663695:+:ENST00000424469	chr15:92659285:+>chr15:92663695:+	7	363
2319	CD97	ORF3	chr19:14515022:+:L2a>chr19:14515195:+:ENST00000358600	chr19:14515022:+>chr19:14515195:+	10	362
2320	CD97	ORF3	chr19:14515022:+:L2a>chr19:14515195:+:ENST00000357355	chr19:14515022:+>chr19:14515195:+	10	362
2321	CD97	ORF3	chr19:14515022:+:L2a>chr19:14515195:+:ENST00000242786	chr19:14515022:+>chr19:14515195:+	10	362
2322	LILRB4	ORF3	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000434286	chr19:55173998:+>chr19:55175292:+	13	362
2323	LDLR	ORF2	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000557933	chr19:11230510:+>chr19:11230768:+	29	362
2324	TTYH1	ORF3	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000301194	chr19:54930864:+>chr19:54932451:+	11	361
2325	CX3CR1	ORF3	chr3:39334283:-:MIR>chr3:39308009:-:ENST00000358309	chr3:39334283:->chr3:39308009:-	3	361
2326	TTYH1	ORF3	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000376530	chr19:54930864:+>chr19:54932451:+	11	360
2327	C5AR1	ORF2	chr19:47811079:+:MER1A>chr19:47823038:+:ENST00000355085	chr19:47811079:+>chr19:47823038:+	11	360
2328	TMEM260	ORF2	chr14:56982236:+:THE1C>chr14:57051719:+:ENST00000538838	chr14:56982236:+>chr14:57051719:+	4	360
2329	KIRREL3	ORF2	chr11:126310717:-:L2c>chr11:126310444:-:ENST00000529097	chr11:126310717:->chr11:126310444:-	11	360
2330	EPCAM	ORF1	chr2:47596570:+:LTR41B>chr2:47596660:+:ENST00000263735	chr2:47596570:+>chr2:47596660:+	49	358
2331	SLC8A1	ORF3	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000406785	chr2:40465674:->chr2:40404995:-	23	358
2332	SLC8A1	ORF3	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000402441	chr2:40465674:->chr2:40404995:-	23	358
2333	SLC8A1	ORF3	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000405269	chr2:40465674:->chr2:40404995:-	23	358
2334	SLC8A1	ORF3	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000406391	chr2:40465674:->chr2:40404995:-	23	358
2335	SLC8A1	ORF3	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000542024	chr2:40465674:->chr2:40404995:-	23	358
2336	LILRB4	ORF3	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000391734	chr19:55173998:+>chr19:55175292:+	13	358
2337	GRAMD2	ORF3	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000309731	chr15:72463983:->chr15:72462280:-	16	357
2338	ASTN1	ORF2	chr1:176882366:-:L3>chr1:176863966:-:ENST00000367657	chr1:176882366:->chr1:176863966:-	18	356
2339	BACE2	ORF2	chr21:42609159:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42609159:+>chr21:42609440:+	21	356
2340	BACE2	ORF1	chr21:42609191:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42609191:+>chr21:42609440:+	21	356
2341	CDH3	ORF1	chr16:68708802:+:AluSx4>chr16:68719173:+:ENST00000264012	chr16:68708802:+>chr16:68719173:+	22	355
2342	CDH3	ORF1	chr16:68708802:+:AluSx4>chr16:68719173:+:ENST00000581171	chr16:68708802:+>chr16:68719173:+	22	355
2343	TTYH1	ORF2	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000301194	chr19:54930716:+>chr19:54932451:+	4	354
2344	BACE2	ORF3	chr21:42609349:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42609349:+>chr21:42609440:+	18	353
2345	TTYH1	ORF2	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000376530	chr19:54930716:+>chr19:54932451:+	4	353
2346	FOLH1	ORF3	chr11:49184098:-:L1PA10>chr11:49179595:-:ENST00000356696	chr11:49184098:->chr11:49179595:-	112	351
2347	FOLH1	ORF3	chr11:49184098:-:L1PA10>chr11:49179595:-:ENST00000533034	chr11:49184098:->chr11:49179595:-	112	351
2348	GRID1	ORF3	chr10:87479212:-:THE1A>chr10:87407154:-:ENST00000327946	chr10:87479212:->chr10:87407154:-	7	351
2349	GRID1	ORF3	chr10:87479212:-:THE1A>chr10:87407154:-:ENST00000536331	chr10:87479212:->chr10:87407154:-	7	351
2350	TM7SF3	ORF1	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000343028	chr12:27144286:->chr12:27143560:-	11	351
2351	CA12	ORF3	chr15:63650004:-:L1MB5>chr15:63638908:-:ENST00000178638	chr15:63650004:->chr15:63638908:-	31	350
2352	ACE	ORF1	chr17:61556008:+:AluJb>chr17:61556368:+:ENST00000538928	chr17:61556008:+>chr17:61556368:+	13	349
2353	ABCC2	ORF1	chr10:101601215:+:AluJb>chr10:101601724:+:ENST00000370449	chr10:101601215:+>chr10:101601724:+	7	348
2354	PTPRA	ORF3	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000380393	chr20:3004517:+>chr20:3005118:+	33	347
2355	PTPRA	ORF3	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000216877	chr20:3004517:+>chr20:3005118:+	33	347
2356	PTPRA	ORF3	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000358719	chr20:3004517:+>chr20:3005118:+	33	347
2357	PTPRA	ORF3	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000399903	chr20:3004517:+>chr20:3005118:+	33	347

Table 15

2358	PTPRA	ORF3	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000425918	chr20:3004517:+>chr20:3005118:+	33	347
2359	PTPRA	ORF3	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000318266	chr20:3004517:+>chr20:3005118:+	33	347
2360	PTPRA	ORF3	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000356147	chr20:3004517:+>chr20:3005118:+	33	347
2361	NTRK2	ORF2	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000395882	chr9:87325380:+>chr9:87325552:+	10	345
2362	NTRK2	ORF2	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000359847	chr9:87325380:+>chr9:87325552:+	10	345
2363	LDLR	ORF2	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000557933	chr19:11230008:+>chr19:11230768:+	12	345
2364	ASTN1	ORF2	chr1:176882366:-:L3>chr1:176863966:-:ENST00000424564	chr1:176882366:->chr1:176863966:-	18	344
2365	CA12	ORF1	chr15:63668160:-:AluSp>chr15:63667877:-:ENST00000178638	chr15:63668160:->chr15:63667877:-	18	344
2366	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000263398	chr11:35110122:+>chr11:35198122:+	5	344
2367	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000263398	chr11:35195735:+>chr11:35198122:+	4	343
2368	FAS	ORF1	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000357339	chr10:90713663:+>chr10:90762786:+	38	342
2369	KREMEN1	ORF2	chr22:29519837:+:L1ME1>chr22:29521251:+:ENST00000327813	chr22:29519837:+>chr22:29521251:+	7	340
2370	DRD4	ORF3	chr11:639158:+:AluJr>chr11:639433:+:ENST00000176183	chr11:639158:+>chr11:639433:+	16	340
2371	CA12	ORF3	chr15:63650004:-:L1MB5>chr15:63638908:-:ENST00000344366	chr15:63650004:->chr15:63638908:-	31	339
2372	BACE2	ORF1	chr21:42582959:+:MER49>chr21:42598199:+:ENST00000328735	chr21:42582959:+>chr21:42598199:+	48	338
2373	AMICA1	ORF1	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000356289	chr11:118082875:->chr11:118081427:-	10	338
2374	AMICA1	ORF1	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000292067	chr11:118082875:->chr11:118081427:-	10	338
2375	AMICA1	ORF1	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000526620	chr11:118082875:->chr11:118081427:-	10	338
2376	TRDN	ORF2	chr6:123908604:-:HERVH-int>chr6:123892277:-:ENST00000546248	chr6:123908604:->chr6:123892277:-	48	338
2377	CD74	ORF2	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000518797	chr5:149832091:->chr5:149792292:-	22	337
2378	BTN3A1	ORF3	chr6:26409089:+:L1MC4a>chr6:26409761:+:ENST00000289361	chr6:26409089:+>chr6:26409761:+	62	337
2379	BTN3A1	ORF3	chr6:26409089:+:L1MC4a>chr6:26409761:+:ENST00000414912	chr6:26409089:+>chr6:26409761:+	62	337
2380	SCARA5	ORF1	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000524352	chr8:27834547:->chr8:27779762:-	16	336
2381	SCARA5	ORF1	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000518030	chr8:27834547:->chr8:27779762:-	16	336
2382	SCARA5	ORF1	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000301906	chr8:27834547:->chr8:27779762:-	16	336
2383	CDH3	ORF2	chr16:68708802:+:AluSx4>chr16:68719205:+:ENST00000264012	chr16:68708802:+>chr16:68719205:+	13	335
2384	CDH3	ORF2	chr16:68708802:+:AluSx4>chr16:68719205:+:ENST00000581171	chr16:68708802:+>chr16:68719205:+	13	335
2385	SLC9A1	ORF1	chr1:27430228:-:MIR>chr1:27429803:-:ENST00000263980	chr1:27430228:->chr1:27429803:-	15	335
2386	SLC9A1	ORF1	chr1:27430228:-:MIR>chr1:27429803:-:ENST00000545949	chr1:27430228:->chr1:27429803:-	15	335
2387	NCAM1	ORF2	chr11:113094766:+:L1PA5>chr11:113102367:+:ENST00000401611	chr11:113094766:+>chr11:113102367:+	32	334
2388	CA12	ORF1	chr15:63668160:-:AluSp>chr15:63667877:-:ENST00000344366	chr15:63668160:->chr15:63667877:-	18	333
2389	GRIK5	ORF1	chr19:42503823:-:L2a>chr19:42503451:-:ENST00000262895	chr19:42503823:->chr19:42503451:-	190	333
2390	GRIK5	ORF1	chr19:42503823:-:L2a>chr19:42503451:-:ENST00000593562	chr19:42503823:->chr19:42503451:-	190	333
2391	CD86	ORF2	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000330540	chr3:121681042:+>chr3:121810448:+	7	332
2392	TMPRSS4	ORF1	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000519236	chr11:117969154:+>chr11:117969700:+	7	330
2393	GPR98	ORF2	chr5:90277962:+:MER6A>chr5:90281161:+:ENST00000405460	chr5:90277962:+>chr5:90281161:+	13	328
2394	GPR98	ORF2	chr5:90277962:+:MER6A>chr5:90281161:+:ENST00000425867	chr5:90277962:+>chr5:90281161:+	13	328
2395	SGCB	ORF2	chr4:52913266:-:THE1B>chr4:52899806:-:ENST00000381431	chr4:52913266:->chr4:52899806:-	21	328
2396	SGCB	ORF3	chr4:52915523:-:THE1B>chr4:52899806:-:ENST00000381431	chr4:52915523:->chr4:52899806:-	21	328
2397	KCNH2	ORF3	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000430723	chr7:150655920:->chr7:150648787:-	4	328
2398	KCNK9	ORF3	chr8:140700582:-:THE1D>chr8:140631342:-:ENST00000522317	chr8:140700582:->chr8:140631342:-	48	328
2399	KCNK9	ORF3	chr8:140700582:-:THE1D>chr8:140631342:-:ENST00000303015	chr8:140700582:->chr8:140631342:-	48	328
2400	KCNK9	ORF3	chr8:140700582:-:THE1D>chr8:140631342:-:ENST00000520439	chr8:140700582:->chr8:140631342:-	48	328
2401	AMICA1	ORF1	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000533261	chr11:118082875:->chr11:118081427:-	10	327
2402	EPCAM	ORF3	chr2:47596512:+:LTR41B>chr2:47596660:+:ENST00000263735	chr2:47596512:+>chr2:47596660:+	17	326
2403	EPCAM	ORF2	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000405271	chr2:47553008:+>chr2:47600602:+	36	325
2404	EPCAM	ORF2	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000456133	chr2:47553008:+>chr2:47600602:+	36	325
2405	EPCAM	ORF2	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000263735	chr2:47553008:+>chr2:47600602:+	36	325
2406	NAALAD2	ORF2	chr11:89901463:+:LTR12C>chr11:89902097:+:ENST00000534061	chr11:89901463:+>chr11:89902097:+	9	323
2407	NAALAD2	ORF2	chr11:89901463:+:LTR12C>chr11:89902097:+:ENST00000321955	chr11:89901463:+>chr11:89902097:+	9	323
2408	KREMEN1	ORF2	chr22:29519837:+:L1ME1>chr22:29521251:+:ENST00000400338	chr22:29519837:+>chr22:29521251:+	7	323
2409	KREMEN1	ORF2	chr22:29519837:+:L1ME1>chr22:29521251:+:ENST00000407188	chr22:29519837:+>chr22:29521251:+	7	323
2410	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000352818	chr11:35110122:+>chr11:35198122:+	5	323
2411	ANO1	ORF1	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000531604	chr11:69912149:+>chr11:69933858:+	107	322
2412	SLC38A2	ORF2	chr12:46760160:-:Tigger4b>chr12:46758972:-:ENST00000256689	chr12:46760160:->chr12:46758972:-	3	322
2413	SLC38A2	ORF2	chr12:46760160:-:Tigger4b>chr12:46758972:-:ENST00000551374	chr12:46760160:->chr12:46758972:-	3	322
2414	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000352818	chr11:35195735:+>chr11:35198122:+	4	322
2415	ERBB2	ORF1	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000584601	chr17:37882405:+>chr17:37882815:+	24	322
2416	ERBB2	ORF1	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000406381	chr17:37882405:+>chr17:37882815:+	24	322
2417	ERBB2	ORF1	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000541774	chr17:37882405:+>chr17:37882815:+	24	322
2418	ERBB2	ORF1	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000445658	chr17:37882405:+>chr17:37882815:+	24	322
2419	ERBB2	ORF1	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000540147	chr17:37882405:+>chr17:37882815:+	24	322
2420	ERBB2	ORF1	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000269571	chr17:37882405:+>chr17:37882815:+	24	322
2421	PODXL	ORF3	chr7:131232243:-:MIRc>chr7:131196192:-:ENST00000446198	chr7:131232243:->chr7:131196192:-	30	321
2422	ATP11A	ORF3	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000418678	chr13:113507475:+>chr13:113508593:+	24	321
2423	PAQR5	ORF1	chr15:69643353:+:ERVL-B4-int>chr15:69672222:+:ENST00000395407	chr15:69643353:+>chr15:69672222:+	7	320
2424	PAQR5	ORF1	chr15:69643353:+:ERVL-B4-int>chr15:69672222:+:ENST00000561153	chr15:69643353:+>chr15:69672222:+	7	320
2425	PAQR5	ORF1	chr15:69643353:+:ERVL-B4-int>chr15:69672222:+:ENST00000340965	chr15:69643353:+>chr15:69672222:+	7	320
2426	BACE2	ORF3	chr21:42567569:+:LTR78>chr21:42598193:+:ENST00000328735	chr21:42567569:+>chr21:42598193:+	28	320
2427	GPM6B	ORF3	chrX:13907571:-:L2a>chrX:13825888:-:ENST00000316715	chrX:13907571:->chrX:13825888:-	12	320
2428	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000518797	chr5:149925791:->chr5:149792270:-	13	320
2429	SLC3A2	ORF3	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377892	chr11:62651559:+>chr11:62651929:+	21	320

Table 15

2430	SLC3A2	ORF3	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377890	chr11:62651559:+>chr11:62651929:+	21	320
2431	SLC3A2	ORF3	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377891	chr11:62651559:+>chr11:62651929:+	21	320
2432	SLC3A2	ORF3	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377889	chr11:62651559:+>chr11:62651929:+	21	320
2433	SLC3A2	ORF3	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000535296	chr11:62651559:+>chr11:62651929:+	21	320
2434	SLC3A2	ORF3	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000338663	chr11:62651559:+>chr11:62651929:+	21	320
2435	FLOT1	ORF3	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000376389	chr6:30708763:->chr6:30708575:-	11	320
2436	FLOT1	ORF3	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000456573	chr6:30708763:->chr6:30708575:-	11	320
2437	TRABD2B	ORF3	chr1:48271527:-:MIR>chr1:48267291:-:ENST00000606738	chr1:48271527:->chr1:48267291:-	24	319
2438	TENM2	ORF1	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000518659	chr5:167685690:+>chr5:167687288:+	22	319
2439	TENM2	ORF1	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000545108	chr5:167685690:+>chr5:167687288:+	22	319
2440	TENM2	ORF1	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000519204	chr5:167685690:+>chr5:167687288:+	22	319
2441	TENM2	ORF1	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000520394	chr5:167685690:+>chr5:167687288:+	22	319
2442	TENM2	ORF1	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000403607	chr5:167685690:+>chr5:167687288:+	22	319
2443	PODXL	ORF3	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000446198	chr7:131202421:->chr7:131196192:-	28	319
2444	NCAM2	ORF1	chr21:22829258:+:MLT1A0>chr21:22838927:+:ENST00000400546	chr21:22829258:+>chr21:22838927:+	32	318
2445	NCAM2	ORF1	chr21:22829258:+:MLT1A0>chr21:22838927:+:ENST00000284894	chr21:22829258:+>chr21:22838927:+	32	318
2446	TENM2	ORF1	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000518659	chr5:167682673:+>chr5:167687288:+	21	318
2447	TENM2	ORF1	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000545108	chr5:167682673:+>chr5:167687288:+	21	318
2448	TENM2	ORF1	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000519204	chr5:167682673:+>chr5:167687288:+	21	318
2449	TENM2	ORF1	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000520394	chr5:167682673:+>chr5:167687288:+	21	318
2450	TENM2	ORF1	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000403607	chr5:167682673:+>chr5:167687288:+	21	318
2451	CLMP	ORF2	chr11:122966541:-:MER31B>chr11:122955421:-:ENST00000448775	chr11:122966541:->chr11:122955421:-	7	318
2452	JPH2	ORF3	chr20:42754145:-:MIRb>chr20:42747263:-:ENST00000372980	chr20:42754145:->chr20:42747263:-	10	317
2453	APLP1	ORF1	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000592316	chr19:36361472:+>chr19:36361798:+	23	317
2454	MTNR1B	ORF3	chr11:92710953:+:L2c>chr11:92714613:+:ENST00000257068	chr11:92710953:+>chr11:92714613:+	29	317
2455	KCNK3	ORF2	chr2:26947428:+:MIR>chr2:26950535:+:ENST00000302909	chr2:26947428:+>chr2:26950535:+	15	315
2456	GABRA3	ORF1	chrX:151410406:-:L1PA2>chrX:151393317:-:ENST00000370314	chrX:151410406:->chrX:151393317:-	6	315
2457	GABRA3	ORF1	chrX:151410406:-:L1PA2>chrX:151393317:-:ENST00000535043	chrX:151410406:->chrX:151393317:-	6	315
2458	TRPM1	ORF3	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000560658	chr15:31365913:->chr15:31362429:-	20	315
2459	ZDHHC5	ORF2	chr11:57452387:+:AluSx1>chr11:57455980:+:ENST00000529447	chr11:57452387:+>chr11:57455980:+	16	315
2460	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000009530	chr5:149925791:->chr5:149792301:-	21	314
2461	TTYH1	ORF3	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000391739	chr19:54930864:+>chr19:54932451:+	11	314
2462	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000376389	chr6:30708813:->chr6:30708539:-	17	314
2463	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000456573	chr6:30708813:->chr6:30708539:-	17	314
2464	CD74	ORF2	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000009530	chr5:149832091:->chr5:149792292:-	22	312
2465	FLOT1	ORF3	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000376389	chr6:30708853:->chr6:30708575:-	3	312
2466	FLOT1	ORF3	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000456573	chr6:30708853:->chr6:30708575:-	3	312
2467	TMPRSS4	ORF2	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000519236	chr11:117970832:+>chr11:117973816:+	26	311
2468	CDH3	ORF1	chr16:68708802:+:AluSx4>chr16:68719173:+:ENST00000429102	chr16:68708802:+>chr16:68719173:+	22	310
2469	ENPP1	ORF2	chr6:132199303:+:AluJr>chr6:132199682:+:ENST00000360971	chr6:132199303:+>chr6:132199682:+	16	310
2470	BACE2	ORF3	chr21:42597622:+:L1ME2>chr21:42598193:+:ENST00000328735	chr21:42597622:+>chr21:42598193:+	16	308
2471	SLC13A3	ORF3	chr20:45296205:-:MIR>chr20:45242364:-:ENST00000420568	chr20:45296205:->chr20:45242364:-	7	308
2472	SLC13A3	ORF3	chr20:45296205:-:MIR>chr20:45242364:-:ENST00000372121	chr20:45296205:->chr20:45242364:-	7	308
2473	C1orf186	ORF2	chr1:206276891:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206276891:->chr1:206243250:-	139	308
2474	KCNK3	ORF1	chr2:26947428:+:MIR>chr2:26950535:+:ENST00000302909	chr2:26947428:+>chr2:26950535:+	6	307
2475	TTYH1	ORF2	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000391739	chr19:54930716:+>chr19:54932451:+	4	307
2476	KREMEN1	ORF2	chr22:29519837:+:L1ME1>chr22:29521251:+:ENST00000400335	chr22:29519837:+>chr22:29521251:+	7	306
2477	BACE2	ORF3	chr21:42597622:+:L1ME2>chr21:42598199:+:ENST00000328735	chr21:42597622:+>chr21:42598199:+	16	306
2478	PLXNB3	ORF2	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000538282	chrX:152238123:+>chrX:153039148:+	13	305
2479	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000263846	chr11:61296834:->chr11:61295564:-	50	305
2480	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000540677	chr11:61296834:->chr11:61295564:-	50	305
2481	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000539008	chr11:61296834:->chr11:61295564:-	50	305
2482	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000542836	chr11:61296834:->chr11:61295564:-	50	305
2483	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000542670	chr11:61296834:->chr11:61295564:-	50	305
2484	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000535826	chr11:61296834:->chr11:61295564:-	50	305
2485	CDH26	ORF2	chr20:58570217:+:MER77B>chr20:58570888:+:ENST00000244047	chr20:58570217:+>chr20:58570888:+	8	305
2486	CDH26	ORF2	chr20:58570217:+:MER77B>chr20:58570888:+:ENST00000370991	chr20:58570217:+>chr20:58570888:+	8	305
2487	SPP1	ORF3	chr4:88900927:+:MIR>chr4:88901198:+:ENST00000395080	chr4:88900927:+>chr4:88901198:+	22	305
2488	EPCAM	ORF2	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000405271	chr2:47599545:+>chr2:47600602:+	16	305
2489	EPCAM	ORF2	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000456133	chr2:47599545:+>chr2:47600602:+	16	305
2490	EPCAM	ORF2	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000263735	chr2:47599545:+>chr2:47600602:+	16	305
2491	IFNGR2	ORF2	chr21:34783881:+:MLT1D>chr21:34793787:+:ENST00000290219	chr21:34783881:+>chr21:34793787:+	35	304
2492	IFNGR2	ORF2	chr21:34783881:+:MLT1D>chr21:34793787:+:ENST00000381995	chr21:34783881:+>chr21:34793787:+	35	304
2493	LIG1	ORF1	chr19:48654725:-:AluSq2>chr19:48654596:-:ENST00000542460	chr19:48654725:->chr19:48654596:-	11	303
2494	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000409582	chr2:71895374:+>chr2:71895884:+	3	303
2495	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000409762	chr2:71895374:+>chr2:71895884:+	3	303
2496	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000413539	chr2:71895374:+>chr2:71895884:+	3	303
2497	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000429174	chr2:71895374:+>chr2:71895884:+	3	303
2498	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000258104	chr2:71895374:+>chr2:71895884:+	3	303
2499	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000394120	chr2:71895374:+>chr2:71895884:+	3	303
2500	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000409366	chr2:71895374:+>chr2:71895884:+	3	303
2501	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000409651	chr2:71895374:+>chr2:71895884:+	3	303

Table 15

2502	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000409744	chr2:71895374:+>chr2:71895884:+	3	303
2503	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000410020	chr2:71895374:+>chr2:71895884:+	3	303
2504	DYSF	ORF2	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000410041	chr2:71895374:+>chr2:71895884:+	3	303
2505	LIG1	ORF1	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000542460	chr19:48654725:->chr19:48654593:-	11	302
2506	SGCZ	ORF1	chr8:14336605:-:MLT2A2>chr8:14181713:-:ENST00000382080	chr8:14336605:->chr8:14181713:-	65	299
2507	BAI1	ORF3	chr8:143592168:+:G-rich>chr8:143592293:+:ENST00000521208	chr8:143592168:+>chr8:143592293:+	30	298
2508	BACE2	ORF2	chr21:42582959:+:MER49>chr21:42609440:+:ENST00000328735	chr21:42582959:+>chr21:42609440:+	34	297
2509	GPM6B	ORF3	chrX:13907571:-:L2a>chrX:13825888:-:ENST00000355135	chrX:13907571:->chrX:13825888:-	12	297
2510	LAIR1	ORF2	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000391742	chr19:54880625:->chr19:54875937:-	20	296
2511	SGCB	ORF2	chr4:52897995:-:HAL1>chr4:52896029:-:ENST00000381431	chr4:52897995:->chr4:52896029:-	59	296
2512	SGCB	ORF2	chr4:52897995:-:HAL1>chr4:52896029:-:ENST00000535450	chr4:52897995:->chr4:52896029:-	59	296
2513	BACE2	ORF2	chr21:42486386:+:AluSx>chr21:42609440:+:ENST00000328735	chr21:42486386:+>chr21:42609440:+	32	295
2514	BACE2	ORF2	chr21:42434652:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42434652:+>chr21:42609440:+	32	295
2515	ADORA2B	ORF1	chr17:15873143:+:L2c>chr17:15877993:+:ENST00000304222	chr17:15873143:+>chr17:15877993:+	74	295
2516	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000009530	chr5:149925791:->chr5:149792270:-	13	295
2517	LAIR1	ORF2	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000434277	chr19:54880625:->chr19:54875937:-	20	295
2518	LAIR1	ORF2	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000313038	chr19:54880625:->chr19:54875937:-	20	295
2519	NRP1	ORF3	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374823	chr10:33505616:->chr10:33502645:-	17	294
2520	SPP1	ORF2	chr4:88899331:+:L1ME4a>chr4:88901198:+:ENST00000395080	chr4:88899331:+>chr4:88901198:+	11	294
2521	EPHB4	ORF3	chr7:100406098:-:AluJr>chr7:100405202:-:ENST00000358173	chr7:100406098:->chr7:100405202:-	12	293
2522	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000263846	chr11:61296834:->chr11:61295647:-	10	293
2523	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000540677	chr11:61296834:->chr11:61295647:-	10	293
2524	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000539008	chr11:61296834:->chr11:61295647:-	10	293
2525	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000542836	chr11:61296834:->chr11:61295647:-	10	293
2526	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000542670	chr11:61296834:->chr11:61295647:-	10	293
2527	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000535826	chr11:61296834:->chr11:61295647:-	10	293
2528	SLC22A16	ORF3	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000434949	chr6:110774731:->chr6:110768193:-	33	293
2529	ERBB3	ORF3	chr12:56489931:+:MIRc>chr12:56490287:+:ENST00000551085	chr12:56489931:+>chr12:56490287:+	57	293
2530	EPHB4	ORF2	chr7:100406048:-:AluJr>chr7:100405202:-:ENST00000358173	chr7:100406048:->chr7:100405202:-	11	292
2531	ATP11A	ORF3	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000471555	chr13:113507475:+>chr13:113508593:+	24	292
2532	SLC28A1	ORF1	chr15:85472633:+:AluSx1>chr15:85478257:+:ENST00000286749	chr15:85472633:+>chr15:85478257:+	46	291
2533	SLC28A1	ORF1	chr15:85472633:+:AluSx1>chr15:85478257:+:ENST00000394573	chr15:85472633:+>chr15:85478257:+	46	291
2534	SPP1	ORF3	chr4:88900927:+:MIR>chr4:88901198:+:ENST00000237623	chr4:88900927:+>chr4:88901198:+	22	291
2535	CDH3	ORF2	chr16:68708802:+:AluSx4>chr16:68719205:+:ENST00000429102	chr16:68708802:+>chr16:68719205:+	13	290
2536	AMICA1	ORF1	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000526595	chr11:118082875:->chr11:118081427:-	10	288
2537	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000595208	chr19:14876876:->chr19:14876616:-	12	287
2538	CLEC12A	ORF2	chr12:10105636:+:SVA_F>chr12:10124176:+:ENST00000355690	chr12:10105636:+>chr12:10124176:+	14	286
2539	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000376389	chr6:30708813:->chr6:30708368:-	17	286
2540	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000456573	chr6:30708813:->chr6:30708368:-	17	286
2541	PTPRA	ORF3	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000380393	chr20:2977512:+>chr20:3007336:+	23	286
2542	PTPRA	ORF3	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000216877	chr20:2977512:+>chr20:3007336:+	23	286
2543	PTPRA	ORF3	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000358719	chr20:2977512:+>chr20:3007336:+	23	286
2544	PTPRA	ORF3	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000399903	chr20:2977512:+>chr20:3007336:+	23	286
2545	PTPRA	ORF3	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000425918	chr20:2977512:+>chr20:3007336:+	23	286
2546	PTPRA	ORF3	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000318266	chr20:2977512:+>chr20:3007336:+	23	286
2547	PTPRA	ORF3	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000356147	chr20:2977512:+>chr20:3007336:+	23	286
2548	CLEC12A	ORF1	chr12:10105596:+:SVA_F>chr12:10124176:+:ENST00000355690	chr12:10105596:+>chr12:10124176:+	14	286
2549	SCNN1A	ORF3	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000396966	chr12:6471665:->chr12:6471407:-	3	286
2550	STRA6	ORF2	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000569936	chr15:74486835:->chr15:74486263:-	7	285
2551	SLC30A8	ORF1	chr8:117963358:+:MIR3>chr8:118165183:+:ENST00000521243	chr8:117963358:+>chr8:118165183:+	6	285
2552	SLC30A8	ORF1	chr8:117963358:+:MIR3>chr8:118165183:+:ENST00000427715	chr8:117963358:+>chr8:118165183:+	6	285
2553	SLC30A8	ORF1	chr8:117963358:+:MIR3>chr8:118165183:+:ENST00000519688	chr8:117963358:+>chr8:118165183:+	6	285
2554	SLC30A8	ORF1	chr8:117963358:+:MIR3>chr8:118165183:+:ENST00000456015	chr8:117963358:+>chr8:118165183:+	6	285
2555	CDH26	ORF2	chr20:58570217:+:MER77B>chr20:58570888:+:ENST00000348616	chr20:58570217:+>chr20:58570888:+	8	285
2556	CD86	ORF2	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000478741	chr3:121681042:+>chr3:121810448:+	7	284
2557	SGCB	ORF2	chr4:52898031:-:HAL1>chr4:52896029:-:ENST00000381431	chr4:52898031:->chr4:52896029:-	47	284
2558	SGCB	ORF2	chr4:52898031:-:HAL1>chr4:52896029:-:ENST00000535450	chr4:52898031:->chr4:52896029:-	47	284
2559	BACE2	ORF2	chr21:42609159:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42609159:+>chr21:42609440:+	21	284
2560	BACE2	ORF1	chr21:42609191:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42609191:+>chr21:42609440:+	21	284
2561	IL17RE	ORF3	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000421412	chr3:9953735:+>chr3:9955640:+	24	282
2562	IL17RE	ORF3	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000295980	chr3:9953735:+>chr3:9955640:+	24	282
2563	IL17RE	ORF3	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000383814	chr3:9953735:+>chr3:9955640:+	24	282
2564	BACE2	ORF3	chr21:42609349:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42609349:+>chr21:42609440:+	18	281
2565	SLC22A9	ORF3	chr11:63141738:+:MER53>chr11:63143117:+:ENST00000279178	chr11:63141738:+>chr11:63143117:+	4	281
2566	EVC	ORF3	chr4:5743953:+:MIRb>chr4:5746931:+:ENST00000509451	chr4:5743953:+>chr4:5746931:+	13	281
2567	GPM6B	ORF3	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000316715	chrX:13907571:->chrX:13803927:-	12	280
2568	GPM6B	ORF3	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000493677	chrX:13907571:->chrX:13803927:-	12	280
2569	SPP1	ORF2	chr4:88899331:+:L1ME4a>chr4:88901198:+:ENST00000237623	chr4:88899331:+>chr4:88901198:+	11	280
2570	LAIR1	ORF2	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000348231	chr19:54880625:->chr19:54875937:-	20	279
2571	GPR37L1	ORF2	chr1:202036765:+:ERV3-16A3_I-int>chr1:202096869:+:ENST00000367282	chr1:202036765:+>chr1:202096869:+	7	278
2572	SLC28A1	ORF1	chr15:85472633:+:AluSx1>chr15:85478257:+:ENST00000537624	chr15:85472633:+>chr15:85478257:+	46	278
2573	LAIR1	ORF2	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000474878	chr19:54880625:->chr19:54875937:-	20	278

Table 15

2574	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000442151	chr11:35110122:+>chr11:35198122:+	5	277
2575	TFRC	ORF2	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000420415	chr3:195788242:->chr3:195787118:-	5	276
2576	TFRC	ORF2	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000360110	chr3:195788242:->chr3:195787118:-	5	276
2577	TFRC	ORF2	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000392396	chr3:195788242:->chr3:195787118:-	5	276
2578	TFRC	ORF2	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000535031	chr3:195788242:->chr3:195787118:-	5	276
2579	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000442151	chr11:35195735:+>chr11:35198122:+	4	276
2580	SLC47A2	ORF3	chr17:19608172:-:AluSx3>chr17:19607491:-:ENST00000325411	chr17:19608172:->chr17:19607491:-	13	276
2581	SLC47A2	ORF3	chr17:19608172:-:AluSx3>chr17:19607491:-:ENST00000350657	chr17:19608172:->chr17:19607491:-	13	276
2582	PPAP2A	ORF1	chr5:54781916:-:L1ME4a>chr5:54771278:-:ENST00000307259	chr5:54781916:->chr5:54771278:-	10	275
2583	GPR37L1	ORF3	chr1:202096306:+:MIRb>chr1:202096869:+:ENST00000367282	chr1:202096306:+>chr1:202096869:+	4	275
2584	TMEM260	ORF2	chr14:56982236:+:THE1C>chr14:57051719:+:ENST00000539559	chr14:56982236:+>chr14:57051719:+	4	275
2585	ABHD2	ORF2	chr15:89717675:+:MER5A>chr15:89719043:+:ENST00000352732	chr15:89717675:+>chr15:89719043:+	29	275
2586	ABHD2	ORF2	chr15:89717675:+:MER5A>chr15:89719043:+:ENST00000565973	chr15:89717675:+>chr15:89719043:+	29	275
2587	ABHD2	ORF2	chr15:89717675:+:MER5A>chr15:89719043:+:ENST00000355100	chr15:89717675:+>chr15:89719043:+	29	275
2588	LDLR	ORF2	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000558518	chr19:11230510:+>chr19:11230768:+	29	274
2589	LDLR	ORF2	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000455727	chr19:11230510:+>chr19:11230768:+	29	274
2590	LDLR	ORF2	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000535915	chr19:11230510:+>chr19:11230768:+	29	274
2591	LDLR	ORF2	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000252444	chr19:11230510:+>chr19:11230768:+	29	274
2592	CA12	ORF1	chr15:63668160:-:AluSp>chr15:63667877:-:ENST00000422263	chr15:63668160:->chr15:63667877:-	18	273
2593	FOLH1	ORF3	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000256999	chr11:49184443:->chr11:49179595:-	3	273
2594	FOLH1	ORF3	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000343844	chr11:49184443:->chr11:49179595:-	3	273
2595	FOLH1	ORF3	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000340334	chr11:49184443:->chr11:49179595:-	3	273
2596	LDLR	ORF2	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000558013	chr19:11230510:+>chr19:11230768:+	29	272
2597	GPM6B	ORF3	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000316715	chrX:13921670:->chrX:13803927:-	3	271
2598	GPM6B	ORF3	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000493677	chrX:13921670:->chrX:13803927:-	3	271
2599	LIG1	ORF1	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000263274	chr19:48627044:->chr19:48626575:-	17	268
2600	LIG1	ORF1	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000536218	chr19:48627044:->chr19:48626575:-	17	268
2601	LIG1	ORF1	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000427526	chr19:48627044:->chr19:48626575:-	17	268
2602	TSPAN15	ORF3	chr10:71236002:+:L1M5>chr10:71243447:+:ENST00000373290	chr10:71236002:+>chr10:71243447:+	6	268
2603	GRPR	ORF1	chrX:16026822:+:L2c>chrX:16168428:+:ENST00000380289	chrX:16026822:+>chrX:16168428:+	20	267
2604	CACNG4	ORF3	chr17:64988129:+:L2c>chr17:65014305:+:ENST00000262138	chr17:64988129:+>chr17:65014305:+	13	267
2605	CA12	ORF2	chr15:63638317:-:MIRb>chr15:63637818:-:ENST00000178638	chr15:63638317:->chr15:63637818:-	8	267
2606	SLC47A2	ORF3	chr17:19608298:-:AluSx3>chr17:19607491:-:ENST00000325411	chr17:19608298:->chr17:19607491:-	4	267
2607	SLC47A2	ORF3	chr17:19608298:-:AluSx3>chr17:19607491:-:ENST00000350657	chr17:19608298:->chr17:19607491:-	4	267
2608	LGR6	ORF2	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000487787	chr1:202205792:+>chr1:202245434:+	8	266
2609	CELSR1	ORF1	chr22:46891300:-:Tigger3b>chr22:46860242:-:ENST00000395964	chr22:46891300:->chr22:46860242:-	50	266
2610	CELSR1	ORF1	chr22:46891300:-:Tigger3b>chr22:46860242:-:ENST00000454637	chr22:46891300:->chr22:46860242:-	50	266
2611	BTLA	ORF1	chr3:112200031:-:MSTD-int>chr3:112198616:-:ENST00000334529	chr3:112200031:->chr3:112198616:-	5	265
2612	ATP1A3	ORF3	chr19:42479404:-:AluSc8>chr19:42474642:-:ENST00000302102	chr19:42479404:->chr19:42474642:-	23	265
2613	ATP1A3	ORF3	chr19:42479404:-:AluSc8>chr19:42474642:-:ENST00000545399	chr19:42479404:->chr19:42474642:-	23	265
2614	ATP1A3	ORF3	chr19:42479404:-:AluSc8>chr19:42474642:-:ENST00000543770	chr19:42479404:->chr19:42474642:-	23	265
2615	ATP1A3	ORF3	chr19:42479404:-:AluSc8>chr19:42474642:-:ENST00000602133	chr19:42479404:->chr19:42474642:-	23	265
2616	APCDD1	ORF2	chr18:10479692:+:MIRc>chr18:10485459:+:ENST00000355285	chr18:10479692:+>chr18:10485459:+	8	264
2617	ANPEP	ORF1	chr15:90337031:-:L1ME4a>chr15:90336357:-:ENST00000300060	chr15:90337031:->chr15:90336357:-	16	264
2618	SLC7A8	ORF2	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000469263	chr14:23669913:->chr14:23635749:-	25	264
2619	GABBR2	ORF2	chr9:101067129:-:AluJb>chr9:101065705:-:ENST00000259455	chr9:101067129:->chr9:101065705:-	66	264
2620	ADAM22	ORF2	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000439864	chr7:87600690:+>chr7:87607651:+	3	263
2621	BTLA	ORF1	chr3:112200259:-:MSTD-int>chr3:112198616:-:ENST00000334529	chr3:112200259:->chr3:112198616:-	3	263
2622	FAIM2	ORF2	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000320634	chr12:50292556:->chr12:50291869:-	17	262
2623	FAIM2	ORF2	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000550890	chr12:50292556:->chr12:50291869:-	17	262
2624	FAS	ORF1	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000352159	chr10:90713663:+>chr10:90762786:+	38	261
2625	TREM1	ORF1	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000589614	chr6:41259171:->chr6:41250489:-	25	259
2626	IMP4	ORF2	chr2:131058851:+:REP522>chr2:131102202:+:ENST00000259239	chr2:131058851:+>chr2:131102202:+	5	259
2627	IMP4	ORF2	chr2:131058851:+:REP522>chr2:131102202:+:ENST00000452955	chr2:131058851:+>chr2:131102202:+	5	259
2628	GPM6B	ORF3	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000454189	chrX:13907571:->chrX:13803927:-	12	257
2629	GPM6B	ORF3	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000355135	chrX:13907571:->chrX:13803927:-	12	257
2630	GPM6B	ORF3	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000356942	chrX:13907571:->chrX:13803927:-	12	257
2631	BSG	ORF1	chr19:574231:+:AluSx>chr19:579500:+:ENST00000333511	chr19:574231:+>chr19:579500:+	10	257
2632	BSG	ORF1	chr19:574231:+:AluSx>chr19:579500:+:ENST00000353555	chr19:574231:+>chr19:579500:+	10	257
2633	LDLR	ORF2	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000558518	chr19:11230008:+>chr19:11230768:+	12	257
2634	LDLR	ORF2	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000455727	chr19:11230008:+>chr19:11230768:+	12	257
2635	LDLR	ORF2	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000535915	chr19:11230008:+>chr19:11230768:+	12	257
2636	LDLR	ORF2	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000252444	chr19:11230008:+>chr19:11230768:+	12	257
2637	CA12	ORF2	chr15:63638317:-:MIRb>chr15:63637818:-:ENST00000344366	chr15:63638317:->chr15:63637818:-	8	256
2638	CA12	ORF2	chr15:63638317:-:MIRb>chr15:63637818:-:ENST00000422263	chr15:63638317:->chr15:63637818:-	8	256
2639	TSPAN14	ORF1	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000429989	chr10:82214127:+>chr10:82264484:+	12	255
2640	TSPAN14	ORF1	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000372158	chr10:82214127:+>chr10:82264484:+	12	255
2641	TSPAN14	ORF1	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000372156	chr10:82214127:+>chr10:82264484:+	12	255
2642	LDLR	ORF2	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000558013	chr19:11230008:+>chr19:11230768:+	12	255
2643	FAIM2	ORF2	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000552669	chr12:50292556:->chr12:50291869:-	17	254
2644	SLC2A1	ORF1	chr1:43427043:-:L2b>chr1:43408992:-:ENST00000372500	chr1:43427043:->chr1:43408992:-	26	254
2645	ENG	ORF1	chr9:130581417:-:AluY>chr9:130581111:-:ENST00000373203	chr9:130581417:->chr9:130581111:-	33	254

Table 15

2646	SLC7A8	ORF2	chr14:23642341:-:L2c>chr14:23635749:-:ENST00000469263	chr14:23642341:->chr14:23635749:-	15	254
2647	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000525211	chr11:35110122:+>chr11:35198122:+	5	253
2648	EPCAM	ORF1	chr2:47596600:+:LTR41B>chr2:47596660:+:ENST00000419334	chr2:47596600:+>chr2:47596660:+	59	253
2649	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000525211	chr11:35195735:+>chr11:35198122:+	4	252
2650	BSG	ORF1	chr19:571098:+:LTR10B>chr19:579500:+:ENST00000333511	chr19:571098:+>chr19:579500:+	5	252
2651	BSG	ORF1	chr19:571098:+:LTR10B>chr19:579500:+:ENST00000353555	chr19:571098:+>chr19:579500:+	5	252
2652	ENG	ORF3	chr9:130581331:-:AluY>chr9:130581111:-:ENST00000373203	chr9:130581331:->chr9:130581111:-	30	251
2653	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000353334	chr5:149925791:->chr5:149792301:-	21	250
2654	STRA6	ORF3	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000395105	chr15:74475786:->chr15:74474801:-	16	250
2655	STRA6	ORF3	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000423167	chr15:74475786:->chr15:74474801:-	16	250
2656	STRA6	ORF3	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000323940	chr15:74475786:->chr15:74474801:-	16	250
2657	STRA6	ORF3	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000449139	chr15:74475786:->chr15:74474801:-	16	250
2658	STRA6	ORF3	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000416286	chr15:74475786:->chr15:74474801:-	16	250
2659	STRA6	ORF3	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000535552	chr15:74475786:->chr15:74474801:-	16	250
2660	STRA6	ORF3	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000563965	chr15:74475786:->chr15:74474801:-	16	250
2661	STRA6	ORF3	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000574278	chr15:74475786:->chr15:74474801:-	16	250
2662	SLC22A16	ORF3	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000437378	chr6:110774731:->chr6:110768193:-	33	250
2663	SLC2A5	ORF2	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000377414	chr1:9128439:->chr1:9118309:-	17	250
2664	ITM2B	ORF2	chr13:48791589:+:THE1C-int>chr13:48827944:+:ENST00000378565	chr13:48791589:+>chr13:48827944:+	22	249
2665	LPCAT1	ORF1	chr5:1475076:-:Tigger1>chr5:1474800:-:ENST00000475622	chr5:1475076:->chr5:1474800:-	14	249
2666	LPCAT1	ORF1	chr5:1475076:-:Tigger1>chr5:1474800:-:ENST00000283415	chr5:1475076:->chr5:1474800:-	14	249
2667	CELSR1	ORF1	chr22:46887031:-:MER20>chr22:46860242:-:ENST00000395964	chr22:46887031:->chr22:46860242:-	33	249
2668	CELSR1	ORF1	chr22:46887031:-:MER20>chr22:46860242:-:ENST00000454637	chr22:46887031:->chr22:46860242:-	33	249
2669	CD74	ORF2	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000353334	chr5:149832091:->chr5:149792292:-	22	248
2670	FAS	ORF1	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000355279	chr10:90713663:+>chr10:90762786:+	38	248
2671	GPM6B	ORF3	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000454189	chrX:13921670:->chrX:13803927:-	3	248
2672	GPM6B	ORF3	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000355135	chrX:13921670:->chrX:13803927:-	3	248
2673	GPM6B	ORF3	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000356942	chrX:13921670:->chrX:13803927:-	3	248
2674	SLC6A20	ORF3	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000413781	chr3:45821882:->chr3:45821592:-	23	247
2675	SLC7A8	ORF3	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000316902	chr14:23607547:->chr14:23607233:-	15	246
2676	SLC7A8	ORF3	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000453702	chr14:23607547:->chr14:23607233:-	15	246
2677	SLC7A8	ORF3	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000529705	chr14:23607547:->chr14:23607233:-	15	246
2678	SLC7A8	ORF3	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000422941	chr14:23607547:->chr14:23607233:-	15	246
2679	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000424093	chr21:42883790:->chr21:42866505:-	31	245
2680	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000526000	chr11:35110122:+>chr11:35198122:+	5	245
2681	COL23A1	ORF2	chr5:178001896:-:L3>chr5:177987749:-:ENST00000407622	chr5:178001896:->chr5:177987749:-	6	244
2682	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000526000	chr11:35195735:+>chr11:35198122:+	4	244
2683	SCNN1A	ORF2	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000360168	chr12:6462453:->chr12:6458571:-	28	244
2684	SCNN1A	ORF2	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000358945	chr12:6462453:->chr12:6458571:-	28	244
2685	SCNN1A	ORF2	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000540037	chr12:6462453:->chr12:6458571:-	28	244
2686	SCNN1A	ORF2	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000228916	chr12:6462453:->chr12:6458571:-	28	244
2687	SCNN1A	ORF2	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000543768	chr12:6462453:->chr12:6458571:-	28	244
2688	EPCAM	ORF1	chr2:47596570:+:LTR41B>chr2:47596660:+:ENST00000419334	chr2:47596570:+>chr2:47596660:+	49	243
2689	TREM1	ORF1	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000244709	chr6:41259171:->chr6:41250489:-	25	243
2690	FGFR2	ORF1	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000359354	chr10:123351280:->chr10:123325218:-	25	243
2691	HCN2	ORF2	chr19:615278:+:AluY>chr19:615795:+:ENST00000251287	chr19:615278:+>chr19:615795:+	16	242
2692	CD82	ORF3	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000227155	chr11:44626051:+>chr11:44626608:+	20	242
2693	SLC10A7	ORF3	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000507030	chr4:147297909:->chr4:147247148:-	29	242
2694	SLC10A7	ORF3	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000394062	chr4:147297909:->chr4:147247148:-	29	242
2695	FOLH1	ORF3	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000356696	chr11:49184443:->chr11:49179595:-	3	242
2696	FOLH1	ORF3	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000533034	chr11:49184443:->chr11:49179595:-	3	242
2697	EPHB4	ORF3	chr7:100406098:-:AluJr>chr7:100405202:-:ENST00000360620	chr7:100406098:->chr7:100405202:-	12	241
2698	EPHB4	ORF2	chr7:100406048:-:AluJr>chr7:100405202:-:ENST00000360620	chr7:100406048:->chr7:100405202:-	11	240
2699	CD79A	ORF3	chr19:42382564:+:MIR>chr19:42383060:+:ENST00000597454	chr19:42382564:+>chr19:42383060:+	8	240
2700	CD74	ORF2	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000518797	chr5:149842358:->chr5:149786754:-	5	240
2701	GPR143	ORF1	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000467482	chrX:9715893:->chrX:9714193:-	17	239
2702	GPR143	ORF1	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000380929	chrX:9715893:->chrX:9714193:-	17	239
2703	C1orf186	ORF3	chr1:206263869:-:Tigger4>chr1:206243250:-:ENST00000331555	chr1:206263869:->chr1:206243250:-	69	238
2704	SLC2A1	ORF3	chr1:43419630:-:MIRb>chr1:43408992:-:ENST00000372500	chr1:43419630:->chr1:43408992:-	10	238
2705	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474801:-:ENST00000395105	chr15:74475594:->chr15:74474801:-	4	238
2706	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474801:-:ENST00000423167	chr15:74475594:->chr15:74474801:-	4	238
2707	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474801:-:ENST00000323940	chr15:74475594:->chr15:74474801:-	4	238
2708	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474801:-:ENST00000449139	chr15:74475594:->chr15:74474801:-	4	238
2709	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474801:-:ENST00000416286	chr15:74475594:->chr15:74474801:-	4	238
2710	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474801:-:ENST00000535552	chr15:74475594:->chr15:74474801:-	4	238
2711	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474801:-:ENST00000563965	chr15:74475594:->chr15:74474801:-	4	238
2712	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474801:-:ENST00000574278	chr15:74475594:->chr15:74474801:-	4	238
2713	ABCC1	ORF1	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000399410	chr16:16226783:+>chr16:16228207:+	29	238
2714	ABCC1	ORF1	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000346370	chr16:16226783:+>chr16:16228207:+	29	238
2715	ABCC1	ORF1	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000349029	chr16:16226783:+>chr16:16228207:+	29	238
2716	ABCC1	ORF1	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000351154	chr16:16226783:+>chr16:16228207:+	29	238
2717	ABCC1	ORF1	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000399408	chr16:16226783:+>chr16:16228207:+	29	238

Table 15

2718	ABCC1	ORF1	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000572882	chr16:16226783:+>chr16:16228207:+	29	238
2719	TMEM8C	ORF3	chr9:136393545:-:MIRc>chr9:136389925:-:ENST00000339996	chr9:136393545:->chr9:136389925:-	29	237
2720	C1orf186	ORF3	chr1:206276560:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206276560:->chr1:206243250:-	66	235
2721	RHBG	ORF1	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000537040	chr1:156337862:+>chr1:156339110:+	30	235
2722	NRP1	ORF3	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374822	chr10:33505616:->chr10:33502645:-	17	234
2723	TREM1	ORF1	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000591620	chr6:41259171:->chr6:41250489:-	25	234
2724	TSPAN14	ORF2	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000429989	chr10:82228443:+>chr10:82266984:+	8	234
2725	TSPAN14	ORF2	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000372164	chr10:82228443:+>chr10:82266984:+	8	234
2726	TSPAN14	ORF2	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000372158	chr10:82228443:+>chr10:82266984:+	8	234
2727	TSPAN14	ORF2	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000372156	chr10:82228443:+>chr10:82266984:+	8	234
2728	GGT1	ORF2	chr22:25020113:+:L2>chr22:25023399:+:ENST00000248923	chr22:25020113:+>chr22:25023399:+	5	234
2729	GGT1	ORF2	chr22:25020113:+:L2>chr22:25023399:+:ENST00000400382	chr22:25020113:+>chr22:25023399:+	5	234
2730	GGT1	ORF2	chr22:25020113:+:L2>chr22:25023399:+:ENST00000400383	chr22:25020113:+>chr22:25023399:+	5	234
2731	GGT1	ORF2	chr22:25020113:+:L2>chr22:25023399:+:ENST00000400380	chr22:25020113:+>chr22:25023399:+	5	234
2732	GGT1	ORF2	chr22:25020113:+:L2>chr22:25023399:+:ENST00000406383	chr22:25020113:+>chr22:25023399:+	5	234
2733	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474787:-:ENST00000395105	chr15:74475594:->chr15:74474787:-	4	233
2734	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474787:-:ENST00000423167	chr15:74475594:->chr15:74474787:-	4	233
2735	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474787:-:ENST00000323940	chr15:74475594:->chr15:74474787:-	4	233
2736	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474787:-:ENST00000449139	chr15:74475594:->chr15:74474787:-	4	233
2737	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474787:-:ENST00000416286	chr15:74475594:->chr15:74474787:-	4	233
2738	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474787:-:ENST00000535552	chr15:74475594:->chr15:74474787:-	4	233
2739	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474787:-:ENST00000563965	chr15:74475594:->chr15:74474787:-	4	233
2740	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474787:-:ENST00000574278	chr15:74475594:->chr15:74474787:-	4	233
2741	ADORA2B	ORF3	chr17:15873282:+:L2c>chr17:15877993:+:ENST00000304222	chr17:15873282:+>chr17:15877993:+	12	233
2742	CLIC6	ORF1	chr21:36059322:+:MLT1H1>chr21:36079578:+:ENST00000349499	chr21:36059322:+>chr21:36079578:+	5	233
2743	CLIC6	ORF1	chr21:36059322:+:MLT1H1>chr21:36079578:+:ENST00000360731	chr21:36059322:+>chr21:36079578:+	5	233
2744	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474784:-:ENST00000395105	chr15:74475594:->chr15:74474784:-	4	232
2745	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474784:-:ENST00000423167	chr15:74475594:->chr15:74474784:-	4	232
2746	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474784:-:ENST00000323940	chr15:74475594:->chr15:74474784:-	4	232
2747	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474784:-:ENST00000449139	chr15:74475594:->chr15:74474784:-	4	232
2748	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474784:-:ENST00000416286	chr15:74475594:->chr15:74474784:-	4	232
2749	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474784:-:ENST00000535552	chr15:74475594:->chr15:74474784:-	4	232
2750	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474784:-:ENST00000563965	chr15:74475594:->chr15:74474784:-	4	232
2751	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474784:-:ENST00000574278	chr15:74475594:->chr15:74474784:-	4	232
2752	NOTCH3	ORF1	chr19:15297447:-:AluSx>chr19:15296490:-:ENST00000263388	chr19:15297447:->chr19:15296490:-	23	231
2753	NRP1	ORF3	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374816	chr10:33505616:->chr10:33502645:-	17	231
2754	SLC2A1	ORF1	chr1:43409704:-:MIR3>chr1:43408992:-:ENST00000372500	chr1:43409704:->chr1:43408992:-	3	231
2755	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000353334	chr5:149925791:->chr5:149792270:-	13	231
2756	EMR2	ORF1	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000392962	chr19:14876876:->chr19:14876616:-	12	229
2757	NKAIN4	ORF2	chr20:61882315:-:LTR13>chr20:61881424:-:ENST00000370316	chr20:61882315:->chr20:61881424:-	38	228
2758	SLC38A6	ORF1	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000354886	chr14:61516792:+>chr14:61517230:+	14	227
2759	SLC38A6	ORF1	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000451406	chr14:61516792:+>chr14:61517230:+	14	227
2760	ABCC6	ORF3	chr16:16249649:-:L2c>chr16:16248888:-:ENST00000205557	chr16:16249649:->chr16:16248888:-	18	227
2761	GPR98	ORF3	chr5:90396867:+:L1MC4>chr5:90398036:+:ENST00000405460	chr5:90396867:+>chr5:90398036:+	23	226
2762	GPR98	ORF3	chr5:90396867:+:L1MC4>chr5:90398036:+:ENST00000425867	chr5:90396867:+>chr5:90398036:+	23	226
2763	ABCC1	ORF2	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000399410	chr16:16227839:+>chr16:16228207:+	16	225
2764	ABCC1	ORF2	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000346370	chr16:16227839:+>chr16:16228207:+	16	225
2765	ABCC1	ORF2	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000349029	chr16:16227839:+>chr16:16228207:+	16	225
2766	ABCC1	ORF2	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000351154	chr16:16227839:+>chr16:16228207:+	16	225
2767	ABCC1	ORF2	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000399408	chr16:16227839:+>chr16:16228207:+	16	225
2768	ABCC1	ORF2	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000572882	chr16:16227839:+>chr16:16228207:+	16	225
2769	APP	ORF3	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000346798	chr21:27288399:->chr21:27284274:-	17	225
2770	APP	ORF3	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000354192	chr21:27288399:->chr21:27284274:-	17	225
2771	APP	ORF3	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000348990	chr21:27288399:->chr21:27284274:-	17	225
2772	APP	ORF3	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000357903	chr21:27288399:->chr21:27284274:-	17	225
2773	APP	ORF3	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000359726	chr21:27288399:->chr21:27284274:-	17	225
2774	APP	ORF3	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000448388	chr21:27288399:->chr21:27284274:-	17	225
2775	APP	ORF3	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000440126	chr21:27288399:->chr21:27284274:-	17	225
2776	APP	ORF3	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000439274	chr21:27288399:->chr21:27284274:-	17	225
2777	ANO1	ORF1	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000531604	chr11:69933693:+>chr11:69933858:+	9	224
2778	GRAMD2	ORF3	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000564129	chr15:72463983:->chr15:72462280:-	16	224
2779	SLC10A7	ORF3	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000432059	chr4:147297909:->chr4:147247148:-	29	224
2780	SLC10A7	ORF3	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000335472	chr4:147297909:->chr4:147247148:-	29	224
2781	BTN3A2	ORF2	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000527422	chr6:26370250:+>chr6:26370550:+	34	224
2782	BTN3A2	ORF2	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000356386	chr6:26370250:+>chr6:26370550:+	34	224
2783	BTN3A2	ORF2	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000396934	chr6:26370250:+>chr6:26370550:+	34	224
2784	BTN3A2	ORF2	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000377708	chr6:26370250:+>chr6:26370550:+	34	224
2785	BTN3A2	ORF2	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000396948	chr6:26370250:+>chr6:26370550:+	34	224
2786	BTN3A2	ORF2	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000508906	chr6:26370250:+>chr6:26370550:+	34	224
2787	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000360168	chr12:6458996:->chr12:6458387:-	33	223
2788	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000358945	chr12:6458996:->chr12:6458387:-	33	223
2789	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000540037	chr12:6458996:->chr12:6458387:-	33	223

Table 15

2790	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000228916	chr12:6458996:->chr12:6458387:-	33	223
2791	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000543768	chr12:6458996:->chr12:6458387:-	33	223
2792	LDLR	ORF2	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000545707	chr19:11230510:+>chr19:11230768:+	29	223
2793	DSG2	ORF2	chr18:29076818:+:LTR66>chr18:29098202:+:ENST00000585206	chr18:29076818:+>chr18:29098202:+	5	222
2794	HM13	ORF2	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000398174	chr20:30126162:+>chr20:30137867:+	18	222
2795	NKAIN3	ORF2	chr8:63315263:+:THE1C>chr8:63492098:+:ENST00000523211	chr8:63315263:+>chr8:63492098:+	42	221
2796	NKAIN3	ORF2	chr8:63315263:+:THE1C>chr8:63492098:+:ENST00000328472	chr8:63315263:+>chr8:63492098:+	42	221
2797	NTSR1	ORF3	chr20:61385405:+:MIRb>chr20:61386037:+:ENST00000370501	chr20:61385405:+>chr20:61386037:+	41	221
2798	ENG	ORF1	chr9:130581417:-:AluY>chr9:130581111:-:ENST00000344849	chr9:130581417:->chr9:130581111:-	33	221
2799	CD86	ORF2	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000493101	chr3:121681042:+>chr3:121810448:+	7	220
2800	TRPM1	ORF2	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000558445	chr15:31317748:->chr15:31295273:-	17	220
2801	TRPM1	ORF2	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000559177	chr15:31317748:->chr15:31295273:-	17	220
2802	NTSR1	ORF3	chr20:61368391:+:THE1D>chr20:61386037:+:ENST00000370501	chr20:61368391:+>chr20:61386037:+	40	220
2803	NTSR1	ORF2	chr20:61385398:+:MIRb>chr20:61386037:+:ENST00000370501	chr20:61385398:+>chr20:61386037:+	39	219
2804	CLIC4	ORF3	chr1:25125844:+:SVA_F>chr1:25140585:+:ENST00000374379	chr1:25125844:+>chr1:25140585:+	26	219
2805	CLIC4	ORF3	chr1:25125844:+:SVA_F>chr1:25140585:+:ENST00000488683	chr1:25125844:+>chr1:25140585:+	26	219
2806	ENG	ORF3	chr9:130581331:-:AluY>chr9:130581111:-:ENST00000344849	chr9:130581331:->chr9:130581111:-	30	218
2807	CD81	ORF3	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000263645	chr11:2411228:+>chr11:2411642:+	4	218
2808	CD81	ORF3	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000527343	chr11:2411228:+>chr11:2411642:+	4	218
2809	CD81	ORF3	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000464784	chr11:2411228:+>chr11:2411642:+	4	218
2810	CD81	ORF3	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000381036	chr11:2411228:+>chr11:2411642:+	4	218
2811	CLIC4	ORF2	chr1:25126002:+:SVA_F>chr1:25140585:+:ENST00000374379	chr1:25126002:+>chr1:25140585:+	25	218
2812	CLIC4	ORF2	chr1:25126002:+:SVA_F>chr1:25140585:+:ENST00000488683	chr1:25126002:+>chr1:25140585:+	25	218
2813	CD82	ORF3	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000342935	chr11:44626051:+>chr11:44626608:+	20	217
2814	BTLA	ORF1	chr3:112200031:-:MSTD-int>chr3:112198616:-:ENST00000383680	chr3:112200031:->chr3:112198616:-	5	217
2815	TSPAN14	ORF2	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000372157	chr10:82228443:+>chr10:82266984:+	8	217
2816	GPNMB	ORF3	chr7:23251437:+:LTR33B>chr7:23292972:+:ENST00000409458	chr7:23251437:+>chr7:23292972:+	48	216
2817	SLC38A6	ORF1	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000456840	chr14:61516792:+>chr14:61517230:+	14	216
2818	GPR39	ORF1	chr2:133325151:+:MSTC>chr2:133402674:+:ENST00000329321	chr2:133325151:+>chr2:133402674:+	48	216
2819	IMP4	ORF2	chr2:131058851:+:REP522>chr2:131102202:+:ENST00000409935	chr2:131058851:+>chr2:131102202:+	5	216
2820	LAPTM4B	ORF2	chr8:98817331:+:MER91A>chr8:98817581:+:ENST00000445593	chr8:98817331:+>chr8:98817581:+	22	215
2821	LAPTM4B	ORF2	chr8:98817331:+:MER91A>chr8:98817581:+:ENST00000521545	chr8:98817331:+>chr8:98817581:+	22	215
2822	CD74	ORF2	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000009530	chr5:149842358:->chr5:149786754:-	5	215
2823	BTLA	ORF1	chr3:112200259:-:MSTD-int>chr3:112198616:-:ENST00000383680	chr3:112200259:->chr3:112198616:-	3	215
2824	ADAM23	ORF1	chr2:207455874:+:AluJo>chr2:207457341:+:ENST00000264377	chr2:207455874:+>chr2:207457341:+	33	213
2825	ADAM23	ORF1	chr2:207455874:+:AluJo>chr2:207457341:+:ENST00000374416	chr2:207455874:+>chr2:207457341:+	33	213
2826	ADAM23	ORF1	chr2:207455874:+:AluJo>chr2:207457341:+:ENST00000374415	chr2:207455874:+>chr2:207457341:+	33	213
2827	SLC13A3	ORF3	chr20:45199655:-:THE1C>chr20:45195029:-:ENST00000396360	chr20:45199655:->chr20:45195029:-	54	212
2828	SLC13A3	ORF3	chr20:45199655:-:THE1C>chr20:45195029:-:ENST00000435032	chr20:45199655:->chr20:45195029:-	54	212
2829	SLC13A3	ORF3	chr20:45199655:-:THE1C>chr20:45195029:-:ENST00000290317	chr20:45199655:->chr20:45195029:-	54	212
2830	SLC13A3	ORF3	chr20:45199655:-:THE1C>chr20:45195029:-:ENST00000279027	chr20:45199655:->chr20:45195029:-	54	212
2831	SLC13A3	ORF3	chr20:45199655:-:THE1C>chr20:45195029:-:ENST00000472148	chr20:45199655:->chr20:45195029:-	54	212
2832	SLC13A3	ORF3	chr20:45199655:-:THE1C>chr20:45195029:-:ENST00000413164	chr20:45199655:->chr20:45195029:-	54	212
2833	SLC13A3	ORF3	chr20:45199655:-:THE1C>chr20:45195029:-:ENST00000495082	chr20:45199655:->chr20:45195029:-	54	212
2834	EPCAM	ORF3	chr2:47596512:+:LTR41B>chr2:47596660:+:ENST00000419334	chr2:47596512:+>chr2:47596660:+	17	211
2835	GPR98	ORF1	chr5:90445323:+:THE1D>chr5:90445847:+:ENST00000405460	chr5:90445323:+>chr5:90445847:+	48	210
2836	GPR98	ORF1	chr5:90445323:+:THE1D>chr5:90445847:+:ENST00000425867	chr5:90445323:+>chr5:90445847:+	48	210
2837	CD79A	ORF3	chr19:42382564:+:MIR>chr19:42383060:+:ENST00000221972	chr19:42382564:+>chr19:42383060:+	8	208
2838	LDLRAD3	ORF2	chr11:36166221:+:SVA_D>chr11:36248635:+:ENST00000524419	chr11:36166221:+>chr11:36248635:+	14	208
2839	LDLRAD3	ORF2	chr11:36166221:+:SVA_D>chr11:36248635:+:ENST00000528989	chr11:36166221:+>chr11:36248635:+	14	208
2840	LDLRAD3	ORF2	chr11:36166221:+:SVA_D>chr11:36248635:+:ENST00000315571	chr11:36166221:+>chr11:36248635:+	14	208
2841	TRDN	ORF2	chr6:123908604:-:HERVH-int>chr6:123892277:-:ENST00000542443	chr6:123908604:->chr6:123892277:-	48	208
2842	TLCD1	ORF2	chr17:27054837:-:AluSx>chr17:27052581:-:ENST00000292090	chr17:27054837:->chr17:27052581:-	24	207
2843	TLCD1	ORF2	chr17:27054837:-:AluSx>chr17:27052581:-:ENST00000394933	chr17:27054837:->chr17:27052581:-	24	207
2844	STRA6	ORF2	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000572785	chr15:74475786:->chr15:74474801:-	6	207
2845	APP	ORF3	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000358918	chr21:27288399:->chr21:27284274:-	17	207
2846	SCNN1A	ORF3	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000338748	chr12:6517023:->chr12:6483811:-	7	206
2847	TRGC2	ORF2	chr7:38311882:-:MIRb>chr7:38289173:-:ENST00000436911	chr7:38311882:->chr7:38289173:-	17	206
2848	LDLR	ORF2	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000545707	chr19:11230008:+>chr19:11230768:+	12	206
2849	TMEM8C	ORF2	chr9:136393545:-:MIRc>chr9:136385410:-:ENST00000339996	chr9:136393545:->chr9:136385410:-	30	206
2850	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474801:-:ENST00000572785	chr15:74475594:->chr15:74474801:-	4	205
2851	MMP24	ORF3	chr20:33851310:+:L2c>chr20:33851594:+:ENST00000246186	chr20:33851310:+>chr20:33851594:+	24	205
2852	SGCG	ORF2	chr13:23822916:+:AluY>chr13:23824769:+:ENST00000218867	chr13:23822916:+>chr13:23824769:+	13	205
2853	SGCG	ORF2	chr13:23822916:+:AluY>chr13:23824769:+:ENST00000537476	chr13:23822916:+>chr13:23824769:+	13	205
2854	SGCG	ORF2	chr13:23822916:+:AluY>chr13:23824769:+:ENST00000545013	chr13:23822916:+>chr13:23824769:+	13	205
2855	PLSCR1	ORF2	chr3:146265863:-:L1MA8>chr3:146239794:-:ENST00000342435	chr3:146265863:->chr3:146239794:-	18	203
2856	PLSCR1	ORF2	chr3:146265863:-:L1MA8>chr3:146239794:-:ENST00000487389	chr3:146265863:->chr3:146239794:-	18	203
2857	PLSCR1	ORF2	chr3:146265863:-:L1MA8>chr3:146239794:-:ENST00000448787	chr3:146265863:->chr3:146239794:-	18	203
2858	BTN3A1	ORF3	chr6:26409089:+:L1MC4a>chr6:26409761:+:ENST00000425234	chr6:26409089:+>chr6:26409761:+	62	202
2859	LPAR1	ORF1	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000441240	chr9:113706404:->chr9:113704448:-	35	202
2860	SLC13A3	ORF3	chr20:45296205:-:MIR>chr20:45242364:-:ENST00000339636	chr20:45296205:->chr20:45242364:-	7	202
2861	CDH11	ORF2	chr16:64983489:-:AluSp>chr16:64982002:-:ENST00000268603	chr16:64983489:->chr16:64982002:-	37	202

Table 15

2862	CDH11	ORF2	chr16:64983489:-:AluSp>chr16:64982002:-:ENST00000566827	chr16:64983489:->chr16:64982002:-	37	202
2863	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474787:-:ENST00000572785	chr15:74475594:->chr15:74474787:-	4	200
2864	CMTM6	ORF1	chr3:32535322:-:L2c>chr3:32533378:-:ENST00000205636	chr3:32535322:->chr3:32533378:-	63	200
2865	NRP1	ORF3	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374821	chr10:33505616:->chr10:33502645:-	17	199
2866	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474784:-:ENST00000572785	chr15:74475594:->chr15:74474784:-	4	199
2867	SLC47A2	ORF2	chr17:19600139:-:MSTD>chr17:19584983:-:ENST00000325411	chr17:19600139:->chr17:19584983:-	21	199
2868	SLC47A2	ORF2	chr17:19600139:-:MSTD>chr17:19584983:-:ENST00000350657	chr17:19600139:->chr17:19584983:-	21	199
2869	TSPAN14	ORF1	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000341863	chr10:82214127:+>chr10:82264484:+	12	198
2870	ABCC5	ORF1	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000427120	chr3:183707518:->chr3:183707171:-	10	198
2871	CD81	ORF3	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000492252	chr11:2411228:+>chr11:2411642:+	4	198
2872	C1orf186	ORF3	chr1:206276764:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206276764:->chr1:206243250:-	28	197
2873	VMP1	ORF2	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000591877	chr17:57885650:+>chr17:57886157:+	16	197
2874	TMPRSS2	ORF1	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000424093	chr21:42864922:->chr21:42861520:-	57	197
2875	C1orf186	ORF3	chr1:206277067:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206277067:->chr1:206243250:-	28	197
2876	CLDN15	ORF2	chr7:100877859:-:AluSz>chr7:100877723:-:ENST00000308344	chr7:100877859:->chr7:100877723:-	40	196
2877	CLDN15	ORF2	chr7:100877859:-:AluSz>chr7:100877723:-:ENST00000401528	chr7:100877859:->chr7:100877723:-	40	196
2878	APLP1	ORF1	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000589743	chr19:36361472:+>chr19:36361798:+	23	196
2879	SLC2A5	ORF2	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000484798	chr1:9128439:->chr1:9118309:-	17	196
2880	SLC2A5	ORF2	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000474145	chr1:9128439:->chr1:9118309:-	17	196
2881	SLC2A5	ORF2	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000479813	chr1:9128439:->chr1:9118309:-	17	196
2882	SLC2A5	ORF2	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000486632	chr1:9128439:->chr1:9118309:-	17	196
2883	CACNG7	ORF1	chr19:54418244:+:AluSx>chr19:54418619:+:ENST00000391767	chr19:54418244:+>chr19:54418619:+	14	195
2884	CACNG7	ORF1	chr19:54418244:+:AluSx>chr19:54418619:+:ENST00000222212	chr19:54418244:+>chr19:54418619:+	14	195
2885	C1orf186	ORF3	chr1:206277274:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206277274:->chr1:206243250:-	26	195
2886	CD22	ORF3	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000341773	chr19:35834869:+>chr19:35835736:+	27	195
2887	CD22	ORF3	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000085219	chr19:35834869:+>chr19:35835736:+	27	195
2888	CD22	ORF3	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000536635	chr19:35834869:+>chr19:35835736:+	27	195
2889	CD22	ORF3	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000419549	chr19:35834869:+>chr19:35835736:+	27	195
2890	CD22	ORF3	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000594250	chr19:35834869:+>chr19:35835736:+	27	195
2891	DDR1	ORF3	chr6:30844673:+:AluJb>chr6:30856465:+:ENST00000503495	chr6:30844673:+>chr6:30856465:+	11	195
2892	FAIM2	ORF2	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000550635	chr12:50292556:->chr12:50291869:-	17	194
2893	KIRREL3	ORF2	chr11:126310717:-:L2c>chr11:126310444:-:ENST00000525704	chr11:126310717:->chr11:126310444:-	11	194
2894	FLOT1	ORF3	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000413165	chr6:30708763:->chr6:30708575:-	11	194
2895	GLDN	ORF1	chr15:51652734:+:HERV17-int>chr15:51669646:+:ENST00000335449	chr15:51652734:+>chr15:51669646:+	115	193
2896	GLDN	ORF1	chr15:51652734:+:HERV17-int>chr15:51669646:+:ENST00000558426	chr15:51652734:+>chr15:51669646:+	115	193
2897	ABCC5	ORF1	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000392579	chr3:183707518:->chr3:183707171:-	10	192
2898	TRABD2B	ORF2	chr1:48256707:-:MIRb>chr1:48244216:-:ENST00000606738	chr1:48256707:->chr1:48244216:-	3	191
2899	TM7SF3	ORF1	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000535260	chr12:27144286:->chr12:27143560:-	11	190
2900	TRGC1	ORF2	chr7:38311882:-:MIRb>chr7:38305279:-:ENST00000443402	chr7:38311882:->chr7:38305279:-	17	190
2901	NCKAP1	ORF2	chr2:183798370:-:AluSp>chr2:183795516:-:ENST00000361354	chr2:183798370:->chr2:183795516:-	15	190
2902	NCKAP1	ORF2	chr2:183798370:-:AluSp>chr2:183795516:-:ENST00000360982	chr2:183798370:->chr2:183795516:-	15	190
2903	GPNMB	ORF3	chr7:23290481:+:MIR3>chr7:23292926:+:ENST00000409458	chr7:23290481:+>chr7:23292926:+	7	190
2904	SLC16A10	ORF3	chr6:111494728:+:MER1A>chr6:111498415:+:ENST00000419619	chr6:111494728:+>chr6:111498415:+	27	190
2905	HM13	ORF2	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000335574	chr20:30126162:+>chr20:30137867:+	18	190
2906	NRP1	ORF2	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374823	chr10:33497207:->chr10:33496644:-	24	190
2907	CA9	ORF2	chr9:35678160:+:AluY>chr9:35679182:+:ENST00000378357	chr9:35678160:+>chr9:35679182:+	32	189
2908	ANO9	ORF1	chr11:423942:-:AluSx>chr11:421198:-:ENST00000332826	chr11:423942:->chr11:421198:-	13	189
2909	ADCY5	ORF2	chr3:123034582:-:AluSz6>chr3:123033169:-:ENST00000466617	chr3:123034582:->chr3:123033169:-	40	189
2910	C1orf186	ORF2	chr1:206284908:-:Harlequin-int>chr1:206243250:-:ENST00000331555	chr1:206284908:->chr1:206243250:-	20	189
2911	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000526669	chr11:35110122:+>chr11:35198122:+	5	189
2912	BACE2	ORF1	chr21:42582959:+:MER49>chr21:42629085:+:ENST00000330333	chr21:42582959:+>chr21:42629085:+	48	188
2913	BACE2	ORF1	chr21:42582959:+:MER49>chr21:42629085:+:ENST00000347667	chr21:42582959:+>chr21:42629085:+	48	188
2914	ACE	ORF1	chr17:61556008:+:AluJb>chr17:61556368:+:ENST00000582627	chr17:61556008:+>chr17:61556368:+	13	188
2915	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000526669	chr11:35195735:+>chr11:35198122:+	4	188
2916	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000413165	chr6:30708813:->chr6:30708539:-	17	188
2917	GRIK5	ORF3	chr19:42503823:-:L2a>chr19:42503451:-:ENST00000262895	chr19:42503823:->chr19:42503451:-	46	188
2918	GRIK5	ORF3	chr19:42503823:-:L2a>chr19:42503451:-:ENST00000593562	chr19:42503823:->chr19:42503451:-	46	188
2919	SLC16A10	ORF1	chr6:111494717:+:MER1A>chr6:111498415:+:ENST00000419619	chr6:111494717:+>chr6:111498415:+	24	187
2920	CDH26	ORF2	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000244047	chr20:58573800:+>chr20:58574641:+	8	187
2921	CDH26	ORF2	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000370991	chr20:58573800:+>chr20:58574641:+	8	187
2922	NRP1	ORF3	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000432372	chr10:33505616:->chr10:33502645:-	17	187
2923	CHRNA9	ORF3	chr4:40352049:+:MIRb>chr4:40355996:+:ENST00000310169	chr4:40352049:+>chr4:40355996:+	7	187
2924	ATP2B1	ORF1	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000261173	chr12:89994657:->chr12:89993076:-	23	187
2925	ATP2B1	ORF1	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000348959	chr12:89994657:->chr12:89993076:-	23	187
2926	ATP2B1	ORF1	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000428670	chr12:89994657:->chr12:89993076:-	23	187
2927	ATP2B1	ORF1	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000393164	chr12:89994657:->chr12:89993076:-	23	187
2928	TRPC7	ORF1	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000355180	chr5:135562544:->chr5:135561943:-	5	187
2929	TRPC7	ORF1	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000426057	chr5:135562544:->chr5:135561943:-	5	187
2930	TRPC7	ORF1	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000513104	chr5:135562544:->chr5:135561943:-	5	187
2931	TRPC7	ORF1	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000352189	chr5:135562544:->chr5:135561943:-	5	187
2932	TRPC7	ORF1	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000378459	chr5:135562544:->chr5:135561943:-	5	187
2933	TRPC7	ORF1	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000502753	chr5:135562544:->chr5:135561943:-	5	187

2934	FLOT1	ORF3	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000413165	chr6:30708853:->chr6:30708575:-	3	186
2935	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000424093	chr21:42883790:->chr21:42861520:-	46	186
2936	TRABD2A	ORF1	chr2:85059512:-:MIRc>chr2:85059269:-:ENST00000335459	chr2:85059512:->chr2:85059269:-	11	186
2937	TRABD2A	ORF1	chr2:85059512:-:MIRc>chr2:85059269:-:ENST00000409520	chr2:85059512:->chr2:85059269:-	11	186
2938	GPR143	ORF1	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000447366	chrX:9715893:->chrX:9714193:-	17	186
2939	CD99L2	ORF3	chrX:149996779:-:MIR>chrX:149963959:-:ENST00000370377	chrX:149996779:->chrX:149963959:-	15	185
2940	CD99L2	ORF3	chrX:149996779:-:MIR>chrX:149963959:-:ENST00000466436	chrX:149996779:->chrX:149963959:-	15	185
2941	SLC28A1	ORF1	chr15:85472633:+:AluSx1>chr15:85478257:+:ENST00000537216	chr15:85472633:+>chr15:85478257:+	46	185
2942	SLC16A10	ORF3	chr6:111494728:+:MER1A>chr6:111498415:+:ENST00000439288	chr6:111494728:+>chr6:111498415:+	27	185
2943	CLDN15	ORF3	chr7:100877907:-:AluSz>chr7:100877712:-:ENST00000308344	chr7:100877907:->chr7:100877712:-	33	185
2944	CLDN15	ORF3	chr7:100877907:-:AluSz>chr7:100877712:-:ENST00000401528	chr7:100877907:->chr7:100877712:-	33	185
2945	VMP1	ORF2	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000262291	chr17:57885650:+>chr17:57886157:+	16	184
2946	VMP1	ORF2	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000537567	chr17:57885650:+>chr17:57886157:+	16	184
2947	VMP1	ORF2	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000539763	chr17:57885650:+>chr17:57886157:+	16	184
2948	VMP1	ORF2	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000536180	chr17:57885650:+>chr17:57886157:+	16	184
2949	VMP1	ORF2	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000545362	chr17:57885650:+>chr17:57886157:+	16	184
2950	ATP10D	ORF2	chr4:47584978:+:AluJr>chr4:47589036:+:ENST00000273859	chr4:47584978:+>chr4:47589036:+	9	184
2951	GLDN	ORF2	chr15:51652734:+:HERV17-int>chr15:51669646:+:ENST00000558426	chr15:51652734:+>chr15:51669646:+	26	184
2952	LPAR1	ORF3	chr9:113773828:-:L3>chr9:113704448:-:ENST00000441240	chr9:113773828:->chr9:113704448:-	17	184
2953	PDPN	ORF3	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000294489	chr1:13909091:+>chr1:13910478:+	4	183
2954	TMPRSS3	ORF3	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000291532	chr21:43800574:->chr21:43800321:-	45	182
2955	TMPRSS3	ORF3	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000380399	chr21:43800574:->chr21:43800321:-	45	182
2956	SLC16A10	ORF1	chr6:111494717:+:MER1A>chr6:111498415:+:ENST00000439288	chr6:111494717:+>chr6:111498415:+	24	182
2957	PDPN	ORF3	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000510906	chr1:13909091:+>chr1:13910478:+	4	182
2958	TMPRSS3	ORF3	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000398405	chr21:43800574:->chr21:43800321:-	45	181
2959	TMPRSS3	ORF3	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000433957	chr21:43800574:->chr21:43800321:-	45	181
2960	C1orf186	ORF3	chr1:206270467:-:MIRc>chr1:206243250:-:ENST00000331555	chr1:206270467:->chr1:206243250:-	12	181
2961	PDPN	ORF3	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000376057	chr1:13909091:+>chr1:13910478:+	4	181
2962	ANO1	ORF1	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000316296	chr11:70007088:+>chr11:70007267:+	7	181
2963	CACNA1A	ORF2	chr19:13416027:-:LTR16C>chr19:13414698:-:ENST00000360228	chr19:13416027:->chr19:13414698:-	64	181
2964	CACNA1A	ORF2	chr19:13416027:-:LTR16C>chr19:13414698:-:ENST00000573710	chr19:13416027:->chr19:13414698:-	64	181
2965	C1orf186	ORF3	chr1:206277157:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206277157:->chr1:206243250:-	11	180
2966	CLDN15	ORF2	chr7:100877907:-:AluSz>chr7:100877723:-:ENST00000308344	chr7:100877907:->chr7:100877723:-	24	180
2967	CLDN15	ORF2	chr7:100877907:-:AluSz>chr7:100877723:-:ENST00000401528	chr7:100877907:->chr7:100877723:-	24	180
2968	GRAMD2	ORF3	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000568594	chr15:72463983:->chr15:72462280:-	16	179
2969	NOTCH3	ORF1	chr19:15297447:-:AluSx>chr19:15296490:-:ENST00000601011	chr19:15297447:->chr19:15296490:-	23	179
2970	FAIM2	ORF2	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000320634	chr12:50285280:->chr12:50284897:-	7	179
2971	FAIM2	ORF2	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000550890	chr12:50285280:->chr12:50284897:-	7	179
2972	ABCC5	ORF1	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000443376	chr3:183707518:->chr3:183707171:-	10	179
2973	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000377795	chr5:149925791:->chr5:149792301:-	21	178
2974	HPN	ORF2	chr19:35551974:+:L1MB7>chr19:35556154:+:ENST00000262626	chr19:35551974:+>chr19:35556154:+	30	177
2975	HPN	ORF2	chr19:35551974:+:L1MB7>chr19:35556154:+:ENST00000392226	chr19:35551974:+>chr19:35556154:+	30	177
2976	HPN	ORF2	chr19:35551974:+:L1MB7>chr19:35556154:+:ENST00000597419	chr19:35551974:+>chr19:35556154:+	30	177
2977	FAS	ORF1	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000488877	chr10:90713663:+>chr10:90762786:+	38	177
2978	FAS	ORF1	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000494410	chr10:90713663:+>chr10:90762786:+	38	177
2979	TSPAN14	ORF2	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000341863	chr10:82228443:+>chr10:82266984:+	8	177
2980	TSPAN12	ORF1	chr7:120447344:-:Charlie18a>chr7:120446746:-:ENST00000222747	chr7:120447344:->chr7:120446746:-	28	177
2981	TSPAN12	ORF1	chr7:120447344:-:Charlie18a>chr7:120446746:-:ENST00000415871	chr7:120447344:->chr7:120446746:-	28	177
2982	CD74	ORF2	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000377795	chr5:149832091:->chr5:149792292:-	22	176
2983	BTN3A1	ORF3	chr6:26409089:+:L1MC4a>chr6:26409761:+:ENST00000476549	chr6:26409089:+>chr6:26409761:+	62	176
2984	KIAA1324	ORF2	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000531664	chr1:109695471:+>chr1:109704516:+	22	176
2985	CLSTN3	ORF1	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000539982	chr12:7284070:+>chr12:7285620:+	4	176
2986	APCDD1	ORF1	chr18:10454378:+:G-rich>chr18:10468466:+:ENST00000578882	chr18:10454378:+>chr18:10468466:+	10	175
2987	PTPRR	ORF1	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000440835	chr12:71059411:->chr12:71056385:-	17	175
2988	PTPRR	ORF1	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000378778	chr12:71059411:->chr12:71056385:-	17	175
2989	PTPRR	ORF1	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000283228	chr12:71059411:->chr12:71056385:-	17	175
2990	PTPRR	ORF1	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000342084	chr12:71059411:->chr12:71056385:-	17	175
2991	PTPRR	ORF1	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000549308	chr12:71059411:->chr12:71056385:-	17	175
2992	ABCC5	ORF1	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000382494	chr3:183707518:->chr3:183707171:-	10	175
2993	IFITM3	ORF1	chr11:323601:-:HERV3-int>chr11:320772:-:ENST00000399808	chr11:323601:->chr11:320772:-	55	175
2994	NKAIN2	ORF2	chr6:124669850:+:L1PA4>chr6:124676413:+:ENST00000368417	chr6:124669850:+>chr6:124676413:+	30	174
2995	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000360168	chr12:6458996:->chr12:6458171:-	4	174
2996	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000358945	chr12:6458996:->chr12:6458171:-	4	174
2997	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000540037	chr12:6458996:->chr12:6458171:-	4	174
2998	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000228916	chr12:6458996:->chr12:6458171:-	4	174
2999	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000543768	chr12:6458996:->chr12:6458171:-	4	174
3000	NOX1	ORF3	chrX:100122222:-:AluYc>chrX:100118584:-:ENST00000372964	chrX:100122222:->chrX:100118584:-	28	173
3001	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000354608	chr1:71507004:->chr1:71478167:-	43	173
3002	APLP2	ORF2	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000533713	chr11:129977538:+>chr11:129979324:+	35	173
3003	GPR39	ORF2	chr2:133363763:+:MIRb>chr2:133402674:+:ENST00000329321	chr2:133363763:+>chr2:133402674:+	5	173
3004	HM13	ORF2	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000340852	chr20:30126162:+>chr20:30137867:+	18	173
3005	HM13	ORF2	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000376127	chr20:30126162:+>chr20:30137867:+	18	173

Table 15

3006	ABCC1	ORF1	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000345148	chr16:16226783:+>chr16:16228207:+	29	173
3007	NKAIN2	ORF2	chr6:124669850:+:L1PA4>chr6:124676413:+:ENST00000545433	chr6:124669850:+>chr6:124676413:+	30	172
3008	LGR6	ORF2	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000423542	chr1:202205792:+>chr1:202245434:+	8	172
3009	SLC2A5	ORF2	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000487835	chr1:9128439:->chr1:9118309:-	17	172
3010	TSHR	ORF1	chr14:81545280:+:MLT1H1>chr14:81554298:+:ENST00000554435	chr14:81545280:+>chr14:81554298:+	3	172
3011	GRIK5	ORF2	chr19:42503823:-:L2a>chr19:42503451:-:ENST00000262895	chr19:42503823:->chr19:42503451:-	29	172
3012	GRIK5	ORF2	chr19:42503823:-:L2a>chr19:42503451:-:ENST00000593562	chr19:42503823:->chr19:42503451:-	29	172
3013	FAIM2	ORF2	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000552669	chr12:50285280:->chr12:50284897:-	7	171
3014	PLXNB3	ORF1	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000538966	chrX:152238123:+>chrX:153039148:+	13	170
3015	PLXNB3	ORF1	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000361971	chrX:152238123:+>chrX:153039148:+	13	170
3016	PLXNB3	ORF1	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000538776	chrX:152238123:+>chrX:153039148:+	13	170
3017	PLXNB3	ORF1	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000538282	chrX:152238123:+>chrX:153039148:+	13	170
3018	CD79A	ORF3	chr19:42382564:+:MIR>chr19:42383060:+:ENST00000444740	chr19:42382564:+>chr19:42383060:+	8	170
3019	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000524315	chr5:149925791:->chr5:149792301:-	21	170
3020	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000497146	chr1:71507004:->chr1:71478167:-	43	169
3021	SGCZ	ORF1	chr8:13965940:-:THE1A>chr8:13965744:-:ENST00000382080	chr8:13965940:->chr8:13965744:-	39	169
3022	SGCZ	ORF1	chr8:13965940:-:THE1A>chr8:13965744:-:ENST00000421524	chr8:13965940:->chr8:13965744:-	39	169
3023	GLDN	ORF2	chr15:51649596:+:HERV17-int>chr15:51669646:+:ENST00000558426	chr15:51649596:+>chr15:51669646:+	11	169
3024	FAIM2	ORF1	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000320634	chr12:50285280:->chr12:50284897:-	43	169
3025	FAIM2	ORF1	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000550890	chr12:50285280:->chr12:50284897:-	43	169
3026	FAIM2	ORF1	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000552669	chr12:50285280:->chr12:50284897:-	43	169
3027	TNFRSF21	ORF2	chr6:47216659:-:MIR>chr6:47202634:-:ENST00000296861	chr6:47216659:->chr6:47202634:-	17	169
3028	CD74	ORF2	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000524315	chr5:149832091:->chr5:149792292:-	22	168
3029	TRAC	ORF1	chr14:22973970:+:AluJr4>chr14:23016447:+:ENST00000478163	chr14:22973970:+>chr14:23016447:+	27	168
3030	TMPRSS4	ORF1	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000522151	chr11:117969154:+>chr11:117969700:+	7	168
3031	LRRTM4	ORF3	chr2:77256391:-:MLT2A2>chr2:76976042:-:ENST00000409911	chr2:77256391:->chr2:76976042:-	94	167
3032	LRRTM4	ORF3	chr2:77256391:-:MLT2A2>chr2:76976042:-:ENST00000409884	chr2:77256391:->chr2:76976042:-	94	167
3033	LRRTM4	ORF3	chr2:77256391:-:MLT2A2>chr2:76976042:-:ENST00000409093	chr2:77256391:->chr2:76976042:-	94	167
3034	CDH26	ORF2	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000348616	chr20:58573800:+>chr20:58574641:+	8	167
3035	CDH26	ORF2	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000350849	chr20:58573800:+>chr20:58574641:+	8	167
3036	CELSR1	ORF2	chr22:46768553:-:L2c>chr22:46765701:-:ENST00000262738	chr22:46768553:->chr22:46765701:-	8	167
3037	MEGF11	ORF3	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000409699	chr15:66275074:->chr15:66274826:-	13	167
3038	MEGF11	ORF3	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000288745	chr15:66275074:->chr15:66274826:-	13	167
3039	MEGF11	ORF3	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000360698	chr15:66275074:->chr15:66274826:-	13	167
3040	MEGF11	ORF3	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000395625	chr15:66275074:->chr15:66274826:-	13	167
3041	MEGF11	ORF3	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000422354	chr15:66275074:->chr15:66274826:-	13	167
3042	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000523208	chr5:149925791:->chr5:149792301:-	21	166
3043	CLDN1	ORF1	chr3:190065532:-:L2a>chr3:190030825:-:ENST00000295522	chr3:190065532:->chr3:190030825:-	29	166
3044	PAQR5	ORF2	chr15:69682983:+:MIRb>chr15:69689807:+:ENST00000395407	chr15:69682983:+>chr15:69689807:+	6	166
3045	PAQR5	ORF2	chr15:69682983:+:MIRb>chr15:69689807:+:ENST00000561153	chr15:69682983:+>chr15:69689807:+	6	166
3046	PAQR5	ORF2	chr15:69682983:+:MIRb>chr15:69689807:+:ENST00000340965	chr15:69682983:+>chr15:69689807:+	6	166
3047	CD82	ORF2	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000227155	chr11:44632201:+>chr11:44636822:+	11	166
3048	CD82	ORF2	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000342935	chr11:44632201:+>chr11:44636822:+	11	166
3049	TRPC4	ORF3	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000426868	chr13:38270156:->chr13:38266472:-	5	166
3050	FAP	ORF3	chr2:163040253:-:MIR3>chr2:163039978:-:ENST00000188790	chr2:163040253:->chr2:163039978:-	9	165
3051	FAP	ORF3	chr2:163040253:-:MIR3>chr2:163039978:-:ENST00000443424	chr2:163040253:->chr2:163039978:-	9	165
3052	CD74	ORF2	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000523208	chr5:149832091:->chr5:149792292:-	22	164
3053	CNIH3	ORF3	chr1:224861660:+:MIRb>chr1:224868660:+:ENST00000272133	chr1:224861660:+>chr1:224868660:+	31	164
3054	CD3G	ORF3	chr11:118220037:+:MER5A1>chr11:118220458:+:ENST00000532917	chr11:118220037:+>chr11:118220458:+	8	164
3055	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000351052	chr1:71507004:->chr1:71478167:-	43	163
3056	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000356595	chr1:71507004:->chr1:71478167:-	43	162
3057	SLC38A6	ORF1	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000267488	chr14:61516792:+>chr14:61517230:+	14	162
3058	SLC38A6	ORF1	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000529212	chr14:61516792:+>chr14:61517230:+	14	162
3059	LAIR1	ORF2	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000418556	chr19:54880625:->chr19:54875937:-	20	162
3060	SLC2A1	ORF3	chr1:43427043:-:L2b>chr1:43408992:-:ENST00000426263	chr1:43427043:->chr1:43408992:-	80	161
3061	SLC2A1	ORF3	chr1:43427043:-:L2b>chr1:43408992:-:ENST00000415851	chr1:43427043:->chr1:43408992:-	80	161
3062	SLC2A1	ORF3	chr1:43427043:-:L2b>chr1:43408992:-:ENST00000372500	chr1:43427043:->chr1:43408992:-	80	161
3063	COL23A1	ORF1	chr5:178001896:-:L3>chr5:177987749:-:ENST00000390654	chr5:178001896:->chr5:177987749:-	24	161
3064	GRAMD2	ORF3	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000570275	chr15:72463983:->chr15:72462280:-	16	160
3065	FAM168B	ORF3	chr2:131824664:-:THE1B>chr2:131813268:-:ENST00000409185	chr2:131824664:->chr2:131813268:-	16	160
3066	FAM168B	ORF3	chr2:131824664:-:THE1B>chr2:131813268:-:ENST00000389915	chr2:131824664:->chr2:131813268:-	16	160
3067	ABCC1	ORF2	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000345148	chr16:16227839:+>chr16:16228207:+	16	160
3068	FAS	ORF1	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000492756	chr10:90713663:+>chr10:90762786:+	38	160
3069	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000413165	chr6:30708813:->chr6:30708368:-	17	160
3070	RHBG	ORF1	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000446171	chr1:156337862:+>chr1:156339110:+	30	160
3071	TREM1	ORF1	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000334475	chr6:41259171:->chr6:41250489:-	25	159
3072	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000377795	chr5:149925791:->chr5:149792270:-	13	159
3073	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000424093	chr21:42883790:->chr21:42852529:-	46	157
3074	CNIH2	ORF1	chr11:66049045:+:L2b>chr11:66049730:+:ENST00000311445	chr11:66049045:+>chr11:66049730:+	24	157
3075	TNFRSF21	ORF3	chr6:47213511:-:MSTA>chr6:47202634:-:ENST00000296861	chr6:47213511:->chr6:47202634:-	5	157
3076	ARL6IP5	ORF1	chr3:69143994:+:MIR3>chr3:69150990:+:ENST00000273258	chr3:69143994:+>chr3:69150990:+	27	157
3077	NOTCH3	ORF2	chr19:15285898:-:L2a>chr19:15285211:-:ENST00000263388	chr19:15285898:->chr19:15285211:-	47	156

Table 15

3078	PLGRKT	ORF3	chr9:5439143:-:LTR33>chr9:5361888:-:ENST00000223864	chr9:5439143:->chr9:5361888:-	36	156
3079	CD4	ORF1	chr12:6916634:+:L1MD1>chr12:6923308:+:ENST00000541982	chr12:6916634:+>chr12:6923308:+	24	156
3080	TMPRSS4	ORF2	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000517544	chr11:117970832:+>chr11:117973816:+	26	155
3081	IFITM3	ORF2	chr11:324180:-:HERV3-int>chr11:320772:-:ENST00000399808	chr11:324180:->chr11:320772:-	35	155
3082	RHBG	ORF2	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000446171	chr1:156337862:+>chr1:156339110:+	24	155
3083	FAIM2	ORF2	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000550195	chr12:50292556:->chr12:50291869:-	17	154
3084	TM4SF5	ORF2	chr17:4681244:+:AluJb>chr17:4684084:+:ENST00000270560	chr17:4681244:+>chr17:4684084:+	16	154
3085	NKAIN2	ORF2	chr6:124669850:+:L1PA4>chr6:124676413:+:ENST00000368416	chr6:124669850:+>chr6:124676413:+	30	154
3086	TMEM63B	ORF3	chr6:44119935:+:MIR3>chr6:44120330:+:ENST00000259746	chr6:44119935:+>chr6:44120330:+	23	154
3087	TMEM63B	ORF3	chr6:44119935:+:MIR3>chr6:44120330:+:ENST00000323267	chr6:44119935:+>chr6:44120330:+	23	154
3088	TMEM63B	ORF3	chr6:44119935:+:MIR3>chr6:44120330:+:ENST00000371893	chr6:44119935:+>chr6:44120330:+	23	154
3089	TRPM1	ORF2	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000397795	chr15:31327548:->chr15:31325143:-	6	154
3090	TRPM1	ORF2	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000256552	chr15:31327548:->chr15:31325143:-	6	154
3091	TRPM1	ORF2	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000542188	chr15:31327548:->chr15:31325143:-	6	154
3092	TRPM1	ORF2	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000558768	chr15:31327548:->chr15:31325143:-	6	154
3093	TRPM1	ORF2	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000558445	chr15:31327548:->chr15:31325143:-	6	154
3094	ANO10	ORF1	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000292246	chr3:43592944:->chr3:43591340:-	49	153
3095	ANO10	ORF1	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000350459	chr3:43592944:->chr3:43591340:-	49	153
3096	ANO10	ORF1	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000396091	chr3:43592944:->chr3:43591340:-	49	153
3097	ANO10	ORF1	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000451430	chr3:43592944:->chr3:43591340:-	49	153
3098	ANO10	ORF1	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000448045	chr3:43592944:->chr3:43591340:-	49	153
3099	GRID1	ORF3	chr10:87362906:-:MIRc>chr10:87362458:-:ENST00000327946	chr10:87362906:->chr10:87362458:-	11	153
3100	GRID1	ORF3	chr10:87362906:-:MIRc>chr10:87362458:-:ENST00000536331	chr10:87362906:->chr10:87362458:-	11	153
3101	SLC6A3	ORF1	chr5:1408358:-:AluSc8>chr5:1406403:-:ENST00000270349	chr5:1408358:->chr5:1406403:-	32	153
3102	SLC6A3	ORF1	chr5:1408358:-:AluSc8>chr5:1406403:-:ENST00000453492	chr5:1408358:->chr5:1406403:-	32	153
3103	COL23A1	ORF1	chr5:178001896:-:L3>chr5:177987749:-:ENST00000407622	chr5:178001896:->chr5:177987749:-	24	152
3104	CD74	ORF2	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000353334	chr5:149842358:->chr5:149786754:-	5	151
3105	CD82	ORF3	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000530601	chr11:44626051:+>chr11:44626608:+	20	151
3106	PDGFRA	ORF3	chr4:55109839:+:L1PA3>chr4:55124924:+:ENST00000512143	chr4:55109839:+>chr4:55124924:+	25	151
3107	FAIM2	ORF1	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000552863	chr12:50285280:->chr12:50284897:-	43	151
3108	ATP11A	ORF2	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000283558	chr13:113507475:+>chr13:113508593:+	7	151
3109	ATP11A	ORF2	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000375630	chr13:113507475:+>chr13:113508593:+	7	151
3110	ATP11A	ORF2	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000375645	chr13:113507475:+>chr13:113508593:+	7	151
3111	ATP11A	ORF2	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000487903	chr13:113507475:+>chr13:113508593:+	7	151
3112	ATP11A	ORF2	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000418678	chr13:113507475:+>chr13:113508593:+	7	151
3113	ATP11A	ORF2	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000471555	chr13:113507475:+>chr13:113508593:+	7	151
3114	TRPM1	ORF3	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000559179	chr15:31365913:->chr15:31362429:-	20	151
3115	GABRA5	ORF2	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000554599	chr15:27076933:+>chr15:27125993:+	13	151
3116	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000524315	chr5:149925791:->chr5:149792270:-	13	151
3117	TSHR	ORF1	chr14:81545280:+:MLT1H1>chr14:81554298:+:ENST00000342443	chr14:81545280:+>chr14:81554298:+	3	151
3118	LIG1	ORF1	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000594759	chr19:48627044:->chr19:48626575:-	17	150
3119	LIG1	ORF1	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000601091	chr19:48627044:->chr19:48626575:-	17	150
3120	SLCO3A1	ORF2	chr15:92016546:+:THE1D>chr15:92459223:+:ENST00000553304	chr15:92016546:+>chr15:92459223:+	22	150
3121	CMTM6	ORF3	chr3:32534075:-:L2c>chr3:32533378:-:ENST00000205636	chr3:32534075:->chr3:32533378:-	13	150
3122	CD81	ORF1	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000263645	chr11:2353285:+>chr11:2416688:+	45	149
3123	CD81	ORF1	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000492627	chr11:2353285:+>chr11:2416688:+	45	149
3124	CD81	ORF1	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000527343	chr11:2353285:+>chr11:2416688:+	45	149
3125	CD81	ORF1	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000464784	chr11:2353285:+>chr11:2416688:+	45	149
3126	CD81	ORF1	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000381036	chr11:2353285:+>chr11:2416688:+	45	149
3127	CD81	ORF1	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000526072	chr11:2353285:+>chr11:2416688:+	45	149
3128	CD81	ORF1	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000481687	chr11:2353285:+>chr11:2416688:+	45	149
3129	CNIH2	ORF1	chr11:66049045:+:L2b>chr11:66049730:+:ENST00000528852	chr11:66049045:+>chr11:66049730:+	24	149
3130	TRABD2A	ORF2	chr2:85053622:-:MIRc>chr2:85051328:-:ENST00000335459	chr2:85053622:->chr2:85051328:-	4	149
3131	TRABD2A	ORF2	chr2:85053622:-:MIRc>chr2:85051328:-:ENST00000409520	chr2:85053622:->chr2:85051328:-	4	149
3132	TFR2	ORF2	chr7:100230403:-:AluJr>chr7:100229772:-:ENST00000223051	chr7:100230403:->chr7:100229772:-	7	149
3133	TFR2	ORF2	chr7:100230403:-:AluJr>chr7:100229772:-:ENST00000462107	chr7:100230403:->chr7:100229772:-	7	149
3134	IL17RE	ORF3	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000454190	chr3:9953735:+>chr3:9955640:+	24	148
3135	ATP2B1	ORF1	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000550716	chr12:89994657:->chr12:89993076:-	23	148
3136	CLDN15	ORF1	chr7:100877907:-:AluSz>chr7:100877723:-:ENST00000308344	chr7:100877907:->chr7:100877723:-	33	148
3137	CLDN15	ORF1	chr7:100877907:-:AluSz>chr7:100877723:-:ENST00000401528	chr7:100877907:->chr7:100877723:-	33	148
3138	APP	ORF3	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000456209	chr21:27288399:->chr21:27284274:-	17	148
3139	ERBB2	ORF1	chr17:37849578:+:Tigger2a>chr17:37863243:+:ENST00000541774	chr17:37849578:+>chr17:37863243:+	64	148
3140	ERBB2	ORF1	chr17:37849578:+:Tigger2a>chr17:37863243:+:ENST00000584450	chr17:37849578:+>chr17:37863243:+	64	148
3141	ERBB2	ORF1	chr17:37849578:+:Tigger2a>chr17:37863243:+:ENST00000269571	chr17:37849578:+>chr17:37863243:+	64	148
3142	SLC46A1	ORF2	chr17:26733475:-:MIR>chr17:26733015:-:ENST00000321666	chr17:26733475:->chr17:26733015:-	23	147
3143	SLC46A1	ORF2	chr17:26733475:-:MIR>chr17:26733015:-:ENST00000440501	chr17:26733475:->chr17:26733015:-	23	147
3144	FAIM2	ORF1	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000550635	chr12:50285280:->chr12:50284897:-	43	147
3145	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000523208	chr5:149925791:->chr5:149792270:-	13	147
3146	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000361210	chr1:71507004:->chr1:71478167:-	43	146
3147	CLDN11	ORF2	chr3:170138615:+:MIRb>chr3:170140951:+:ENST00000064724	chr3:170138615:+>chr3:170140951:+	14	146
3148	CDH19	ORF3	chr18:64205766:-:L1MC4a>chr18:64202344:-:ENST00000579658	chr18:64205766:->chr18:64202344:-	9	146
3149	SLC2A5	ORF2	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000464985	chr1:9128439:->chr1:9118309:-	17	145

Table 15

3150	FLOT1	ORF3	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000438162	chr6:30708763:->chr6:30708575:-	11	145
3151	PDPN	ORF1	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000294489	chr1:13922564:+>chr1:13933668:+	5	145
3152	PDPN	ORF1	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000509009	chr1:13922564:+>chr1:13933668:+	5	145
3153	IFITM3	ORF2	chr11:323324:-:HERV3-int>chr11:320772:-:ENST00000399808	chr11:323324:->chr11:320772:-	24	144
3154	TM7SF3	ORF1	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000545303	chr12:27144286:->chr12:27143560:-	11	144
3155	CD40	ORF3	chr20:44752755:+:AluSx1>chr20:44755279:+:ENST00000372285	chr20:44752755:+>chr20:44755279:+	32	144
3156	PDPN	ORF1	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000510906	chr1:13922564:+>chr1:13933668:+	5	144
3157	ITM2B	ORF2	chr13:48791589:+:THE1C-int>chr13:48827944:+:ENST00000378549	chr13:48791589:+>chr13:48827944:+	22	143
3158	ATP2B1	ORF1	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000359142	chr12:89994657:->chr12:89993076:-	23	143
3159	CACNG4	ORF1	chr17:64988129:+:L2c>chr17:65014305:+:ENST00000262138	chr17:64988129:+>chr17:65014305:+	14	143
3160	CD74	ORF2	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000377795	chr5:149792056:->chr5:149786887:-	24	143
3161	PDPN	ORF1	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000376057	chr1:13922564:+>chr1:13933668:+	5	143
3162	LAPTM4B	ORF2	chr8:98817331:+:MER91A>chr8:98817581:+:ENST00000517924	chr8:98817331:+>chr8:98817581:+	22	141
3163	TTYH1	ORF3	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000445095	chr19:54930864:+>chr19:54932451:+	11	141
3164	IFITM3	ORF3	chr11:329148:-:AluY>chr11:320772:-:ENST00000399808	chr11:329148:->chr11:320772:-	21	141
3165	LAIR1	ORF1	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000391743	chr19:54868321:->chr19:54868228:-	5	141
3166	LAIR1	ORF1	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000348231	chr19:54868321:->chr19:54868228:-	5	141
3167	LAIR1	ORF1	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000391742	chr19:54868321:->chr19:54868228:-	5	141
3168	LAIR1	ORF1	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000434277	chr19:54868321:->chr19:54868228:-	5	141
3169	LAIR1	ORF1	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000313038	chr19:54868321:->chr19:54868228:-	5	141
3170	LAIR1	ORF1	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000474878	chr19:54868321:->chr19:54868228:-	5	141
3171	FZD6	ORF2	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000523933	chr8:104325460:+>chr8:104330818:+	68	141
3172	TTYH1	ORF1	chr19:54945078:+:MIRb>chr19:54946722:+:ENST00000376531	chr19:54945078:+>chr19:54946722:+	55	140
3173	SLC50A1	ORF2	chr1:155109004:+:AluY>chr1:155110037:+:ENST00000484157	chr1:155109004:+>chr1:155110037:+	13	140
3174	SLC50A1	ORF2	chr1:155109004:+:AluY>chr1:155110037:+:ENST00000368404	chr1:155109004:+>chr1:155110037:+	13	140
3175	SLC50A1	ORF2	chr1:155109004:+:AluY>chr1:155110037:+:ENST00000368401	chr1:155109004:+>chr1:155110037:+	13	140
3176	SLC2A1	ORF1	chr1:43427043:-:L2b>chr1:43408992:-:ENST00000415851	chr1:43427043:->chr1:43408992:-	26	140
3177	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000522246	chr5:149925791:->chr5:149792301:-	21	140
3178	ERBB2	ORF2	chr17:37861418:+:MIRb>chr17:37863243:+:ENST00000582648	chr17:37861418:+>chr17:37863243:+	67	139
3179	FAIM2	ORF2	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000552863	chr12:50285280:->chr12:50284897:-	7	139
3180	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000438162	chr6:30708813:->chr6:30708539:-	17	139
3181	KCNQ2	ORF3	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000357249	chr20:62065933:->chr20:62065256:-	81	139
3182	KCNQ2	ORF3	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000359125	chr20:62065933:->chr20:62065256:-	81	139
3183	KCNQ2	ORF3	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000359689	chr20:62065933:->chr20:62065256:-	81	139
3184	KCNQ2	ORF3	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000344462	chr20:62065933:->chr20:62065256:-	81	139
3185	CDHR2	ORF2	chr5:176017786:+:MIRb>chr5:176018211:+:ENST00000510636	chr5:176017786:+>chr5:176018211:+	7	138
3186	CDHR2	ORF2	chr5:176017786:+:MIRb>chr5:176018211:+:ENST00000261944	chr5:176017786:+>chr5:176018211:+	7	138
3187	CDHR2	ORF2	chr5:176017786:+:MIRb>chr5:176018211:+:ENST00000506348	chr5:176017786:+>chr5:176018211:+	7	138
3188	CD74	ORF2	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000522246	chr5:149832091:->chr5:149792292:-	22	138
3189	ITGA3	ORF3	chr17:48150385:+:Tigger15a>chr17:48151280:+:ENST00000544892	chr17:48150385:+>chr17:48151280:+	4	138
3190	NTSR1	ORF2	chr20:61368391:+:THE1D>chr20:61386037:+:ENST00000370501	chr20:61368391:+>chr20:61386037:+	45	138
3191	FLOT1	ORF3	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000438162	chr6:30708853:->chr6:30708575:-	3	137
3192	ROR2	ORF3	chr9:94493912:-:MIR>chr9:94493437:-:ENST00000375715	chr9:94493912:->chr9:94493437:-	6	137
3193	ROR2	ORF3	chr9:94493912:-:MIR>chr9:94493437:-:ENST00000375708	chr9:94493912:->chr9:94493437:-	6	137
3194	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000479353	chr1:71507004:->chr1:71478167:-	43	137
3195	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87016873:-:ENST00000283635	chr2:87028634:->chr2:87016873:-	36	137
3196	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87016873:-:ENST00000409511	chr2:87028634:->chr2:87016873:-	36	137
3197	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87016873:-:ENST00000538832	chr2:87028634:->chr2:87016873:-	36	137
3198	ERBB2	ORF1	chr17:37849578:+:Tigger2a>chr17:37863243:+:ENST00000582648	chr17:37849578:+>chr17:37863243:+	64	137
3199	PLSCR1	ORF2	chr3:146265863:-:L1MA8>chr3:146239794:-:ENST00000486631	chr3:146265863:->chr3:146239794:-	18	137
3200	F2RL1	ORF1	chr5:76108296:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108296:+>chr5:76128515:+	91	136
3201	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000432245	chr15:74490651:->chr15:74490159:-	14	136
3202	LAIR1	ORF2	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000391741	chr19:54880625:->chr19:54875937:-	20	136
3203	PODXL	ORF1	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000446198	chr7:131202421:->chr7:131196192:-	4	136
3204	PODXL	ORF1	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000537928	chr7:131202421:->chr7:131196192:-	4	136
3205	PODXL	ORF1	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000541194	chr7:131202421:->chr7:131196192:-	4	136
3206	PODXL	ORF1	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000378555	chr7:131202421:->chr7:131196192:-	4	136
3207	PODXL	ORF1	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000322985	chr7:131202421:->chr7:131196192:-	4	136
3208	NRXN1	ORF2	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000342183	chr2:50243636:->chr2:50170929:-	4	135
3209	NRXN1	ORF2	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000412315	chr2:50243636:->chr2:50170929:-	4	135
3210	NRXN1	ORF2	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000378262	chr2:50243636:->chr2:50170929:-	4	135
3211	NRXN1	ORF2	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000401710	chr2:50243636:->chr2:50170929:-	4	135
3212	NRXN1	ORF2	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000404971	chr2:50243636:->chr2:50170929:-	4	135
3213	NRXN1	ORF2	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000406316	chr2:50243636:->chr2:50170929:-	4	135
3214	NRXN1	ORF2	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000405472	chr2:50243636:->chr2:50170929:-	4	135
3215	NRXN1	ORF2	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000401669	chr2:50243636:->chr2:50170929:-	4	135
3216	NRXN1	ORF2	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000402717	chr2:50243636:->chr2:50170929:-	4	135
3217	NRXN1	ORF2	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000406859	chr2:50243636:->chr2:50170929:-	4	135
3218	TFR2	ORF3	chr7:100230403:-:AluJr>chr7:100229568:-:ENST00000223051	chr7:100230403:->chr7:100229568:-	16	135
3219	TFR2	ORF3	chr7:100230403:-:AluJr>chr7:100229568:-:ENST00000462107	chr7:100230403:->chr7:100229568:-	16	135
3220	CD81	ORF3	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000533417	chr11:2411228:+>chr11:2411642:+	4	135
3221	CD74	ORF2	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000524315	chr5:149792056:->chr5:149786887:-	24	135

Table 15

3222	CLDN15	ORF2	chr7:100877907:-:AluSz>chr7:100877712:-:ENST00000308344	chr7:100877907:->chr7:100877712:-	24	135
3223	CLDN15	ORF2	chr7:100877907:-:AluSz>chr7:100877712:-:ENST00000401528	chr7:100877907:->chr7:100877712:-	24	135
3224	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000370931	chr1:71507004:->chr1:71478167:-	43	134
3225	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000414819	chr1:71507004:->chr1:71478167:-	43	134
3226	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000306666	chr1:71507004:->chr1:71478167:-	43	134
3227	SLCO3A1	ORF1	chr15:92396760:+:G-rich>chr15:92459223:+:ENST00000553304	chr15:92396760:+>chr15:92459223:+	6	134
3228	TSPAN14	ORF3	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000429989	chr10:82214127:+>chr10:82264484:+	11	134
3229	TSPAN14	ORF3	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000372158	chr10:82214127:+>chr10:82264484:+	11	134
3230	TSPAN14	ORF3	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000372156	chr10:82214127:+>chr10:82264484:+	11	134
3231	ADAM9	ORF3	chr8:38946750:+:AluSx3>chr8:38947566:+:ENST00000487273	chr8:38946750:+>chr8:38947566:+	4	134
3232	EPCAM	ORF2	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000419334	chr2:47553008:+>chr2:47600602:+	36	134
3233	ERBB2	ORF1	chr17:37861418:+:MIRb>chr17:37863243:+:ENST00000541774	chr17:37861418:+>chr17:37863243:+	50	134
3234	ERBB2	ORF1	chr17:37861418:+:MIRb>chr17:37863243:+:ENST00000584450	chr17:37861418:+>chr17:37863243:+	50	134
3235	ERBB2	ORF1	chr17:37861418:+:MIRb>chr17:37863243:+:ENST00000269571	chr17:37861418:+>chr17:37863243:+	50	134
3236	TTYH1	ORF2	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000445095	chr19:54930716:+>chr19:54932451:+	4	134
3237	NTSR1	ORF2	chr20:61385405:+:MIRb>chr20:61386037:+:ENST00000370501	chr20:61385405:+>chr20:61386037:+	41	134
3238	KCNQ2	ORF3	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000344425	chr20:62065933:->chr20:62065256:-	81	134
3239	TFR2	ORF3	chr7:100230403:-:AluJr>chr7:100229772:-:ENST00000490084	chr7:100230403:->chr7:100229772:-	16	134
3240	ENPEP	ORF3	chr4:111472030:+:ERVL-E-int>chr4:111474471:+:ENST00000265162	chr4:111472030:+>chr4:111474471:+	10	134
3241	PLSCR1	ORF2	chr3:146265863:-:L1MA8>chr3:146239794:-:ENST00000472349	chr3:146265863:->chr3:146239794:-	18	134
3242	ERBB2	ORF2	chr17:37861418:+:MIRb>chr17:37863243:+:ENST00000578373	chr17:37861418:+>chr17:37863243:+	67	133
3243	APLP2	ORF2	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000533195	chr11:129977538:+>chr11:129979324:+	35	133
3244	GABRA5	ORF2	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000554596	chr15:27076933:+>chr15:27125993:+	13	133
3245	SLC39A11	ORF3	chr17:70695201:-:AluY>chr17:70645407:-:ENST00000255559	chr17:70695201:->chr17:70645407:-	21	133
3246	SLC39A11	ORF3	chr17:70695201:-:AluY>chr17:70645407:-:ENST00000542342	chr17:70695201:->chr17:70645407:-	21	133
3247	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000370924	chr1:71507004:->chr1:71478167:-	43	132
3248	MCOLN1	ORF2	chr19:7590196:+:AluSx1>chr19:7591325:+:ENST00000601003	chr19:7590196:+>chr19:7591325:+	11	132
3249	NTSR1	ORF1	chr20:61385398:+:MIRb>chr20:61386037:+:ENST00000370501	chr20:61385398:+>chr20:61386037:+	39	132
3250	C19orf26	ORF3	chr19:1232910:-:MIR3>chr19:1231274:-:ENST00000590083	chr19:1232910:->chr19:1231274:-	5	132
3251	C19orf26	ORF3	chr19:1232910:-:MIR3>chr19:1231274:-:ENST00000215376	chr19:1232910:->chr19:1231274:-	5	132
3252	TTYH1	ORF1	chr19:54945078:+:MIRb>chr19:54946722:+:ENST00000301194	chr19:54945078:+>chr19:54946722:+	55	131
3253	VMP1	ORF3	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000591877	chr17:57893935:+>chr17:57895073:+	16	131
3254	PDGFRA	ORF2	chr4:55096106:+:G-rich>chr4:55124924:+:ENST00000512143	chr4:55096106:+>chr4:55124924:+	5	131
3255	FAS	ORF1	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000484444	chr10:90713663:+>chr10:90762786:+	38	131
3256	KIRREL3	ORF3	chr11:126423799:-:MER21-int>chr11:126396582:-:ENST00000525144	chr11:126423799:->chr11:126396582:-	28	131
3257	KIRREL3	ORF3	chr11:126423799:-:MER21-int>chr11:126396582:-:ENST00000529097	chr11:126423799:->chr11:126396582:-	28	131
3258	KIRREL3	ORF3	chr11:126423799:-:MER21-int>chr11:126396582:-:ENST00000525704	chr11:126423799:->chr11:126396582:-	28	131
3259	GRIA1	ORF3	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000285900	chr5:153150672:+>chr5:153181916:+	20	131
3260	GRIA1	ORF3	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000518142	chr5:153150672:+>chr5:153181916:+	20	131
3261	GRIA1	ORF3	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000340592	chr5:153150672:+>chr5:153181916:+	20	131
3262	GRIA1	ORF3	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000521843	chr5:153150672:+>chr5:153181916:+	20	131
3263	GRIA1	ORF3	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000448073	chr5:153150672:+>chr5:153181916:+	20	131
3264	GRIA1	ORF3	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000518783	chr5:153150672:+>chr5:153181916:+	20	131
3265	CD74	ORF2	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000353334	chr5:149792056:->chr5:149786887:-	24	131
3266	CD74	ORF2	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000518797	chr5:149792056:->chr5:149786887:-	24	131
3267	CD74	ORF2	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000009530	chr5:149792056:->chr5:149786887:-	24	131
3268	CD74	ORF2	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000523208	chr5:149792056:->chr5:149786887:-	24	131
3269	GYPC	ORF3	chr2:127421065:+:MIRc>chr2:127447831:+:ENST00000259254	chr2:127421065:+>chr2:127447831:+	19	131
3270	ERBB2	ORF1	chr17:37849578:+:Tigger2a>chr17:37863243:+:ENST00000578373	chr17:37849578:+>chr17:37863243:+	64	131
3271	ADTRP	ORF3	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000379413	chr6:11748704:->chr6:11735916:-	6	131
3272	TTYH1	ORF1	chr19:54945078:+:MIRb>chr19:54946722:+:ENST00000376530	chr19:54945078:+>chr19:54946722:+	55	130
3273	PVRL2	ORF3	chr19:45365943:+:L1PA10>chr19:45368528:+:ENST00000252485	chr19:45365943:+>chr19:45368528:+	72	130
3274	PVRL2	ORF3	chr19:45365943:+:L1PA10>chr19:45368528:+:ENST00000252483	chr19:45365943:+>chr19:45368528:+	72	130
3275	HCN2	ORF1	chr19:609804:+:AluJo>chr19:610259:+:ENST00000251287	chr19:609804:+>chr19:610259:+	52	130
3276	GPR176	ORF3	chr15:40186077:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186077:->chr15:40099459:-	58	130
3277	GPR176	ORF3	chr15:40186077:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186077:->chr15:40099459:-	58	130
3278	CD22	ORF3	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000270311	chr19:35834869:+>chr19:35835736:+	27	130
3279	NRP1	ORF2	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374822	chr10:33497207:->chr10:33496644:-	24	130
3280	CRB2	ORF1	chr9:126117568:+:L3b>chr9:126125144:+:ENST00000359999	chr9:126117568:+>chr9:126125144:+	21	130
3281	CRB2	ORF1	chr9:126117568:+:L3b>chr9:126125144:+:ENST00000373631	chr9:126117568:+>chr9:126125144:+	21	130
3282	KCNQ2	ORF2	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000344425	chr20:62065933:->chr20:62065256:-	77	130
3283	CD81	ORF1	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000492252	chr11:2353285:+>chr11:2416688:+	45	129
3284	CLDN15	ORF1	chr7:100877859:-:AluSz>chr7:100877723:-:ENST00000308344	chr7:100877859:->chr7:100877723:-	14	129
3285	CLDN15	ORF1	chr7:100877859:-:AluSz>chr7:100877723:-:ENST00000401528	chr7:100877859:->chr7:100877723:-	14	129
3286	PERP	ORF1	chr6:138424827:-:MER1A>chr6:138417631:-:ENST00000421351	chr6:138424827:->chr6:138417631:-	7	129
3287	SLC38A1	ORF2	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000398637	chr12:46585300:->chr12:46582854:-	96	129
3288	SLC38A1	ORF2	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000549049	chr12:46585300:->chr12:46582854:-	96	129
3289	SLC38A1	ORF2	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000439706	chr12:46585300:->chr12:46582854:-	96	129
3290	SLC38A1	ORF2	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000546893	chr12:46585300:->chr12:46582854:-	96	129
3291	GPR176	ORF1	chr15:40185902:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40185902:->chr15:40099459:-	57	129
3292	GPR176	ORF1	chr15:40185902:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40185902:->chr15:40099459:-	57	129
3293	KCNQ2	ORF3	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000354587	chr20:62065933:->chr20:62065256:-	81	129

Table 15

3294	KCNQ2	ORF3	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000360480	chr20:62065933:->chr20:62065256:-	81	129
3295	KCNQ2	ORF3	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000370224	chr20:62065933:->chr20:62065256:-	81	129
3296	TSHR	ORF1	chr14:81545280:+:MLT1H1>chr14:81554298:+:ENST00000554263	chr14:81545280:+>chr14:81554298:+	3	129
3297	JPH2	ORF1	chr20:42754145:-:MIRb>chr20:42747263:-:ENST00000372980	chr20:42754145:->chr20:42747263:-	11	128
3298	BTN3A2	ORF2	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000532865	chr6:26370250:+>chr6:26370550:+	34	128
3299	GPR39	ORF3	chr2:133325151:+:MSTC>chr2:133402674:+:ENST00000329321	chr2:133325151:+>chr2:133402674:+	8	128
3300	NRP1	ORF3	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374823	chr10:33497207:->chr10:33496644:-	23	128
3301	FLOT1	ORF3	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000445853	chr6:30708763:->chr6:30708575:-	11	128
3302	GGT1	ORF2	chr22:25020113:+:L2>chr22:25023399:+:ENST00000412658	chr22:25020113:+>chr22:25023399:+	5	128
3303	PERP	ORF1	chr6:138423021:-:MER5A1>chr6:138417631:-:ENST00000421351	chr6:138423021:->chr6:138417631:-	5	127
3304	NRP1	ORF2	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374816	chr10:33497207:->chr10:33496644:-	24	127
3305	NRP1	ORF3	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374816	chr10:33497207:->chr10:33496644:-	23	127
3306	RHBG	ORF2	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368246	chr1:156337862:+>chr1:156339110:+	24	127
3307	RHBG	ORF2	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368249	chr1:156337862:+>chr1:156339110:+	24	127
3308	TMEM8C	ORF2	chr9:136393545:-:MIRc>chr9:136389925:-:ENST00000339996	chr9:136393545:->chr9:136389925:-	30	126
3309	CDH26	ORF2	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000244049	chr20:58573800:+>chr20:58574641:+	8	126
3310	TM7SF3	ORF1	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000543655	chr12:27144286:->chr12:27143560:-	11	126
3311	TM7SF3	ORF1	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000535819	chr12:27144286:->chr12:27143560:-	11	126
3312	PPAP2C	ORF2	chr19:282661:-:MIR3>chr19:282310:-:ENST00000269812	chr19:282661:->chr19:282310:-	18	126
3313	PPAP2C	ORF2	chr19:282661:-:MIR3>chr19:282310:-:ENST00000434325	chr19:282661:->chr19:282310:-	18	126
3314	PPAP2C	ORF2	chr19:282661:-:MIR3>chr19:282310:-:ENST00000327790	chr19:282661:->chr19:282310:-	18	126
3315	ABCA7	ORF1	chr19:1064746:+:AluJr>chr19:1064930:+:ENST00000263094	chr19:1064746:+>chr19:1064930:+	4	126
3316	ABCA7	ORF1	chr19:1064746:+:AluJr>chr19:1064930:+:ENST00000433129	chr19:1064746:+>chr19:1064930:+	4	126
3317	ABCA7	ORF1	chr19:1064746:+:AluJr>chr19:1064930:+:ENST00000435683	chr19:1064746:+>chr19:1064930:+	4	126
3318	ABCA7	ORF1	chr19:1064746:+:AluJr>chr19:1064930:+:ENST00000525073	chr19:1064746:+>chr19:1064930:+	4	126
3319	KIAA1324	ORF2	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000526264	chr1:109695471:+>chr1:109704516:+	22	126
3320	EPHB1	ORF1	chr3:134724968:+:THE1D>chr3:134825290:+:ENST00000398015	chr3:134724968:+>chr3:134825290:+	41	126
3321	SLC6A3	ORF3	chr5:1408358:-:AluSc8>chr5:1406403:-:ENST00000270349	chr5:1408358:->chr5:1406403:-	23	125
3322	SLC6A3	ORF3	chr5:1408358:-:AluSc8>chr5:1406403:-:ENST00000453492	chr5:1408358:->chr5:1406403:-	23	125
3323	SLC39A11	ORF2	chr17:70670643:-:L1MC4a>chr17:70645407:-:ENST00000255559	chr17:70670643:->chr17:70645407:-	13	125
3324	SLC39A11	ORF2	chr17:70670643:-:L1MC4a>chr17:70645407:-:ENST00000542342	chr17:70670643:->chr17:70645407:-	13	125
3325	TTYH3	ORF1	chr7:2682079:+:AluSx>chr7:2686487:+:ENST00000400376	chr7:2682079:+>chr7:2686487:+	57	125
3326	NKAIN3	ORF2	chr8:63315263:+:THE1C>chr8:63492098:+:ENST00000524201	chr8:63315263:+>chr8:63492098:+	42	125
3327	GPR39	ORF1	chr2:133363763:+:MIRb>chr2:133402674:+:ENST00000329321	chr2:133363763:+>chr2:133402674:+	5	125
3328	TFR2	ORF1	chr7:100230403:-:AluJr>chr7:100229568:-:ENST00000490084	chr7:100230403:->chr7:100229568:-	30	125
3329	AHCYL1	ORF2	chr1:110546029:+:L1MC4>chr1:110551656:+:ENST00000369799	chr1:110546029:+>chr1:110551656:+	58	125
3330	VAMP8	ORF2	chr2:85802808:+:AluSq2>chr2:85806132:+:ENST00000263864	chr2:85802808:+>chr2:85806132:+	25	124
3331	SLC2A1	ORF3	chr1:43419630:-:MIRb>chr1:43408992:-:ENST00000415851	chr1:43419630:->chr1:43408992:-	10	124
3332	PLVAP	ORF1	chr19:17483514:-:AluY>chr19:17476268:-:ENST00000252590	chr19:17483514:->chr19:17476268:-	17	124
3333	KIRREL	ORF1	chr1:157968151:+:Charlie18a>chr1:158045903:+:ENST00000368173	chr1:157968151:+>chr1:158045903:+	12	124
3334	KIRREL	ORF1	chr1:157968151:+:Charlie18a>chr1:158045903:+:ENST00000359209	chr1:157968151:+>chr1:158045903:+	12	124
3335	KCNQ2	ORF2	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000357249	chr20:62065933:->chr20:62065256:-	77	124
3336	KCNQ2	ORF2	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000359125	chr20:62065933:->chr20:62065256:-	77	124
3337	KCNQ2	ORF2	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000359689	chr20:62065933:->chr20:62065256:-	77	124
3338	KCNQ2	ORF2	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000344462	chr20:62065933:->chr20:62065256:-	77	124
3339	CD40	ORF1	chr20:44752755:+:AluSx1>chr20:44756777:+:ENST00000372285	chr20:44752755:+>chr20:44756777:+	33	124
3340	VAMP8	ORF2	chr2:85802808:+:AluSq2>chr2:85806132:+:ENST00000409760	chr2:85802808:+>chr2:85806132:+	25	123
3341	CD74	ORF1	chr5:149806595:-:AluSx1>chr5:149782852:-:ENST00000518797	chr5:149806595:->chr5:149782852:-	18	123
3342	PKD1	ORF3	chr16:2142838:-:MER20>chr16:2142593:-:ENST00000262304	chr16:2142838:->chr16:2142593:-	17	123
3343	PKD1	ORF3	chr16:2142838:-:MER20>chr16:2142593:-:ENST00000423118	chr16:2142838:->chr16:2142593:-	17	123
3344	ERBB2	ORF1	chr17:37861418:+:MIRb>chr17:37863243:+:ENST00000582648	chr17:37861418:+>chr17:37863243:+	50	123
3345	KIAA1324	ORF2	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000534476	chr1:109695471:+>chr1:109704516:+	22	123
3346	VAMP5	ORF2	chr2:85811992:+:MIR>chr2:85818852:+:ENST00000306384	chr2:85811992:+>chr2:85818852:+	9	123
3347	NRG3	ORF2	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000372141	chr10:84403183:+>chr10:84498333:+	45	123
3348	NRG3	ORF2	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000404547	chr10:84403183:+>chr10:84498333:+	45	123
3349	NRG3	ORF2	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000372142	chr10:84403183:+>chr10:84498333:+	45	123
3350	NRG3	ORF2	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000404576	chr10:84403183:+>chr10:84498333:+	45	123
3351	NRG3	ORF2	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000556918	chr10:84403183:+>chr10:84498333:+	45	123
3352	ERBB2	ORF1	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000584450	chr17:37882405:+>chr17:37882815:+	24	122
3353	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000445853	chr6:30708813:->chr6:30708539:-	17	122
3354	HM13	ORF1	chr20:30153664:+:MER5A>chr20:30154013:+:ENST00000398174	chr20:30153664:+>chr20:30154013:+	12	122
3355	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000278386	chr11:35110122:+>chr11:35198122:+	5	122
3356	FAM168B	ORF1	chr2:131824664:-:THE1B>chr2:131813268:-:ENST00000409185	chr2:131824664:->chr2:131813268:-	11	121
3357	FAM168B	ORF1	chr2:131824664:-:THE1B>chr2:131813268:-:ENST00000389915	chr2:131824664:->chr2:131813268:-	11	121
3358	IGSF9B	ORF1	chr11:133784211:-:MIRb>chr11:133781902:-:ENST00000533871	chr11:133784211:->chr11:133781902:-	11	121
3359	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000278386	chr11:35195735:+>chr11:35198122:+	4	121
3360	ERBB2	ORF1	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000582648	chr17:37861414:+>chr17:37863243:+	49	121
3361	NMUR2	ORF3	chr5:151774377:-:MIRc>chr5:151772062:-:ENST00000255262	chr5:151774377:->chr5:151772062:-	18	121
3362	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000522246	chr5:149925791:->chr5:149792270:-	13	121
3363	ANO10	ORF1	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000414522	chr3:43592944:->chr3:43591340:-	49	120
3364	FLOT1	ORF3	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000445853	chr6:30708853:->chr6:30708575:-	3	120
3365	NRP1	ORF3	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000265371	chr10:33497207:->chr10:33496644:-	23	120

Table 15

3366	NRP1	ORF3	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374867	chr10:33497207:->chr10:33496644:-	23	120
3367	NRP1	ORF3	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000395995	chr10:33497207:->chr10:33496644:-	23	120
3368	NRP1	ORF3	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374822	chr10:33497207:->chr10:33496644:-	23	120
3369	SLC39A11	ORF2	chr17:70666923:-:L1MC4a>chr17:70645407:-:ENST00000255559	chr17:70666923:->chr17:70645407:-	8	120
3370	SLC39A11	ORF2	chr17:70666923:-:L1MC4a>chr17:70645407:-:ENST00000542342	chr17:70666923:->chr17:70645407:-	8	120
3371	CD86	ORF2	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000264468	chr3:121681042:+>chr3:121810448:+	7	119
3372	F2RL1	ORF2	chr5:76108438:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108438:+>chr5:76128515:+	74	119
3373	RHBG	ORF3	chr1:156337862:+:L2c>chr1:156344398:+:ENST00000544720	chr1:156337862:+>chr1:156344398:+	84	119
3374	RHBG	ORF3	chr1:156337862:+:L2c>chr1:156344398:+:ENST00000368247	chr1:156337862:+>chr1:156344398:+	84	119
3375	RHBG	ORF3	chr1:156337862:+:L2c>chr1:156344398:+:ENST00000368245	chr1:156337862:+>chr1:156344398:+	84	119
3376	BST2	ORF2	chr19:17562617:-:AluJo>chr19:17516147:-:ENST00000252593	chr19:17562617:->chr19:17516147:-	17	118
3377	VMP1	ORF3	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000262291	chr17:57893935:+>chr17:57895073:+	16	118
3378	VMP1	ORF3	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000537567	chr17:57893935:+>chr17:57895073:+	16	118
3379	VMP1	ORF3	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000539763	chr17:57893935:+>chr17:57895073:+	16	118
3380	VMP1	ORF3	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000536180	chr17:57893935:+>chr17:57895073:+	16	118
3381	VMP1	ORF3	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000545362	chr17:57893935:+>chr17:57895073:+	16	118
3382	CACNG7	ORF1	chr19:54418244:+:AluSx>chr19:54418619:+:ENST00000391766	chr19:54418244:+>chr19:54418619:+	14	118
3383	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000460330	chr1:71507004:->chr1:71478167:-	43	118
3384	SLC9A1	ORF2	chr1:27461002:-:MIRb>chr1:27440777:-:ENST00000263980	chr1:27461002:->chr1:27440777:-	19	118
3385	SLC9A1	ORF2	chr1:27461002:-:MIRb>chr1:27440777:-:ENST00000374086	chr1:27461002:->chr1:27440777:-	19	118
3386	C1orf186	ORF2	chr1:206277067:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206277067:->chr1:206243250:-	81	118
3387	SCARB1	ORF3	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000545493	chr12:125337015:->chr12:125302253:-	14	118
3388	ABCC6	ORF2	chr16:16247966:-:AluJb>chr16:16244629:-:ENST00000205557	chr16:16247966:->chr16:16244629:-	16	117
3389	SCNN1A	ORF2	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000360168	chr12:6517023:->chr12:6483811:-	20	117
3390	SCNN1A	ORF2	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000358945	chr12:6517023:->chr12:6483811:-	20	117
3391	SCNN1A	ORF2	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000228916	chr12:6517023:->chr12:6483811:-	20	117
3392	SCNN1A	ORF2	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000338748	chr12:6517023:->chr12:6483811:-	20	117
3393	SCNN1A	ORF2	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000396966	chr12:6517023:->chr12:6483811:-	20	117
3394	SCNN1A	ORF2	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000543768	chr12:6517023:->chr12:6483811:-	20	117
3395	FAM168B	ORF2	chr2:131824664:-:THE1B>chr2:131813268:-:ENST00000409185	chr2:131824664:->chr2:131813268:-	29	117
3396	FAM168B	ORF2	chr2:131824664:-:THE1B>chr2:131813268:-:ENST00000389915	chr2:131824664:->chr2:131813268:-	29	117
3397	CD99L2	ORF3	chrX:149996779:-:MIR>chrX:149963959:-:ENST00000418547	chrX:149996779:->chrX:149963959:-	15	117
3398	SLC2A1	ORF1	chr1:43409704:-:MIR3>chr1:43408992:-:ENST00000415851	chr1:43409704:->chr1:43408992:-	3	117
3399	ERBB2	ORF1	chr17:37861418:+:MIRb>chr17:37863243:+:ENST00000578373	chr17:37861418:+>chr17:37863243:+	50	117
3400	ERBB2	ORF3	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000541774	chr17:37861414:+>chr17:37863243:+	33	117
3401	ERBB2	ORF3	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000584450	chr17:37861414:+>chr17:37863243:+	33	117
3402	ERBB2	ORF3	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000269571	chr17:37861414:+>chr17:37863243:+	33	117
3403	KIRREL3	ORF1	chr11:126310717:-:L2c>chr11:126310444:-:ENST00000525144	chr11:126310717:->chr11:126310444:-	25	117
3404	KIRREL3	ORF1	chr11:126310717:-:L2c>chr11:126310444:-:ENST00000529097	chr11:126310717:->chr11:126310444:-	25	117
3405	KIRREL3	ORF1	chr11:126310717:-:L2c>chr11:126310444:-:ENST00000525704	chr11:126310717:->chr11:126310444:-	25	117
3406	SLC47A2	ORF1	chr17:19600139:-:MSTD>chr17:19584983:-:ENST00000325411	chr17:19600139:->chr17:19584983:-	40	117
3407	SLC47A2	ORF1	chr17:19600139:-:MSTD>chr17:19584983:-:ENST00000350657	chr17:19600139:->chr17:19584983:-	40	117
3408	SLC2A9	ORF1	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000513129	chr4:9996312:->chr4:9987417:-	26	117
3409	TMIGD2	ORF3	chr19:4294283:-:AluSx1>chr19:4292882:-:ENST00000595645	chr19:4294283:->chr19:4292882:-	22	117
3410	TMIGD2	ORF3	chr19:4294283:-:AluSx1>chr19:4292882:-:ENST00000301272	chr19:4294283:->chr19:4292882:-	22	117
3411	TMIGD2	ORF3	chr19:4294283:-:AluSx1>chr19:4292882:-:ENST00000600114	chr19:4294283:->chr19:4292882:-	22	117
3412	TMIGD2	ORF3	chr19:4294283:-:AluSx1>chr19:4292882:-:ENST00000600349	chr19:4294283:->chr19:4292882:-	22	117
3413	CLSTN3	ORF1	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000541953	chr12:7284070:+>chr12:7285620:+	4	117
3414	CDH17	ORF1	chr8:95148851:-:L1PA6>chr8:95143220:-:ENST00000027335	chr8:95148851:->chr8:95143220:-	6	116
3415	CDH17	ORF1	chr8:95148851:-:L1PA6>chr8:95143220:-:ENST00000450165	chr8:95148851:->chr8:95143220:-	6	116
3416	PVRL2	ORF3	chr19:45386897:+:AluJb>chr19:45389194:+:ENST00000252483	chr19:45386897:+>chr19:45389194:+	21	116
3417	CD8A	ORF2	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000283635	chr2:87017176:->chr2:87016873:-	15	116
3418	CD8A	ORF2	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000409511	chr2:87017176:->chr2:87016873:-	15	116
3419	CD8A	ORF2	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000538832	chr2:87017176:->chr2:87016873:-	15	116
3420	KIRREL	ORF1	chr1:157968151:+:Charlie18a>chr1:158045903:+:ENST00000392272	chr1:157968151:+>chr1:158045903:+	12	116
3421	APLP2	ORF2	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000534582	chr11:129977538:+>chr11:129979324:+	35	116
3422	TMEM63B	ORF3	chr6:44119935:+:MIR3>chr6:44120330:+:ENST00000533121	chr6:44119935:+>chr6:44120330:+	23	116
3423	FCRL5	ORF2	chr1:157517430:-:MIR3>chr1:157516987:-:ENST00000368188	chr1:157517430:->chr1:157516987:-	9	116
3424	PPAP2A	ORF3	chr5:54723765:-:AluSq>chr5:54721867:-:ENST00000264775	chr5:54723765:->chr5:54721867:-	15	116
3425	PPAP2A	ORF3	chr5:54723765:-:AluSq>chr5:54721867:-:ENST00000307259	chr5:54723765:->chr5:54721867:-	15	116
3426	CNGA1	ORF1	chr4:48012811:-:LTR17>chr4:47954720:-:ENST00000402813	chr4:48012811:->chr4:47954720:-	87	115
3427	ERBB2	ORF1	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000578373	chr17:37861414:+>chr17:37863243:+	49	115
3428	SGCB	ORF2	chr4:52913266:-:THE1B>chr4:52899806:-:ENST00000506357	chr4:52913266:->chr4:52899806:-	21	114
3429	SGCB	ORF2	chr4:52913266:-:THE1B>chr4:52899806:-:ENST00000514133	chr4:52913266:->chr4:52899806:-	21	114
3430	FAS	ORF1	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000479522	chr10:90713663:+>chr10:90762786:+	38	114
3431	SGCB	ORF3	chr4:52915523:-:THE1B>chr4:52899806:-:ENST00000506357	chr4:52915523:->chr4:52899806:-	21	114
3432	SGCB	ORF3	chr4:52915523:-:THE1B>chr4:52899806:-:ENST00000514133	chr4:52915523:->chr4:52899806:-	21	114
3433	ABCC5	ORF1	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000437341	chr3:183707518:->chr3:183707171:-	10	114
3434	KCNQ2	ORF2	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000354587	chr20:62065933:->chr20:62065256:-	77	114
3435	KCNQ2	ORF2	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000360480	chr20:62065933:->chr20:62065256:-	77	114
3436	KCNQ2	ORF2	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000370224	chr20:62065933:->chr20:62065256:-	77	114
3437	EPCAM	ORF2	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000419334	chr2:47599545:+>chr2:47600602:+	16	114

Table 15

3438	GRM8	ORF2	chr7:126136413:-:MIR3>chr7:126086426:-:ENST00000444921	chr7:126136413:->chr7:126086426:-	15	113
3439	GRM8	ORF2	chr7:126136413:-:MIR3>chr7:126086426:-:ENST00000339582	chr7:126136413:->chr7:126086426:-	15	113
3440	GRM8	ORF2	chr7:126136413:-:MIR3>chr7:126086426:-:ENST00000358373	chr7:126136413:->chr7:126086426:-	15	113
3441	GRM8	ORF2	chr7:126136413:-:MIR3>chr7:126086426:-:ENST00000472701	chr7:126136413:->chr7:126086426:-	15	113
3442	ABCC6	ORF1	chr16:16247966:-:AluJb>chr16:16244629:-:ENST00000205557	chr16:16247966:->chr16:16244629:-	12	113
3443	IL17RE	ORF2	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000421412	chr3:9953735:+>chr3:9955640:+	13	113
3444	IL17RE	ORF2	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000295980	chr3:9953735:+>chr3:9955640:+	13	113
3445	IL17RE	ORF2	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000383814	chr3:9953735:+>chr3:9955640:+	13	113
3446	ADIPOR1	ORF3	chr1:202912195:-:AluSx1>chr1:202911346:-:ENST00000340990	chr1:202912195:->chr1:202911346:-	6	113
3447	ADIPOR1	ORF3	chr1:202912195:-:AluSx1>chr1:202911346:-:ENST00000436244	chr1:202912195:->chr1:202911346:-	6	113
3448	ABCC1	ORF1	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000399410	chr16:16086109:+>chr16:16101673:+	69	113
3449	ABCC1	ORF1	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000345148	chr16:16086109:+>chr16:16101673:+	69	113
3450	ABCC1	ORF1	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000346370	chr16:16086109:+>chr16:16101673:+	69	113
3451	ABCC1	ORF1	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000349029	chr16:16086109:+>chr16:16101673:+	69	113
3452	ABCC1	ORF1	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000351154	chr16:16086109:+>chr16:16101673:+	69	113
3453	ABCC1	ORF1	chr16:16086109:+:MER1A>chr16:16101673:+:ENST00000399408	chr16:16086109:+>chr16:16101673:+	69	113
3454	NRP1	ORF3	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374875	chr10:33497207:->chr10:33496644:-	23	113
3455	TTYH1	ORF1	chr19:54945078:+:MIRb>chr19:54946807:+:ENST00000376531	chr19:54945078:+>chr19:54946807:+	55	112
3456	SCNN1A	ORF2	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000536788	chr12:6517023:->chr12:6483811:-	20	112
3457	SEMA6B	ORF2	chr19:4545583:-:AluJb>chr19:4544541:-:ENST00000586965	chr19:4545583:->chr19:4544541:-	13	112
3458	LDLRAD3	ORF1	chr11:36166221:+:SVA_D>chr11:36248635:+:ENST00000524419	chr11:36166221:+>chr11:36248635:+	27	112
3459	LDLRAD3	ORF1	chr11:36166221:+:SVA_D>chr11:36248635:+:ENST00000528989	chr11:36166221:+>chr11:36248635:+	27	112
3460	LDLRAD3	ORF1	chr11:36166221:+:SVA_D>chr11:36248635:+:ENST00000315571	chr11:36166221:+>chr11:36248635:+	27	112
3461	UNC93A	ORF2	chr6:167724187:+:AluSz>chr6:167728675:+:ENST00000230256	chr6:167724187:+>chr6:167728675:+	24	112
3462	UNC93A	ORF2	chr6:167724187:+:AluSz>chr6:167728675:+:ENST00000366829	chr6:167724187:+>chr6:167728675:+	24	112
3463	RHBG	ORF3	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000537040	chr1:156337862:+>chr1:156339110:+	84	112
3464	RHBG	ORF3	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000544720	chr1:156337862:+>chr1:156339110:+	84	112
3465	RHBG	ORF3	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368246	chr1:156337862:+>chr1:156339110:+	84	112
3466	RHBG	ORF3	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368247	chr1:156337862:+>chr1:156339110:+	84	112
3467	RHBG	ORF3	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368249	chr1:156337862:+>chr1:156339110:+	84	112
3468	RHBG	ORF3	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000446171	chr1:156337862:+>chr1:156339110:+	84	112
3469	RHBG	ORF3	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368245	chr1:156337862:+>chr1:156339110:+	84	112
3470	SLC17A3	ORF3	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000506105	chr6:25864286:->chr6:25862672:-	29	111
3471	SLC17A3	ORF3	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000449356	chr6:25864286:->chr6:25862672:-	29	111
3472	IGF1R	ORF2	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000558355	chr15:99433697:+>chr15:99434554:+	13	111
3473	FAIM2	ORF2	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000550635	chr12:50285280:->chr12:50284897:-	7	111
3474	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000438162	chr6:30708813:->chr6:30708368:-	17	111
3475	TMIGD2	ORF2	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000595645	chr19:4294301:->chr19:4292882:-	16	111
3476	TMIGD2	ORF3	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000595645	chr19:4294301:->chr19:4292882:-	16	111
3477	TMIGD2	ORF2	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000301272	chr19:4294301:->chr19:4292882:-	16	111
3478	TMIGD2	ORF3	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000301272	chr19:4294301:->chr19:4292882:-	16	111
3479	TMIGD2	ORF2	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000600114	chr19:4294301:->chr19:4292882:-	16	111
3480	TMIGD2	ORF3	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000600114	chr19:4294301:->chr19:4292882:-	16	111
3481	TMIGD2	ORF2	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000600349	chr19:4294301:->chr19:4292882:-	16	111
3482	TMIGD2	ORF3	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000600349	chr19:4294301:->chr19:4292882:-	16	111
3483	RHBG	ORF2	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000537040	chr1:156337862:+>chr1:156339110:+	24	111
3484	CD8A	ORF3	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000283635	chr2:87017176:->chr2:87016873:-	9	110
3485	CD8A	ORF3	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000409511	chr2:87017176:->chr2:87016873:-	9	110
3486	CD8A	ORF3	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000538832	chr2:87017176:->chr2:87016873:-	9	110
3487	ABCC1	ORF1	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000399410	chr16:16227839:+>chr16:16228207:+	36	110
3488	ABCC1	ORF1	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000345148	chr16:16227839:+>chr16:16228207:+	36	110
3489	ABCC1	ORF1	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000346370	chr16:16227839:+>chr16:16228207:+	36	110
3490	ABCC1	ORF1	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000349029	chr16:16227839:+>chr16:16228207:+	36	110
3491	ABCC1	ORF1	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000351154	chr16:16227839:+>chr16:16228207:+	36	110
3492	ABCC1	ORF1	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000399408	chr16:16227839:+>chr16:16228207:+	36	110
3493	ABCC1	ORF1	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000572882	chr16:16227839:+>chr16:16228207:+	36	110
3494	GPR176	ORF1	chr15:40186430:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186430:->chr15:40099459:-	38	110
3495	GPR176	ORF1	chr15:40186430:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186430:->chr15:40099459:-	38	110
3496	SCNN1B	ORF1	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000564275	chr16:23365611:+>chr16:23366620:+	9	110
3497	VAMP8	ORF2	chr2:85804390:+:FLAM_C>chr2:85806132:+:ENST00000263864	chr2:85804390:+>chr2:85806132:+	11	110
3498	HM13	ORF2	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000344042	chr20:30126162:+>chr20:30137867:+	18	110
3499	VAMP8	ORF1	chr2:85803112:+:AluJo>chr2:85806132:+:ENST00000263864	chr2:85803112:+>chr2:85806132:+	11	110
3500	PTGER3	ORF1	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000370932	chr1:71507004:->chr1:71478167:-	43	109
3501	ITGA3	ORF3	chr17:48164185:+:AluSp>chr17:48165108:+:ENST00000007722	chr17:48164185:+>chr17:48165108:+	16	109
3502	VAMP8	ORF2	chr2:85804390:+:FLAM_C>chr2:85806132:+:ENST00000409760	chr2:85804390:+>chr2:85806132:+	11	109
3503	TTYH3	ORF2	chr7:2682079:+:AluSx>chr7:2686487:+:ENST00000258796	chr7:2682079:+>chr7:2686487:+	7	109
3504	TTYH3	ORF2	chr7:2682079:+:AluSx>chr7:2686487:+:ENST00000407643	chr7:2682079:+>chr7:2686487:+	7	109
3505	ANO10	ORF2	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000292246	chr3:43498855:->chr3:43474219:-	48	109
3506	ANO10	ORF2	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000350459	chr3:43498855:->chr3:43474219:-	48	109
3507	ANO10	ORF2	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000396091	chr3:43498855:->chr3:43474219:-	48	109
3508	ANO10	ORF2	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000451430	chr3:43498855:->chr3:43474219:-	48	109
3509	ANO10	ORF2	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000448045	chr3:43498855:->chr3:43474219:-	48	109

Table 15

3510	VMP1	ORF1	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000262291	chr17:57905129:+>chr17:57915656:+	27	109
3511	VMP1	ORF1	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000537567	chr17:57905129:+>chr17:57915656:+	27	109
3512	VMP1	ORF1	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000539763	chr17:57905129:+>chr17:57915656:+	27	109
3513	VMP1	ORF1	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000536180	chr17:57905129:+>chr17:57915656:+	27	109
3514	VMP1	ORF1	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000545362	chr17:57905129:+>chr17:57915656:+	27	109
3515	VMP1	ORF1	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000591877	chr17:57905129:+>chr17:57915656:+	27	109
3516	VAMP8	ORF1	chr2:85803112:+:AluJo>chr2:85806132:+:ENST00000409760	chr2:85803112:+>chr2:85806132:+	11	109
3517	CD200	ORF2	chr3:112021561:+:HERV3-int>chr3:112059749:+:ENST00000498096	chr3:112021561:+>chr3:112059749:+	75	109
3518	CD200	ORF2	chr3:112021561:+:HERV3-int>chr3:112059749:+:ENST00000473539	chr3:112021561:+>chr3:112059749:+	75	109
3519	CD200	ORF2	chr3:112021561:+:HERV3-int>chr3:112059749:+:ENST00000315711	chr3:112021561:+>chr3:112059749:+	75	109
3520	F2RL1	ORF1	chr5:76108212:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108212:+>chr5:76128515:+	63	108
3521	CLDN15	ORF2	chr7:100877859:-:AluSz>chr7:100877723:-:ENST00000433833	chr7:100877859:->chr7:100877723:-	40	108
3522	ATP8A2	ORF1	chr13:26171792:+:MLT1E1A>chr13:26273311:+:ENST00000281620	chr13:26171792:+>chr13:26273311:+	42	108
3523	SCARB1	ORF2	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000545493	chr12:125344729:->chr12:125302253:-	4	108
3524	CD22	ORF1	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000270311	chr19:35834869:+>chr19:35835736:+	28	108
3525	LAIR1	ORF2	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000438193	chr19:54880625:->chr19:54875937:-	20	108
3526	PPAP2A	ORF3	chr5:54722306:-:AluJr>chr5:54721867:-:ENST00000264775	chr5:54722306:->chr5:54721867:-	7	108
3527	PPAP2A	ORF3	chr5:54722306:-:AluJr>chr5:54721867:-:ENST00000307259	chr5:54722306:->chr5:54721867:-	7	108
3528	ERBB2	ORF2	chr17:37849578:+:Tigger2a>chr17:37863243:+:ENST00000582648	chr17:37849578:+>chr17:37863243:+	36	108
3529	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000435734	chr19:35613502:+>chr19:35613669:+	26	107
3530	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000346446	chr19:35613502:+>chr19:35613669:+	26	107
3531	SLC2A1	ORF2	chr1:43419630:-:MIRb>chr1:43408992:-:ENST00000426263	chr1:43419630:->chr1:43408992:-	26	107
3532	SLC2A1	ORF2	chr1:43419630:-:MIRb>chr1:43408992:-:ENST00000415851	chr1:43419630:->chr1:43408992:-	26	107
3533	SLC2A1	ORF2	chr1:43419630:-:MIRb>chr1:43408992:-:ENST00000372500	chr1:43419630:->chr1:43408992:-	26	107
3534	IGSF9	ORF1	chr1:159905473:-:MIRb>chr1:159904612:-:ENST00000361509	chr1:159905473:->chr1:159904612:-	7	107
3535	IGSF9	ORF1	chr1:159905473:-:MIRb>chr1:159904612:-:ENST00000368094	chr1:159905473:->chr1:159904612:-	7	107
3536	EPCAM	ORF2	chr2:47596600:+:LTR41B>chr2:47596660:+:ENST00000419334	chr2:47596600:+>chr2:47596660:+	58	107
3537	KL	ORF1	chr13:33560375:+:MER82>chr13:33627904:+:ENST00000380099	chr13:33560375:+>chr13:33627904:+	47	107
3538	PROM2	ORF3	chr2:95940748:+:MIR3>chr2:95941209:+:ENST00000431567	chr2:95940748:+>chr2:95941209:+	18	106
3539	ERBB2	ORF3	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000582648	chr17:37861414:+>chr17:37863243:+	33	106
3540	PTPRO	ORF1	chr12:15701267:+:L1MC4a>chr12:15702028:+:ENST00000281171	chr12:15701267:+>chr12:15702028:+	83	106
3541	PTPRO	ORF1	chr12:15701267:+:L1MC4a>chr12:15702028:+:ENST00000348962	chr12:15701267:+>chr12:15702028:+	83	106
3542	PTPRO	ORF1	chr12:15701267:+:L1MC4a>chr12:15702028:+:ENST00000535311	chr12:15701267:+>chr12:15702028:+	83	106
3543	SLC6A3	ORF1	chr5:1406781:-:L1MB3>chr5:1406403:-:ENST00000270349	chr5:1406781:->chr5:1406403:-	4	106
3544	SLC6A3	ORF1	chr5:1406781:-:L1MB3>chr5:1406403:-:ENST00000453492	chr5:1406781:->chr5:1406403:-	4	106
3545	GRIA2	ORF1	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000509417	chr4:158141877:+>chr4:158142819:+	11	106
3546	SLC9A1	ORF2	chr1:27445289:-:MIR3>chr1:27440777:-:ENST00000263980	chr1:27445289:->chr1:27440777:-	7	106
3547	SLC9A1	ORF2	chr1:27445289:-:MIR3>chr1:27440777:-:ENST00000374086	chr1:27445289:->chr1:27440777:-	7	106
3548	ADTRP	ORF3	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000505099	chr6:11748704:->chr6:11735916:-	6	106
3549	ADTRP	ORF3	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000414691	chr6:11748704:->chr6:11735916:-	6	106
3550	ADTRP	ORF3	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000229583	chr6:11748704:->chr6:11735916:-	6	106
3551	TTYH1	ORF2	chr19:54945078:+:MIRb>chr19:54946722:+:ENST00000376531	chr19:54945078:+>chr19:54946722:+	19	105
3552	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000455813	chr21:42883790:->chr21:42866505:-	31	105
3553	NKAIN2	ORF2	chr6:124669850:+:L1PA4>chr6:124676413:+:ENST00000546092	chr6:124669850:+>chr6:124676413:+	30	105
3554	ERBB2	ORF3	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000541774	chr17:37860613:+>chr17:37863243:+	21	105
3555	ERBB2	ORF3	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000584450	chr17:37860613:+>chr17:37863243:+	21	105
3556	ERBB2	ORF3	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000269571	chr17:37860613:+>chr17:37863243:+	21	105
3557	SLC28A1	ORF3	chr15:85472633:+:AluSx1>chr15:85478257:+:ENST00000537216	chr15:85472633:+>chr15:85478257:+	24	105
3558	SLC28A1	ORF3	chr15:85472633:+:AluSx1>chr15:85478257:+:ENST00000537624	chr15:85472633:+>chr15:85478257:+	24	105
3559	SLC28A1	ORF3	chr15:85472633:+:AluSx1>chr15:85478257:+:ENST00000286749	chr15:85472633:+>chr15:85478257:+	24	105
3560	SLC28A1	ORF3	chr15:85472633:+:AluSx1>chr15:85478257:+:ENST00000394573	chr15:85472633:+>chr15:85478257:+	24	105
3561	SORCS2	ORF3	chr4:7636844:+:L1MC3>chr4:7640055:+:ENST00000507866	chr4:7636844:+>chr4:7640055:+	67	104
3562	SORCS2	ORF3	chr4:7636844:+:L1MC3>chr4:7640055:+:ENST00000329016	chr4:7636844:+>chr4:7640055:+	67	104
3563	CLDN11	ORF2	chr3:170138615:+:MIRb>chr3:170140951:+:ENST00000486975	chr3:170138615:+>chr3:170140951:+	14	104
3564	CLDN11	ORF2	chr3:170138615:+:MIRb>chr3:170140951:+:ENST00000451576	chr3:170138615:+>chr3:170140951:+	14	104
3565	TGFA	ORF2	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000295400	chr2:70729971:->chr2:70692865:-	17	104
3566	TGFA	ORF2	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000419940	chr2:70729971:->chr2:70692865:-	17	104
3567	TGFA	ORF2	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000445399	chr2:70729971:->chr2:70692865:-	17	104
3568	TGFA	ORF2	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000418333	chr2:70729971:->chr2:70692865:-	17	104
3569	TGFA	ORF2	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000450929	chr2:70729971:->chr2:70692865:-	17	104
3570	TGFA	ORF2	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000444975	chr2:70729971:->chr2:70692865:-	17	104
3571	TGFA	ORF2	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000394241	chr2:70729971:->chr2:70692865:-	17	104
3572	RHBG	ORF1	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000544720	chr1:156337862:+>chr1:156339110:+	30	104
3573	RHBG	ORF1	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368247	chr1:156337862:+>chr1:156339110:+	30	104
3574	RHBG	ORF1	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368245	chr1:156337862:+>chr1:156339110:+	30	104
3575	TTYH1	ORF1	chr19:54945078:+:MIRb>chr19:54946722:+:ENST00000391739	chr19:54945078:+>chr19:54946722:+	55	103
3576	FAIM2	ORF2	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000547871	chr12:50292556:->chr12:50291869:-	17	103
3577	TTYH1	ORF1	chr19:54945078:+:MIRb>chr19:54946807:+:ENST00000301194	chr19:54945078:+>chr19:54946807:+	55	103
3578	AMICA1	ORF1	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000524477	chr11:118082875:->chr11:118081427:-	10	103
3579	ABCC5	ORF3	chr3:183698324:-:L3>chr3:183696439:-:ENST00000437205	chr3:183698324:->chr3:183696439:-	12	103
3580	SLC6A2	ORF1	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000568943	chr16:55705440:+>chr16:55705850:+	24	103
3581	SLC6A2	ORF1	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000568529	chr16:55705440:+>chr16:55705850:+	24	103

Table 15

3582	SLC6A2	ORF1	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000414754	chr16:55705440:+>chr16:55705850:+	24	103
3583	SLC6A2	ORF1	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000379906	chr16:55705440:+>chr16:55705850:+	24	103
3584	SLC6A2	ORF1	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000561820	chr16:55705440:+>chr16:55705850:+	24	103
3585	SLC6A2	ORF1	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000219833	chr16:55705440:+>chr16:55705850:+	24	103
3586	SLC6A2	ORF1	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000566163	chr16:55705440:+>chr16:55705850:+	24	103
3587	SLC6A2	ORF1	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000567238	chr16:55705440:+>chr16:55705850:+	24	103
3588	NOTCH3	ORF3	chr19:15279766:-:AluJo>chr19:15278222:-:ENST00000595514	chr19:15279766:->chr19:15278222:-	8	103
3589	CACNG7	ORF2	chr19:54418244:+:AluSx>chr19:54418619:+:ENST00000391767	chr19:54418244:+>chr19:54418619:+	36	102
3590	CACNG7	ORF2	chr19:54418244:+:AluSx>chr19:54418619:+:ENST00000222212	chr19:54418244:+>chr19:54418619:+	36	102
3591	CACNG7	ORF2	chr19:54418244:+:AluSx>chr19:54418619:+:ENST00000391766	chr19:54418244:+>chr19:54418619:+	36	102
3592	TTYH1	ORF1	chr19:54945078:+:MIRb>chr19:54946807:+:ENST00000376530	chr19:54945078:+>chr19:54946807:+	55	102
3593	ITGA3	ORF3	chr17:48150385:+:Tigger15a>chr17:48151280:+:ENST00000512553	chr17:48150385:+>chr17:48151280:+	4	102
3594	CFTR	ORF3	chr7:117193207:+:MLT1A0>chr7:117355812:+:ENST00000600166	chr7:117193207:+>chr7:117355812:+	69	102
3595	CLDN15	ORF1	chr7:100877907:-:AluSz>chr7:100877723:-:ENST00000433833	chr7:100877907:->chr7:100877723:-	33	102
3596	GRM8	ORF1	chr7:126155693:-:MLT1D>chr7:126086426:-:ENST00000444921	chr7:126155693:->chr7:126086426:-	4	102
3597	GRM8	ORF1	chr7:126155693:-:MLT1D>chr7:126086426:-:ENST00000339582	chr7:126155693:->chr7:126086426:-	4	102
3598	GRM8	ORF1	chr7:126155693:-:MLT1D>chr7:126086426:-:ENST00000358373	chr7:126155693:->chr7:126086426:-	4	102
3599	GRM8	ORF1	chr7:126155693:-:MLT1D>chr7:126086426:-:ENST00000472701	chr7:126155693:->chr7:126086426:-	4	102
3600	ERBB2	ORF2	chr17:37849578:+:Tigger2a>chr17:37863243:+:ENST00000578373	chr17:37849578:+>chr17:37863243:+	36	102
3601	ERBB2	ORF1	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000541774	chr17:37845053:+>chr17:37863243:+	17	101
3602	ERBB2	ORF1	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000584450	chr17:37845053:+>chr17:37863243:+	17	101
3603	ERBB2	ORF1	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000269571	chr17:37845053:+>chr17:37863243:+	17	101
3604	AXL	ORF1	chr19:41725654:+:G-rich>chr19:41726541:+:ENST00000301178	chr19:41725654:+>chr19:41726541:+	33	101
3605	AXL	ORF1	chr19:41725654:+:G-rich>chr19:41726541:+:ENST00000359092	chr19:41725654:+>chr19:41726541:+	33	101
3606	ERBB2	ORF3	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000584099	chr17:37864193:+>chr17:37864574:+	7	101
3607	FAIM2	ORF1	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000550195	chr12:50285280:->chr12:50284897:-	43	101
3608	EPHB4	ORF3	chr7:100418218:-:Charlie4a>chr7:100417918:-:ENST00000360620	chr7:100418218:->chr7:100417918:-	37	101
3609	EPHB4	ORF3	chr7:100418218:-:Charlie4a>chr7:100417918:-:ENST00000358173	chr7:100418218:->chr7:100417918:-	37	101
3610	PARM1	ORF1	chr4:75888329:+:THE1D>chr4:75937635:+:ENST00000307428	chr4:75888329:+>chr4:75937635:+	33	101
3611	FLOT1	ORF3	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000416018	chr6:30708763:->chr6:30708575:-	11	101
3612	GABBR2	ORF1	chr9:101249441:-:Charlie16a>chr9:101243279:-:ENST00000259455	chr9:101249441:->chr9:101243279:-	23	101
3613	ADTRP	ORF1	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000505099	chr6:11748704:->chr6:11735916:-	38	101
3614	ADTRP	ORF1	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000414691	chr6:11748704:->chr6:11735916:-	38	101
3615	ADTRP	ORF1	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000229583	chr6:11748704:->chr6:11735916:-	38	101
3616	ADTRP	ORF1	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000379413	chr6:11748704:->chr6:11735916:-	38	101
3617	ADAM22	ORF2	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000412441	chr7:87600690:+>chr7:87607651:+	3	100
3618	EVC	ORF1	chr4:5789351:+:MLT1D>chr4:5795335:+:ENST00000264956	chr4:5789351:+>chr4:5795335:+	33	100
3619	EVC	ORF1	chr4:5789351:+:MLT1D>chr4:5795335:+:ENST00000382674	chr4:5789351:+>chr4:5795335:+	33	100
3620	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000548898	chr12:56120280:->chr12:56120045:-	4	100
3621	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552067	chr12:56120280:->chr12:56120045:-	4	100
3622	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000548160	chr12:56120280:->chr12:56120045:-	4	100
3623	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000546939	chr12:56120280:->chr12:56120045:-	4	100
3624	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552692	chr12:56120280:->chr12:56120045:-	4	100
3625	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000549117	chr12:56120280:->chr12:56120045:-	4	100
3626	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000257857	chr12:56120280:->chr12:56120045:-	4	100
3627	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552754	chr12:56120280:->chr12:56120045:-	4	100
3628	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000550776	chr12:56120280:->chr12:56120045:-	4	100
3629	ITGA3	ORF1	chr17:48164357:+:AluSp>chr17:48165108:+:ENST00000007722	chr17:48164357:+>chr17:48165108:+	7	100
3630	ERBB2	ORF3	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000578373	chr17:37861414:+>chr17:37863243:+	33	100
3631	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87016873:-:ENST00000456996	chr2:87028634:->chr2:87016873:-	36	100
3632	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87016873:-:ENST00000352580	chr2:87028634:->chr2:87016873:-	36	100
3633	SCNN1A	ORF3	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000396966	chr12:6462453:->chr12:6458571:-	42	100
3634	SCNN1A	ORF3	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000536788	chr12:6517023:->chr12:6483811:-	7	99
3635	GPM6B	ORF3	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000475307	chrX:13907571:->chrX:13803927:-	12	99
3636	AMICA1	ORF1	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000525565	chr11:118082875:->chr11:118081427:-	10	99
3637	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000418160	chr6:30708813:->chr6:30708368:-	17	99
3638	CD22	ORF3	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000544992	chr19:35834869:+>chr19:35835736:+	27	99
3639	CD8B	ORF1	chr2:87075916:-:AluSq2>chr2:87073896:-:ENST00000331469	chr2:87075916:->chr2:87073896:-	20	99
3640	CRB2	ORF2	chr9:126117568:+:L3b>chr9:126125144:+:ENST00000359999	chr9:126117568:+>chr9:126125144:+	20	99
3641	CRB2	ORF2	chr9:126117568:+:L3b>chr9:126125144:+:ENST00000373631	chr9:126117568:+>chr9:126125144:+	20	99
3642	OR1L8	ORF3	chr9:125339045:-:L1MCa>chr9:125329970:-:ENST00000304865	chr9:125339045:->chr9:125329970:-	52	99
3643	RHBG	ORF2	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000544720	chr1:156337862:+>chr1:156339110:+	24	99
3644	RHBG	ORF2	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368247	chr1:156337862:+>chr1:156339110:+	24	99
3645	RHBG	ORF2	chr1:156337862:+:L2c>chr1:156339110:+:ENST00000368245	chr1:156337862:+>chr1:156339110:+	24	99
3646	ERBB2	ORF3	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000584099	chr17:37863725:+>chr17:37864574:+	5	99
3647	SLCO5A1	ORF2	chr8:70602350:-:LSU-rRNA_Hsa>chr8:70585247:-:ENST00000260126	chr8:70602350:->chr8:70585247:-	51	98
3648	SLCO5A1	ORF2	chr8:70602350:-:LSU-rRNA_Hsa>chr8:70585247:-:ENST00000530307	chr8:70602350:->chr8:70585247:-	51	98
3649	CD74	ORF1	chr5:149806595:-:AluSx1>chr5:149782852:-:ENST00000009530	chr5:149806595:->chr5:149782852:-	18	98
3650	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000420846	chr12:56120280:->chr12:56120045:-	4	98
3651	TFR2	ORF1	chr7:100230403:-:AluJr>chr7:100229772:-:ENST00000223051	chr7:100230403:->chr7:100229772:-	30	98
3652	TFR2	ORF1	chr7:100230403:-:AluJr>chr7:100229772:-:ENST00000490084	chr7:100230403:->chr7:100229772:-	30	98
3653	TFR2	ORF1	chr7:100230403:-:AluJr>chr7:100229772:-:ENST00000462107	chr7:100230403:->chr7:100229772:-	30	98

Table 15

3654	BRI3	ORF1	chr7:97907153:+:AluSp>chr7:97911663:+:ENST00000297290	chr7:97907153:+>chr7:97911663:+	19	97
3655	TTYH1	ORF1	chr19:54945169:+:L2>chr19:54946722:+:ENST00000376531	chr19:54945169:+>chr19:54946722:+	12	97
3656	TTYH1	ORF2	chr19:54945169:+:L2>chr19:54946722:+:ENST00000376531	chr19:54945169:+>chr19:54946722:+	11	97
3657	ANO1	ORF2	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000530480	chr11:69971235:+>chr11:69972167:+	13	97
3658	EPCAM	ORF2	chr2:47596570:+:LTR41B>chr2:47596660:+:ENST00000419334	chr2:47596570:+>chr2:47596660:+	48	97
3659	GRID1	ORF3	chr10:87479212:-:THE1A>chr10:87407154:-:ENST00000464741	chr10:87479212:->chr10:87407154:-	7	97
3660	ITGA3	ORF1	chr17:48164282:+:AluSp>chr17:48165108:+:ENST00000007722	chr17:48164282:+>chr17:48165108:+	4	97
3661	SUSD3	ORF1	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000375472	chr9:95843805:+>chr9:95846819:+	27	97
3662	SUSD3	ORF1	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000375469	chr9:95843805:+>chr9:95846819:+	27	97
3663	SUSD3	ORF1	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000471462	chr9:95843805:+>chr9:95846819:+	27	97
3664	DPCR1	ORF2	chr6:30913271:+:AluJr>chr6:30916324:+:ENST00000462446	chr6:30913271:+>chr6:30916324:+	19	97
3665	ANO10	ORF2	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000292246	chr3:43498891:->chr3:43474219:-	36	97
3666	ANO10	ORF2	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000350459	chr3:43498891:->chr3:43474219:-	36	97
3667	ANO10	ORF2	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000396091	chr3:43498891:->chr3:43474219:-	36	97
3668	ANO10	ORF2	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000451430	chr3:43498891:->chr3:43474219:-	36	97
3669	ANO10	ORF2	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000448045	chr3:43498891:->chr3:43474219:-	36	97
3670	CLDN15	ORF3	chr7:100877907:-:AluSz>chr7:100877712:-:ENST00000433833	chr7:100877907:->chr7:100877712:-	33	97
3671	TTYH1	ORF2	chr19:54945078:+:MIRb>chr19:54946722:+:ENST00000301194	chr19:54945078:+>chr19:54946722:+	19	96
3672	TMEM98	ORF3	chr17:31266193:+:AluSx>chr17:31266495:+:ENST00000394642	chr17:31266193:+>chr17:31266495:+	7	96
3673	TMEM98	ORF3	chr17:31266193:+:AluSx>chr17:31266495:+:ENST00000579849	chr17:31266193:+>chr17:31266495:+	7	96
3674	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000534731	chr11:89098143:->chr11:89088211:-	8	96
3675	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000532825	chr11:89098143:->chr11:89088211:-	8	96
3676	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000531342	chr11:89098143:->chr11:89088211:-	8	96
3677	TFR2	ORF2	chr7:100230403:-:AluJr>chr7:100229772:-:ENST00000490084	chr7:100230403:->chr7:100229772:-	7	96
3678	TMEM114	ORF1	chr16:8635031:-:THE1B>chr16:8620007:-:ENST00000568335	chr16:8635031:->chr16:8620007:-	19	96
3679	CACNA1H	ORF1	chr16:1235900:+:G-rich>chr16:1250256:+:ENST00000348261	chr16:1235900:+>chr16:1250256:+	14	96
3680	CACNA1H	ORF1	chr16:1235900:+:G-rich>chr16:1250256:+:ENST00000358590	chr16:1235900:+>chr16:1250256:+	14	96
3681	CACNA1H	ORF1	chr16:1235900:+:G-rich>chr16:1250256:+:ENST00000565831	chr16:1235900:+>chr16:1250256:+	14	96
3682	TTYH1	ORF2	chr19:54945078:+:MIRb>chr19:54946722:+:ENST00000376530	chr19:54945078:+>chr19:54946722:+	19	95
3683	C1orf186	ORF1	chr1:206276764:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206276764:->chr1:206243250:-	87	95
3684	CACNG7	ORF3	chr19:54418244:+:AluSx>chr19:54418619:+:ENST00000391767	chr19:54418244:+>chr19:54418619:+	22	95
3685	CACNG7	ORF3	chr19:54418244:+:AluSx>chr19:54418619:+:ENST00000222212	chr19:54418244:+>chr19:54418619:+	22	95
3686	CACNG7	ORF3	chr19:54418244:+:AluSx>chr19:54418619:+:ENST00000391766	chr19:54418244:+>chr19:54418619:+	22	95
3687	CD82	ORF3	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000526958	chr11:44626051:+>chr11:44626608:+	20	95
3688	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000416018	chr6:30708813:->chr6:30708539:-	17	95
3689	NRP1	ORF2	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374821	chr10:33497207:->chr10:33496644:-	24	95
3690	CDH19	ORF3	chr18:64205766:-:L1MC4a>chr18:64202344:-:ENST00000540086	chr18:64205766:->chr18:64202344:-	9	95
3691	SCNN1A	ORF2	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000360168	chr12:6471665:->chr12:6471407:-	14	95
3692	SCNN1A	ORF2	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000358945	chr12:6471665:->chr12:6471407:-	14	95
3693	SCNN1A	ORF2	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000228916	chr12:6471665:->chr12:6471407:-	14	95
3694	SCNN1A	ORF2	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000396966	chr12:6471665:->chr12:6471407:-	14	95
3695	SCNN1A	ORF2	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000543768	chr12:6471665:->chr12:6471407:-	14	95
3696	ERBB2	ORF2	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000582648	chr17:37845053:+>chr17:37863243:+	22	94
3697	ITGA3	ORF3	chr17:48164185:+:AluSp>chr17:48165108:+:ENST00000320031	chr17:48164185:+>chr17:48165108:+	16	94
3698	ERBB2	ORF1	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000582648	chr17:37860613:+>chr17:37863243:+	22	94
3699	ERBB2	ORF3	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000582648	chr17:37860613:+>chr17:37863243:+	21	94
3700	ANO1	ORF3	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000355303	chr11:70007088:+>chr11:70007267:+	18	94
3701	ANO1	ORF3	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000398543	chr11:70007088:+>chr11:70007267:+	18	94
3702	ANO1	ORF3	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000538023	chr11:70007088:+>chr11:70007267:+	18	94
3703	ANO1	ORF3	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000316296	chr11:70007088:+>chr11:70007267:+	18	94
3704	ANO1	ORF3	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000530676	chr11:70007088:+>chr11:70007267:+	18	94
3705	ANO1	ORF3	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000531349	chr11:70007088:+>chr11:70007267:+	18	94
3706	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000445853	chr6:30708813:->chr6:30708368:-	17	94
3707	ABCC5	ORF2	chr3:183698324:-:L3>chr3:183696439:-:ENST00000334444	chr3:183698324:->chr3:183696439:-	12	94
3708	ABCC5	ORF2	chr3:183698324:-:L3>chr3:183696439:-:ENST00000437205	chr3:183698324:->chr3:183696439:-	12	94
3709	ABCC5	ORF2	chr3:183698324:-:L3>chr3:183696439:-:ENST00000265586	chr3:183698324:->chr3:183696439:-	12	94
3710	FLOT1	ORF3	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000416018	chr6:30708853:->chr6:30708575:-	3	93
3711	KCNH2	ORF2	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000330883	chr7:150655920:->chr7:150648787:-	4	93
3712	KCNH2	ORF2	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000392968	chr7:150655920:->chr7:150648787:-	4	93
3713	KCNH2	ORF2	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000262186	chr7:150655920:->chr7:150648787:-	4	93
3714	KCNH2	ORF2	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000430723	chr7:150655920:->chr7:150648787:-	4	93
3715	TMEM98	ORF3	chr17:31266193:+:AluSx>chr17:31266495:+:ENST00000439138	chr17:31266193:+>chr17:31266495:+	7	92
3716	TNFRSF21	ORF3	chr6:47201962:-:AluSq2>chr6:47200730:-:ENST00000296861	chr6:47201962:->chr6:47200730:-	16	92
3717	ABCC5	ORF2	chr3:183693330:-:AluSx3>chr3:183689707:-:ENST00000334444	chr3:183693330:->chr3:183689707:-	24	92
3718	ABCC5	ORF2	chr3:183693330:-:AluSx3>chr3:183689707:-:ENST00000265586	chr3:183693330:->chr3:183689707:-	24	92
3719	LAT	ORF1	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000570232	chr16:29000300:+>chr16:29000848:+	10	92
3720	ANO1	ORF3	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000531300	chr11:70007088:+>chr11:70007267:+	18	92
3721	ADCY2	ORF2	chr5:7639181:+:THE1B>chr5:7690804:+:ENST00000515681	chr5:7639181:+>chr5:7690804:+	21	92
3722	CLDN15	ORF2	chr7:100877907:-:AluSz>chr7:100877723:-:ENST00000433833	chr7:100877907:->chr7:100877723:-	24	92
3723	CD74	ORF2	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000522246	chr5:149792056:->chr5:149786887:-	24	92
3724	CRB1	ORF2	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000535699	chr1:197412237:+>chr1:197446794:+	21	92
3725	CRB1	ORF2	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000538660	chr1:197412237:+>chr1:197446794:+	21	92

Table 15

3726	CRB1	ORF2	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000367400	chr1:197412237:+>chr1:197446794:+	21	92
3727	CRB1	ORF2	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000367399	chr1:197412237:+>chr1:197446794:+	21	92
3728	CRB1	ORF2	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000544212	chr1:197412237:+>chr1:197446794:+	21	92
3729	ABCC1	ORF3	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000399410	chr16:16226783:+>chr16:16228207:+	18	92
3730	ABCC1	ORF3	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000345148	chr16:16226783:+>chr16:16228207:+	18	92
3731	ABCC1	ORF3	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000346370	chr16:16226783:+>chr16:16228207:+	18	92
3732	ABCC1	ORF3	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000349029	chr16:16226783:+>chr16:16228207:+	18	92
3733	ABCC1	ORF3	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000351154	chr16:16226783:+>chr16:16228207:+	18	92
3734	ABCC1	ORF3	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000399408	chr16:16226783:+>chr16:16228207:+	18	92
3735	ABCC1	ORF3	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000572882	chr16:16226783:+>chr16:16228207:+	18	92
3736	TM7SF3	ORF1	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000543882	chr12:27144286:->chr12:27143560:-	11	91
3737	TRPM1	ORF1	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000397795	chr15:31365913:->chr15:31362429:-	8	91
3738	TRPM1	ORF1	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000256552	chr15:31365913:->chr15:31362429:-	8	91
3739	TRPM1	ORF1	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000542188	chr15:31365913:->chr15:31362429:-	8	91
3740	TRPM1	ORF1	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000558445	chr15:31365913:->chr15:31362429:-	8	91
3741	TRPM1	ORF1	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000559177	chr15:31365913:->chr15:31362429:-	8	91
3742	TRPM1	ORF1	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000560658	chr15:31365913:->chr15:31362429:-	8	91
3743	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000406242	chr19:35613502:+>chr19:35613669:+	26	90
3744	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000605677	chr19:35613502:+>chr19:35613669:+	26	90
3745	ERBB2	ORF1	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000582648	chr17:37845053:+>chr17:37863243:+	17	90
3746	CDH17	ORF3	chr8:95148851:-:L1PA6>chr8:95143220:-:ENST00000027335	chr8:95148851:->chr8:95143220:-	77	90
3747	CDH17	ORF3	chr8:95148851:-:L1PA6>chr8:95143220:-:ENST00000441892	chr8:95148851:->chr8:95143220:-	77	90
3748	CDH17	ORF3	chr8:95148851:-:L1PA6>chr8:95143220:-:ENST00000450165	chr8:95148851:->chr8:95143220:-	77	90
3749	SLC28A1	ORF1	chr15:85469889:+:L1MC4a>chr15:85478257:+:ENST00000537216	chr15:85469889:+>chr15:85478257:+	9	90
3750	SLC28A1	ORF1	chr15:85469889:+:L1MC4a>chr15:85478257:+:ENST00000537624	chr15:85469889:+>chr15:85478257:+	9	90
3751	SLC28A1	ORF1	chr15:85469889:+:L1MC4a>chr15:85478257:+:ENST00000286749	chr15:85469889:+>chr15:85478257:+	9	90
3752	SLC28A1	ORF1	chr15:85469889:+:L1MC4a>chr15:85478257:+:ENST00000394573	chr15:85469889:+>chr15:85478257:+	9	90
3753	ANTXR1	ORF1	chr2:69464904:+:(TA)n>chr2:69472357:+:ENST00000303714	chr2:69464904:+>chr2:69472357:+	3	90
3754	ANTXR1	ORF2	chr2:69464904:+:(TA)n>chr2:69472357:+:ENST00000303714	chr2:69464904:+>chr2:69472357:+	3	90
3755	DPP4	ORF2	chr2:162903212:-:L2a>chr2:162902122:-:ENST00000434918	chr2:162903212:->chr2:162902122:-	14	90
3756	CD82	ORF3	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000527737	chr11:44626051:+>chr11:44626608:+	20	90
3757	SLC16A3	ORF2	chr17:80217685:+:L1M>chr17:80218775:+:ENST00000583025	chr17:80217685:+>chr17:80218775:+	25	90
3758	GPM6B	ORF2	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000316715	chrX:13804092:->chrX:13803927:-	31	90
3759	GPM6B	ORF2	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000454189	chrX:13804092:->chrX:13803927:-	31	90
3760	GPM6B	ORF2	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000493677	chrX:13804092:->chrX:13803927:-	31	90
3761	GPM6B	ORF2	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000355135	chrX:13804092:->chrX:13803927:-	31	90
3762	GPM6B	ORF2	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000356942	chrX:13804092:->chrX:13803927:-	31	90
3763	GPM6B	ORF2	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000475307	chrX:13804092:->chrX:13803927:-	31	90
3764	TRABD2A	ORF3	chr2:85053622:-:MIRc>chr2:85051328:-:ENST00000335459	chr2:85053622:->chr2:85051328:-	4	90
3765	TRABD2A	ORF3	chr2:85053622:-:MIRc>chr2:85051328:-:ENST00000409520	chr2:85053622:->chr2:85051328:-	4	90
3766	GPM6B	ORF3	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000475307	chrX:13921670:->chrX:13803927:-	3	90
3767	GPR143	ORF1	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000431126	chrX:9715893:->chrX:9714193:-	17	90
3768	HM13	ORF1	chr20:30153664:+:MER5A>chr20:30154013:+:ENST00000335574	chr20:30153664:+>chr20:30154013:+	12	90
3769	CD82	ORF2	chr11:44594784:+:MIR>chr11:44609025:+:ENST00000526958	chr11:44594784:+>chr11:44609025:+	3	89
3770	CD82	ORF2	chr11:44594784:+:MIR>chr11:44609025:+:ENST00000527737	chr11:44594784:+>chr11:44609025:+	3	89
3771	ANTXR1	ORF3	chr2:69464904:+:(TA)n>chr2:69472357:+:ENST00000303714	chr2:69464904:+>chr2:69472357:+	3	89
3772	SLC9A1	ORF3	chr1:27430228:-:MIR>chr1:27429803:-:ENST00000263980	chr1:27430228:->chr1:27429803:-	31	89
3773	SLC9A1	ORF3	chr1:27430228:-:MIR>chr1:27429803:-:ENST00000545949	chr1:27430228:->chr1:27429803:-	31	89
3774	GLDN	ORF1	chr15:51649596:+:HERV17-int>chr15:51669646:+:ENST00000335449	chr15:51649596:+>chr15:51669646:+	11	89
3775	GLDN	ORF1	chr15:51649596:+:HERV17-int>chr15:51669646:+:ENST00000558426	chr15:51649596:+>chr15:51669646:+	11	89
3776	SLC38A6	ORF1	chr14:61540659:+:Tigger2a>chr14:61545548:+:ENST00000354886	chr14:61540659:+>chr14:61545548:+	60	89
3777	SLC38A6	ORF1	chr14:61540659:+:Tigger2a>chr14:61545548:+:ENST00000451406	chr14:61540659:+>chr14:61545548:+	60	89
3778	SLC38A6	ORF1	chr14:61540659:+:Tigger2a>chr14:61545548:+:ENST00000456840	chr14:61540659:+>chr14:61545548:+	60	89
3779	GPR176	ORF3	chr15:40186733:-:SVA_F>chr15:40099398:-:ENST00000299092	chr15:40186733:->chr15:40099398:-	37	89
3780	GPR176	ORF3	chr15:40186733:-:SVA_F>chr15:40099398:-:ENST00000561100	chr15:40186733:->chr15:40099398:-	37	89
3781	GPR176	ORF3	chr15:40186733:-:SVA_F>chr15:40099398:-:ENST00000543580	chr15:40186733:->chr15:40099398:-	37	89
3782	CD81	ORF3	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000493525	chr11:2411228:+>chr11:2411642:+	4	89
3783	SLC6A2	ORF1	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000568655	chr16:55705440:+>chr16:55705850:+	24	89
3784	EPCAM	ORF2	chr2:47596600:+:LTR41B>chr2:47596660:+:ENST00000263735	chr2:47596600:+>chr2:47596660:+	58	89
3785	CLDN15	ORF2	chr7:100877907:-:AluSz>chr7:100877712:-:ENST00000433833	chr7:100877907:->chr7:100877712:-	24	89
3786	ERBB2	ORF2	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000578373	chr17:37845053:+>chr17:37863243:+	22	88
3787	TTYH1	ORF1	chr19:54945169:+:L2>chr19:54946722:+:ENST00000301194	chr19:54945169:+>chr19:54946722:+	12	88
3788	TTYH1	ORF2	chr19:54945169:+:L2>chr19:54946722:+:ENST00000301194	chr19:54945169:+>chr19:54946722:+	11	88
3789	HCN2	ORF3	chr19:615278:+:AluY>chr19:615795:+:ENST00000251287	chr19:615278:+>chr19:615795:+	16	88
3790	C1orf186	ORF2	chr1:206277157:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206277157:->chr1:206243250:-	51	88
3791	SLC4A11	ORF2	chr20:3219491:-:MER45A>chr20:3218234:-:ENST00000380056	chr20:3219491:->chr20:3218234:-	4	88
3792	SLC4A11	ORF2	chr20:3219491:-:MER45A>chr20:3218234:-:ENST00000380059	chr20:3219491:->chr20:3218234:-	4	88
3793	SLC4A11	ORF2	chr20:3219491:-:MER45A>chr20:3218234:-:ENST00000539553	chr20:3219491:->chr20:3218234:-	4	88
3794	ERBB2	ORF1	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000578373	chr17:37860613:+>chr17:37863243:+	22	88
3795	ERBB2	ORF3	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000578373	chr17:37860613:+>chr17:37863243:+	21	88
3796	SLC2A1	ORF3	chr1:43409590:-:MIR3>chr1:43408992:-:ENST00000426263	chr1:43409590:->chr1:43408992:-	7	88
3797	SLC2A1	ORF3	chr1:43409590:-:MIR3>chr1:43408992:-:ENST00000415851	chr1:43409590:->chr1:43408992:-	7	88

Table 15

3798	SLC2A1	ORF3	chr1:43409590:-:MIR3>chr1:43408992:-:ENST00000372500	chr1:43409590:->chr1:43408992:-	7	88
3799	KCNK9	ORF2	chr8:140700582:-:THE1D>chr8:140631342:-:ENST00000522317	chr8:140700582:->chr8:140631342:-	39	88
3800	KCNK9	ORF2	chr8:140700582:-:THE1D>chr8:140631342:-:ENST00000303015	chr8:140700582:->chr8:140631342:-	39	88
3801	KCNK9	ORF2	chr8:140700582:-:THE1D>chr8:140631342:-:ENST00000520439	chr8:140700582:->chr8:140631342:-	39	88
3802	TTYH1	ORF1	chr19:54945169:+:L2>chr19:54946722:+:ENST00000376530	chr19:54945169:+>chr19:54946722:+	12	87
3803	TTYH1	ORF2	chr19:54945169:+:L2>chr19:54946722:+:ENST00000376530	chr19:54945169:+>chr19:54946722:+	11	87
3804	LRRTM4	ORF1	chr2:77256391:-:MLT2A2>chr2:76976042:-:ENST00000409911	chr2:77256391:->chr2:76976042:-	82	87
3805	LRRTM4	ORF1	chr2:77256391:-:MLT2A2>chr2:76976042:-:ENST00000409884	chr2:77256391:->chr2:76976042:-	82	87
3806	LRRTM4	ORF1	chr2:77256391:-:MLT2A2>chr2:76976042:-:ENST00000409093	chr2:77256391:->chr2:76976042:-	82	87
3807	PDPN	ORF1	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000294489	chr1:13909091:+>chr1:13910478:+	19	87
3808	PDPN	ORF1	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000376057	chr1:13909091:+>chr1:13910478:+	19	87
3809	PDPN	ORF1	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000510906	chr1:13909091:+>chr1:13910478:+	19	87
3810	CLEC2A	ORF3	chr12:10063312:-:HERVI-int>chr12:10051575:-:ENST00000339766	chr12:10063312:->chr12:10051575:-	63	87
3811	TM7SF3	ORF1	chr12:27153593:-:AluY>chr12:27152609:-:ENST00000512808	chr12:27153593:->chr12:27152609:-	33	87
3812	SLC2A5	ORF2	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000473209	chr1:9128439:->chr1:9118309:-	17	87
3813	TRPC4	ORF1	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379705	chr13:38270156:->chr13:38266472:-	58	87
3814	TRPC4	ORF1	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000338947	chr13:38270156:->chr13:38266472:-	58	87
3815	TRPC4	ORF1	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379681	chr13:38270156:->chr13:38266472:-	58	87
3816	TRPC4	ORF1	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379679	chr13:38270156:->chr13:38266472:-	58	87
3817	TRPC4	ORF1	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000426868	chr13:38270156:->chr13:38266472:-	58	87
3818	TRPC4	ORF1	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000355779	chr13:38270156:->chr13:38266472:-	58	87
3819	TRPC4	ORF1	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000358477	chr13:38270156:->chr13:38266472:-	58	87
3820	TRPC4	ORF1	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379673	chr13:38270156:->chr13:38266472:-	58	87
3821	TRPC4	ORF1	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000447043	chr13:38270156:->chr13:38266472:-	58	87
3822	BACE2	ORF2	chr21:42609349:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42609349:+>chr21:42609440:+	85	86
3823	BACE2	ORF2	chr21:42609349:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42609349:+>chr21:42609440:+	85	86
3824	BACE2	ORF2	chr21:42609349:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42609349:+>chr21:42609440:+	85	86
3825	SLC16A10	ORF3	chr6:111494717:+:MER1A>chr6:111498415:+:ENST00000368851	chr6:111494717:+>chr6:111498415:+	24	86
3826	SLC16A10	ORF3	chr6:111494717:+:MER1A>chr6:111498415:+:ENST00000439288	chr6:111494717:+>chr6:111498415:+	24	86
3827	SLC16A10	ORF3	chr6:111494717:+:MER1A>chr6:111498415:+:ENST00000419619	chr6:111494717:+>chr6:111498415:+	24	86
3828	IL17RE	ORF2	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000454190	chr3:9953735:+>chr3:9955640:+	13	86
3829	CACNG6	ORF2	chr19:54502735:+:MIR3>chr19:54515205:+:ENST00000352529	chr19:54502735:+>chr19:54515205:+	6	86
3830	CACNG6	ORF2	chr19:54502735:+:MIR3>chr19:54515205:+:ENST00000252729	chr19:54502735:+>chr19:54515205:+	6	86
3831	CACNG6	ORF2	chr19:54502735:+:MIR3>chr19:54515205:+:ENST00000346968	chr19:54502735:+>chr19:54515205:+	6	86
3832	CLDN11	ORF2	chr3:170144403:+:MIRb>chr3:170150312:+:ENST00000064724	chr3:170144403:+>chr3:170150312:+	9	86
3833	GPR98	ORF3	chr5:90445323:+:THE1D>chr5:90445847:+:ENST00000405460	chr5:90445323:+>chr5:90445847:+	19	86
3834	GPR98	ORF3	chr5:90445323:+:THE1D>chr5:90445847:+:ENST00000425867	chr5:90445323:+>chr5:90445847:+	19	86
3835	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87016873:-:ENST00000456996	chr2:87028634:->chr2:87016873:-	21	86
3836	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87016873:-:ENST00000352580	chr2:87028634:->chr2:87016873:-	21	86
3837	SCNN1A	ORF2	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000396966	chr12:6462453:->chr12:6458571:-	28	86
3838	SLCO5A1	ORF1	chr8:70602350:-:LSU-rRNA_Hsa>chr8:70585247:-:ENST00000260126	chr8:70602350:->chr8:70585247:-	37	85
3839	SLCO5A1	ORF1	chr8:70602350:-:LSU-rRNA_Hsa>chr8:70585247:-:ENST00000530307	chr8:70602350:->chr8:70585247:-	37	85
3840	CD74	ORF1	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000377795	chr5:149842358:->chr5:149786754:-	10	85
3841	C5AR1	ORF3	chr19:47811079:+:MER1A>chr19:47823038:+:ENST00000355085	chr19:47811079:+>chr19:47823038:+	25	85
3842	SLC16A3	ORF3	chr17:80217685:+:L1M>chr17:80218775:+:ENST00000583025	chr17:80217685:+>chr17:80218775:+	51	85
3843	ITGA3	ORF1	chr17:48164357:+:AluSp>chr17:48165108:+:ENST00000320031	chr17:48164357:+>chr17:48165108:+	7	85
3844	GPR176	ORF3	chr15:40186657:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186657:->chr15:40099459:-	62	85
3845	GPR176	ORF3	chr15:40186657:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186657:->chr15:40099459:-	62	85
3846	CD86	ORF2	chr3:121832724:+:L3>chr3:121836895:+:ENST00000469710	chr3:121832724:+>chr3:121836895:+	38	85
3847	CD86	ORF2	chr3:121832724:+:L3>chr3:121836895:+:ENST00000493101	chr3:121832724:+>chr3:121836895:+	38	85
3848	CD86	ORF2	chr3:121832724:+:L3>chr3:121836895:+:ENST00000264468	chr3:121832724:+>chr3:121836895:+	38	85
3849	CD86	ORF2	chr3:121832724:+:L3>chr3:121836895:+:ENST00000330540	chr3:121832724:+>chr3:121836895:+	38	85
3850	CD86	ORF2	chr3:121832724:+:L3>chr3:121836895:+:ENST00000393627	chr3:121832724:+>chr3:121836895:+	38	85
3851	CD86	ORF2	chr3:121832724:+:L3>chr3:121836895:+:ENST00000478741	chr3:121832724:+>chr3:121836895:+	38	85
3852	NRP1	ORF3	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374821	chr10:33497207:->chr10:33496644:-	23	85
3853	ABCC1	ORF1	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000399410	chr16:16171648:+>chr16:16173209:+	8	85
3854	ABCC1	ORF1	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000345148	chr16:16171648:+>chr16:16173209:+	8	85
3855	ABCC1	ORF1	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000346370	chr16:16171648:+>chr16:16173209:+	8	85
3856	ABCC1	ORF1	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000399408	chr16:16171648:+>chr16:16173209:+	8	85
3857	ABCC1	ORF1	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000572882	chr16:16171648:+>chr16:16173209:+	8	85
3858	TMEM114	ORF3	chr16:8635031:-:THE1B>chr16:8620007:-:ENST00000568335	chr16:8635031:->chr16:8620007:-	7	85
3859	TMEM8C	ORF1	chr9:136393545:-:MIRc>chr9:136385410:-:ENST00000339996	chr9:136393545:->chr9:136385410:-	20	85
3860	ERBB2	ORF1	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000578373	chr17:37845053:+>chr17:37863243:+	17	84
3861	GPR176	ORF1	chr15:40186733:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186733:->chr15:40099459:-	12	84
3862	GPR176	ORF1	chr15:40186733:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186733:->chr15:40099459:-	12	84
3863	STRA6	ORF1	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000572785	chr15:74475786:->chr15:74474801:-	33	84
3864	RNF43	ORF2	chr17:56486202:-:L2a>chr17:56448394:-:ENST00000407977	chr17:56486202:->chr17:56448394:-	11	84
3865	RNF43	ORF2	chr17:56486202:-:L2a>chr17:56448394:-:ENST00000584437	chr17:56486202:->chr17:56448394:-	11	84
3866	RNF43	ORF2	chr17:56486202:-:L2a>chr17:56448394:-:ENST00000577716	chr17:56486202:->chr17:56448394:-	11	84
3867	ERBB3	ORF3	chr12:56489989:+:MIRc>chr12:56490287:+:ENST00000267101	chr12:56489989:+>chr12:56490287:+	76	84
3868	ERBB3	ORF3	chr12:56489989:+:MIRc>chr12:56490287:+:ENST00000450146	chr12:56489989:+>chr12:56490287:+	76	84
3869	ERBB3	ORF3	chr12:56489989:+:MIRc>chr12:56490287:+:ENST00000551085	chr12:56489989:+>chr12:56490287:+	76	84

Table 15

3870	ERBB3	ORF3	chr12:56489989:+:MIRc>chr12:56490287:+:ENST00000415288	chr12:56489989:+>chr12:56490287:+	76	84
3871	ERBB3	ORF3	chr12:56489989:+:MIRc>chr12:56490287:+:ENST00000550070	chr12:56489989:+>chr12:56490287:+	76	84
3872	FCGRT	ORF3	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000221466	chr19:50029048:+>chr19:50029267:+	47	83
3873	FCGRT	ORF3	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000426395	chr19:50029048:+>chr19:50029267:+	47	83
3874	FCGRT	ORF3	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000599988	chr19:50029048:+>chr19:50029267:+	47	83
3875	FCGRT	ORF3	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000596975	chr19:50029048:+>chr19:50029267:+	47	83
3876	FCGRT	ORF3	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000598076	chr19:50029048:+>chr19:50029267:+	47	83
3877	ITGB4	ORF2	chr17:73727670:+:MIR>chr17:73727893:+:ENST00000579662	chr17:73727670:+>chr17:73727893:+	52	83
3878	ITGB4	ORF2	chr17:73727670:+:MIR>chr17:73727893:+:ENST00000339591	chr17:73727670:+>chr17:73727893:+	52	83
3879	ITGB4	ORF2	chr17:73727670:+:MIR>chr17:73727893:+:ENST00000200181	chr17:73727670:+>chr17:73727893:+	52	83
3880	ITGB4	ORF2	chr17:73727670:+:MIR>chr17:73727893:+:ENST00000450894	chr17:73727670:+>chr17:73727893:+	52	83
3881	ITGB4	ORF2	chr17:73727670:+:MIR>chr17:73727893:+:ENST00000449880	chr17:73727670:+>chr17:73727893:+	52	83
3882	CD74	ORF2	chr5:149806595:-:AluSx1>chr5:149782852:-:ENST00000518797	chr5:149806595:->chr5:149782852:-	13	83
3883	CD74	ORF2	chr5:149806595:-:AluSx1>chr5:149782852:-:ENST00000009530	chr5:149806595:->chr5:149782852:-	13	83
3884	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000263846	chr11:61296834:->chr11:61295647:-	50	83
3885	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000540677	chr11:61296834:->chr11:61295647:-	50	83
3886	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000539008	chr11:61296834:->chr11:61295647:-	50	83
3887	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000542836	chr11:61296834:->chr11:61295647:-	50	83
3888	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000542670	chr11:61296834:->chr11:61295647:-	50	83
3889	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000535826	chr11:61296834:->chr11:61295647:-	50	83
3890	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000545053	chr11:61296834:->chr11:61295647:-	50	83
3891	CLDN15	ORF1	chr7:100877859:-:AluSz>chr7:100877723:-:ENST00000433833	chr7:100877859:->chr7:100877723:-	14	83
3892	CD82	ORF3	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000532544	chr11:44626051:+>chr11:44626608:+	20	83
3893	DAGLB	ORF3	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000432248	chr7:6485343:->chr7:6476164:-	16	83
3894	CACNG6	ORF3	chr19:54502735:+:MIR3>chr19:54515205:+:ENST00000352529	chr19:54502735:+>chr19:54515205:+	4	83
3895	CACNG6	ORF3	chr19:54502735:+:MIR3>chr19:54515205:+:ENST00000252729	chr19:54502735:+>chr19:54515205:+	4	83
3896	CACNG6	ORF3	chr19:54502735:+:MIR3>chr19:54515205:+:ENST00000346968	chr19:54502735:+>chr19:54515205:+	4	83
3897	FOLH1	ORF2	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000256999	chr11:49184443:->chr11:49179595:-	79	83
3898	FOLH1	ORF2	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000356696	chr11:49184443:->chr11:49179595:-	79	83
3899	FOLH1	ORF2	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000343844	chr11:49184443:->chr11:49179595:-	79	83
3900	FOLH1	ORF2	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000340334	chr11:49184443:->chr11:49179595:-	79	83
3901	FOLH1	ORF2	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000533034	chr11:49184443:->chr11:49179595:-	79	83
3902	CLDN18	ORF1	chr3:137728412:+:MIRc>chr3:137742500:+:ENST00000479660	chr3:137728412:+>chr3:137742500:+	8	82
3903	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000332149	chr21:42883790:->chr21:42852529:-	31	82
3904	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000398585	chr21:42883790:->chr21:42852529:-	31	82
3905	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000458356	chr21:42883790:->chr21:42852529:-	31	82
3906	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000454499	chr21:42883790:->chr21:42852529:-	31	82
3907	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000424093	chr21:42883790:->chr21:42852529:-	31	82
3908	TMEM8C	ORF1	chr9:136393545:-:MIRc>chr9:136389925:-:ENST00000339996	chr9:136393545:->chr9:136389925:-	20	82
3909	CDH26	ORF2	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000456106	chr20:58573800:+>chr20:58574641:+	8	82
3910	ITGA3	ORF1	chr17:48164282:+:AluSp>chr17:48165108:+:ENST00000320031	chr17:48164282:+>chr17:48165108:+	4	82
3911	ABHD2	ORF1	chr15:89737498:+:AluSz>chr15:89738458:+:ENST00000352732	chr15:89737498:+>chr15:89738458:+	17	82
3912	ABHD2	ORF1	chr15:89737498:+:AluSz>chr15:89738458:+:ENST00000565973	chr15:89737498:+>chr15:89738458:+	17	82
3913	ABHD2	ORF1	chr15:89737498:+:AluSz>chr15:89738458:+:ENST00000355100	chr15:89737498:+>chr15:89738458:+	17	82
3914	GPR176	ORF2	chr15:40186255:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186255:->chr15:40099459:-	10	82
3915	GPR176	ORF2	chr15:40186255:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186255:->chr15:40099459:-	10	82
3916	CFTR	ORF3	chr7:117316035:+:MSTD>chr7:117355812:+:ENST00000600166	chr7:117316035:+>chr7:117355812:+	49	82
3917	C1orf186	ORF1	chr1:206276891:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206276891:->chr1:206243250:-	45	82
3918	TFR2	ORF3	chr7:100230403:-:AluJr>chr7:100229568:-:ENST00000490084	chr7:100230403:->chr7:100229568:-	16	82
3919	SLCO1A2	ORF2	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000307378	chr12:21426215:->chr12:21422701:-	9	82
3920	SLCO1A2	ORF2	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000452078	chr12:21426215:->chr12:21422701:-	9	82
3921	SLCO1A2	ORF2	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000458504	chr12:21426215:->chr12:21422701:-	9	82
3922	SLCO1A2	ORF2	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000537524	chr12:21426215:->chr12:21422701:-	9	82
3923	GYPC	ORF1	chr2:127421065:+:MIRc>chr2:127447831:+:ENST00000259254	chr2:127421065:+>chr2:127447831:+	43	82
3924	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000604404	chr19:35613502:+>chr19:35613669:+	26	81
3925	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000603181	chr19:35613502:+>chr19:35613669:+	26	81
3926	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000604255	chr19:35613502:+>chr19:35613669:+	26	81
3927	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000344013	chr19:35613502:+>chr19:35613669:+	26	81
3928	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000406988	chr19:35613502:+>chr19:35613669:+	26	81
3929	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000604804	chr19:35613502:+>chr19:35613669:+	26	81
3930	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000535103	chr19:35613502:+>chr19:35613669:+	26	81
3931	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000603524	chr19:35613502:+>chr19:35613669:+	26	81
3932	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000604621	chr19:35613502:+>chr19:35613669:+	26	81
3933	ANO1	ORF1	chr11:70007088:+:MIR>chr11:70007267:+:ENST00000531300	chr11:70007088:+>chr11:70007267:+	7	81
3934	SLC47A2	ORF2	chr17:19608172:-:AluSx3>chr17:19607491:-:ENST00000325411	chr17:19608172:->chr17:19607491:-	21	81
3935	SLC47A2	ORF2	chr17:19608172:-:AluSx3>chr17:19607491:-:ENST00000350657	chr17:19608172:->chr17:19607491:-	21	81
3936	SLC47A2	ORF2	chr17:19608172:-:AluSx3>chr17:19607491:-:ENST00000433844	chr17:19608172:->chr17:19607491:-	21	81
3937	TRABD2B	ORF2	chr1:48271527:-:MIR>chr1:48267291:-:ENST00000606738	chr1:48271527:->chr1:48267291:-	11	80
3938	CLDN18	ORF1	chr3:137728412:+:MIRc>chr3:137742500:+:ENST00000343735	chr3:137728412:+>chr3:137742500:+	8	80
3939	CLDN18	ORF1	chr3:137728412:+:MIRc>chr3:137742500:+:ENST00000183605	chr3:137728412:+>chr3:137742500:+	8	80
3940	SLC29A4	ORF2	chr7:5340708:+:AluJo>chr7:5342428:+:ENST00000396872	chr7:5340708:+>chr7:5342428:+	33	80
3941	SLC29A4	ORF2	chr7:5340708:+:AluJo>chr7:5342428:+:ENST00000297195	chr7:5340708:+>chr7:5342428:+	33	80

Table 15

3942	SLC29A4	ORF2	chr7:5340708:+:AluJo>chr7:5342428:+:ENST00000406453	chr7:5340708:+>chr7:5342428:+	33	80
3943	DNER	ORF2	chr2:230409481:-:AluSq2>chr2:230377652:-:ENST00000341772	chr2:230409481:->chr2:230377652:-	13	80
3944	ITGA3	ORF3	chr17:48150385:+:Tigger15a>chr17:48151280:+:ENST00000510809	chr17:48150385:+>chr17:48151280:+	4	80
3945	SORL1	ORF2	chr11:121357166:+:AluJb>chr11:121358741:+:ENST00000260197	chr11:121357166:+>chr11:121358741:+	13	80
3946	PPAP2C	ORF2	chr19:282661:-:MIR3>chr19:282310:-:ENST00000586998	chr19:282661:->chr19:282310:-	18	80
3947	CFTR	ORF3	chr7:117326829:+:MSTD>chr7:117355812:+:ENST00000600166	chr7:117326829:+>chr7:117355812:+	47	80
3948	ACSL5	ORF3	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000354655	chr10:114163723:+>chr10:114164269:+	11	80
3949	ACSL5	ORF3	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000393081	chr10:114163723:+>chr10:114164269:+	11	80
3950	ACSL5	ORF3	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000356116	chr10:114163723:+>chr10:114164269:+	11	80
3951	ACSL5	ORF3	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000433418	chr10:114163723:+>chr10:114164269:+	11	80
3952	ACSL5	ORF3	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000354273	chr10:114163723:+>chr10:114164269:+	11	80
3953	CD22	ORF1	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000341773	chr19:35834869:+>chr19:35835736:+	28	80
3954	CD22	ORF1	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000085219	chr19:35834869:+>chr19:35835736:+	28	80
3955	CD22	ORF1	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000536635	chr19:35834869:+>chr19:35835736:+	28	80
3956	CD22	ORF1	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000419549	chr19:35834869:+>chr19:35835736:+	28	80
3957	CD22	ORF1	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000544992	chr19:35834869:+>chr19:35835736:+	28	80
3958	CD22	ORF1	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000594250	chr19:35834869:+>chr19:35835736:+	28	80
3959	PLXDC1	ORF1	chr17:37233370:-:AluSz>chr17:37226269:-:ENST00000315392	chr17:37233370:->chr17:37226269:-	17	79
3960	PLXDC1	ORF1	chr17:37233370:-:AluSz>chr17:37226269:-:ENST00000444911	chr17:37233370:->chr17:37226269:-	17	79
3961	CD74	ORF2	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000377795	chr5:149842358:->chr5:149786754:-	5	79
3962	EPCAM	ORF2	chr2:47596570:+:LTR41B>chr2:47596660:+:ENST00000263735	chr2:47596570:+>chr2:47596660:+	48	79
3963	CD8A	ORF2	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000456996	chr2:87017176:->chr2:87016873:-	15	79
3964	CD8A	ORF2	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000352580	chr2:87017176:->chr2:87016873:-	15	79
3965	CD82	ORF3	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000525813	chr11:44626051:+>chr11:44626608:+	20	79
3966	LIG1	ORF2	chr19:48654725:-:AluSq2>chr19:48654596:-:ENST00000263274	chr19:48654725:->chr19:48654596:-	47	79
3967	LIG1	ORF2	chr19:48654725:-:AluSq2>chr19:48654596:-:ENST00000601091	chr19:48654725:->chr19:48654596:-	47	79
3968	LIG1	ORF2	chr19:48654725:-:AluSq2>chr19:48654596:-:ENST00000542460	chr19:48654725:->chr19:48654596:-	47	79
3969	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552164	chr12:56120280:->chr12:56120045:-	4	79
3970	LAT	ORF1	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000395461	chr16:29000300:+>chr16:29000848:+	10	79
3971	LAT	ORF1	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000564277	chr16:29000300:+>chr16:29000848:+	10	79
3972	LAT	ORF1	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000395456	chr16:29000300:+>chr16:29000848:+	10	79
3973	LAT	ORF1	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000454369	chr16:29000300:+>chr16:29000848:+	10	79
3974	LAT	ORF1	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000360872	chr16:29000300:+>chr16:29000848:+	10	79
3975	LAT	ORF1	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000354453	chr16:29000300:+>chr16:29000848:+	10	79
3976	LAT	ORF1	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000566177	chr16:29000300:+>chr16:29000848:+	10	79
3977	NOX1	ORF2	chrX:100124234:-:L1P1>chrX:100118584:-:ENST00000372966	chrX:100124234:->chrX:100118584:-	64	79
3978	NOX1	ORF2	chrX:100124234:-:L1P1>chrX:100118584:-:ENST00000372964	chrX:100124234:->chrX:100118584:-	64	79
3979	NOX1	ORF2	chrX:100124234:-:L1P1>chrX:100118584:-:ENST00000217885	chrX:100124234:->chrX:100118584:-	64	79
3980	SEZ6	ORF2	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000360295	chr17:27307589:->chr17:27306831:-	23	79
3981	SEZ6	ORF2	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000540632	chr17:27307589:->chr17:27306831:-	23	79
3982	SEZ6	ORF2	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000317338	chr17:27307589:->chr17:27306831:-	23	79
3983	SEZ6	ORF2	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000540419	chr17:27307589:->chr17:27306831:-	23	79
3984	SEZ6	ORF2	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000442608	chr17:27307589:->chr17:27306831:-	23	79
3985	SEZ6	ORF2	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000335960	chr17:27307589:->chr17:27306831:-	23	79
3986	FOLH1	ORF3	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000525826	chr11:49228638:->chr11:49227724:-	44	79
3987	C1orf186	ORF2	chr1:206276764:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206276764:->chr1:206243250:-	41	78
3988	CDH17	ORF1	chr8:95148851:-:L1PA6>chr8:95143220:-:ENST00000441892	chr8:95148851:->chr8:95143220:-	6	78
3989	HPN	ORF1	chr19:35548655:+:L1MA8>chr19:35556802:+:ENST00000262626	chr19:35548655:+>chr19:35556802:+	21	78
3990	HPN	ORF1	chr19:35548655:+:L1MA8>chr19:35556802:+:ENST00000392226	chr19:35548655:+>chr19:35556802:+	21	78
3991	HPN	ORF1	chr19:35548655:+:L1MA8>chr19:35556802:+:ENST00000597419	chr19:35548655:+>chr19:35556802:+	21	78
3992	EPCAM	ORF1	chr2:47596512:+:LTR41B>chr2:47596660:+:ENST00000419334	chr2:47596512:+>chr2:47596660:+	29	78
3993	ABCB4	ORF3	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000417608	chr7:87130521:->chr7:87101991:-	43	78
3994	PAQR5	ORF3	chr15:69643353:+:ERVL-B4-int>chr15:69672222:+:ENST00000395407	chr15:69643353:+>chr15:69672222:+	75	78
3995	PAQR5	ORF3	chr15:69643353:+:ERVL-B4-int>chr15:69672222:+:ENST00000561153	chr15:69643353:+>chr15:69672222:+	75	78
3996	PAQR5	ORF3	chr15:69643353:+:ERVL-B4-int>chr15:69672222:+:ENST00000340965	chr15:69643353:+>chr15:69672222:+	75	78
3997	LIG1	ORF2	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000263274	chr19:48654725:->chr19:48654593:-	47	78
3998	LIG1	ORF2	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000594759	chr19:48654725:->chr19:48654593:-	47	78
3999	LIG1	ORF2	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000427526	chr19:48654725:->chr19:48654593:-	47	78
4000	LIG1	ORF2	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000601091	chr19:48654725:->chr19:48654593:-	47	78
4001	LIG1	ORF2	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000542460	chr19:48654725:->chr19:48654593:-	47	78
4002	SGCZ	ORF2	chr8:13965940:-:THE1A>chr8:13965744:-:ENST00000382080	chr8:13965940:->chr8:13965744:-	46	78
4003	SGCZ	ORF2	chr8:13965940:-:THE1A>chr8:13965744:-:ENST00000421524	chr8:13965940:->chr8:13965744:-	46	78
4004	AMICA1	ORF3	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000356289	chr11:118082875:->chr11:118081427:-	47	78
4005	AMICA1	ORF3	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000292067	chr11:118082875:->chr11:118081427:-	47	78
4006	AMICA1	ORF3	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000533261	chr11:118082875:->chr11:118081427:-	47	78
4007	AMICA1	ORF3	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000526595	chr11:118082875:->chr11:118081427:-	47	78
4008	AMICA1	ORF3	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000526620	chr11:118082875:->chr11:118081427:-	47	78
4009	AMICA1	ORF3	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000524477	chr11:118082875:->chr11:118081427:-	47	78
4010	AMICA1	ORF3	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000527877	chr11:118082875:->chr11:118081427:-	47	78
4011	AMICA1	ORF3	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000525565	chr11:118082875:->chr11:118081427:-	47	78
4012	SLCO2B1	ORF2	chr11:74751566:+:HERVE_a-int>chr11:74873700:+:ENST00000289575	chr11:74751566:+>chr11:74873700:+	20	78
4013	FLOT1	ORF3	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000454845	chr6:30708763:->chr6:30708575:-	11	78

Table 15

4014	ITGB4	ORF2	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000579662	chr17:73722173:+>chr17:73739798:+	7	77
4015	ITGB4	ORF2	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000339591	chr17:73722173:+>chr17:73739798:+	7	77
4016	ITGB4	ORF2	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000200181	chr17:73722173:+>chr17:73739798:+	7	77
4017	ITGB4	ORF2	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000450894	chr17:73722173:+>chr17:73739798:+	7	77
4018	ITGB4	ORF2	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000449880	chr17:73722173:+>chr17:73739798:+	7	77
4019	CD74	ORF1	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000524315	chr5:149842358:->chr5:149786754:-	10	77
4020	SYT7	ORF2	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000545053	chr11:61296834:->chr11:61295564:-	50	77
4021	PLSCR1	ORF2	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000342435	chr3:146237953:->chr3:146234954:-	5	77
4022	PLSCR1	ORF2	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000487389	chr3:146237953:->chr3:146234954:-	5	77
4023	PLSCR1	ORF2	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000448787	chr3:146237953:->chr3:146234954:-	5	77
4024	CD63	ORF3	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000551173	chr12:56120280:->chr12:56120045:-	4	77
4025	TSPAN14	ORF3	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000341863	chr10:82214127:+>chr10:82264484:+	11	77
4026	TRGC1	ORF3	chr7:38311882:-:MIRb>chr7:38305279:-:ENST00000443402	chr7:38311882:->chr7:38305279:-	15	77
4027	TRGC2	ORF3	chr7:38311882:-:MIRb>chr7:38289173:-:ENST00000436911	chr7:38311882:->chr7:38289173:-	15	77
4028	CDH6	ORF1	chr5:31298554:+:L3b>chr5:31299571:+:ENST00000514738	chr5:31298554:+>chr5:31299571:+	32	77
4029	CDH6	ORF1	chr5:31298554:+:L3b>chr5:31299571:+:ENST00000265071	chr5:31298554:+>chr5:31299571:+	32	77
4030	NKAIN4	ORF3	chr20:61882315:-:LTR13>chr20:61881424:-:ENST00000370316	chr20:61882315:->chr20:61881424:-	5	77
4031	SGCG	ORF1	chr13:23822916:+:AluY>chr13:23824769:+:ENST00000218867	chr13:23822916:+>chr13:23824769:+	22	77
4032	SGCG	ORF1	chr13:23822916:+:AluY>chr13:23824769:+:ENST00000537476	chr13:23822916:+>chr13:23824769:+	22	77
4033	SGCG	ORF1	chr13:23822916:+:AluY>chr13:23824769:+:ENST00000545013	chr13:23822916:+>chr13:23824769:+	22	77
4034	CD8B	ORF1	chr2:87075916:-:AluSq2>chr2:87073896:-:ENST00000393759	chr2:87075916:->chr2:87073896:-	20	77
4035	CD164	ORF2	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000275080	chr6:109692741:->chr6:109691670:-	3	77
4036	CD164	ORF2	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000310786	chr6:109692741:->chr6:109691670:-	3	77
4037	CD164	ORF2	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000504373	chr6:109692741:->chr6:109691670:-	3	77
4038	GRM8	ORF3	chr7:126155693:-:MLT1D>chr7:126086426:-:ENST00000444921	chr7:126155693:->chr7:126086426:-	13	77
4039	GRM8	ORF3	chr7:126155693:-:MLT1D>chr7:126086426:-:ENST00000339582	chr7:126155693:->chr7:126086426:-	13	77
4040	GRM8	ORF3	chr7:126155693:-:MLT1D>chr7:126086426:-:ENST00000358373	chr7:126155693:->chr7:126086426:-	13	77
4041	GRM8	ORF3	chr7:126155693:-:MLT1D>chr7:126086426:-:ENST00000472701	chr7:126155693:->chr7:126086426:-	13	77
4042	ADTRP	ORF1	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000379415	chr6:11748704:->chr6:11735916:-	38	77
4043	TTYH1	ORF1	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000423529	chr19:54930864:+>chr19:54932451:+	27	76
4044	TTYH1	ORF1	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000301194	chr19:54930864:+>chr19:54932451:+	27	76
4045	TTYH1	ORF1	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000376530	chr19:54930864:+>chr19:54932451:+	27	76
4046	TTYH1	ORF1	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000445095	chr19:54930864:+>chr19:54932451:+	27	76
4047	TTYH1	ORF1	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000391739	chr19:54930864:+>chr19:54932451:+	27	76
4048	TTYH1	ORF1	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000376531	chr19:54930864:+>chr19:54932451:+	27	76
4049	CD81	ORF1	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000475945	chr11:2353285:+>chr11:2416688:+	45	76
4050	RHBDF2	ORF1	chr17:74471820:-:AluSx>chr17:74471223:-:ENST00000389760	chr17:74471820:->chr17:74471223:-	13	76
4051	RHBDF2	ORF1	chr17:74471820:-:AluSx>chr17:74471223:-:ENST00000313080	chr17:74471820:->chr17:74471223:-	13	76
4052	RHBDF2	ORF1	chr17:74471820:-:AluSx>chr17:74471223:-:ENST00000591885	chr17:74471820:->chr17:74471223:-	13	76
4053	STRA6	ORF1	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000395105	chr15:74475786:->chr15:74474801:-	33	76
4054	STRA6	ORF1	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000423167	chr15:74475786:->chr15:74474801:-	33	76
4055	STRA6	ORF1	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000323940	chr15:74475786:->chr15:74474801:-	33	76
4056	STRA6	ORF1	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000449139	chr15:74475786:->chr15:74474801:-	33	76
4057	STRA6	ORF1	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000416286	chr15:74475786:->chr15:74474801:-	33	76
4058	STRA6	ORF1	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000535552	chr15:74475786:->chr15:74474801:-	33	76
4059	STRA6	ORF1	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000563965	chr15:74475786:->chr15:74474801:-	33	76
4060	STRA6	ORF1	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000574278	chr15:74475786:->chr15:74474801:-	33	76
4061	TTYH3	ORF2	chr7:2682079:+:AluSx>chr7:2686487:+:ENST00000400376	chr7:2682079:+>chr7:2686487:+	7	76
4062	CDH2	ORF1	chr18:25540816:-:Tigger16b>chr18:25532323:-:ENST00000269141	chr18:25540816:->chr18:25532323:-	8	76
4063	CDH2	ORF1	chr18:25540816:-:Tigger16b>chr18:25532323:-:ENST00000399380	chr18:25540816:->chr18:25532323:-	8	76
4064	ADTRP	ORF1	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000506810	chr6:11748704:->chr6:11735916:-	38	76
4065	PVRL2	ORF2	chr19:45365480:+:AluYk4>chr19:45368528:+:ENST00000252485	chr19:45365480:+>chr19:45368528:+	18	76
4066	PVRL2	ORF2	chr19:45365480:+:AluYk4>chr19:45368528:+:ENST00000252483	chr19:45365480:+>chr19:45368528:+	18	76
4067	EPHB4	ORF1	chr7:100406048:-:AluJr>chr7:100405202:-:ENST00000360620	chr7:100406048:->chr7:100405202:-	24	75
4068	EPHB4	ORF1	chr7:100406048:-:AluJr>chr7:100405202:-:ENST00000358173	chr7:100406048:->chr7:100405202:-	24	75
4069	LRIG2	ORF3	chr1:113611593:+:SVA_F>chr1:113616150:+:ENST00000361127	chr1:113611593:+>chr1:113616150:+	14	75
4070	TTYH1	ORF1	chr19:54945078:+:MIRb>chr19:54946807:+:ENST00000391739	chr19:54945078:+>chr19:54946807:+	55	75
4071	CD8A	ORF1	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000456996	chr2:87017176:->chr2:87016873:-	10	75
4072	CD8A	ORF1	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000352580	chr2:87017176:->chr2:87016873:-	10	75
4073	KREMEN1	ORF2	chr22:29519837:+:L1ME1>chr22:29521251:+:ENST00000453585	chr22:29519837:+>chr22:29521251:+	7	75
4074	PKD1	ORF2	chr16:2148723:-:L1M4>chr16:2147985:-:ENST00000567946	chr16:2148723:->chr16:2147985:-	19	75
4075	IFITM3	ORF3	chr11:321504:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321504:->chr11:320772:-	44	75
4076	CD82	ORF2	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000530601	chr11:44632201:+>chr11:44636822:+	11	75
4077	ABCB5	ORF2	chr7:20708050:+:SVA_E>chr7:20721128:+:ENST00000404938	chr7:20708050:+>chr7:20721128:+	37	75
4078	ABCB5	ORF2	chr7:20708050:+:SVA_E>chr7:20721128:+:ENST00000258738	chr7:20708050:+>chr7:20721128:+	37	75
4079	PIEZO1	ORF3	chr16:88785499:-:AluJr4>chr16:88783619:-:ENST00000301015	chr16:88785499:->chr16:88783619:-	18	75
4080	PIEZO1	ORF3	chr16:88785499:-:AluJr4>chr16:88783619:-:ENST00000327397	chr16:88785499:->chr16:88783619:-	18	75
4081	TM4SF5	ORF3	chr17:4681244:+:AluJb>chr17:4684084:+:ENST00000270560	chr17:4681244:+>chr17:4684084:+	14	74
4082	TRPM1	ORF1	chr15:31365913:-:L1MB8>chr15:31362429:-:ENST00000559179	chr15:31365913:->chr15:31362429:-	8	74
4083	FCRL5	ORF1	chr1:157517430:-:MIR3>chr1:157516987:-:ENST00000361835	chr1:157517430:->chr1:157516987:-	16	74
4084	FCRL5	ORF1	chr1:157517430:-:MIR3>chr1:157516987:-:ENST00000356953	chr1:157517430:->chr1:157516987:-	16	74
4085	FCRL5	ORF1	chr1:157517430:-:MIR3>chr1:157516987:-:ENST00000368190	chr1:157517430:->chr1:157516987:-	16	74

Table 15

4086	FCRL5	ORF1	chr1:157517430:-:MIR3>chr1:157516987:-:ENST00000368189	chr1:157517430:->chr1:157516987:-	16	74
4087	FCRL5	ORF1	chr1:157517430:-:MIR3>chr1:157516987:-:ENST00000368188	chr1:157517430:->chr1:157516987:-	16	74
4088	SLCO3A1	ORF1	chr15:92501699:+:MIRb>chr15:92638111:+:ENST00000318445	chr15:92501699:+>chr15:92638111:+	9	74
4089	SLCO3A1	ORF1	chr15:92501699:+:MIRb>chr15:92638111:+:ENST00000424469	chr15:92501699:+>chr15:92638111:+	9	74
4090	SORCS2	ORF2	chr4:7533048:+:MIRc>chr4:7533257:+:ENST00000507866	chr4:7533048:+>chr4:7533257:+	4	74
4091	SORCS2	ORF2	chr4:7533048:+:MIRc>chr4:7533257:+:ENST00000329016	chr4:7533048:+>chr4:7533257:+	4	74
4092	KL	ORF3	chr13:33560375:+:MER82>chr13:33627904:+:ENST00000380099	chr13:33560375:+>chr13:33627904:+	49	74
4093	FCGRT	ORF1	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000221466	chr19:50029048:+>chr19:50029267:+	48	73
4094	FCGRT	ORF1	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000426395	chr19:50029048:+>chr19:50029267:+	48	73
4095	FCGRT	ORF1	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000599988	chr19:50029048:+>chr19:50029267:+	48	73
4096	FCGRT	ORF1	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000596975	chr19:50029048:+>chr19:50029267:+	48	73
4097	FCGRT	ORF1	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000598076	chr19:50029048:+>chr19:50029267:+	48	73
4098	CD74	ORF1	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000353334	chr5:149842358:->chr5:149786754:-	10	73
4099	CD74	ORF1	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000518797	chr5:149842358:->chr5:149786754:-	10	73
4100	CD74	ORF1	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000009530	chr5:149842358:->chr5:149786754:-	10	73
4101	CD74	ORF1	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000523208	chr5:149842358:->chr5:149786754:-	10	73
4102	PDPN	ORF2	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000294489	chr1:13909091:+>chr1:13910478:+	26	73
4103	PDPN	ORF2	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000376057	chr1:13909091:+>chr1:13910478:+	26	73
4104	PDPN	ORF2	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000510906	chr1:13909091:+>chr1:13910478:+	26	73
4105	CD8A	ORF3	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000456996	chr2:87017176:->chr2:87016873:-	9	73
4106	CD8A	ORF3	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000352580	chr2:87017176:->chr2:87016873:-	9	73
4107	BICC1	ORF2	chr10:60299167:+:L1PB3>chr10:60380615:+:ENST00000373886	chr10:60299167:+>chr10:60380615:+	43	73
4108	KIRREL3	ORF3	chr11:126310717:-:L2c>chr11:126310444:-:ENST00000525144	chr11:126310717:->chr11:126310444:-	8	73
4109	KIRREL3	ORF3	chr11:126310717:-:L2c>chr11:126310444:-:ENST00000529097	chr11:126310717:->chr11:126310444:-	8	73
4110	KIRREL3	ORF3	chr11:126310717:-:L2c>chr11:126310444:-:ENST00000525704	chr11:126310717:->chr11:126310444:-	8	73
4111	CD86	ORF1	chr3:121832724:+:L3>chr3:121836895:+:ENST00000469710	chr3:121832724:+>chr3:121836895:+	26	73
4112	CD86	ORF1	chr3:121832724:+:L3>chr3:121836895:+:ENST00000493101	chr3:121832724:+>chr3:121836895:+	26	73
4113	CD86	ORF1	chr3:121832724:+:L3>chr3:121836895:+:ENST00000264468	chr3:121832724:+>chr3:121836895:+	26	73
4114	CD86	ORF1	chr3:121832724:+:L3>chr3:121836895:+:ENST00000330540	chr3:121832724:+>chr3:121836895:+	26	73
4115	CD86	ORF1	chr3:121832724:+:L3>chr3:121836895:+:ENST00000393627	chr3:121832724:+>chr3:121836895:+	26	73
4116	CD86	ORF1	chr3:121832724:+:L3>chr3:121836895:+:ENST00000478741	chr3:121832724:+>chr3:121836895:+	26	73
4117	CD22	ORF2	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000341773	chr19:35834869:+>chr19:35835736:+	19	73
4118	CD22	ORF2	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000085219	chr19:35834869:+>chr19:35835736:+	19	73
4119	CD22	ORF2	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000536635	chr19:35834869:+>chr19:35835736:+	19	73
4120	CD22	ORF2	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000419549	chr19:35834869:+>chr19:35835736:+	19	73
4121	CD22	ORF2	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000544992	chr19:35834869:+>chr19:35835736:+	19	73
4122	CD22	ORF2	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000594250	chr19:35834869:+>chr19:35835736:+	19	73
4123	SLC22A16	ORF3	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000424139	chr6:110774731:->chr6:110768193:-	33	73
4124	SLC16A10	ORF2	chr6:111494728:+:MER1A>chr6:111498415:+:ENST00000368851	chr6:111494728:+>chr6:111498415:+	11	73
4125	SLC16A10	ORF2	chr6:111494728:+:MER1A>chr6:111498415:+:ENST00000439288	chr6:111494728:+>chr6:111498415:+	11	73
4126	SLC16A10	ORF2	chr6:111494728:+:MER1A>chr6:111498415:+:ENST00000419619	chr6:111494728:+>chr6:111498415:+	11	73
4127	HM13	ORF1	chr20:30153664:+:MER5A>chr20:30154013:+:ENST00000340852	chr20:30153664:+>chr20:30154013:+	12	73
4128	HM13	ORF1	chr20:30153664:+:MER5A>chr20:30154013:+:ENST00000376127	chr20:30153664:+>chr20:30154013:+	12	73
4129	SLC47A2	ORF3	chr17:19608172:-:AluSx3>chr17:19607491:-:ENST00000433844	chr17:19608172:->chr17:19607491:-	13	73
4130	SLC39A8	ORF3	chr4:103184426:-:Tigger1>chr4:103184350:-:ENST00000424970	chr4:103184426:->chr4:103184350:-	68	72
4131	SLC39A8	ORF3	chr4:103184426:-:Tigger1>chr4:103184350:-:ENST00000394833	chr4:103184426:->chr4:103184350:-	68	72
4132	SLC39A8	ORF3	chr4:103184426:-:Tigger1>chr4:103184350:-:ENST00000356736	chr4:103184426:->chr4:103184350:-	68	72
4133	NCKAP1	ORF2	chr2:183899651:-:MIR3>chr2:183888644:-:ENST00000361354	chr2:183899651:->chr2:183888644:-	5	72
4134	NCKAP1	ORF2	chr2:183899651:-:MIR3>chr2:183888644:-:ENST00000360982	chr2:183899651:->chr2:183888644:-	5	72
4135	ABCC6	ORF1	chr16:16249649:-:L2c>chr16:16248888:-:ENST00000205557	chr16:16249649:->chr16:16248888:-	8	72
4136	ERBB2	ORF2	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000541774	chr17:37861414:+>chr17:37863243:+	66	72
4137	ERBB2	ORF2	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000584450	chr17:37861414:+>chr17:37863243:+	66	72
4138	ERBB2	ORF2	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000582648	chr17:37861414:+>chr17:37863243:+	66	72
4139	ERBB2	ORF2	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000578373	chr17:37861414:+>chr17:37863243:+	66	72
4140	ERBB2	ORF2	chr17:37861414:+:MIRb>chr17:37863243:+:ENST00000269571	chr17:37861414:+>chr17:37863243:+	66	72
4141	APLP1	ORF1	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000590561	chr19:36361472:+>chr19:36361798:+	23	72
4142	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000454845	chr6:30708813:->chr6:30708539:-	17	72
4143	TTYH1	ORF3	chr19:54945169:+:L2>chr19:54946722:+:ENST00000376531	chr19:54945169:+>chr19:54946722:+	11	71
4144	FCGRT	ORF2	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000221466	chr19:50029048:+>chr19:50029267:+	47	71
4145	FCGRT	ORF2	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000426395	chr19:50029048:+>chr19:50029267:+	47	71
4146	FCGRT	ORF2	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000599988	chr19:50029048:+>chr19:50029267:+	47	71
4147	FCGRT	ORF2	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000596975	chr19:50029048:+>chr19:50029267:+	47	71
4148	FCGRT	ORF2	chr19:50029048:+:(CAGAGA)n>chr19:50029267:+:ENST00000598076	chr19:50029048:+>chr19:50029267:+	47	71
4149	TTYH1	ORF3	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000423529	chr19:54930864:+>chr19:54932451:+	11	71
4150	CD74	ORF2	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000524315	chr5:149842358:->chr5:149786754:-	5	71
4151	OPN3	ORF1	chr1:241764108:-:L2c>chr1:241761299:-:ENST00000366554	chr1:241764108:->chr1:241761299:-	59	71
4152	OPN3	ORF1	chr1:241764108:-:L2c>chr1:241761299:-:ENST00000331838	chr1:241764108:->chr1:241761299:-	59	71
4153	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000548898	chr12:56120280:->chr12:56120045:-	14	71
4154	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552067	chr12:56120280:->chr12:56120045:-	14	71
4155	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000420846	chr12:56120280:->chr12:56120045:-	14	71
4156	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000548160	chr12:56120280:->chr12:56120045:-	14	71
4157	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000546939	chr12:56120280:->chr12:56120045:-	14	71

Table 15

4158	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552692	chr12:56120280:->chr12:56120045:-	14	71
4159	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000549117	chr12:56120280:->chr12:56120045:-	14	71
4160	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000257857	chr12:56120280:->chr12:56120045:-	14	71
4161	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552754	chr12:56120280:->chr12:56120045:-	14	71
4162	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000550776	chr12:56120280:->chr12:56120045:-	14	71
4163	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552164	chr12:56120280:->chr12:56120045:-	14	71
4164	CD63	ORF1	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000551173	chr12:56120280:->chr12:56120045:-	14	71
4165	SUSD3	ORF1	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000465709	chr9:95843805:+>chr9:95846819:+	27	71
4166	PVRL2	ORF2	chr19:45347340:+:MIRb>chr19:45368528:+:ENST00000252485	chr19:45347340:+>chr19:45368528:+	13	71
4167	PVRL2	ORF2	chr19:45347340:+:MIRb>chr19:45368528:+:ENST00000252483	chr19:45347340:+>chr19:45368528:+	13	71
4168	STRA6	ORF2	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000395105	chr15:74475786:->chr15:74474801:-	6	71
4169	STRA6	ORF2	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000423167	chr15:74475786:->chr15:74474801:-	6	71
4170	STRA6	ORF2	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000323940	chr15:74475786:->chr15:74474801:-	6	71
4171	STRA6	ORF2	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000449139	chr15:74475786:->chr15:74474801:-	6	71
4172	STRA6	ORF2	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000416286	chr15:74475786:->chr15:74474801:-	6	71
4173	STRA6	ORF2	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000535552	chr15:74475786:->chr15:74474801:-	6	71
4174	STRA6	ORF2	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000563965	chr15:74475786:->chr15:74474801:-	6	71
4175	STRA6	ORF2	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000574278	chr15:74475786:->chr15:74474801:-	6	71
4176	SDC3	ORF1	chr1:31346686:-:MIRb>chr1:31346224:-:ENST00000336798	chr1:31346686:->chr1:31346224:-	16	71
4177	SDC3	ORF1	chr1:31346686:-:MIRb>chr1:31346224:-:ENST00000339394	chr1:31346686:->chr1:31346224:-	16	71
4178	SCNN1B	ORF3	chr16:23347490:+:MIR>chr16:23359913:+:ENST00000307331	chr16:23347490:+>chr16:23359913:+	25	71
4179	SCARA5	ORF2	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000354914	chr8:27795193:->chr8:27779762:-	63	71
4180	SCARA5	ORF2	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000524352	chr8:27795193:->chr8:27779762:-	63	71
4181	SCARA5	ORF2	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000518030	chr8:27795193:->chr8:27779762:-	63	71
4182	SCARA5	ORF2	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000301906	chr8:27795193:->chr8:27779762:-	63	71
4183	GABRA5	ORF2	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000554038	chr15:27076933:+>chr15:27125993:+	13	71
4184	BAI1	ORF1	chr8:143592168:+:G-rich>chr8:143592293:+:ENST00000517894	chr8:143592168:+>chr8:143592293:+	31	71
4185	BAI1	ORF1	chr8:143592168:+:G-rich>chr8:143592293:+:ENST00000521208	chr8:143592168:+>chr8:143592293:+	31	71
4186	BAI1	ORF1	chr8:143592168:+:G-rich>chr8:143592293:+:ENST00000323289	chr8:143592168:+>chr8:143592293:+	31	71
4187	IFITM3	ORF3	chr11:324180:-:HERV3-int>chr11:320772:-:ENST00000399808	chr11:324180:->chr11:320772:-	40	71
4188	CD40	ORF1	chr20:44752755:+:AluSx1>chr20:44756777:+:ENST00000372276	chr20:44752755:+>chr20:44756777:+	33	71
4189	GPR98	ORF1	chr5:90396867:+:L1MC4>chr5:90398036:+:ENST00000405460	chr5:90396867:+>chr5:90398036:+	67	70
4190	GPR98	ORF1	chr5:90396867:+:L1MC4>chr5:90398036:+:ENST00000425867	chr5:90396867:+>chr5:90398036:+	67	70
4191	BRI3	ORF1	chr7:97907153:+:AluSp>chr7:97911663:+:ENST00000539286	chr7:97907153:+>chr7:97911663:+	19	70
4192	FLOT1	ORF3	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000454845	chr6:30708853:->chr6:30708575:-	3	70
4193	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000523813	chr5:149925791:->chr5:149792301:-	21	70
4194	AHCYL1	ORF3	chr1:110545898:+:L1MC4>chr1:110551656:+:ENST00000369799	chr1:110545898:+>chr1:110551656:+	3	70
4195	SAT1	ORF1	chrX:23766160:+:AluSx>chrX:23803814:+:ENST00000379254	chrX:23766160:+>chrX:23803814:+	17	70
4196	SAT1	ORF1	chrX:23766160:+:AluSx>chrX:23803814:+:ENST00000379270	chrX:23766160:+>chrX:23803814:+	17	70
4197	PDPN	ORF2	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000506205	chr1:13909091:+>chr1:13910478:+	26	70
4198	VANGL1	ORF3	chr1:116206078:+:Tigger15a>chr1:116206282:+:ENST00000355485	chr1:116206078:+>chr1:116206282:+	16	70
4199	VANGL1	ORF3	chr1:116206078:+:Tigger15a>chr1:116206282:+:ENST00000369510	chr1:116206078:+>chr1:116206282:+	16	70
4200	VANGL1	ORF3	chr1:116206078:+:Tigger15a>chr1:116206282:+:ENST00000310260	chr1:116206078:+>chr1:116206282:+	16	70
4201	VANGL1	ORF3	chr1:116206078:+:Tigger15a>chr1:116206282:+:ENST00000369509	chr1:116206078:+>chr1:116206282:+	16	70
4202	ACVR1B	ORF3	chr12:52353971:+:AluJr>chr12:52369049:+:ENST00000257963	chr12:52353971:+>chr12:52369049:+	16	70
4203	ACVR1B	ORF3	chr12:52353971:+:AluJr>chr12:52369049:+:ENST00000541224	chr12:52353971:+>chr12:52369049:+	16	70
4204	ACVR1B	ORF3	chr12:52353971:+:AluJr>chr12:52369049:+:ENST00000426655	chr12:52353971:+>chr12:52369049:+	16	70
4205	ACVR1B	ORF3	chr12:52353971:+:AluJr>chr12:52369049:+:ENST00000415850	chr12:52353971:+>chr12:52369049:+	16	70
4206	PTPRA	ORF1	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000380393	chr20:3004517:+>chr20:3005118:+	47	70
4207	PTPRA	ORF1	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000216877	chr20:3004517:+>chr20:3005118:+	47	70
4208	PTPRA	ORF1	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000358719	chr20:3004517:+>chr20:3005118:+	47	70
4209	PTPRA	ORF1	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000399903	chr20:3004517:+>chr20:3005118:+	47	70
4210	PTPRA	ORF1	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000425918	chr20:3004517:+>chr20:3005118:+	47	70
4211	PTPRA	ORF1	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000318266	chr20:3004517:+>chr20:3005118:+	47	70
4212	PTPRA	ORF1	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000356147	chr20:3004517:+>chr20:3005118:+	47	70
4213	PTPRC	ORF3	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000352140	chr1:198708339:+>chr1:198710998:+	60	70
4214	PTPRC	ORF3	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000367376	chr1:198708339:+>chr1:198710998:+	60	70
4215	PTPRC	ORF3	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000594404	chr1:198708339:+>chr1:198710998:+	60	70
4216	PTPRC	ORF3	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000442510	chr1:198708339:+>chr1:198710998:+	60	70
4217	PTPRC	ORF3	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000348564	chr1:198708339:+>chr1:198710998:+	60	70
4218	EPCAM	ORF3	chr2:47596600:+:LTR41B>chr2:47596660:+:ENST00000263735	chr2:47596600:+>chr2:47596660:+	46	70
4219	CD40	ORF3	chr20:44752755:+:AluSx1>chr20:44756777:+:ENST00000372285	chr20:44752755:+>chr20:44756777:+	32	70
4220	CD40	ORF3	chr20:44752755:+:AluSx1>chr20:44756777:+:ENST00000372276	chr20:44752755:+>chr20:44756777:+	32	70
4221	SLC7A8	ORF2	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000524758	chr14:23669913:->chr14:23635749:-	25	69
4222	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474801:-:ENST00000395105	chr15:74475594:->chr15:74474801:-	4	69
4223	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474801:-:ENST00000423167	chr15:74475594:->chr15:74474801:-	4	69
4224	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474801:-:ENST00000323940	chr15:74475594:->chr15:74474801:-	4	69
4225	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474801:-:ENST00000449139	chr15:74475594:->chr15:74474801:-	4	69
4226	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474801:-:ENST00000416286	chr15:74475594:->chr15:74474801:-	4	69
4227	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474801:-:ENST00000535552	chr15:74475594:->chr15:74474801:-	4	69
4228	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474801:-:ENST00000563965	chr15:74475594:->chr15:74474801:-	4	69
4229	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474801:-:ENST00000574278	chr15:74475594:->chr15:74474801:-	4	69

Table 15

4230	SLC13A3	ORF2	chr20:45296205:-:MIR>chr20:45242364:-:ENST00000279027	chr20:45296205:->chr20:45242364:-	3	69
4231	SLC13A3	ORF2	chr20:45296205:-:MIR>chr20:45242364:-:ENST00000413164	chr20:45296205:->chr20:45242364:-	3	69
4232	SLC13A3	ORF2	chr20:45296205:-:MIR>chr20:45242364:-:ENST00000420568	chr20:45296205:->chr20:45242364:-	3	69
4233	SLC13A3	ORF2	chr20:45296205:-:MIR>chr20:45242364:-:ENST00000372121	chr20:45296205:->chr20:45242364:-	3	69
4234	SLC13A3	ORF2	chr20:45296205:-:MIR>chr20:45242364:-:ENST00000339636	chr20:45296205:->chr20:45242364:-	3	69
4235	ABCC1	ORF1	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000399410	chr16:16233287:+>chr16:16235030:+	33	69
4236	ABCC1	ORF1	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000345148	chr16:16233287:+>chr16:16235030:+	33	69
4237	ABCC1	ORF1	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000346370	chr16:16233287:+>chr16:16235030:+	33	69
4238	ABCC1	ORF1	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000349029	chr16:16233287:+>chr16:16235030:+	33	69
4239	ABCC1	ORF1	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000351154	chr16:16233287:+>chr16:16235030:+	33	69
4240	ABCC1	ORF1	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000399408	chr16:16233287:+>chr16:16235030:+	33	69
4241	ABCC1	ORF1	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000572882	chr16:16233287:+>chr16:16235030:+	33	69
4242	SLC39A11	ORF2	chr17:70695201:-:AluY>chr17:70645407:-:ENST00000255559	chr17:70695201:->chr17:70645407:-	13	69
4243	SLC39A11	ORF2	chr17:70695201:-:AluY>chr17:70645407:-:ENST00000542342	chr17:70695201:->chr17:70645407:-	13	69
4244	QSOX2	ORF3	chr9:139123591:-:MIRc>chr9:139118720:-:ENST00000358701	chr9:139123591:->chr9:139118720:-	7	69
4245	OR1L8	ORF1	chr9:125339045:-:L1MCa>chr9:125329970:-:ENST00000304865	chr9:125339045:->chr9:125329970:-	39	69
4246	CD164	ORF2	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000413644	chr6:109692741:->chr6:109691670:-	3	69
4247	SCNN1A	ORF3	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000360168	chr12:6462453:->chr12:6458571:-	42	69
4248	SCNN1A	ORF3	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000358945	chr12:6462453:->chr12:6458571:-	42	69
4249	SCNN1A	ORF3	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000540037	chr12:6462453:->chr12:6458571:-	42	69
4250	SCNN1A	ORF3	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000228916	chr12:6462453:->chr12:6458571:-	42	69
4251	SCNN1A	ORF3	chr12:6462453:-:Charlie7a>chr12:6458571:-:ENST00000543768	chr12:6462453:->chr12:6458571:-	42	69
4252	LDLR	ORF3	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000545707	chr19:11230510:+>chr19:11230768:+	6	69
4253	SLC39A11	ORF1	chr17:70666923:-:L1MC4a>chr17:70645407:-:ENST00000255559	chr17:70666923:->chr17:70645407:-	13	69
4254	SLC39A11	ORF1	chr17:70666923:-:L1MC4a>chr17:70645407:-:ENST00000542342	chr17:70666923:->chr17:70645407:-	13	69
4255	ANO10	ORF2	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000292246	chr3:43592944:->chr3:43591340:-	62	68
4256	ANO10	ORF2	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000350459	chr3:43592944:->chr3:43591340:-	62	68
4257	ANO10	ORF2	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000396091	chr3:43592944:->chr3:43591340:-	62	68
4258	ANO10	ORF2	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000414522	chr3:43592944:->chr3:43591340:-	62	68
4259	ANO10	ORF2	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000451430	chr3:43592944:->chr3:43591340:-	62	68
4260	ANO10	ORF2	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000448045	chr3:43592944:->chr3:43591340:-	62	68
4261	TTYH1	ORF2	chr19:54945078:+:MIRb>chr19:54946722:+:ENST00000391739	chr19:54945078:+>chr19:54946722:+	19	68
4262	CD74	ORF3	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000377795	chr5:149832091:->chr5:149792292:-	18	68
4263	CD74	ORF3	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000353334	chr5:149832091:->chr5:149792292:-	18	68
4264	CD74	ORF3	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000518797	chr5:149832091:->chr5:149792292:-	18	68
4265	CD74	ORF3	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000524315	chr5:149832091:->chr5:149792292:-	18	68
4266	CD74	ORF3	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000009530	chr5:149832091:->chr5:149792292:-	18	68
4267	CD74	ORF3	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000523208	chr5:149832091:->chr5:149792292:-	18	68
4268	CD74	ORF3	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000522246	chr5:149832091:->chr5:149792292:-	18	68
4269	CD74	ORF2	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000523813	chr5:149832091:->chr5:149792292:-	22	68
4270	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000263846	chr11:61296834:->chr11:61295564:-	10	68
4271	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000540677	chr11:61296834:->chr11:61295564:-	10	68
4272	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000539008	chr11:61296834:->chr11:61295564:-	10	68
4273	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000542836	chr11:61296834:->chr11:61295564:-	10	68
4274	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000542670	chr11:61296834:->chr11:61295564:-	10	68
4275	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000535826	chr11:61296834:->chr11:61295564:-	10	68
4276	SLCO4A1	ORF1	chr20:61301405:+:Tigger7>chr20:61303102:+:ENST00000217159	chr20:61301405:+>chr20:61303102:+	21	68
4277	SLCO4A1	ORF1	chr20:61301405:+:Tigger7>chr20:61303102:+:ENST00000370507	chr20:61301405:+>chr20:61303102:+	21	68
4278	SLCO4A1	ORF1	chr20:61301405:+:Tigger7>chr20:61303102:+:ENST00000451793	chr20:61301405:+>chr20:61303102:+	21	68
4279	CDH15	ORF3	chr16:89249054:+:AluSx>chr16:89249956:+:ENST00000289746	chr16:89249054:+>chr16:89249956:+	41	68
4280	ROS1	ORF1	chr6:117763560:-:THE1B>chr6:117739669:-:ENST00000368507	chr6:117763560:->chr6:117739669:-	56	68
4281	ROS1	ORF1	chr6:117763560:-:THE1B>chr6:117739669:-:ENST00000368508	chr6:117763560:->chr6:117739669:-	56	68
4282	GPR176	ORF1	chr15:40186077:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186077:->chr15:40099459:-	45	68
4283	GPR176	ORF1	chr15:40186077:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186077:->chr15:40099459:-	45	68
4284	PVRL2	ORF2	chr19:45365456:+:AluYk4>chr19:45368528:+:ENST00000252485	chr19:45365456:+>chr19:45368528:+	10	68
4285	PVRL2	ORF2	chr19:45365456:+:AluYk4>chr19:45368528:+:ENST00000252483	chr19:45365456:+>chr19:45368528:+	10	68
4286	PTPRO	ORF2	chr12:15701267:+:L1MC4a>chr12:15702028:+:ENST00000535311	chr12:15701267:+>chr12:15702028:+	11	68
4287	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87016873:-:ENST00000283635	chr2:87028634:->chr2:87016873:-	21	68
4288	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87016873:-:ENST00000409511	chr2:87028634:->chr2:87016873:-	21	68
4289	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87016873:-:ENST00000538832	chr2:87028634:->chr2:87016873:-	21	68
4290	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000263398	chr11:35110122:+>chr11:35198122:+	67	68
4291	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000526025	chr11:35110122:+>chr11:35198122:+	67	68
4292	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000360158	chr11:35110122:+>chr11:35198122:+	67	68
4293	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000415148	chr11:35110122:+>chr11:35198122:+	67	68
4294	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000433354	chr11:35110122:+>chr11:35198122:+	67	68
4295	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000437706	chr11:35110122:+>chr11:35198122:+	67	68
4296	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000449691	chr11:35110122:+>chr11:35198122:+	67	68
4297	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000428726	chr11:35110122:+>chr11:35198122:+	67	68
4298	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000526669	chr11:35110122:+>chr11:35198122:+	67	68
4299	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000425428	chr11:35110122:+>chr11:35198122:+	67	68
4300	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000433892	chr11:35110122:+>chr11:35198122:+	67	68
4301	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000278386	chr11:35110122:+>chr11:35198122:+	67	68

Table 15

4302	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000434472	chr11:35110122:+>chr11:35198122:+	67	68
4303	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000352818	chr11:35110122:+>chr11:35198122:+	67	68
4304	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000442151	chr11:35110122:+>chr11:35198122:+	67	68
4305	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000525211	chr11:35110122:+>chr11:35198122:+	67	68
4306	CD44	ORF3	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000526000	chr11:35110122:+>chr11:35198122:+	67	68
4307	LPCAT2	ORF2	chr16:55614664:+:MER1B>chr16:55616826:+:ENST00000262134	chr16:55614664:+>chr16:55616826:+	7	68
4308	APCDD1	ORF1	chr18:10479692:+:MIRc>chr18:10485459:+:ENST00000355285	chr18:10479692:+>chr18:10485459:+	25	67
4309	APCDD1	ORF1	chr18:10479692:+:MIRc>chr18:10485459:+:ENST00000423585	chr18:10479692:+>chr18:10485459:+	25	67
4310	TM7SF3	ORF1	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000512808	chr12:27153625:->chr12:27152581:-	22	67
4311	CD74	ORF2	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000523208	chr5:149842358:->chr5:149786754:-	5	67
4312	CHRNA1	ORF3	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000348749	chr2:175625718:->chr2:175624361:-	25	67
4313	CHRNA1	ORF3	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000261007	chr2:175625718:->chr2:175624361:-	25	67
4314	CHRNA1	ORF3	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000409219	chr2:175625718:->chr2:175624361:-	25	67
4315	CHRNA1	ORF3	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000409542	chr2:175625718:->chr2:175624361:-	25	67
4316	CHRNA1	ORF3	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000435083	chr2:175625718:->chr2:175624361:-	25	67
4317	CHRNA1	ORF3	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000409323	chr2:175625718:->chr2:175624361:-	25	67
4318	GRID1	ORF2	chr10:87479212:-:THE1A>chr10:87407154:-:ENST00000327946	chr10:87479212:->chr10:87407154:-	45	67
4319	GRID1	ORF2	chr10:87479212:-:THE1A>chr10:87407154:-:ENST00000536331	chr10:87479212:->chr10:87407154:-	45	67
4320	GRID1	ORF2	chr10:87479212:-:THE1A>chr10:87407154:-:ENST00000464741	chr10:87479212:->chr10:87407154:-	45	67
4321	EDNRB	ORF1	chr13:78549482:-:Harlequin-int>chr13:78492759:-:ENST00000377211	chr13:78549482:->chr13:78492759:-	65	67
4322	ADAM9	ORF2	chr8:38946750:+:AluSx3>chr8:38947566:+:ENST00000487273	chr8:38946750:+>chr8:38947566:+	20	67
4323	CLDN15	ORF1	chr7:100877154:-:AluSx1>chr7:100876195:-:ENST00000308344	chr7:100877154:->chr7:100876195:-	7	67
4324	CLDN15	ORF1	chr7:100877154:-:AluSx1>chr7:100876195:-:ENST00000401528	chr7:100877154:->chr7:100876195:-	7	67
4325	CLDN15	ORF1	chr7:100877154:-:AluSx1>chr7:100876195:-:ENST00000414035	chr7:100877154:->chr7:100876195:-	7	67
4326	CLDN15	ORF1	chr7:100877154:-:AluSx1>chr7:100876195:-:ENST00000412417	chr7:100877154:->chr7:100876195:-	7	67
4327	ATP11A	ORF1	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000283558	chr13:113507475:+>chr13:113508593:+	18	67
4328	ATP11A	ORF1	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000375630	chr13:113507475:+>chr13:113508593:+	18	67
4329	ATP11A	ORF1	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000375645	chr13:113507475:+>chr13:113508593:+	18	67
4330	ATP11A	ORF1	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000487903	chr13:113507475:+>chr13:113508593:+	18	67
4331	ATP11A	ORF1	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000418678	chr13:113507475:+>chr13:113508593:+	18	67
4332	ATP11A	ORF1	chr13:113507475:+:AluJr>chr13:113508593:+:ENST00000471555	chr13:113507475:+>chr13:113508593:+	18	67
4333	SLC39A11	ORF3	chr17:70695201:-:AluY>chr17:70645407:-:ENST00000582769	chr17:70695201:->chr17:70645407:-	21	67
4334	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000416018	chr6:30708813:->chr6:30708368:-	17	67
4335	HM13	ORF1	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000335574	chr20:30126162:+>chr20:30137867:+	10	67
4336	HM13	ORF1	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000340852	chr20:30126162:+>chr20:30137867:+	10	67
4337	HM13	ORF1	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000398174	chr20:30126162:+>chr20:30137867:+	10	67
4338	HM13	ORF1	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000376127	chr20:30126162:+>chr20:30137867:+	10	67
4339	HM13	ORF1	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000344042	chr20:30126162:+>chr20:30137867:+	10	67
4340	GPR176	ORF2	chr15:40185902:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40185902:->chr15:40099459:-	44	67
4341	GPR176	ORF2	chr15:40185902:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40185902:->chr15:40099459:-	44	67
4342	ABCC1	ORF3	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000399410	chr16:16046079:+>chr16:16101673:+	16	67
4343	ABCC1	ORF3	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000345148	chr16:16046079:+>chr16:16101673:+	16	67
4344	ABCC1	ORF3	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000346370	chr16:16046079:+>chr16:16101673:+	16	67
4345	ABCC1	ORF3	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000349029	chr16:16046079:+>chr16:16101673:+	16	67
4346	ABCC1	ORF3	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000351154	chr16:16046079:+>chr16:16101673:+	16	67
4347	ABCC1	ORF3	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000399408	chr16:16046079:+>chr16:16101673:+	16	67
4348	EPCAM	ORF3	chr2:47596600:+:LTR41B>chr2:47596660:+:ENST00000419334	chr2:47596600:+>chr2:47596660:+	46	67
4349	OR7G2	ORF3	chr19:9214762:-:AluSz>chr19:9213935:-:ENST00000305456	chr19:9214762:->chr19:9213935:-	11	67
4350	PIEZO1	ORF1	chr16:88785499:-:AluJr4>chr16:88783619:-:ENST00000301015	chr16:88785499:->chr16:88783619:-	5	67
4351	PIEZO1	ORF1	chr16:88785499:-:AluJr4>chr16:88783619:-:ENST00000327397	chr16:88785499:->chr16:88783619:-	5	67
4352	CLIC6	ORF2	chr21:36085908:+:HAL1b>chr21:36088619:+:ENST00000349499	chr21:36085908:+>chr21:36088619:+	13	66
4353	CLIC6	ORF2	chr21:36085908:+:HAL1b>chr21:36088619:+:ENST00000360731	chr21:36085908:+>chr21:36088619:+	13	66
4354	SLC39A8	ORF2	chr4:103184426:-:Tigger1>chr4:103184350:-:ENST00000394833	chr4:103184426:->chr4:103184350:-	17	66
4355	SLC39A8	ORF2	chr4:103184426:-:Tigger1>chr4:103184350:-:ENST00000356736	chr4:103184426:->chr4:103184350:-	17	66
4356	TNFRSF21	ORF2	chr6:47275281:-:AluJr>chr6:47254331:-:ENST00000296861	chr6:47275281:->chr6:47254331:-	33	66
4357	FLOT1	ORF3	chr6:30708646:-:AluSx1>chr6:30697954:-:ENST00000376389	chr6:30708646:->chr6:30697954:-	5	66
4358	FLOT1	ORF3	chr6:30708646:-:AluSx1>chr6:30697954:-:ENST00000456573	chr6:30708646:->chr6:30697954:-	5	66
4359	TM7SF3	ORF2	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000343028	chr12:27153625:->chr12:27152581:-	13	66
4360	CD81	ORF1	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000533417	chr11:2353285:+>chr11:2416688:+	45	66
4361	CLDN1	ORF2	chr3:190065532:-:L2a>chr3:190030825:-:ENST00000295522	chr3:190065532:->chr3:190030825:-	58	66
4362	ANO10	ORF1	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000292246	chr3:43498855:->chr3:43474219:-	51	66
4363	ANO10	ORF1	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000350459	chr3:43498855:->chr3:43474219:-	51	66
4364	ANO10	ORF1	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000396091	chr3:43498855:->chr3:43474219:-	51	66
4365	ANO10	ORF1	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000451430	chr3:43498855:->chr3:43474219:-	51	66
4366	ANO10	ORF1	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000448045	chr3:43498855:->chr3:43474219:-	51	66
4367	TMEM260	ORF2	chr14:56982236:+:THE1C>chr14:57051719:+:ENST00000555497	chr14:56982236:+>chr14:57051719:+	4	66
4368	CD8B	ORF1	chr2:87075916:-:AluSq2>chr2:87073896:-:ENST00000390655	chr2:87075916:->chr2:87073896:-	20	66
4369	GPR176	ORF1	chr15:40186657:-:SVA_F>chr15:40099398:-:ENST00000299092	chr15:40186657:->chr15:40099398:-	14	66
4370	GPR176	ORF1	chr15:40186657:-:SVA_F>chr15:40099398:-:ENST00000561100	chr15:40186657:->chr15:40099398:-	14	66
4371	GPR176	ORF1	chr15:40186657:-:SVA_F>chr15:40099398:-:ENST00000543580	chr15:40186657:->chr15:40099398:-	14	66
4372	TRPM1	ORF1	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000397795	chr15:31327548:->chr15:31325143:-	33	66
4373	TRPM1	ORF1	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000256552	chr15:31327548:->chr15:31325143:-	33	66

Table 15

4374	TRPM1	ORF1	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000542188	chr15:31327548:->chr15:31325143:-	33	66
4375	TRPM1	ORF1	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000558768	chr15:31327548:->chr15:31325143:-	33	66
4376	TRPM1	ORF1	chr15:31327548:-:AluSz>chr15:31325143:-:ENST00000558445	chr15:31327548:->chr15:31325143:-	33	66
4377	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000263398	chr11:35250220:+>chr11:35250676:+	13	65
4378	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000360158	chr11:35250220:+>chr11:35250676:+	13	65
4379	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000415148	chr11:35250220:+>chr11:35250676:+	13	65
4380	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000433354	chr11:35250220:+>chr11:35250676:+	13	65
4381	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000437706	chr11:35250220:+>chr11:35250676:+	13	65
4382	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000449691	chr11:35250220:+>chr11:35250676:+	13	65
4383	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000428726	chr11:35250220:+>chr11:35250676:+	13	65
4384	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000526669	chr11:35250220:+>chr11:35250676:+	13	65
4385	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000433892	chr11:35250220:+>chr11:35250676:+	13	65
4386	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000278386	chr11:35250220:+>chr11:35250676:+	13	65
4387	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000434472	chr11:35250220:+>chr11:35250676:+	13	65
4388	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000352818	chr11:35250220:+>chr11:35250676:+	13	65
4389	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000279452	chr11:35250220:+>chr11:35250676:+	13	65
4390	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000525469	chr11:35250220:+>chr11:35250676:+	13	65
4391	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000545053	chr11:61296834:->chr11:61295647:-	10	65
4392	SLC7A8	ORF1	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000316902	chr14:23669913:->chr14:23635749:-	21	65
4393	SLC7A8	ORF1	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000469263	chr14:23669913:->chr14:23635749:-	21	65
4394	SLC7A8	ORF1	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000524758	chr14:23669913:->chr14:23635749:-	21	65
4395	ABCB4	ORF1	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000359206	chr7:87130521:->chr7:87101991:-	55	65
4396	ABCB4	ORF1	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000358400	chr7:87130521:->chr7:87101991:-	55	65
4397	ABCB4	ORF1	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000265723	chr7:87130521:->chr7:87101991:-	55	65
4398	ABCB4	ORF1	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000453593	chr7:87130521:->chr7:87101991:-	55	65
4399	ABCB4	ORF1	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000545634	chr7:87130521:->chr7:87101991:-	55	65
4400	ABCB4	ORF1	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000417608	chr7:87130521:->chr7:87101991:-	55	65
4401	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000571341	chr15:74490651:->chr15:74490159:-	14	65
4402	ATP1B3	ORF3	chr3:141642345:+:MSTC>chr3:141644373:+:ENST00000286371	chr3:141642345:+>chr3:141644373:+	9	65
4403	ATP1B3	ORF3	chr3:141642345:+:MSTC>chr3:141644373:+:ENST00000462082	chr3:141642345:+>chr3:141644373:+	9	65
4404	SGCE	ORF1	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000265735	chr7:94270209:->chr7:94259153:-	17	65
4405	SGCE	ORF1	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000445866	chr7:94270209:->chr7:94259153:-	17	65
4406	SGCE	ORF1	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000447873	chr7:94270209:->chr7:94259153:-	17	65
4407	SGCE	ORF1	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000428696	chr7:94270209:->chr7:94259153:-	17	65
4408	SGCE	ORF1	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000415788	chr7:94270209:->chr7:94259153:-	17	65
4409	GPR176	ORF2	chr15:40186430:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186430:->chr15:40099459:-	42	65
4410	GPR176	ORF2	chr15:40186430:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186430:->chr15:40099459:-	42	65
4411	ATP8A2	ORF2	chr13:26171792:+:MLT1E1A>chr13:26273311:+:ENST00000381655	chr13:26171792:+>chr13:26273311:+	40	65
4412	ATP8A2	ORF2	chr13:26171792:+:MLT1E1A>chr13:26273311:+:ENST00000255283	chr13:26171792:+>chr13:26273311:+	40	65
4413	ATP8A2	ORF2	chr13:26171792:+:MLT1E1A>chr13:26273311:+:ENST00000281620	chr13:26171792:+>chr13:26273311:+	40	65
4414	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000360168	chr12:6458996:->chr12:6458171:-	33	65
4415	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000358945	chr12:6458996:->chr12:6458171:-	33	65
4416	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000540037	chr12:6458996:->chr12:6458171:-	33	65
4417	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000228916	chr12:6458996:->chr12:6458171:-	33	65
4418	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000396966	chr12:6458996:->chr12:6458171:-	33	65
4419	SCNN1A	ORF3	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000543768	chr12:6458996:->chr12:6458171:-	33	65
4420	FLVCR1	ORF1	chr1:213064523:+:AluSz>chr1:213068328:+:ENST00000366971	chr1:213064523:+>chr1:213068328:+	18	65
4421	FLVCR1	ORF1	chr1:213064523:+:AluSz>chr1:213068328:+:ENST00000419102	chr1:213064523:+>chr1:213068328:+	18	65
4422	FAIM2	ORF2	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000550195	chr12:50285280:->chr12:50284897:-	7	65
4423	GPM6B	ORF1	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000316715	chrX:13907571:->chrX:13803927:-	6	65
4424	GPM6B	ORF1	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000454189	chrX:13907571:->chrX:13803927:-	6	65
4425	GPM6B	ORF1	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000493677	chrX:13907571:->chrX:13803927:-	6	65
4426	GPM6B	ORF1	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000355135	chrX:13907571:->chrX:13803927:-	6	65
4427	GPM6B	ORF1	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000356942	chrX:13907571:->chrX:13803927:-	6	65
4428	GPM6B	ORF1	chrX:13907571:-:L2a>chrX:13803927:-:ENST00000475307	chrX:13907571:->chrX:13803927:-	6	65
4429	SERINC5	ORF2	chr5:79421482:-:L2c>chr5:79410474:-:ENST00000509193	chr5:79421482:->chr5:79410474:-	29	65
4430	BTLA	ORF3	chr3:112200259:-:MSTD-int>chr3:112198616:-:ENST00000334529	chr3:112200259:->chr3:112198616:-	60	65
4431	BTLA	ORF3	chr3:112200259:-:MSTD-int>chr3:112198616:-:ENST00000383680	chr3:112200259:->chr3:112198616:-	60	65
4432	ROR2	ORF1	chr9:94504366:-:THE1A>chr9:94499800:-:ENST00000375715	chr9:94504366:->chr9:94499800:-	18	65
4433	ROR2	ORF1	chr9:94504366:-:THE1A>chr9:94499800:-:ENST00000375708	chr9:94504366:->chr9:94499800:-	18	65
4434	CD22	ORF2	chr19:35834869:+:AluSz>chr19:35835736:+:ENST00000270311	chr19:35834869:+>chr19:35835736:+	19	65
4435	RHBG	ORF1	chr1:156337862:+:L2c>chr1:156344398:+:ENST00000544720	chr1:156337862:+>chr1:156344398:+	30	65
4436	RHBG	ORF1	chr1:156337862:+:L2c>chr1:156344398:+:ENST00000368247	chr1:156337862:+>chr1:156344398:+	30	65
4437	RHBG	ORF1	chr1:156337862:+:L2c>chr1:156344398:+:ENST00000368245	chr1:156337862:+>chr1:156344398:+	30	65
4438	SLC13A3	ORF3	chr20:45199655:-:THE1C>chr20:45195029:-:ENST00000468915	chr20:45199655:->chr20:45195029:-	54	65
4439	SLC13A3	ORF1	chr20:45199619:-:THE1C>chr20:45195029:-:ENST00000396360	chr20:45199619:->chr20:45195029:-	7	65
4440	SLC13A3	ORF1	chr20:45199619:-:THE1C>chr20:45195029:-:ENST00000435032	chr20:45199619:->chr20:45195029:-	7	65
4441	SLC13A3	ORF1	chr20:45199619:-:THE1C>chr20:45195029:-:ENST00000290317	chr20:45199619:->chr20:45195029:-	7	65
4442	SLC13A3	ORF1	chr20:45199619:-:THE1C>chr20:45195029:-:ENST00000279027	chr20:45199619:->chr20:45195029:-	7	65
4443	SLC13A3	ORF1	chr20:45199619:-:THE1C>chr20:45195029:-:ENST00000472148	chr20:45199619:->chr20:45195029:-	7	65
4444	SLC13A3	ORF1	chr20:45199619:-:THE1C>chr20:45195029:-:ENST00000413164	chr20:45199619:->chr20:45195029:-	7	65
4445	SLC13A3	ORF1	chr20:45199619:-:THE1C>chr20:45195029:-:ENST00000495082	chr20:45199619:->chr20:45195029:-	7	65

Table 15

4446	EPHB4	ORF2	chr7:100406098:-:AluJr>chr7:100405202:-:ENST00000360620	chr7:100406098:->chr7:100405202:-	13	64
4447	EPHB4	ORF2	chr7:100406098:-:AluJr>chr7:100405202:-:ENST00000358173	chr7:100406098:->chr7:100405202:-	13	64
4448	FXYD3	ORF3	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000605550	chr19:35613502:+>chr19:35613669:+	26	64
4449	CD74	ORF3	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000523813	chr5:149832091:->chr5:149792292:-	18	64
4450	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474787:-:ENST00000395105	chr15:74475594:->chr15:74474787:-	4	64
4451	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474787:-:ENST00000423167	chr15:74475594:->chr15:74474787:-	4	64
4452	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474787:-:ENST00000323940	chr15:74475594:->chr15:74474787:-	4	64
4453	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474787:-:ENST00000449139	chr15:74475594:->chr15:74474787:-	4	64
4454	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474787:-:ENST00000416286	chr15:74475594:->chr15:74474787:-	4	64
4455	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474787:-:ENST00000535552	chr15:74475594:->chr15:74474787:-	4	64
4456	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474787:-:ENST00000563965	chr15:74475594:->chr15:74474787:-	4	64
4457	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474787:-:ENST00000574278	chr15:74475594:->chr15:74474787:-	4	64
4458	GRAMD2	ORF2	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000309731	chr15:72463983:->chr15:72462280:-	40	64
4459	GRAMD2	ORF2	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000564129	chr15:72463983:->chr15:72462280:-	40	64
4460	GRAMD2	ORF2	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000568594	chr15:72463983:->chr15:72462280:-	40	64
4461	GRAMD2	ORF2	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000570275	chr15:72463983:->chr15:72462280:-	40	64
4462	GRAMD2	ORF2	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000562288	chr15:72463983:->chr15:72462280:-	40	64
4463	CDH26	ORF3	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000348616	chr20:58573800:+>chr20:58574641:+	4	64
4464	CDH26	ORF3	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000350849	chr20:58573800:+>chr20:58574641:+	4	64
4465	CD82	ORF2	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000526958	chr11:44626051:+>chr11:44626608:+	57	64
4466	CD82	ORF2	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000227155	chr11:44626051:+>chr11:44626608:+	57	64
4467	CD82	ORF2	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000342935	chr11:44626051:+>chr11:44626608:+	57	64
4468	CD82	ORF2	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000532544	chr11:44626051:+>chr11:44626608:+	57	64
4469	CD82	ORF2	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000527737	chr11:44626051:+>chr11:44626608:+	57	64
4470	CD82	ORF2	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000524704	chr11:44626051:+>chr11:44626608:+	57	64
4471	CD82	ORF2	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000525813	chr11:44626051:+>chr11:44626608:+	57	64
4472	CD82	ORF2	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000530601	chr11:44626051:+>chr11:44626608:+	57	64
4473	SLC10A7	ORF2	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000432059	chr4:147297909:->chr4:147247148:-	14	64
4474	SLC10A7	ORF2	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000335472	chr4:147297909:->chr4:147247148:-	14	64
4475	SLC10A7	ORF2	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000507030	chr4:147297909:->chr4:147247148:-	14	64
4476	SLC10A7	ORF2	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000394062	chr4:147297909:->chr4:147247148:-	14	64
4477	GPR161	ORF2	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000367838	chr1:168066913:->chr1:168066470:-	18	64
4478	GPR161	ORF2	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000271357	chr1:168066913:->chr1:168066470:-	18	64
4479	GPR161	ORF2	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000539777	chr1:168066913:->chr1:168066470:-	18	64
4480	GPR161	ORF2	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000361697	chr1:168066913:->chr1:168066470:-	18	64
4481	GPR161	ORF2	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000537209	chr1:168066913:->chr1:168066470:-	18	64
4482	GPR161	ORF2	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000546300	chr1:168066913:->chr1:168066470:-	18	64
4483	GPR161	ORF2	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000367835	chr1:168066913:->chr1:168066470:-	18	64
4484	STRA6	ORF3	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000573391	chr15:74490651:->chr15:74490159:-	14	64
4485	DAGLB	ORF1	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000297056	chr7:6485343:->chr7:6476164:-	17	64
4486	DAGLB	ORF1	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000425398	chr7:6485343:->chr7:6476164:-	17	64
4487	DAGLB	ORF1	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000436575	chr7:6485343:->chr7:6476164:-	17	64
4488	DAGLB	ORF1	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000432248	chr7:6485343:->chr7:6476164:-	17	64
4489	ERBB2	ORF3	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000578709	chr17:37864193:+>chr17:37864574:+	7	64
4490	TTYH1	ORF2	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000423529	chr19:54930716:+>chr19:54932451:+	4	64
4491	CLEC12A	ORF3	chr12:10105636:+:SVA_F>chr12:10124176:+:ENST00000355690	chr12:10105636:+>chr12:10124176:+	12	64
4492	CD247	ORF1	chr1:167498934:-:MLT1E1A>chr1:167410004:-:ENST00000362089	chr1:167498934:->chr1:167410004:-	33	64
4493	CD247	ORF2	chr1:167498934:-:MLT1E1A>chr1:167410004:-:ENST00000362089	chr1:167498934:->chr1:167410004:-	11	64
4494	CD247	ORF1	chr1:167498934:-:MLT1E1A>chr1:167410004:-:ENST00000392122	chr1:167498934:->chr1:167410004:-	33	64
4495	CD247	ORF2	chr1:167498934:-:MLT1E1A>chr1:167410004:-:ENST00000392122	chr1:167498934:->chr1:167410004:-	11	64
4496	LAIR1	ORF2	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000391743	chr19:54868321:->chr19:54868228:-	57	64
4497	LAIR1	ORF2	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000348231	chr19:54868321:->chr19:54868228:-	57	64
4498	LAIR1	ORF2	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000391742	chr19:54868321:->chr19:54868228:-	57	64
4499	LAIR1	ORF2	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000434277	chr19:54868321:->chr19:54868228:-	57	64
4500	LAIR1	ORF2	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000313038	chr19:54868321:->chr19:54868228:-	57	64
4501	LAIR1	ORF2	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000391741	chr19:54868321:->chr19:54868228:-	57	64
4502	LAIR1	ORF2	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000474878	chr19:54868321:->chr19:54868228:-	57	64
4503	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000377795	chr5:149925791:->chr5:149792270:-	21	64
4504	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000353334	chr5:149925791:->chr5:149792270:-	21	64
4505	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000518797	chr5:149925791:->chr5:149792270:-	21	64
4506	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000524315	chr5:149925791:->chr5:149792270:-	21	64
4507	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000009530	chr5:149925791:->chr5:149792270:-	21	64
4508	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000523208	chr5:149925791:->chr5:149792270:-	21	64
4509	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000522246	chr5:149925791:->chr5:149792270:-	21	64
4510	SLC47A2	ORF3	chr17:19608298:-:AluSx3>chr17:19607491:-:ENST00000433844	chr17:19608298:->chr17:19607491:-	4	64
4511	IMP4	ORF1	chr2:131058851:+:REP522>chr2:131102202:+:ENST00000259239	chr2:131058851:+>chr2:131102202:+	57	64
4512	IMP4	ORF1	chr2:131058851:+:REP522>chr2:131102202:+:ENST00000409935	chr2:131058851:+>chr2:131102202:+	57	64
4513	IMP4	ORF1	chr2:131058851:+:REP522>chr2:131102202:+:ENST00000456713	chr2:131058851:+>chr2:131102202:+	57	64
4514	IMP4	ORF1	chr2:131058851:+:REP522>chr2:131102202:+:ENST00000452955	chr2:131058851:+>chr2:131102202:+	57	64
4515	KIAA1324	ORF2	chr1:109725274:+:AluY>chr1:109727667:+:ENST00000369939	chr1:109725274:+>chr1:109727667:+	13	63
4516	KIAA1324	ORF2	chr1:109725274:+:AluY>chr1:109727667:+:ENST00000457623	chr1:109725274:+>chr1:109727667:+	13	63
4517	ANO1	ORF1	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000355303	chr11:69971235:+>chr11:69972167:+	23	63

Table 15

4518	ANO1	ORF1	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000398543	chr11:69971235:+>chr11:69972167:+	23	63
4519	ANO1	ORF1	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000538023	chr11:69971235:+>chr11:69972167:+	23	63
4520	ANO1	ORF1	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000316296	chr11:69971235:+>chr11:69972167:+	23	63
4521	ANO1	ORF1	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000530676	chr11:69971235:+>chr11:69972167:+	23	63
4522	ANO1	ORF1	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000530480	chr11:69971235:+>chr11:69972167:+	23	63
4523	ANO1	ORF1	chr11:69971235:+:AluSz>chr11:69972167:+:ENST00000531349	chr11:69971235:+>chr11:69972167:+	23	63
4524	KCNQ2	ORF1	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000357249	chr20:62068988:->chr20:62065256:-	5	63
4525	KCNQ2	ORF1	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000359125	chr20:62068988:->chr20:62065256:-	5	63
4526	KCNQ2	ORF1	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000359689	chr20:62068988:->chr20:62065256:-	5	63
4527	KCNQ2	ORF1	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000344462	chr20:62068988:->chr20:62065256:-	5	63
4528	KCNQ2	ORF3	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000344425	chr20:62068988:->chr20:62065256:-	10	63
4529	PDPN	ORF1	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000506205	chr1:13909091:+>chr1:13910478:+	19	63
4530	PLSCR1	ORF2	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000483300	chr3:146237953:->chr3:146234954:-	5	63
4531	GPR161	ORF2	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000367838	chr1:168067120:->chr1:168066470:-	17	63
4532	GPR161	ORF2	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000271357	chr1:168067120:->chr1:168066470:-	17	63
4533	GPR161	ORF2	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000539777	chr1:168067120:->chr1:168066470:-	17	63
4534	GPR161	ORF2	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000361697	chr1:168067120:->chr1:168066470:-	17	63
4535	GPR161	ORF2	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000537209	chr1:168067120:->chr1:168066470:-	17	63
4536	GPR161	ORF2	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000546300	chr1:168067120:->chr1:168066470:-	17	63
4537	GPR161	ORF2	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000367835	chr1:168067120:->chr1:168066470:-	17	63
4538	MYOF	ORF2	chr10:95133847:-:L1PA6>chr10:95132842:-:ENST00000463743	chr10:95133847:->chr10:95132842:-	57	63
4539	MYOF	ORF2	chr10:95133847:-:L1PA6>chr10:95132842:-:ENST00000358334	chr10:95133847:->chr10:95132842:-	57	63
4540	MYOF	ORF2	chr10:95133847:-:L1PA6>chr10:95132842:-:ENST00000359263	chr10:95133847:->chr10:95132842:-	57	63
4541	MYOF	ORF2	chr10:95133847:-:L1PA6>chr10:95132842:-:ENST00000371501	chr10:95133847:->chr10:95132842:-	57	63
4542	MYOF	ORF2	chr10:95133847:-:L1PA6>chr10:95132842:-:ENST00000371502	chr10:95133847:->chr10:95132842:-	57	63
4543	F2RL1	ORF3	chr5:76108438:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108438:+>chr5:76128515:+	60	63
4544	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000456996	chr2:87028634:->chr2:87015683:-	36	63
4545	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000352580	chr2:87028634:->chr2:87015683:-	36	63
4546	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000283635	chr2:87028634:->chr2:87015683:-	36	63
4547	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000409511	chr2:87028634:->chr2:87015683:-	36	63
4548	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000538832	chr2:87028634:->chr2:87015683:-	36	63
4549	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000409781	chr2:87028634:->chr2:87015683:-	36	63
4550	LRP1	ORF1	chr12:57560106:+:AluJb>chr12:57560713:+:ENST00000243077	chr12:57560106:+>chr12:57560713:+	17	63
4551	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474784:-:ENST00000395105	chr15:74475594:->chr15:74474784:-	4	63
4552	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474784:-:ENST00000423167	chr15:74475594:->chr15:74474784:-	4	63
4553	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474784:-:ENST00000323940	chr15:74475594:->chr15:74474784:-	4	63
4554	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474784:-:ENST00000449139	chr15:74475594:->chr15:74474784:-	4	63
4555	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474784:-:ENST00000416286	chr15:74475594:->chr15:74474784:-	4	63
4556	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474784:-:ENST00000535552	chr15:74475594:->chr15:74474784:-	4	63
4557	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474784:-:ENST00000563965	chr15:74475594:->chr15:74474784:-	4	63
4558	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474784:-:ENST00000574278	chr15:74475594:->chr15:74474784:-	4	63
4559	GPM6B	ORF1	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000316715	chrX:13921670:->chrX:13803927:-	4	63
4560	GPM6B	ORF1	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000454189	chrX:13921670:->chrX:13803927:-	4	63
4561	GPM6B	ORF1	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000493677	chrX:13921670:->chrX:13803927:-	4	63
4562	GPM6B	ORF1	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000355135	chrX:13921670:->chrX:13803927:-	4	63
4563	GPM6B	ORF1	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000356942	chrX:13921670:->chrX:13803927:-	4	63
4564	GPM6B	ORF1	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000475307	chrX:13921670:->chrX:13803927:-	4	63
4565	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000425428	chr11:35110122:+>chr11:35198122:+	5	63
4566	LILRB4	ORF2	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000391736	chr19:55173998:+>chr19:55175292:+	52	63
4567	LILRB4	ORF2	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000270452	chr19:55173998:+>chr19:55175292:+	52	63
4568	LILRB4	ORF2	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000430952	chr19:55173998:+>chr19:55175292:+	52	63
4569	LILRB4	ORF2	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000391734	chr19:55173998:+>chr19:55175292:+	52	63
4570	LILRB4	ORF2	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000391733	chr19:55173998:+>chr19:55175292:+	52	63
4571	LILRB4	ORF2	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000434286	chr19:55173998:+>chr19:55175292:+	52	63
4572	SLC7A8	ORF3	chr14:23639294:-:MIRc>chr14:23635749:-:ENST00000316902	chr14:23639294:->chr14:23635749:-	19	63
4573	SLC7A8	ORF3	chr14:23639294:-:MIRc>chr14:23635749:-:ENST00000469263	chr14:23639294:->chr14:23635749:-	19	63
4574	SLC7A8	ORF3	chr14:23639294:-:MIRc>chr14:23635749:-:ENST00000524758	chr14:23639294:->chr14:23635749:-	19	63
4575	HPN	ORF1	chr19:35551974:+:L1MB7>chr19:35556154:+:ENST00000262626	chr19:35551974:+>chr19:35556154:+	13	62
4576	HPN	ORF1	chr19:35551974:+:L1MB7>chr19:35556154:+:ENST00000392226	chr19:35551974:+>chr19:35556154:+	13	62
4577	HPN	ORF1	chr19:35551974:+:L1MB7>chr19:35556154:+:ENST00000597419	chr19:35551974:+>chr19:35556154:+	13	62
4578	FAIM2	ORF3	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000550195	chr12:50292556:->chr12:50291869:-	17	62
4579	PLXDC1	ORF2	chr17:37233370:-:AluSz>chr17:37226269:-:ENST00000315392	chr17:37233370:->chr17:37226269:-	7	62
4580	PLXDC1	ORF2	chr17:37233370:-:AluSz>chr17:37226269:-:ENST00000444911	chr17:37233370:->chr17:37226269:-	7	62
4581	GRAMD2	ORF3	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000562288	chr15:72463983:->chr15:72462280:-	16	62
4582	ERBB2	ORF2	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000584601	chr17:37864193:+>chr17:37864574:+	29	62
4583	ERBB2	ORF2	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000578199	chr17:37864193:+>chr17:37864574:+	29	62
4584	ERBB2	ORF2	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000406381	chr17:37864193:+>chr17:37864574:+	29	62
4585	ERBB2	ORF2	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000541774	chr17:37864193:+>chr17:37864574:+	29	62
4586	ERBB2	ORF2	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000540147	chr17:37864193:+>chr17:37864574:+	29	62
4587	ERBB2	ORF2	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000584450	chr17:37864193:+>chr17:37864574:+	29	62
4588	ERBB2	ORF2	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000269571	chr17:37864193:+>chr17:37864574:+	29	62
4589	ERBB2	ORF2	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000578709	chr17:37864193:+>chr17:37864574:+	29	62

4590	ERBB2	ORF2	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000584099	chr17:37864193:+>chr17:37864574:+	29	62
4591	ERBB2	ORF2	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000540042	chr17:37864193:+>chr17:37864574:+	29	62
4592	TM7SF3	ORF1	chr12:27153593:-:AluY>chr12:27152609:-:ENST00000545600	chr12:27153593:->chr12:27152609:-	33	62
4593	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000425428	chr11:35195735:+>chr11:35198122:+	4	62
4594	APLP1	ORF2	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000537454	chr19:36361472:+>chr19:36361798:+	13	62
4595	APLP1	ORF2	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000221891	chr19:36361472:+>chr19:36361798:+	13	62
4596	APLP1	ORF2	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000590561	chr19:36361472:+>chr19:36361798:+	13	62
4597	APLP1	ORF2	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000586861	chr19:36361472:+>chr19:36361798:+	13	62
4598	APLP1	ORF2	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000589743	chr19:36361472:+>chr19:36361798:+	13	62
4599	APLP1	ORF2	chr19:36361472:+:AluSq2>chr19:36361798:+:ENST00000592316	chr19:36361472:+>chr19:36361798:+	13	62
4600	NGFR	ORF1	chr17:47582998:+:MER91A>chr17:47583661:+:ENST00000172229	chr17:47582998:+>chr17:47583661:+	15	62
4601	TMEM260	ORF2	chr14:56982236:+:THE1C>chr14:57051719:+:ENST00000556810	chr14:56982236:+>chr14:57051719:+	4	62
4602	KIAA1324	ORF2	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000533147	chr1:109695471:+>chr1:109704516:+	22	62
4603	PLGRKT	ORF1	chr9:5439143:-:LTR33>chr9:5361888:-:ENST00000223864	chr9:5439143:->chr9:5361888:-	51	62
4604	IFITM3	ORF3	chr11:321543:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321543:->chr11:320772:-	31	62
4605	SLC7A8	ORF1	chr14:23610894:-:AluSz>chr14:23609833:-:ENST00000339733	chr14:23610894:->chr14:23609833:-	23	62
4606	SLC7A8	ORF1	chr14:23610894:-:AluSz>chr14:23609833:-:ENST00000316902	chr14:23610894:->chr14:23609833:-	23	62
4607	SLC7A8	ORF1	chr14:23610894:-:AluSz>chr14:23609833:-:ENST00000469263	chr14:23610894:->chr14:23609833:-	23	62
4608	SLC7A8	ORF1	chr14:23610894:-:AluSz>chr14:23609833:-:ENST00000453702	chr14:23610894:->chr14:23609833:-	23	62
4609	SLC7A8	ORF1	chr14:23610894:-:AluSz>chr14:23609833:-:ENST00000529705	chr14:23610894:->chr14:23609833:-	23	62
4610	C1orf186	ORF1	chr1:206284908:-:Harlequin-int>chr1:206243250:-:ENST00000331555	chr1:206284908:->chr1:206243250:-	25	62
4611	BAI1	ORF2	chr8:143592168:+:G-rich>chr8:143592293:+:ENST00000517894	chr8:143592168:+>chr8:143592293:+	31	62
4612	BAI1	ORF2	chr8:143592168:+:G-rich>chr8:143592293:+:ENST00000521208	chr8:143592168:+>chr8:143592293:+	31	62
4613	BAI1	ORF2	chr8:143592168:+:G-rich>chr8:143592293:+:ENST00000323289	chr8:143592168:+>chr8:143592293:+	31	62
4614	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000263398	chr11:35110122:+>chr11:35198122:+	34	62
4615	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000526025	chr11:35110122:+>chr11:35198122:+	34	62
4616	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000360158	chr11:35110122:+>chr11:35198122:+	34	62
4617	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000415148	chr11:35110122:+>chr11:35198122:+	34	62
4618	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000433354	chr11:35110122:+>chr11:35198122:+	34	62
4619	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000437706	chr11:35110122:+>chr11:35198122:+	34	62
4620	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000449691	chr11:35110122:+>chr11:35198122:+	34	62
4621	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000428726	chr11:35110122:+>chr11:35198122:+	34	62
4622	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000526669	chr11:35110122:+>chr11:35198122:+	34	62
4623	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000425428	chr11:35110122:+>chr11:35198122:+	34	62
4624	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000433892	chr11:35110122:+>chr11:35198122:+	34	62
4625	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000278386	chr11:35110122:+>chr11:35198122:+	34	62
4626	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000434472	chr11:35110122:+>chr11:35198122:+	34	62
4627	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000352818	chr11:35110122:+>chr11:35198122:+	34	62
4628	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000442151	chr11:35110122:+>chr11:35198122:+	34	62
4629	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000525211	chr11:35110122:+>chr11:35198122:+	34	62
4630	CD44	ORF1	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000526000	chr11:35110122:+>chr11:35198122:+	34	62
4631	SORCS2	ORF3	chr4:7533048:+:MIRc>chr4:7533257:+:ENST00000507866	chr4:7533048:+>chr4:7533257:+	20	62
4632	SORCS2	ORF3	chr4:7533048:+:MIRc>chr4:7533257:+:ENST00000329016	chr4:7533048:+>chr4:7533257:+	20	62
4633	ERBB2	ORF3	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000578709	chr17:37863725:+>chr17:37864574:+	5	62
4634	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000406242	chr19:35613502:+>chr19:35613669:+	37	61
4635	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000604404	chr19:35613502:+>chr19:35613669:+	37	61
4636	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000435734	chr19:35613502:+>chr19:35613669:+	37	61
4637	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000603181	chr19:35613502:+>chr19:35613669:+	37	61
4638	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000604255	chr19:35613502:+>chr19:35613669:+	37	61
4639	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000344013	chr19:35613502:+>chr19:35613669:+	37	61
4640	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000346446	chr19:35613502:+>chr19:35613669:+	37	61
4641	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000406988	chr19:35613502:+>chr19:35613669:+	37	61
4642	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000605550	chr19:35613502:+>chr19:35613669:+	37	61
4643	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000604804	chr19:35613502:+>chr19:35613669:+	37	61
4644	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000535103	chr19:35613502:+>chr19:35613669:+	37	61
4645	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000603524	chr19:35613502:+>chr19:35613669:+	37	61
4646	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000604621	chr19:35613502:+>chr19:35613669:+	37	61
4647	FXYD3	ORF1	chr19:35613502:+:L2a>chr19:35613669:+:ENST00000605677	chr19:35613502:+>chr19:35613669:+	37	61
4648	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000377795	chr5:149925791:->chr5:149792301:-	8	61
4649	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000353334	chr5:149925791:->chr5:149792301:-	8	61
4650	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000524315	chr5:149925791:->chr5:149792301:-	8	61
4651	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000009530	chr5:149925791:->chr5:149792301:-	8	61
4652	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000523208	chr5:149925791:->chr5:149792301:-	8	61
4653	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000522246	chr5:149925791:->chr5:149792301:-	8	61
4654	KCNQ2	ORF2	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000344425	chr20:62068988:->chr20:62065256:-	9	61
4655	BTN3A1	ORF1	chr6:26409089:+:L1MC4a>chr6:26409761:+:ENST00000476549	chr6:26409089:+>chr6:26409761:+	10	61
4656	BTN3A1	ORF1	chr6:26409089:+:L1MC4a>chr6:26409761:+:ENST00000289361	chr6:26409089:+>chr6:26409761:+	10	61
4657	BTN3A1	ORF1	chr6:26409089:+:L1MC4a>chr6:26409761:+:ENST00000425234	chr6:26409089:+>chr6:26409761:+	10	61
4658	BTN3A1	ORF1	chr6:26409089:+:L1MC4a>chr6:26409761:+:ENST00000414912	chr6:26409089:+>chr6:26409761:+	10	61
4659	UNC5B	ORF2	chr10:73034272:+:L3>chr10:73039578:+:ENST00000335350	chr10:73034272:+>chr10:73039578:+	28	61
4660	UNC5B	ORF2	chr10:73034272:+:L3>chr10:73039578:+:ENST00000373192	chr10:73034272:+>chr10:73039578:+	28	61
4661	STRA6	ORF1	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000395105	chr15:74486835:->chr15:74486263:-	27	61

Table 15

4662	STRA6	ORF1	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000423167	chr15:74486835:->chr15:74486263:-	27	61
4663	STRA6	ORF1	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000323940	chr15:74486835:->chr15:74486263:-	27	61
4664	STRA6	ORF1	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000449139	chr15:74486835:->chr15:74486263:-	27	61
4665	STRA6	ORF1	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000416286	chr15:74486835:->chr15:74486263:-	27	61
4666	STRA6	ORF1	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000535552	chr15:74486835:->chr15:74486263:-	27	61
4667	STRA6	ORF1	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000563965	chr15:74486835:->chr15:74486263:-	27	61
4668	STRA6	ORF1	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000574278	chr15:74486835:->chr15:74486263:-	27	61
4669	STRA6	ORF1	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000569936	chr15:74486835:->chr15:74486263:-	27	61
4670	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000315576	chr19:14876876:->chr19:14876616:-	11	61
4671	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000346057	chr19:14876876:->chr19:14876616:-	11	61
4672	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000353876	chr19:14876876:->chr19:14876616:-	11	61
4673	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000392967	chr19:14876876:->chr19:14876616:-	11	61
4674	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000596991	chr19:14876876:->chr19:14876616:-	11	61
4675	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000392965	chr19:14876876:->chr19:14876616:-	11	61
4676	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000594076	chr19:14876876:->chr19:14876616:-	11	61
4677	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000594294	chr19:14876876:->chr19:14876616:-	11	61
4678	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000601345	chr19:14876876:->chr19:14876616:-	11	61
4679	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000595208	chr19:14876876:->chr19:14876616:-	11	61
4680	EMR2	ORF2	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000392962	chr19:14876876:->chr19:14876616:-	11	61
4681	SCARA5	ORF1	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000354914	chr8:27795193:->chr8:27779762:-	51	61
4682	SCARA5	ORF1	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000524352	chr8:27795193:->chr8:27779762:-	51	61
4683	SCARA5	ORF1	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000518030	chr8:27795193:->chr8:27779762:-	51	61
4684	SCARA5	ORF1	chr8:27795193:-:MLT1B>chr8:27779762:-:ENST00000301906	chr8:27795193:->chr8:27779762:-	51	61
4685	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000360168	chr12:6458996:->chr12:6458387:-	4	61
4686	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000358945	chr12:6458996:->chr12:6458387:-	4	61
4687	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000540037	chr12:6458996:->chr12:6458387:-	4	61
4688	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000228916	chr12:6458996:->chr12:6458387:-	4	61
4689	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000543768	chr12:6458996:->chr12:6458387:-	4	61
4690	ADCY3	ORF2	chr2:25309890:-:THE1C>chr2:25095588:-:ENST00000260600	chr2:25309890:->chr2:25095588:-	39	61
4691	ADCY3	ORF2	chr2:25309890:-:THE1C>chr2:25095588:-:ENST00000433852	chr2:25309890:->chr2:25095588:-	39	61
4692	CD44	ORF2	chr11:35110122:+:MLT1H>chr11:35198122:+:ENST00000526025	chr11:35110122:+>chr11:35198122:+	5	61
4693	EPCAM	ORF1	chr2:47610262:+:AluY>chr2:47612305:+:ENST00000405271	chr2:47610262:+>chr2:47612305:+	33	61
4694	EPCAM	ORF1	chr2:47610262:+:AluY>chr2:47612305:+:ENST00000456133	chr2:47610262:+>chr2:47612305:+	33	61
4695	EPCAM	ORF1	chr2:47610262:+:AluY>chr2:47612305:+:ENST00000263735	chr2:47610262:+>chr2:47612305:+	33	61
4696	CA9	ORF3	chr9:35678160:+:AluY>chr9:35679182:+:ENST00000378357	chr9:35678160:+>chr9:35679182:+	32	60
4697	TTYH1	ORF1	chr19:54945169:+:L2>chr19:54946722:+:ENST00000391739	chr19:54945169:+>chr19:54946722:+	12	60
4698	TTYH1	ORF2	chr19:54945169:+:L2>chr19:54946722:+:ENST00000391739	chr19:54945169:+>chr19:54946722:+	11	60
4699	ATP4A	ORF1	chr19:36047040:-:L2a>chr19:36046714:-:ENST00000262623	chr19:36047040:->chr19:36046714:-	54	60
4700	ATP4A	ORF1	chr19:36047040:-:L2a>chr19:36046714:-:ENST00000592767	chr19:36047040:->chr19:36046714:-	54	60
4701	EPCAM	ORF1	chr2:47596512:+:LTR41B>chr2:47596660:+:ENST00000263735	chr2:47596512:+>chr2:47596660:+	29	60
4702	EPCAM	ORF3	chr2:47596570:+:LTR41B>chr2:47596660:+:ENST00000263735	chr2:47596570:+>chr2:47596660:+	36	60
4703	OR7E24	ORF1	chr19:9356662:+:LTR66>chr19:9361761:+:ENST00000456448	chr19:9356662:+>chr19:9361761:+	5	60
4704	ITGA3	ORF2	chr17:48164357:+:AluSp>chr17:48165108:+:ENST00000320031	chr17:48164357:+>chr17:48165108:+	25	60
4705	ITGA3	ORF2	chr17:48164357:+:AluSp>chr17:48165108:+:ENST00000007722	chr17:48164357:+>chr17:48165108:+	25	60
4706	CD44	ORF3	chr11:35195735:+:MIR3>chr11:35198122:+:ENST00000526025	chr11:35195735:+>chr11:35198122:+	4	60
4707	ENG	ORF1	chr9:130581331:-:AluY>chr9:130581111:-:ENST00000373203	chr9:130581331:->chr9:130581111:-	7	60
4708	ENG	ORF1	chr9:130581331:-:AluY>chr9:130581111:-:ENST00000344849	chr9:130581331:->chr9:130581111:-	7	60
4709	ADAM23	ORF2	chr2:207455874:+:AluJo>chr2:207457341:+:ENST00000264377	chr2:207455874:+>chr2:207457341:+	24	60
4710	ADAM23	ORF2	chr2:207455874:+:AluJo>chr2:207457341:+:ENST00000374416	chr2:207455874:+>chr2:207457341:+	24	60
4711	ADAM23	ORF2	chr2:207455874:+:AluJo>chr2:207457341:+:ENST00000374415	chr2:207455874:+>chr2:207457341:+	24	60
4712	CD74	ORF2	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000523813	chr5:149925791:->chr5:149792270:-	21	60
4713	RHBG	ORF2	chr1:156337862:+:L2c>chr1:156344398:+:ENST00000544720	chr1:156337862:+>chr1:156344398:+	24	60
4714	RHBG	ORF2	chr1:156337862:+:L2c>chr1:156344398:+:ENST00000368247	chr1:156337862:+>chr1:156344398:+	24	60
4715	RHBG	ORF2	chr1:156337862:+:L2c>chr1:156344398:+:ENST00000368245	chr1:156337862:+>chr1:156344398:+	24	60
4716	TMEM8C	ORF3	chr9:136393545:-:MIRc>chr9:136385410:-:ENST00000339996	chr9:136393545:->chr9:136385410:-	29	60
4717	TTYH1	ORF3	chr19:54945169:+:L2>chr19:54946722:+:ENST00000301194	chr19:54945169:+>chr19:54946722:+	11	59
4718	TTYH1	ORF3	chr19:54945169:+:L2>chr19:54946722:+:ENST00000376530	chr19:54945169:+>chr19:54946722:+	11	59
4719	TTYH1	ORF3	chr19:54945169:+:L2>chr19:54946722:+:ENST00000391739	chr19:54945169:+>chr19:54946722:+	11	59
4720	ATP4A	ORF3	chr19:36047040:-:L2a>chr19:36046714:-:ENST00000262623	chr19:36047040:->chr19:36046714:-	58	59
4721	ATP4A	ORF3	chr19:36047040:-:L2a>chr19:36046714:-:ENST00000592767	chr19:36047040:->chr19:36046714:-	58	59
4722	MUC21	ORF2	chr6:30952085:+:MIR>chr6:30954014:+:ENST00000376296	chr6:30952085:+>chr6:30954014:+	43	59
4723	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000332149	chr21:42883790:->chr21:42866505:-	7	59
4724	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000398585	chr21:42883790:->chr21:42866505:-	7	59
4725	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000458356	chr21:42883790:->chr21:42866505:-	7	59
4726	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000454499	chr21:42883790:->chr21:42866505:-	7	59
4727	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000424093	chr21:42883790:->chr21:42866505:-	7	59
4728	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000455813	chr21:42883790:->chr21:42866505:-	7	59
4729	SLC39A11	ORF2	chr17:70713885:-:MLT1C>chr17:70645407:-:ENST00000255559	chr17:70713885:->chr17:70645407:-	3	59
4730	SLC39A11	ORF2	chr17:70713885:-:MLT1C>chr17:70645407:-:ENST00000542342	chr17:70713885:->chr17:70645407:-	3	59
4731	SLC39A11	ORF1	chr17:70670643:-:L1MC4a>chr17:70645407:-:ENST00000255559	chr17:70670643:->chr17:70645407:-	3	59
4732	SLC39A11	ORF1	chr17:70670643:-:L1MC4a>chr17:70645407:-:ENST00000542342	chr17:70670643:->chr17:70645407:-	3	59
4733	SLC39A11	ORF2	chr17:70670643:-:L1MC4a>chr17:70645407:-:ENST00000582769	chr17:70670643:->chr17:70645407:-	13	59

Table 15

4734	CELSR1	ORF2	chr22:46778374:-:AluY>chr22:46777947:-:ENST00000262738	chr22:46778374:->chr22:46777947:-	23	59
4735	CD40	ORF1	chr20:44752755:+:AluSx1>chr20:44755279:+:ENST00000372285	chr20:44752755:+>chr20:44755279:+	33	59
4736	CD40	ORF1	chr20:44752755:+:AluSx1>chr20:44755279:+:ENST00000466205	chr20:44752755:+>chr20:44755279:+	33	59
4737	CD40	ORF3	chr20:44752755:+:AluSx1>chr20:44755279:+:ENST00000466205	chr20:44752755:+>chr20:44755279:+	32	59
4738	PLXNA1	ORF3	chr3:126729222:+:ERVL-B4-int>chr3:126730801:+:ENST00000251772	chr3:126729222:+>chr3:126730801:+	21	59
4739	PLXNA1	ORF3	chr3:126729222:+:ERVL-B4-int>chr3:126730801:+:ENST00000393409	chr3:126729222:+>chr3:126730801:+	21	59
4740	SEMA6B	ORF2	chr19:4545583:-:AluJb>chr19:4544541:-:ENST00000301293	chr19:4545583:->chr19:4544541:-	13	59
4741	SEMA6B	ORF2	chr19:4545583:-:AluJb>chr19:4544541:-:ENST00000586582	chr19:4545583:->chr19:4544541:-	13	59
4742	CNIH2	ORF1	chr11:66049045:+:L2b>chr11:66049730:+:ENST00000528063	chr11:66049045:+>chr11:66049730:+	24	59
4743	NAALAD2	ORF1	chr11:89901463:+:LTR12C>chr11:89902097:+:ENST00000534061	chr11:89901463:+>chr11:89902097:+	31	59
4744	NAALAD2	ORF1	chr11:89901463:+:LTR12C>chr11:89902097:+:ENST00000321955	chr11:89901463:+>chr11:89902097:+	31	59
4745	SLCO3A1	ORF1	chr15:92016546:+:THE1D>chr15:92459223:+:ENST00000318445	chr15:92016546:+>chr15:92459223:+	50	59
4746	SLCO3A1	ORF1	chr15:92016546:+:THE1D>chr15:92459223:+:ENST00000424469	chr15:92016546:+>chr15:92459223:+	50	59
4747	SLCO3A1	ORF1	chr15:92016546:+:THE1D>chr15:92459223:+:ENST00000553304	chr15:92016546:+>chr15:92459223:+	50	59
4748	CDH3	ORF2	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000264012	chr16:68711459:+>chr16:68712037:+	24	59
4749	CDH3	ORF2	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000429102	chr16:68711459:+>chr16:68712037:+	24	59
4750	CDH3	ORF2	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000581171	chr16:68711459:+>chr16:68712037:+	24	59
4751	CDH3	ORF2	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000566808	chr16:68711459:+>chr16:68712037:+	24	59
4752	KIAA1324	ORF3	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000531664	chr1:109695471:+>chr1:109704516:+	7	59
4753	KIAA1324	ORF3	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000534476	chr1:109695471:+>chr1:109704516:+	7	59
4754	KIAA1324	ORF3	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000526264	chr1:109695471:+>chr1:109704516:+	7	59
4755	KIAA1324	ORF3	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000369939	chr1:109695471:+>chr1:109704516:+	7	59
4756	KIAA1324	ORF3	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000457623	chr1:109695471:+>chr1:109704516:+	7	59
4757	KIAA1324	ORF3	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000529753	chr1:109695471:+>chr1:109704516:+	7	59
4758	UNC93A	ORF3	chr6:167724187:+:AluSz>chr6:167728675:+:ENST00000230256	chr6:167724187:+>chr6:167728675:+	11	59
4759	UNC93A	ORF3	chr6:167724187:+:AluSz>chr6:167728675:+:ENST00000366829	chr6:167724187:+>chr6:167728675:+	11	59
4760	SLC39A11	ORF1	chr17:70695201:-:AluY>chr17:70645407:-:ENST00000255559	chr17:70695201:->chr17:70645407:-	22	59
4761	SLC39A11	ORF1	chr17:70695201:-:AluY>chr17:70645407:-:ENST00000542342	chr17:70695201:->chr17:70645407:-	22	59
4762	SLC39A11	ORF1	chr17:70695201:-:AluY>chr17:70645407:-:ENST00000582769	chr17:70695201:->chr17:70645407:-	22	59
4763	SLC39A11	ORF2	chr17:70695201:-:AluY>chr17:70645407:-:ENST00000582769	chr17:70695201:->chr17:70645407:-	13	59
4764	ABCC1	ORF1	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000349029	chr16:16171648:+>chr16:16173209:+	8	59
4765	SLC39A11	ORF1	chr17:70666923:-:L1MC4a>chr17:70645407:-:ENST00000582769	chr17:70666923:->chr17:70645407:-	13	59
4766	SLC7A8	ORF2	chr14:23642341:-:L2c>chr14:23635749:-:ENST00000524758	chr14:23642341:->chr14:23635749:-	15	59
4767	PVRL2	ORF2	chr19:45365943:+:L1PA10>chr19:45368528:+:ENST00000252485	chr19:45365943:+>chr19:45368528:+	20	58
4768	PVRL2	ORF2	chr19:45365943:+:L1PA10>chr19:45368528:+:ENST00000252483	chr19:45365943:+>chr19:45368528:+	20	58
4769	KCNQ2	ORF1	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000344425	chr20:62068988:->chr20:62065256:-	5	58
4770	APP	ORF1	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000346798	chr21:27462572:->chr21:27462388:-	47	58
4771	APP	ORF1	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000354192	chr21:27462572:->chr21:27462388:-	47	58
4772	APP	ORF1	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000348990	chr21:27462572:->chr21:27462388:-	47	58
4773	APP	ORF1	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000357903	chr21:27462572:->chr21:27462388:-	47	58
4774	APP	ORF1	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000358918	chr21:27462572:->chr21:27462388:-	47	58
4775	APP	ORF1	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000359726	chr21:27462572:->chr21:27462388:-	47	58
4776	APP	ORF1	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000448388	chr21:27462572:->chr21:27462388:-	47	58
4777	APP	ORF1	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000440126	chr21:27462572:->chr21:27462388:-	47	58
4778	APP	ORF1	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000439274	chr21:27462572:->chr21:27462388:-	47	58
4779	TM7SF3	ORF2	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000512808	chr12:27153625:->chr12:27152581:-	13	58
4780	HEG1	ORF1	chr3:124690838:-:AluJb>chr3:124689645:-:ENST00000311127	chr3:124690838:->chr3:124689645:-	9	58
4781	HEG1	ORF1	chr3:124690838:-:AluJb>chr3:124689645:-:ENST00000487661	chr3:124690838:->chr3:124689645:-	9	58
4782	B4GALT1	ORF3	chr9:33133223:-:L3>chr9:33120604:-:ENST00000379731	chr9:33133223:->chr9:33120604:-	38	58
4783	PKD1	ORF3	chr16:2148723:-:L1M4>chr16:2147985:-:ENST00000262304	chr16:2148723:->chr16:2147985:-	12	58
4784	PKD1	ORF3	chr16:2148723:-:L1M4>chr16:2147985:-:ENST00000567946	chr16:2148723:->chr16:2147985:-	12	58
4785	CDH3	ORF3	chr16:68708496:+:AluJo>chr16:68710288:+:ENST00000264012	chr16:68708496:+>chr16:68710288:+	25	58
4786	CDH3	ORF3	chr16:68708496:+:AluJo>chr16:68710288:+:ENST00000429102	chr16:68708496:+>chr16:68710288:+	25	58
4787	CDH3	ORF3	chr16:68708496:+:AluJo>chr16:68710288:+:ENST00000542274	chr16:68708496:+>chr16:68710288:+	25	58
4788	NTSR1	ORF1	chr20:61385405:+:MIRb>chr20:61386037:+:ENST00000370501	chr20:61385405:+>chr20:61386037:+	41	58
4789	GPR176	ORF3	chr15:40186733:-:SVA_F>chr15:40094455:-:ENST00000299092	chr15:40186733:->chr15:40094455:-	37	58
4790	GPR176	ORF3	chr15:40186733:-:SVA_F>chr15:40094455:-:ENST00000561100	chr15:40186733:->chr15:40094455:-	37	58
4791	GPR176	ORF3	chr15:40186733:-:SVA_F>chr15:40094455:-:ENST00000543580	chr15:40186733:->chr15:40094455:-	37	58
4792	GRIA1	ORF2	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000285900	chr5:153150672:+>chr5:153181916:+	20	58
4793	GRIA1	ORF2	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000518142	chr5:153150672:+>chr5:153181916:+	20	58
4794	GRIA1	ORF2	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000340592	chr5:153150672:+>chr5:153181916:+	20	58
4795	GRIA1	ORF2	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000521843	chr5:153150672:+>chr5:153181916:+	20	58
4796	GRIA1	ORF2	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000448073	chr5:153150672:+>chr5:153181916:+	20	58
4797	GRIA1	ORF2	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000518783	chr5:153150672:+>chr5:153181916:+	20	58
4798	ENPEP	ORF1	chr4:111472030:+:ERVL-E-int>chr4:111474471:+:ENST00000265162	chr4:111472030:+>chr4:111474471:+	14	58
4799	VAMP8	ORF2	chr2:85803112:+:AluJo>chr2:85806132:+:ENST00000263864	chr2:85803112:+>chr2:85806132:+	32	58
4800	VAMP8	ORF2	chr2:85803112:+:AluJo>chr2:85806132:+:ENST00000409760	chr2:85803112:+>chr2:85806132:+	32	58
4801	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000523813	chr5:149925791:->chr5:149792301:-	8	57
4802	KCNQ2	ORF3	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000357249	chr20:62068988:->chr20:62065256:-	10	57
4803	KCNQ2	ORF3	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000359125	chr20:62068988:->chr20:62065256:-	10	57
4804	KCNQ2	ORF3	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000359689	chr20:62068988:->chr20:62065256:-	10	57
4805	KCNQ2	ORF3	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000344462	chr20:62068988:->chr20:62065256:-	10	57

Table 15

4806	SLC7A8	ORF3	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000316902	chr14:23669913:->chr14:23635749:-	27	57
4807	SLC7A8	ORF3	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000469263	chr14:23669913:->chr14:23635749:-	27	57
4808	SLC7A8	ORF3	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000524758	chr14:23669913:->chr14:23635749:-	27	57
4809	EPCAM	ORF3	chr2:47596570:+:LTR41B>chr2:47596660:+:ENST00000419334	chr2:47596570:+>chr2:47596660:+	36	57
4810	CD8A	ORF1	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000283635	chr2:87017176:->chr2:87016873:-	10	57
4811	CD8A	ORF1	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000409511	chr2:87017176:->chr2:87016873:-	10	57
4812	CD8A	ORF1	chr2:87017176:-:MIRb>chr2:87016873:-:ENST00000538832	chr2:87017176:->chr2:87016873:-	10	57
4813	F2RL1	ORF2	chr5:76108135:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108135:+>chr5:76128515:+	12	57
4814	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000395105	chr15:74490651:->chr15:74490159:-	24	57
4815	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000423167	chr15:74490651:->chr15:74490159:-	24	57
4816	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000323940	chr15:74490651:->chr15:74490159:-	24	57
4817	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000449139	chr15:74490651:->chr15:74490159:-	24	57
4818	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000416286	chr15:74490651:->chr15:74490159:-	24	57
4819	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000535552	chr15:74490651:->chr15:74490159:-	24	57
4820	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000563965	chr15:74490651:->chr15:74490159:-	24	57
4821	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000574278	chr15:74490651:->chr15:74490159:-	24	57
4822	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000569936	chr15:74490651:->chr15:74490159:-	24	57
4823	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000432245	chr15:74490651:->chr15:74490159:-	24	57
4824	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000571341	chr15:74490651:->chr15:74490159:-	24	57
4825	ABCC1	ORF2	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000399410	chr16:16100650:+>chr16:16101673:+	6	57
4826	ABCC1	ORF2	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000345148	chr16:16100650:+>chr16:16101673:+	6	57
4827	ABCC1	ORF2	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000346370	chr16:16100650:+>chr16:16101673:+	6	57
4828	ABCC1	ORF2	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000349029	chr16:16100650:+>chr16:16101673:+	6	57
4829	ABCC1	ORF2	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000351154	chr16:16100650:+>chr16:16101673:+	6	57
4830	ABCC1	ORF2	chr16:16100650:+:MIR>chr16:16101673:+:ENST00000399408	chr16:16100650:+>chr16:16101673:+	6	57
4831	CADM2	ORF2	chr3:85827778:+:THE1D>chr3:85851197:+:ENST00000383699	chr3:85827778:+>chr3:85851197:+	42	57
4832	CADM2	ORF2	chr3:85827778:+:THE1D>chr3:85851197:+:ENST00000407528	chr3:85827778:+>chr3:85851197:+	42	57
4833	CADM2	ORF2	chr3:85827778:+:THE1D>chr3:85851197:+:ENST00000405615	chr3:85827778:+>chr3:85851197:+	42	57
4834	PKD1	ORF3	chr16:2148723:-:L1M4>chr16:2147985:-:ENST00000423118	chr16:2148723:->chr16:2147985:-	12	57
4835	PKD2L1	ORF2	chr10:102058945:-:AluSx>chr10:102058572:-:ENST00000338519	chr10:102058945:->chr10:102058572:-	13	57
4836	PKD2L1	ORF2	chr10:102058945:-:AluSx>chr10:102058572:-:ENST00000353274	chr10:102058945:->chr10:102058572:-	13	57
4837	PKD2L1	ORF2	chr10:102058945:-:AluSx>chr10:102058572:-:ENST00000318222	chr10:102058945:->chr10:102058572:-	13	57
4838	ARL6IP5	ORF1	chr3:69143994:+:MIR3>chr3:69150990:+:ENST00000478935	chr3:69143994:+>chr3:69150990:+	27	57
4839	F2RL1	ORF1	chr5:76108989:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108989:+>chr5:76128515:+	12	57
4840	F2RL1	ORF2	chr5:76108989:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108989:+>chr5:76128515:+	54	57
4841	SLCO3A1	ORF1	chr15:92659285:+:MIR>chr15:92663695:+:ENST00000318445	chr15:92659285:+>chr15:92663695:+	13	57
4842	SLCO3A1	ORF1	chr15:92659285:+:MIR>chr15:92663695:+:ENST00000424469	chr15:92659285:+>chr15:92663695:+	13	57
4843	LDLR	ORF2	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000559340	chr19:11230510:+>chr19:11230768:+	29	57
4844	SCNN1A	ORF1	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000360168	chr12:6471665:->chr12:6471407:-	37	57
4845	SCNN1A	ORF1	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000358945	chr12:6471665:->chr12:6471407:-	37	57
4846	SCNN1A	ORF1	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000228916	chr12:6471665:->chr12:6471407:-	37	57
4847	SCNN1A	ORF1	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000396966	chr12:6471665:->chr12:6471407:-	37	57
4848	SCNN1A	ORF1	chr12:6471665:-:MIR3>chr12:6471407:-:ENST00000543768	chr12:6471665:->chr12:6471407:-	37	57
4849	FAIM2	ORF3	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000320634	chr12:50292556:->chr12:50291869:-	17	56
4850	FAIM2	ORF3	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000550890	chr12:50292556:->chr12:50291869:-	17	56
4851	FAIM2	ORF3	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000552669	chr12:50292556:->chr12:50291869:-	17	56
4852	FAIM2	ORF3	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000550635	chr12:50292556:->chr12:50291869:-	17	56
4853	FAIM2	ORF3	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000547871	chr12:50292556:->chr12:50291869:-	17	56
4854	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000332149	chr21:42883790:->chr21:42866505:-	46	56
4855	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000398585	chr21:42883790:->chr21:42866505:-	46	56
4856	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000458356	chr21:42883790:->chr21:42866505:-	46	56
4857	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000454499	chr21:42883790:->chr21:42866505:-	46	56
4858	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000424093	chr21:42883790:->chr21:42866505:-	46	56
4859	TMPRSS2	ORF2	chr21:42883790:-:ERVL-B4-int>chr21:42866505:-:ENST00000455813	chr21:42883790:->chr21:42866505:-	46	56
4860	SCARB1	ORF1	chr12:125263744:-:AluJo>chr12:125263132:-:ENST00000339570	chr12:125263744:->chr12:125263132:-	17	56
4861	PERP	ORF2	chr6:138423021:-:MER5A1>chr6:138417631:-:ENST00000421351	chr6:138423021:->chr6:138417631:-	39	56
4862	SLCO3A1	ORF2	chr15:92501699:+:MIRb>chr15:92638111:+:ENST00000318445	chr15:92501699:+>chr15:92638111:+	25	56
4863	SLCO3A1	ORF2	chr15:92501699:+:MIRb>chr15:92638111:+:ENST00000424469	chr15:92501699:+>chr15:92638111:+	25	56
4864	ABCC1	ORF1	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000399410	chr16:16046079:+>chr16:16101673:+	12	56
4865	ABCC1	ORF1	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000345148	chr16:16046079:+>chr16:16101673:+	12	56
4866	ABCC1	ORF1	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000346370	chr16:16046079:+>chr16:16101673:+	12	56
4867	ABCC1	ORF1	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000349029	chr16:16046079:+>chr16:16101673:+	12	56
4868	ABCC1	ORF1	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000351154	chr16:16046079:+>chr16:16101673:+	12	56
4869	ABCC1	ORF1	chr16:16046079:+:MIR>chr16:16101673:+:ENST00000399408	chr16:16046079:+>chr16:16101673:+	12	56
4870	SLMAP	ORF2	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000295951	chr3:57808278:+>chr3:57817110:+	50	56
4871	SLMAP	ORF2	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000295952	chr3:57808278:+>chr3:57817110:+	50	56
4872	SLMAP	ORF2	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000383718	chr3:57808278:+>chr3:57817110:+	50	56
4873	SLMAP	ORF2	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000428312	chr3:57808278:+>chr3:57817110:+	50	56
4874	SLMAP	ORF2	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000449503	chr3:57808278:+>chr3:57817110:+	50	56
4875	TRDN	ORF3	chr6:123908604:-:HERVH-int>chr6:123892277:-:ENST00000398178	chr6:123908604:->chr6:123892277:-	48	56
4876	TRDN	ORF3	chr6:123908604:-:HERVH-int>chr6:123892277:-:ENST00000334268	chr6:123908604:->chr6:123892277:-	48	56
4877	TRDN	ORF3	chr6:123908604:-:HERVH-int>chr6:123892277:-:ENST00000546248	chr6:123908604:->chr6:123892277:-	48	56

Table 15

4878	TRDN	ORF3	chr6:123908604:-:HERVH-int>chr6:123892277:-:ENST00000542443	chr6:123908604:->chr6:123892277:-	48	56
4879	GPR37L1	ORF2	chr1:202096306:+:MIRb>chr1:202096869:+:ENST00000367282	chr1:202096306:+>chr1:202096869:+	39	55
4880	TYROBP	ORF1	chr19:36405224:-:AluSx1>chr19:36398166:-:ENST00000585901	chr19:36405224:->chr19:36398166:-	18	55
4881	TYROBP	ORF1	chr19:36405224:-:AluSx1>chr19:36398166:-:ENST00000544690	chr19:36405224:->chr19:36398166:-	18	55
4882	TYROBP	ORF1	chr19:36405224:-:AluSx1>chr19:36398166:-:ENST00000262629	chr19:36405224:->chr19:36398166:-	18	55
4883	CDCP1	ORF3	chr3:45159404:-:AluSx>chr3:45153937:-:ENST00000296129	chr3:45159404:->chr3:45153937:-	16	55
4884	CDCP1	ORF3	chr3:45159404:-:AluSx>chr3:45153937:-:ENST00000425231	chr3:45159404:->chr3:45153937:-	16	55
4885	SYNE2	ORF1	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000357395	chr14:64549437:+>chr14:64554389:+	35	55
4886	SYNE2	ORF1	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000358025	chr14:64549437:+>chr14:64554389:+	35	55
4887	SYNE2	ORF1	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000344113	chr14:64549437:+>chr14:64554389:+	35	55
4888	SYNE2	ORF1	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000554584	chr14:64549437:+>chr14:64554389:+	35	55
4889	SYNE2	ORF1	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000555002	chr14:64549437:+>chr14:64554389:+	35	55
4890	SYNE2	ORF1	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000394768	chr14:64549437:+>chr14:64554389:+	35	55
4891	NRP1	ORF1	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374875	chr10:33505616:->chr10:33502645:-	18	55
4892	NRP1	ORF1	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000265371	chr10:33505616:->chr10:33502645:-	18	55
4893	NRP1	ORF1	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374867	chr10:33505616:->chr10:33502645:-	18	55
4894	NRP1	ORF1	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000395995	chr10:33505616:->chr10:33502645:-	18	55
4895	NRP1	ORF1	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374821	chr10:33505616:->chr10:33502645:-	18	55
4896	NRP1	ORF1	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374822	chr10:33505616:->chr10:33502645:-	18	55
4897	NRP1	ORF1	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374823	chr10:33505616:->chr10:33502645:-	18	55
4898	NRP1	ORF1	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000374816	chr10:33505616:->chr10:33502645:-	18	55
4899	NRP1	ORF1	chr10:33505616:-:AluJo>chr10:33502645:-:ENST00000432372	chr10:33505616:->chr10:33502645:-	18	55
4900	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474801:-:ENST00000572785	chr15:74475594:->chr15:74474801:-	4	55
4901	NTSR1	ORF3	chr20:61385398:+:MIRb>chr20:61386037:+:ENST00000370501	chr20:61385398:+>chr20:61386037:+	38	55
4902	STRA6	ORF3	chr15:74475786:-:AluSc>chr15:74474801:-:ENST00000572785	chr15:74475786:->chr15:74474801:-	16	55
4903	PERP	ORF2	chr6:138445951:-:L1PA14>chr6:138417631:-:ENST00000421351	chr6:138445951:->chr6:138417631:-	38	55
4904	FAIM2	ORF1	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000547871	chr12:50285280:->chr12:50284897:-	43	55
4905	TIGIT	ORF1	chr3:113995836:+:L1HS>chr3:114014392:+:ENST00000481065	chr3:113995836:+>chr3:114014392:+	6	55
4906	TIGIT	ORF1	chr3:113995836:+:L1HS>chr3:114014392:+:ENST00000486257	chr3:113995836:+>chr3:114014392:+	6	55
4907	TIGIT	ORF1	chr3:113995836:+:L1HS>chr3:114014392:+:ENST00000383671	chr3:113995836:+>chr3:114014392:+	6	55
4908	SLC38A6	ORF3	chr14:61540659:+:Tigger2a>chr14:61545548:+:ENST00000354886	chr14:61540659:+>chr14:61545548:+	49	55
4909	SLC38A6	ORF3	chr14:61540659:+:Tigger2a>chr14:61545548:+:ENST00000451406	chr14:61540659:+>chr14:61545548:+	49	55
4910	SLC38A6	ORF3	chr14:61540659:+:Tigger2a>chr14:61545548:+:ENST00000456840	chr14:61540659:+>chr14:61545548:+	49	55
4911	KCNQ2	ORF1	chr20:62065933:-:L1MB5>chr20:62065256:-:ENST00000344425	chr20:62065933:->chr20:62065256:-	3	55
4912	LDLR	ORF3	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000558518	chr19:11230510:+>chr19:11230768:+	6	55
4913	LDLR	ORF3	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000557933	chr19:11230510:+>chr19:11230768:+	6	55
4914	LDLR	ORF3	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000455727	chr19:11230510:+>chr19:11230768:+	6	55
4915	LDLR	ORF3	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000535915	chr19:11230510:+>chr19:11230768:+	6	55
4916	LDLR	ORF3	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000558013	chr19:11230510:+>chr19:11230768:+	6	55
4917	LDLR	ORF3	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000252444	chr19:11230510:+>chr19:11230768:+	6	55
4918	ITGA6	ORF3	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000412899	chr2:173336955:+>chr2:173338783:+	22	55
4919	ITGA6	ORF3	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000409532	chr2:173336955:+>chr2:173338783:+	22	55
4920	ITGA6	ORF3	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000264107	chr2:173336955:+>chr2:173338783:+	22	55
4921	ITGA6	ORF3	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000264106	chr2:173336955:+>chr2:173338783:+	22	55
4922	ITGA6	ORF3	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000343713	chr2:173336955:+>chr2:173338783:+	22	55
4923	ITGA6	ORF3	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000375221	chr2:173336955:+>chr2:173338783:+	22	55
4924	ITGA6	ORF3	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000442250	chr2:173336955:+>chr2:173338783:+	22	55
4925	ITGA6	ORF3	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000458358	chr2:173336955:+>chr2:173338783:+	22	55
4926	ITGA6	ORF3	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000409080	chr2:173336955:+>chr2:173338783:+	22	55
4927	BST2	ORF1	chr19:17562617:-:AluJo>chr19:17516147:-:ENST00000252593	chr19:17562617:->chr19:17516147:-	17	54
4928	APCDD1	ORF1	chr18:10479692:+:MIRc>chr18:10485459:+:ENST00000579685	chr18:10479692:+>chr18:10485459:+	25	54
4929	TYROBP	ORF1	chr19:36405224:-:AluSx1>chr19:36398163:-:ENST00000424586	chr19:36405224:->chr19:36398163:-	18	54
4930	TYROBP	ORF1	chr19:36405224:-:AluSx1>chr19:36398163:-:ENST00000585901	chr19:36405224:->chr19:36398163:-	18	54
4931	TYROBP	ORF1	chr19:36405224:-:AluSx1>chr19:36398163:-:ENST00000544690	chr19:36405224:->chr19:36398163:-	18	54
4932	TYROBP	ORF1	chr19:36405224:-:AluSx1>chr19:36398163:-:ENST00000262629	chr19:36405224:->chr19:36398163:-	18	54
4933	TYROBP	ORF1	chr19:36405224:-:AluSx1>chr19:36398163:-:ENST00000589517	chr19:36405224:->chr19:36398163:-	18	54
4934	ATP1B2	ORF3	chr17:7550019:+:MER45B>chr17:7557159:+:ENST00000250111	chr17:7550019:+>chr17:7557159:+	46	54
4935	GPR37L1	ORF1	chr1:202096306:+:MIRb>chr1:202096869:+:ENST00000367282	chr1:202096306:+>chr1:202096869:+	25	54
4936	SLC7A8	ORF3	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000525062	chr14:23669913:->chr14:23635749:-	27	54
4937	SLC29A4	ORF1	chr7:5340708:+:AluJo>chr7:5342428:+:ENST00000396872	chr7:5340708:+>chr7:5342428:+	6	54
4938	SLC29A4	ORF1	chr7:5340708:+:AluJo>chr7:5342428:+:ENST00000297195	chr7:5340708:+>chr7:5342428:+	6	54
4939	SLC29A4	ORF1	chr7:5340708:+:AluJo>chr7:5342428:+:ENST00000406453	chr7:5340708:+>chr7:5342428:+	6	54
4940	MAL2	ORF2	chr8:120233214:+:L2b>chr8:120233827:+:ENST00000276681	chr8:120233214:+>chr8:120233827:+	4	54
4941	LIG1	ORF2	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000263274	chr19:48627044:->chr19:48626575:-	7	54
4942	LIG1	ORF2	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000536218	chr19:48627044:->chr19:48626575:-	7	54
4943	LIG1	ORF2	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000594759	chr19:48627044:->chr19:48626575:-	7	54
4944	LIG1	ORF2	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000427526	chr19:48627044:->chr19:48626575:-	7	54
4945	LIG1	ORF2	chr19:48627044:-:AluSx3>chr19:48626575:-:ENST00000601091	chr19:48627044:->chr19:48626575:-	7	54
4946	PLXNA1	ORF2	chr3:126729222:+:ERVL-B4-int>chr3:126730801:+:ENST00000251772	chr3:126729222:+>chr3:126730801:+	36	54
4947	PLXNA1	ORF2	chr3:126729222:+:ERVL-B4-int>chr3:126730801:+:ENST00000393409	chr3:126729222:+>chr3:126730801:+	36	54
4948	PPAP2C	ORF1	chr19:282661:-:MIR3>chr19:282310:-:ENST00000269812	chr19:282661:->chr19:282310:-	18	54
4949	PPAP2C	ORF1	chr19:282661:-:MIR3>chr19:282310:-:ENST00000434325	chr19:282661:->chr19:282310:-	18	54

Table 15

4950	PPAP2C	ORF1	chr19:282661:-:MIR3>chr19:282310:-:ENST00000327790	chr19:282661:->chr19:282310:-	18	54
4951	PPAP2C	ORF1	chr19:282661:-:MIR3>chr19:282310:-:ENST00000586998	chr19:282661:->chr19:282310:-	18	54
4952	BACE2	ORF2	chr21:42582959:+:MER49>chr21:42598199:+:ENST00000328735	chr21:42582959:+>chr21:42598199:+	34	54
4953	BACE2	ORF2	chr21:42582959:+:MER49>chr21:42598199:+:ENST00000330333	chr21:42582959:+>chr21:42598199:+	34	54
4954	BACE2	ORF2	chr21:42582959:+:MER49>chr21:42598199:+:ENST00000347667	chr21:42582959:+>chr21:42598199:+	34	54
4955	CLDN11	ORF1	chr3:170138615:+:MIRb>chr3:170140951:+:ENST00000064724	chr3:170138615:+>chr3:170140951:+	14	54
4956	CLDN11	ORF1	chr3:170138615:+:MIRb>chr3:170140951:+:ENST00000486975	chr3:170138615:+>chr3:170140951:+	14	54
4957	CLDN11	ORF1	chr3:170138615:+:MIRb>chr3:170140951:+:ENST00000451576	chr3:170138615:+>chr3:170140951:+	14	54
4958	PKD1	ORF1	chr16:2148723:-:L1M4>chr16:2147985:-:ENST00000262304	chr16:2148723:->chr16:2147985:-	16	54
4959	PKD1	ORF1	chr16:2148723:-:L1M4>chr16:2147985:-:ENST00000423118	chr16:2148723:->chr16:2147985:-	16	54
4960	PKD1	ORF1	chr16:2148723:-:L1M4>chr16:2147985:-:ENST00000567946	chr16:2148723:->chr16:2147985:-	16	54
4961	SCARB1	ORF1	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000339570	chr12:125337015:->chr12:125302253:-	23	54
4962	SCARB1	ORF1	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000415380	chr12:125337015:->chr12:125302253:-	23	54
4963	SCARB1	ORF1	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000261693	chr12:125337015:->chr12:125302253:-	23	54
4964	SCARB1	ORF1	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000546215	chr12:125337015:->chr12:125302253:-	23	54
4965	SCARB1	ORF1	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000541205	chr12:125337015:->chr12:125302253:-	23	54
4966	SCARB1	ORF1	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000540495	chr12:125337015:->chr12:125302253:-	23	54
4967	SCARB1	ORF1	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000545493	chr12:125337015:->chr12:125302253:-	23	54
4968	PTPRA	ORF2	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000380393	chr20:3004517:+>chr20:3005118:+	5	54
4969	PTPRA	ORF2	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000216877	chr20:3004517:+>chr20:3005118:+	5	54
4970	PTPRA	ORF2	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000358719	chr20:3004517:+>chr20:3005118:+	5	54
4971	PTPRA	ORF2	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000399903	chr20:3004517:+>chr20:3005118:+	5	54
4972	PTPRA	ORF2	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000425918	chr20:3004517:+>chr20:3005118:+	5	54
4973	PTPRA	ORF2	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000318266	chr20:3004517:+>chr20:3005118:+	5	54
4974	PTPRA	ORF2	chr20:3004517:+:LTR5B>chr20:3005118:+:ENST00000356147	chr20:3004517:+>chr20:3005118:+	5	54
4975	VMP1	ORF3	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000262291	chr17:57905129:+>chr17:57915656:+	11	54
4976	VMP1	ORF3	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000537567	chr17:57905129:+>chr17:57915656:+	11	54
4977	VMP1	ORF3	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000539763	chr17:57905129:+>chr17:57915656:+	11	54
4978	VMP1	ORF3	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000536180	chr17:57905129:+>chr17:57915656:+	11	54
4979	VMP1	ORF3	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000545362	chr17:57905129:+>chr17:57915656:+	11	54
4980	VMP1	ORF3	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000591877	chr17:57905129:+>chr17:57915656:+	11	54
4981	ABCC1	ORF1	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000399410	chr16:16162702:+>chr16:16165499:+	46	54
4982	ABCC1	ORF1	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000345148	chr16:16162702:+>chr16:16165499:+	46	54
4983	ABCC1	ORF1	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000346370	chr16:16162702:+>chr16:16165499:+	46	54
4984	ABCC1	ORF1	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000349029	chr16:16162702:+>chr16:16165499:+	46	54
4985	ABCC1	ORF1	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000351154	chr16:16162702:+>chr16:16165499:+	46	54
4986	ABCC1	ORF1	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000399408	chr16:16162702:+>chr16:16165499:+	46	54
4987	ABCC1	ORF1	chr16:16162702:+:AluSx1>chr16:16165499:+:ENST00000572882	chr16:16162702:+>chr16:16165499:+	46	54
4988	ASTN2	ORF3	chr9:119602932:-:SVA_D>chr9:119583062:-:ENST00000373996	chr9:119602932:->chr9:119583062:-	49	54
4989	ASTN2	ORF3	chr9:119602932:-:SVA_D>chr9:119583062:-:ENST00000313400	chr9:119602932:->chr9:119583062:-	49	54
4990	ASTN2	ORF3	chr9:119602932:-:SVA_D>chr9:119583062:-:ENST00000373986	chr9:119602932:->chr9:119583062:-	49	54
4991	ASTN2	ORF3	chr9:119602932:-:SVA_D>chr9:119583062:-:ENST00000361209	chr9:119602932:->chr9:119583062:-	49	54
4992	CLIC4	ORF1	chr1:25125844:+:SVA_F>chr1:25140585:+:ENST00000374379	chr1:25125844:+>chr1:25140585:+	37	54
4993	CLIC4	ORF1	chr1:25125844:+:SVA_F>chr1:25140585:+:ENST00000488683	chr1:25125844:+>chr1:25140585:+	37	54
4994	IFITM3	ORF2	chr11:323601:-:HERV3-int>chr11:320772:-:ENST00000399808	chr11:323601:->chr11:320772:-	23	54
4995	KCNH2	ORF2	chr7:150666813:-:L2b>chr7:150656824:-:ENST00000392968	chr7:150666813:->chr7:150656824:-	13	54
4996	KCNH2	ORF2	chr7:150666813:-:L2b>chr7:150656824:-:ENST00000262186	chr7:150666813:->chr7:150656824:-	13	54
4997	KCNH2	ORF2	chr7:150666813:-:L2b>chr7:150656824:-:ENST00000430723	chr7:150666813:->chr7:150656824:-	13	54
4998	SLC39A11	ORF2	chr17:70666923:-:L1MC4a>chr17:70645407:-:ENST00000582769	chr17:70666923:->chr17:70645407:-	8	54
4999	PVRL2	ORF1	chr19:45365480:+:AluYk4>chr19:45368528:+:ENST00000252485	chr19:45365480:+>chr19:45368528:+	16	54
5000	PVRL2	ORF1	chr19:45365480:+:AluYk4>chr19:45368528:+:ENST00000252483	chr19:45365480:+>chr19:45368528:+	16	54
5001	ANO10	ORF1	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000292246	chr3:43498891:->chr3:43474219:-	39	54
5002	ANO10	ORF1	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000350459	chr3:43498891:->chr3:43474219:-	39	54
5003	ANO10	ORF1	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000396091	chr3:43498891:->chr3:43474219:-	39	54
5004	ANO10	ORF1	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000451430	chr3:43498891:->chr3:43474219:-	39	54
5005	ANO10	ORF1	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000448045	chr3:43498891:->chr3:43474219:-	39	54
5006	PPAP2A	ORF2	chr5:54781916:-:L1ME4a>chr5:54771278:-:ENST00000307259	chr5:54781916:->chr5:54771278:-	14	53
5007	PPAP2A	ORF2	chr5:54781916:-:L1ME4a>chr5:54771278:-:ENST00000509667	chr5:54781916:->chr5:54771278:-	14	53
5008	SLC7A8	ORF1	chr14:23636484:-:MIRc>chr14:23635749:-:ENST00000316902	chr14:23636484:->chr14:23635749:-	9	53
5009	SLC7A8	ORF1	chr14:23636484:-:MIRc>chr14:23635749:-:ENST00000469263	chr14:23636484:->chr14:23635749:-	9	53
5010	SLC7A8	ORF1	chr14:23636484:-:MIRc>chr14:23635749:-:ENST00000524758	chr14:23636484:->chr14:23635749:-	9	53
5011	KCNQ2	ORF1	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000354587	chr20:62068988:->chr20:62065256:-	5	53
5012	KCNQ2	ORF1	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000360480	chr20:62068988:->chr20:62065256:-	5	53
5013	KCNQ2	ORF1	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000370224	chr20:62068988:->chr20:62065256:-	5	53
5014	SLC7A8	ORF2	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000525062	chr14:23669913:->chr14:23635749:-	25	53
5015	EPCAM	ORF2	chr2:47596512:+:LTR41B>chr2:47596660:+:ENST00000263735	chr2:47596512:+>chr2:47596660:+	29	53
5016	CDH26	ORF3	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000244047	chr20:58573800:+>chr20:58574641:+	4	53
5017	CDH26	ORF3	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000370991	chr20:58573800:+>chr20:58574641:+	4	53
5018	CDH26	ORF3	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000244049	chr20:58573800:+>chr20:58574641:+	4	53
5019	SLC8A1	ORF3	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000407929	chr2:40465674:->chr2:40404995:-	23	53
5020	TENM1	ORF3	chrX:123617816:-:L1MC3>chrX:123615814:-:ENST00000371130	chrX:123617816:->chrX:123615814:-	22	53
5021	TENM1	ORF3	chrX:123617816:-:L1MC3>chrX:123615814:-:ENST00000422452	chrX:123617816:->chrX:123615814:-	22	53

Table 15

5022	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000456996	chr2:87028634:->chr2:87013094:-	36	53
5023	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000352580	chr2:87028634:->chr2:87013094:-	36	53
5024	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000283635	chr2:87028634:->chr2:87013094:-	36	53
5025	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000409511	chr2:87028634:->chr2:87013094:-	36	53
5026	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000538832	chr2:87028634:->chr2:87013094:-	36	53
5027	CD8A	ORF3	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000409781	chr2:87028634:->chr2:87013094:-	36	53
5028	BMPR1B	ORF1	chr4:95983246:+:MSTA>chr4:96025559:+:ENST00000440890	chr4:95983246:+>chr4:96025559:+	49	53
5029	FAS	ORF3	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000355740	chr10:90713663:+>chr10:90762786:+	47	53
5030	FAS	ORF3	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000352159	chr10:90713663:+>chr10:90762786:+	47	53
5031	FAS	ORF3	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000484444	chr10:90713663:+>chr10:90762786:+	47	53
5032	FAS	ORF3	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000357339	chr10:90713663:+>chr10:90762786:+	47	53
5033	FAS	ORF3	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000488877	chr10:90713663:+>chr10:90762786:+	47	53
5034	FAS	ORF3	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000479522	chr10:90713663:+>chr10:90762786:+	47	53
5035	FAS	ORF3	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000494410	chr10:90713663:+>chr10:90762786:+	47	53
5036	FAS	ORF3	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000355279	chr10:90713663:+>chr10:90762786:+	47	53
5037	FAS	ORF3	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000492756	chr10:90713663:+>chr10:90762786:+	47	53
5038	IFITM3	ORF1	chr11:329148:-:AluY>chr11:320772:-:ENST00000399808	chr11:329148:->chr11:320772:-	22	53
5039	TRABD2B	ORF3	chr1:48256707:-:MIRb>chr1:48244216:-:ENST00000606738	chr1:48256707:->chr1:48244216:-	3	53
5040	TTYH1	ORF3	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000423529	chr19:54930716:+>chr19:54932451:+	4	53
5041	TTYH1	ORF3	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000301194	chr19:54930716:+>chr19:54932451:+	4	53
5042	TTYH1	ORF3	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000376530	chr19:54930716:+>chr19:54932451:+	4	53
5043	TTYH1	ORF3	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000445095	chr19:54930716:+>chr19:54932451:+	4	53
5044	TTYH1	ORF3	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000391739	chr19:54930716:+>chr19:54932451:+	4	53
5045	TTYH1	ORF3	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000376531	chr19:54930716:+>chr19:54932451:+	4	53
5046	CMTM6	ORF1	chr3:32534075:-:L2c>chr3:32533378:-:ENST00000205636	chr3:32534075:->chr3:32533378:-	25	53
5047	TFR2	ORF2	chr7:100230403:-:AluJr>chr7:100229568:-:ENST00000223051	chr7:100230403:->chr7:100229568:-	7	53
5048	TFR2	ORF2	chr7:100230403:-:AluJr>chr7:100229568:-:ENST00000490084	chr7:100230403:->chr7:100229568:-	7	53
5049	TFR2	ORF2	chr7:100230403:-:AluJr>chr7:100229568:-:ENST00000462107	chr7:100230403:->chr7:100229568:-	7	53
5050	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000376389	chr6:30708813:->chr6:30708368:-	7	53
5051	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000456573	chr6:30708813:->chr6:30708368:-	7	53
5052	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000413165	chr6:30708813:->chr6:30708368:-	7	53
5053	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000438162	chr6:30708813:->chr6:30708368:-	7	53
5054	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000418160	chr6:30708813:->chr6:30708368:-	7	53
5055	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000445853	chr6:30708813:->chr6:30708368:-	7	53
5056	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000416018	chr6:30708813:->chr6:30708368:-	7	53
5057	IL2RG	ORF3	chrX:70328686:-:MIRb>chrX:70328545:-:ENST00000374202	chrX:70328686:->chrX:70328545:-	4	53
5058	IL2RG	ORF3	chrX:70328686:-:MIRb>chrX:70328545:-:ENST00000456850	chrX:70328686:->chrX:70328545:-	4	53
5059	LAIR1	ORF2	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000436513	chr19:54880625:->chr19:54875937:-	20	53
5060	LAIR1	ORF2	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000420483	chr19:54880625:->chr19:54875937:-	20	53
5061	MAL2	ORF2	chr8:120233211:+:L2b>chr8:120233827:+:ENST00000276681	chr8:120233211:+>chr8:120233827:+	3	53
5062	PSD2	ORF2	chr5:139197989:+:AluJb>chr5:139201478:+:ENST00000274710	chr5:139197989:+>chr5:139201478:+	38	53
5063	BMPR1B	ORF2	chr4:95983194:+:MSTA>chr4:96025559:+:ENST00000440890	chr4:95983194:+>chr4:96025559:+	38	52
5064	HPN	ORF3	chr19:35551974:+:L1MB7>chr19:35556154:+:ENST00000262626	chr19:35551974:+>chr19:35556154:+	30	52
5065	HPN	ORF3	chr19:35551974:+:L1MB7>chr19:35556154:+:ENST00000392226	chr19:35551974:+>chr19:35556154:+	30	52
5066	HPN	ORF3	chr19:35551974:+:L1MB7>chr19:35556154:+:ENST00000597419	chr19:35551974:+>chr19:35556154:+	30	52
5067	PLXNB3	ORF3	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000538966	chrX:152238123:+>chrX:153039148:+	12	52
5068	PLXNB3	ORF3	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000361971	chrX:152238123:+>chrX:153039148:+	12	52
5069	PLXNB3	ORF3	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000538776	chrX:152238123:+>chrX:153039148:+	12	52
5070	PLXNB3	ORF3	chrX:152238123:+:G-rich>chrX:153039148:+:ENST00000538282	chrX:152238123:+>chrX:153039148:+	12	52
5071	CD1A	ORF2	chr1:158226395:+:AluJr4>chr1:158226576:+:ENST00000289429	chr1:158226395:+>chr1:158226576:+	13	52
5072	ADIPOR1	ORF2	chr1:202912195:-:AluSx1>chr1:202911346:-:ENST00000340990	chr1:202912195:->chr1:202911346:-	32	52
5073	ADIPOR1	ORF2	chr1:202912195:-:AluSx1>chr1:202911346:-:ENST00000436244	chr1:202912195:->chr1:202911346:-	32	52
5074	VAMP8	ORF2	chr2:85807766:+:MER115>chr2:85808699:+:ENST00000432071	chr2:85807766:+>chr2:85808699:+	6	52
5075	VAMP8	ORF2	chr2:85807766:+:MER115>chr2:85808699:+:ENST00000263864	chr2:85807766:+>chr2:85808699:+	6	52
5076	TM7SF3	ORF1	chr12:27153593:-:AluY>chr12:27152609:-:ENST00000542019	chr12:27153593:->chr12:27152609:-	33	52
5077	SLC30A8	ORF1	chr8:117963358:+:MIR3>chr8:118165183:+:ENST00000524274	chr8:117963358:+>chr8:118165183:+	6	52
5078	TSPAN5	ORF2	chr4:99426046:-:MLT1A0>chr4:99408035:-:ENST00000508798	chr4:99426046:->chr4:99408035:-	25	52
5079	TSPAN5	ORF2	chr4:99426046:-:MLT1A0>chr4:99408035:-:ENST00000305798	chr4:99426046:->chr4:99408035:-	25	52
5080	TSPAN5	ORF2	chr4:99426046:-:MLT1A0>chr4:99408035:-:ENST00000515440	chr4:99426046:->chr4:99408035:-	25	52
5081	C1orf186	ORF1	chr1:206277067:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206277067:->chr1:206243250:-	44	52
5082	GLRA3	ORF1	chr4:175796123:-:ERVL-E-int>chr4:175710094:-:ENST00000274093	chr4:175796123:->chr4:175710094:-	26	52
5083	GLRA3	ORF1	chr4:175796123:-:ERVL-E-int>chr4:175710094:-:ENST00000340217	chr4:175796123:->chr4:175710094:-	26	52
5084	ABCC1	ORF1	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000351154	chr16:16171648:+>chr16:16173209:+	8	52
5085	ABCB5	ORF1	chr7:20708127:+:SVA_E>chr7:20721128:+:ENST00000404938	chr7:20708127:+>chr7:20721128:+	14	52
5086	ABCB5	ORF1	chr7:20708127:+:SVA_E>chr7:20721128:+:ENST00000258738	chr7:20708127:+>chr7:20721128:+	14	52
5087	CLSTN1	ORF1	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000377298	chr1:9806225:->chr1:9804701:-	10	52
5088	CLSTN1	ORF1	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000435891	chr1:9806225:->chr1:9804701:-	10	52
5089	CLSTN1	ORF1	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000361311	chr1:9806225:->chr1:9804701:-	10	52
5090	CLSTN1	ORF1	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000377288	chr1:9806225:->chr1:9804701:-	10	52
5091	PDPN	ORF2	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000294489	chr1:13922564:+>chr1:13933668:+	24	52
5092	PDPN	ORF2	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000376057	chr1:13922564:+>chr1:13933668:+	24	52
5093	PDPN	ORF2	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000510906	chr1:13922564:+>chr1:13933668:+	24	52

Table 15

5094	PDPN	ORF2	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000509009	chr1:13922564:+>chr1:13933668:+	24	52
5095	DPCR1	ORF3	chr6:30913271:+:AluJr>chr6:30916324:+:ENST00000462446	chr6:30913271:+>chr6:30916324:+	23	52
5096	SLC39A11	ORF3	chr17:70666923:-:L1MC4a>chr17:70645407:-:ENST00000255559	chr17:70666923:->chr17:70645407:-	15	52
5097	SLC39A11	ORF3	chr17:70666923:-:L1MC4a>chr17:70645407:-:ENST00000542342	chr17:70666923:->chr17:70645407:-	15	52
5098	SLC39A11	ORF3	chr17:70666923:-:L1MC4a>chr17:70645407:-:ENST00000582769	chr17:70666923:->chr17:70645407:-	15	52
5099	ABCC5	ORF1	chr3:183642788:-:L2c>chr3:183639189:-:ENST00000334444	chr3:183642788:->chr3:183639189:-	18	51
5100	ABCC5	ORF1	chr3:183642788:-:L2c>chr3:183639189:-:ENST00000265586	chr3:183642788:->chr3:183639189:-	18	51
5101	CD86	ORF1	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000493101	chr3:121681042:+>chr3:121810448:+	46	51
5102	CD86	ORF1	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000264468	chr3:121681042:+>chr3:121810448:+	46	51
5103	CD86	ORF1	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000330540	chr3:121681042:+>chr3:121810448:+	46	51
5104	CD86	ORF1	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000478741	chr3:121681042:+>chr3:121810448:+	46	51
5105	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000278385	chr11:35250220:+>chr11:35250676:+	13	51
5106	TTYH1	ORF2	chr19:54945078:+:MIRb>chr19:54946807:+:ENST00000376531	chr19:54945078:+>chr19:54946807:+	19	51
5107	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474787:-:ENST00000572785	chr15:74475594:->chr15:74474787:-	4	51
5108	CDCP1	ORF1	chr3:45159404:-:AluSx>chr3:45153937:-:ENST00000296129	chr3:45159404:->chr3:45153937:-	16	51
5109	CDCP1	ORF1	chr3:45159404:-:AluSx>chr3:45153937:-:ENST00000425231	chr3:45159404:->chr3:45153937:-	16	51
5110	TMPRSS4	ORF1	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000517483	chr11:117969154:+>chr11:117969700:+	7	51
5111	DNER	ORF1	chr2:230370928:-:THE1C>chr2:230341969:-:ENST00000341772	chr2:230370928:->chr2:230341969:-	36	51
5112	CD99L2	ORF2	chrX:149996779:-:MIR>chrX:149963959:-:ENST00000370377	chrX:149996779:->chrX:149963959:-	26	51
5113	CD99L2	ORF2	chrX:149996779:-:MIR>chrX:149963959:-:ENST00000466436	chrX:149996779:->chrX:149963959:-	26	51
5114	CD99L2	ORF2	chrX:149996779:-:MIR>chrX:149963959:-:ENST00000418547	chrX:149996779:->chrX:149963959:-	26	51
5115	MYOF	ORF1	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000463743	chr10:95133812:->chr10:95132842:-	45	51
5116	MYOF	ORF1	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000358334	chr10:95133812:->chr10:95132842:-	45	51
5117	MYOF	ORF1	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000359263	chr10:95133812:->chr10:95132842:-	45	51
5118	MYOF	ORF1	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000371501	chr10:95133812:->chr10:95132842:-	45	51
5119	MYOF	ORF1	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000371502	chr10:95133812:->chr10:95132842:-	45	51
5120	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000395105	chr15:74490651:->chr15:74490159:-	11	51
5121	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000423167	chr15:74490651:->chr15:74490159:-	11	51
5122	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000323940	chr15:74490651:->chr15:74490159:-	11	51
5123	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000449139	chr15:74490651:->chr15:74490159:-	11	51
5124	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000416286	chr15:74490651:->chr15:74490159:-	11	51
5125	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000535552	chr15:74490651:->chr15:74490159:-	11	51
5126	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000563965	chr15:74490651:->chr15:74490159:-	11	51
5127	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000574278	chr15:74490651:->chr15:74490159:-	11	51
5128	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000569936	chr15:74490651:->chr15:74490159:-	11	51
5129	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000432245	chr15:74490651:->chr15:74490159:-	11	51
5130	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000571341	chr15:74490651:->chr15:74490159:-	11	51
5131	KCNK1	ORF2	chr1:233790730:+:MLT1A0-int>chr1:233802341:+:ENST00000366621	chr1:233790730:+>chr1:233802341:+	39	51
5132	KCNK1	ORF2	chr1:233790730:+:MLT1A0-int>chr1:233802341:+:ENST00000366620	chr1:233790730:+>chr1:233802341:+	39	51
5133	KCNK1	ORF2	chr1:233790730:+:MLT1A0-int>chr1:233802341:+:ENST00000446915	chr1:233790730:+>chr1:233802341:+	39	51
5134	GPR143	ORF2	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000467482	chrX:9715893:->chrX:9714193:-	17	51
5135	GPR143	ORF2	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000380929	chrX:9715893:->chrX:9714193:-	17	51
5136	GPR143	ORF2	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000447366	chrX:9715893:->chrX:9714193:-	17	51
5137	GPR143	ORF2	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000431126	chrX:9715893:->chrX:9714193:-	17	51
5138	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000523813	chr5:149925791:->chr5:149792270:-	13	51
5139	LAIR1	ORF1	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000348231	chr19:54880625:->chr19:54875937:-	29	51
5140	LAIR1	ORF1	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000391742	chr19:54880625:->chr19:54875937:-	29	51
5141	LAIR1	ORF1	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000391741	chr19:54880625:->chr19:54875937:-	29	51
5142	LAIR1	ORF1	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000418556	chr19:54880625:->chr19:54875937:-	29	51
5143	LAIR1	ORF1	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000438193	chr19:54880625:->chr19:54875937:-	29	51
5144	PPAP2A	ORF1	chr5:54781916:-:L1ME4a>chr5:54771278:-:ENST00000509667	chr5:54781916:->chr5:54771278:-	10	50
5145	APCDD1	ORF2	chr18:10479692:+:MIRc>chr18:10485459:+:ENST00000423585	chr18:10479692:+>chr18:10485459:+	8	50
5146	SLC39A8	ORF2	chr4:103184426:-:Tigger1>chr4:103184350:-:ENST00000424970	chr4:103184426:->chr4:103184350:-	17	50
5147	SLC50A1	ORF1	chr1:155109004:+:AluY>chr1:155110037:+:ENST00000484157	chr1:155109004:+>chr1:155110037:+	22	50
5148	SLC50A1	ORF1	chr1:155109004:+:AluY>chr1:155110037:+:ENST00000368404	chr1:155109004:+>chr1:155110037:+	22	50
5149	SLC50A1	ORF1	chr1:155109004:+:AluY>chr1:155110037:+:ENST00000368401	chr1:155109004:+>chr1:155110037:+	22	50
5150	PVRL2	ORF1	chr19:45386897:+:AluJb>chr19:45389194:+:ENST00000252483	chr19:45386897:+>chr19:45389194:+	9	50
5151	PTPRZ1	ORF1	chr7:121663441:+:MIR3>chr7:121668606:+:ENST00000393386	chr7:121663441:+>chr7:121668606:+	34	50
5152	PTPRZ1	ORF1	chr7:121663441:+:MIR3>chr7:121668606:+:ENST00000449182	chr7:121663441:+>chr7:121668606:+	34	50
5153	C1orf186	ORF2	chr1:206270467:-:MIRc>chr1:206243250:-:ENST00000331555	chr1:206270467:->chr1:206243250:-	13	50
5154	SLC17A3	ORF2	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000397060	chr6:25864286:->chr6:25862672:-	3	50
5155	SLC17A3	ORF2	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000361703	chr6:25864286:->chr6:25862672:-	3	50
5156	SLC17A3	ORF2	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000360657	chr6:25864286:->chr6:25862672:-	3	50
5157	SLC17A3	ORF2	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000506105	chr6:25864286:->chr6:25862672:-	3	50
5158	SLC17A3	ORF2	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000449356	chr6:25864286:->chr6:25862672:-	3	50
5159	EPCAM	ORF2	chr2:47596512:+:LTR41B>chr2:47596660:+:ENST00000419334	chr2:47596512:+>chr2:47596660:+	29	50
5160	SGCB	ORF1	chr4:52913266:-:THE1B>chr4:52899806:-:ENST00000381431	chr4:52913266:->chr4:52899806:-	38	50
5161	SGCB	ORF1	chr4:52913266:-:THE1B>chr4:52899806:-:ENST00000506357	chr4:52913266:->chr4:52899806:-	38	50
5162	SGCB	ORF1	chr4:52913266:-:THE1B>chr4:52899806:-:ENST00000514133	chr4:52913266:->chr4:52899806:-	38	50
5163	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474784:-:ENST00000572785	chr15:74475594:->chr15:74474784:-	4	50
5164	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000535633	chr11:89098143:->chr11:89088211:-	8	50
5165	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000424319	chr11:89098143:->chr11:89088211:-	8	50

5166	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000343727	chr11:89098143:->chr11:89088211:-	8	50
5167	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000263317	chr11:89098143:->chr11:89088211:-	8	50
5168	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000527956	chr11:89098143:->chr11:89088211:-	8	50
5169	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000542487	chr11:89098143:->chr11:89088211:-	8	50
5170	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000527626	chr11:89098143:->chr11:89088211:-	8	50
5171	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000528341	chr11:89098143:->chr11:89088211:-	8	50
5172	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000413594	chr11:89098143:->chr11:89088211:-	8	50
5173	NOX4	ORF3	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000375979	chr11:89098143:->chr11:89088211:-	8	50
5174	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000376389	chr6:30708813:->chr6:30708368:-	16	50
5175	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000456573	chr6:30708813:->chr6:30708368:-	16	50
5176	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000413165	chr6:30708813:->chr6:30708368:-	16	50
5177	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000438162	chr6:30708813:->chr6:30708368:-	16	50
5178	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000418160	chr6:30708813:->chr6:30708368:-	16	50
5179	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000445853	chr6:30708813:->chr6:30708368:-	16	50
5180	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000416018	chr6:30708813:->chr6:30708368:-	16	50
5181	QSOX2	ORF1	chr9:139123591:-:MIRc>chr9:139118720:-:ENST00000358701	chr9:139123591:->chr9:139118720:-	27	50
5182	LAIR1	ORF1	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000434277	chr19:54880625:->chr19:54875937:-	29	50
5183	LAIR1	ORF1	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000313038	chr19:54880625:->chr19:54875937:-	29	50
5184	LAIR1	ORF1	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000474878	chr19:54880625:->chr19:54875937:-	29	50
5185	NCAM1	ORF3	chr11:113100589:+:L1PA5>chr11:113102367:+:ENST00000533760	chr11:113100589:+>chr11:113102367:+	33	50
5186	NCAM1	ORF3	chr11:113100589:+:L1PA5>chr11:113102367:+:ENST00000524665	chr11:113100589:+>chr11:113102367:+	33	50
5187	NCAM1	ORF3	chr11:113100589:+:L1PA5>chr11:113102367:+:ENST00000534015	chr11:113100589:+>chr11:113102367:+	33	50
5188	NCAM1	ORF3	chr11:113100589:+:L1PA5>chr11:113102367:+:ENST00000401611	chr11:113100589:+>chr11:113102367:+	33	50
5189	NCAM1	ORF3	chr11:113100589:+:L1PA5>chr11:113102367:+:ENST00000316851	chr11:113100589:+>chr11:113102367:+	33	50
5190	CDH19	ORF3	chr18:64205766:-:L1MC4a>chr18:64202344:-:ENST00000454642	chr18:64205766:->chr18:64202344:-	9	50
5191	ATP1B2	ORF2	chr17:7550019:+:MER45B>chr17:7557159:+:ENST00000250111	chr17:7550019:+>chr17:7557159:+	48	49
5192	BACE2	ORF1	chr21:42582959:+:MER49>chr21:42609440:+:ENST00000328735	chr21:42582959:+>chr21:42609440:+	48	49
5193	BACE2	ORF1	chr21:42582959:+:MER49>chr21:42609440:+:ENST00000330333	chr21:42582959:+>chr21:42609440:+	48	49
5194	BACE2	ORF1	chr21:42582959:+:MER49>chr21:42609440:+:ENST00000347667	chr21:42582959:+>chr21:42609440:+	48	49
5195	C1orf186	ORF2	chr1:206276560:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206276560:->chr1:206243250:-	12	49
5196	SLC7A8	ORF1	chr14:23669913:-:MER4-int>chr14:23635749:-:ENST00000525062	chr14:23669913:->chr14:23635749:-	21	49
5197	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000332149	chr21:42883790:->chr21:42852529:-	7	49
5198	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000398585	chr21:42883790:->chr21:42852529:-	7	49
5199	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000458356	chr21:42883790:->chr21:42852529:-	7	49
5200	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000454499	chr21:42883790:->chr21:42852529:-	7	49
5201	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42852529:-:ENST00000424093	chr21:42883790:->chr21:42852529:-	7	49
5202	GUCY2C	ORF3	chr12:14862945:-:HERVH-int>chr12:14840997:-:ENST00000261170	chr12:14862945:->chr12:14840997:-	48	49
5203	SLC39A11	ORF2	chr17:70713885:-:MLT1C>chr17:70645407:-:ENST00000582769	chr17:70713885:->chr17:70645407:-	3	49
5204	IFNGR2	ORF2	chr21:34783881:+:MLT1D>chr21:34793787:+:ENST00000545369	chr21:34783881:+>chr21:34793787:+	35	49
5205	SLC39A11	ORF1	chr17:70670643:-:L1MC4a>chr17:70645407:-:ENST00000582769	chr17:70670643:->chr17:70645407:-	3	49
5206	GPR176	ORF2	chr15:40186733:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186733:->chr15:40099459:-	26	49
5207	GPR176	ORF2	chr15:40186733:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186733:->chr15:40099459:-	26	49
5208	BACE2	ORF2	chr21:42597622:+:L1ME2>chr21:42598193:+:ENST00000328735	chr21:42597622:+>chr21:42598193:+	44	49
5209	BACE2	ORF2	chr21:42597622:+:L1ME2>chr21:42598193:+:ENST00000330333	chr21:42597622:+>chr21:42598193:+	44	49
5210	BACE2	ORF2	chr21:42597622:+:L1ME2>chr21:42598193:+:ENST00000347667	chr21:42597622:+>chr21:42598193:+	44	49
5211	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000456996	chr2:87028634:->chr2:87015683:-	21	49
5212	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000352580	chr2:87028634:->chr2:87015683:-	21	49
5213	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000283635	chr2:87028634:->chr2:87015683:-	21	49
5214	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000409511	chr2:87028634:->chr2:87015683:-	21	49
5215	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000538832	chr2:87028634:->chr2:87015683:-	21	49
5216	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87015683:-:ENST00000409781	chr2:87028634:->chr2:87015683:-	21	49
5217	IFITM3	ORF3	chr11:322401:-:LTR76>chr11:320772:-:ENST00000399808	chr11:322401:->chr11:320772:-	18	49
5218	NET1	ORF1	chr10:5454849:+:G-rich>chr10:5468618:+:ENST00000355029	chr10:5454849:+>chr10:5468618:+	19	49
5219	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000409582	chr2:71895374:+>chr2:71895884:+	3	49
5220	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000409762	chr2:71895374:+>chr2:71895884:+	3	49
5221	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000413539	chr2:71895374:+>chr2:71895884:+	3	49
5222	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000429174	chr2:71895374:+>chr2:71895884:+	3	49
5223	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000258104	chr2:71895374:+>chr2:71895884:+	3	49
5224	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000394120	chr2:71895374:+>chr2:71895884:+	3	49
5225	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000409366	chr2:71895374:+>chr2:71895884:+	3	49
5226	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000409651	chr2:71895374:+>chr2:71895884:+	3	49
5227	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000409744	chr2:71895374:+>chr2:71895884:+	3	49
5228	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000410020	chr2:71895374:+>chr2:71895884:+	3	49
5229	DYSF	ORF1	chr2:71895374:+:MIRb>chr2:71895884:+:ENST00000410041	chr2:71895374:+>chr2:71895884:+	3	49
5230	IFITM3	ORF3	chr11:321582:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321582:->chr11:320772:-	18	49
5231	IFITM3	ORF3	chr11:321660:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321660:->chr11:320772:-	18	49
5232	IFITM3	ORF3	chr11:322011:-:LTR76>chr11:320772:-:ENST00000399808	chr11:322011:->chr11:320772:-	18	49
5233	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000360168	chr12:6458996:->chr12:6458171:-	11	49
5234	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000358945	chr12:6458996:->chr12:6458171:-	11	49
5235	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000540037	chr12:6458996:->chr12:6458171:-	11	49
5236	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000228916	chr12:6458996:->chr12:6458171:-	11	49
5237	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000543768	chr12:6458996:->chr12:6458171:-	11	49

Table 15

5238	VAMP8	ORF3	chr2:85804390:+:FLAM_C>chr2:85806132:+:ENST00000263864	chr2:85804390:+>chr2:85806132:+	23	49
5239	VAMP8	ORF3	chr2:85804390:+:FLAM_C>chr2:85806132:+:ENST00000409760	chr2:85804390:+>chr2:85806132:+	23	49
5240	IFITM3	ORF3	chr11:322206:-:LTR76>chr11:320772:-:ENST00000399808	chr11:322206:->chr11:320772:-	18	49
5241	IGDCC4	ORF3	chr15:65685287:-:MIR>chr15:65684708:-:ENST00000352385	chr15:65685287:->chr15:65684708:-	7	49
5242	IFITM3	ORF3	chr11:321855:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321855:->chr11:320772:-	18	49
5243	C1orf186	ORF2	chr1:206277274:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206277274:->chr1:206243250:-	12	49
5244	SLC6A20	ORF2	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000353278	chr3:45821882:->chr3:45821592:-	6	49
5245	SLC6A20	ORF2	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000358525	chr3:45821882:->chr3:45821592:-	6	49
5246	SLC6A20	ORF2	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000456124	chr3:45821882:->chr3:45821592:-	6	49
5247	SLC6A20	ORF2	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000413781	chr3:45821882:->chr3:45821592:-	6	49
5248	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000447712	chr8:38291059:->chr8:38285953:-	18	49
5249	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000532791	chr8:38291059:->chr8:38285953:-	18	49
5250	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000356207	chr8:38291059:->chr8:38285953:-	18	49
5251	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000335922	chr8:38291059:->chr8:38285953:-	18	49
5252	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000525001	chr8:38291059:->chr8:38285953:-	18	49
5253	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000529552	chr8:38291059:->chr8:38285953:-	18	49
5254	ERBB4	ORF1	chr2:212802286:-:THE1C>chr2:212652884:-:ENST00000342788	chr2:212802286:->chr2:212652884:-	7	49
5255	ERBB4	ORF1	chr2:212802286:-:THE1C>chr2:212652884:-:ENST00000436443	chr2:212802286:->chr2:212652884:-	7	49
5256	ERBB4	ORF1	chr2:212802286:-:THE1C>chr2:212652884:-:ENST00000402597	chr2:212802286:->chr2:212652884:-	7	49
5257	ERBB4	ORF1	chr2:212802286:-:THE1C>chr2:212652884:-:ENST00000260943	chr2:212802286:->chr2:212652884:-	7	49
5258	ERBB4	ORF1	chr2:212802286:-:THE1C>chr2:212652884:-:ENST00000435846	chr2:212802286:->chr2:212652884:-	7	49
5259	IFITM3	ORF3	chr11:323324:-:HERV3-int>chr11:320772:-:ENST00000399808	chr11:323324:->chr11:320772:-	17	48
5260	FCGRT	ORF3	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000221466	chr19:50028943:+>chr19:50029267:+	12	48
5261	FCGRT	ORF3	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000426395	chr19:50028943:+>chr19:50029267:+	12	48
5262	FCGRT	ORF3	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000599988	chr19:50028943:+>chr19:50029267:+	12	48
5263	FCGRT	ORF3	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000596975	chr19:50028943:+>chr19:50029267:+	12	48
5264	FCGRT	ORF3	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000598076	chr19:50028943:+>chr19:50029267:+	12	48
5265	FCGR3A	ORF3	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000367969	chr1:161519206:->chr1:161518821:-	41	48
5266	FCGR3A	ORF3	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000443193	chr1:161519206:->chr1:161518821:-	41	48
5267	FCGR3A	ORF3	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000436743	chr1:161519206:->chr1:161518821:-	41	48
5268	FCGR3A	ORF3	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000367967	chr1:161519206:->chr1:161518821:-	41	48
5269	FCGR3A	ORF3	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000426740	chr1:161519206:->chr1:161518821:-	41	48
5270	FCGR3A	ORF3	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000442336	chr1:161519206:->chr1:161518821:-	41	48
5271	ANO1	ORF3	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000355303	chr11:69912149:+>chr11:69933858:+	39	48
5272	ANO1	ORF3	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000538023	chr11:69912149:+>chr11:69933858:+	39	48
5273	ANO1	ORF3	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000531604	chr11:69912149:+>chr11:69933858:+	39	48
5274	ANO1	ORF3	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000316296	chr11:69912149:+>chr11:69933858:+	39	48
5275	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000346798	chr21:27478885:->chr21:27462370:-	9	48
5276	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000354192	chr21:27478885:->chr21:27462370:-	9	48
5277	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000348990	chr21:27478885:->chr21:27462370:-	9	48
5278	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000357903	chr21:27478885:->chr21:27462370:-	9	48
5279	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000358918	chr21:27478885:->chr21:27462370:-	9	48
5280	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000359726	chr21:27478885:->chr21:27462370:-	9	48
5281	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000448388	chr21:27478885:->chr21:27462370:-	9	48
5282	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000440126	chr21:27478885:->chr21:27462370:-	9	48
5283	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000439274	chr21:27478885:->chr21:27462370:-	9	48
5284	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000448850	chr21:27478885:->chr21:27462370:-	9	48
5285	APP	ORF2	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000346798	chr21:27453597:->chr21:27425664:-	44	48
5286	APP	ORF2	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000354192	chr21:27453597:->chr21:27425664:-	44	48
5287	APP	ORF2	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000348990	chr21:27453597:->chr21:27425664:-	44	48
5288	APP	ORF2	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000357903	chr21:27453597:->chr21:27425664:-	44	48
5289	APP	ORF2	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000358918	chr21:27453597:->chr21:27425664:-	44	48
5290	APP	ORF2	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000359726	chr21:27453597:->chr21:27425664:-	44	48
5291	APP	ORF2	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000448388	chr21:27453597:->chr21:27425664:-	44	48
5292	APP	ORF2	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000440126	chr21:27453597:->chr21:27425664:-	44	48
5293	APP	ORF2	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000439274	chr21:27453597:->chr21:27425664:-	44	48
5294	APP	ORF2	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000448850	chr21:27453597:->chr21:27425664:-	44	48
5295	ROS1	ORF1	chr6:117763597:-:THE1B>chr6:117739669:-:ENST00000368507	chr6:117763597:->chr6:117739669:-	44	48
5296	ROS1	ORF1	chr6:117763597:-:THE1B>chr6:117739669:-:ENST00000368508	chr6:117763597:->chr6:117739669:-	44	48
5297	KIAA1324	ORF3	chr1:109695471:+:AluJb>chr1:109704516:+:ENST00000533147	chr1:109695471:+>chr1:109704516:+	7	48
5298	SLCO1A2	ORF1	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000307378	chr12:21426215:->chr12:21422701:-	16	48
5299	SLCO1A2	ORF1	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000452078	chr12:21426215:->chr12:21422701:-	16	48
5300	SLCO1A2	ORF1	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000458504	chr12:21426215:->chr12:21422701:-	16	48
5301	SLCO1A2	ORF1	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000537524	chr12:21426215:->chr12:21422701:-	16	48
5302	SLC3A2	ORF1	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377892	chr11:62651559:+>chr11:62651929:+	29	48
5303	SLC3A2	ORF1	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377890	chr11:62651559:+>chr11:62651929:+	29	48
5304	SLC3A2	ORF1	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377891	chr11:62651559:+>chr11:62651929:+	29	48
5305	SLC3A2	ORF1	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377889	chr11:62651559:+>chr11:62651929:+	29	48
5306	SLC3A2	ORF1	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000535296	chr11:62651559:+>chr11:62651929:+	29	48
5307	SLC3A2	ORF1	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000338663	chr11:62651559:+>chr11:62651929:+	29	48
5308	MEGF11	ORF1	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000409699	chr15:66275074:->chr15:66274826:-	25	48
5309	MEGF11	ORF1	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000288745	chr15:66275074:->chr15:66274826:-	25	48

Table 15

5310	MEGF11	ORF1	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000360698	chr15:66275074:->chr15:66274826:-	25	48
5311	MEGF11	ORF1	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000395625	chr15:66275074:->chr15:66274826:-	25	48
5312	MEGF11	ORF1	chr15:66275074:-:MamRep1879>chr15:66274826:-:ENST00000422354	chr15:66275074:->chr15:66274826:-	25	48
5313	PLSCR1	ORF3	chr3:146265863:-:L1MA8>chr3:146239794:-:ENST00000342435	chr3:146265863:->chr3:146239794:-	20	48
5314	PLSCR1	ORF3	chr3:146265863:-:L1MA8>chr3:146239794:-:ENST00000487389	chr3:146265863:->chr3:146239794:-	20	48
5315	PLSCR1	ORF3	chr3:146265863:-:L1MA8>chr3:146239794:-:ENST00000448787	chr3:146265863:->chr3:146239794:-	20	48
5316	PLSCR1	ORF3	chr3:146265863:-:L1MA8>chr3:146239794:-:ENST00000486631	chr3:146265863:->chr3:146239794:-	20	48
5317	PLSCR1	ORF3	chr3:146265863:-:L1MA8>chr3:146239794:-:ENST00000472349	chr3:146265863:->chr3:146239794:-	20	48
5318	KCNQ2	ORF3	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000354587	chr20:62068988:->chr20:62065256:-	10	47
5319	KCNQ2	ORF3	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000360480	chr20:62068988:->chr20:62065256:-	10	47
5320	KCNQ2	ORF3	chr20:62068988:-:MLT1D>chr20:62065256:-:ENST00000370224	chr20:62068988:->chr20:62065256:-	10	47
5321	PDPN	ORF3	chr1:13909091:+:MER5A1>chr1:13910478:+:ENST00000506205	chr1:13909091:+>chr1:13910478:+	4	47
5322	NRG4	ORF3	chr15:76251363:-:AluJr>chr15:76248347:-:ENST00000566417	chr15:76251363:->chr15:76248347:-	36	47
5323	NRG4	ORF3	chr15:76251363:-:AluJr>chr15:76248347:-:ENST00000394907	chr15:76251363:->chr15:76248347:-	36	47
5324	NRG4	ORF3	chr15:76251363:-:AluJr>chr15:76248347:-:ENST00000563910	chr15:76251363:->chr15:76248347:-	36	47
5325	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474801:-:ENST00000395105	chr15:74475594:->chr15:74474801:-	4	47
5326	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474801:-:ENST00000423167	chr15:74475594:->chr15:74474801:-	4	47
5327	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474801:-:ENST00000323940	chr15:74475594:->chr15:74474801:-	4	47
5328	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474801:-:ENST00000449139	chr15:74475594:->chr15:74474801:-	4	47
5329	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474801:-:ENST00000416286	chr15:74475594:->chr15:74474801:-	4	47
5330	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474801:-:ENST00000535552	chr15:74475594:->chr15:74474801:-	4	47
5331	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474801:-:ENST00000563965	chr15:74475594:->chr15:74474801:-	4	47
5332	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474801:-:ENST00000574278	chr15:74475594:->chr15:74474801:-	4	47
5333	STRA6	ORF1	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000573391	chr15:74490651:->chr15:74490159:-	24	47
5334	TNFRSF21	ORF2	chr6:47213511:-:MSTA>chr6:47202634:-:ENST00000296861	chr6:47213511:->chr6:47202634:-	44	47
5335	BACE2	ORF2	chr21:42597622:+:L1ME2>chr21:42598199:+:ENST00000328735	chr21:42597622:+>chr21:42598199:+	44	47
5336	BACE2	ORF2	chr21:42597622:+:L1ME2>chr21:42598199:+:ENST00000330333	chr21:42597622:+>chr21:42598199:+	44	47
5337	BACE2	ORF2	chr21:42597622:+:L1ME2>chr21:42598199:+:ENST00000347667	chr21:42597622:+>chr21:42598199:+	44	47
5338	BTN3A2	ORF2	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000530653	chr6:26370250:+>chr6:26370550:+	34	47
5339	FAM174B	ORF2	chr15:93221360:-:MSTC>chr15:93173575:-:ENST00000327355	chr15:93221360:->chr15:93173575:-	36	47
5340	C1orf186	ORF3	chr1:206276891:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206276891:->chr1:206243250:-	39	47
5341	SGCB	ORF2	chr4:52915523:-:THE1B>chr4:52899806:-:ENST00000381431	chr4:52915523:->chr4:52899806:-	35	47
5342	SGCB	ORF2	chr4:52915523:-:THE1B>chr4:52899806:-:ENST00000506357	chr4:52915523:->chr4:52899806:-	35	47
5343	SGCB	ORF2	chr4:52915523:-:THE1B>chr4:52899806:-:ENST00000514133	chr4:52915523:->chr4:52899806:-	35	47
5344	VMP1	ORF2	chr17:57913424:+:HY1>chr17:57915656:+:ENST00000262291	chr17:57913424:+>chr17:57915656:+	4	47
5345	VMP1	ORF2	chr17:57913424:+:HY1>chr17:57915656:+:ENST00000537567	chr17:57913424:+>chr17:57915656:+	4	47
5346	VMP1	ORF2	chr17:57913424:+:HY1>chr17:57915656:+:ENST00000539763	chr17:57913424:+>chr17:57915656:+	4	47
5347	VMP1	ORF2	chr17:57913424:+:HY1>chr17:57915656:+:ENST00000536180	chr17:57913424:+>chr17:57915656:+	4	47
5348	VMP1	ORF2	chr17:57913424:+:HY1>chr17:57915656:+:ENST00000545362	chr17:57913424:+>chr17:57915656:+	4	47
5349	VMP1	ORF2	chr17:57913424:+:HY1>chr17:57915656:+:ENST00000591877	chr17:57913424:+>chr17:57915656:+	4	47
5350	CD8B	ORF2	chr2:87075916:-:AluSq2>chr2:87073896:-:ENST00000393759	chr2:87075916:->chr2:87073896:-	7	47
5351	CD8B	ORF2	chr2:87075916:-:AluSq2>chr2:87073896:-:ENST00000331469	chr2:87075916:->chr2:87073896:-	7	47
5352	CD8B	ORF2	chr2:87075916:-:AluSq2>chr2:87073896:-:ENST00000390655	chr2:87075916:->chr2:87073896:-	7	47
5353	CDH1	ORF1	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000261769	chr16:68769053:+>chr16:68772200:+	8	47
5354	CDH1	ORF1	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000566612	chr16:68769053:+>chr16:68772200:+	8	47
5355	CDH1	ORF1	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000422392	chr16:68769053:+>chr16:68772200:+	8	47
5356	CDH1	ORF1	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000566510	chr16:68769053:+>chr16:68772200:+	8	47
5357	ABCB5	ORF3	chr7:20708127:+:SVA_E>chr7:20721128:+:ENST00000404938	chr7:20708127:+>chr7:20721128:+	37	47
5358	ABCB5	ORF3	chr7:20708127:+:SVA_E>chr7:20721128:+:ENST00000258738	chr7:20708127:+>chr7:20721128:+	37	47
5359	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000425967	chr8:38291059:->chr8:38285953:-	18	47
5360	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000397091	chr8:38291059:->chr8:38285953:-	18	47
5361	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000341462	chr8:38291059:->chr8:38285953:-	18	47
5362	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000397113	chr8:38291059:->chr8:38285953:-	18	47
5363	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000326324	chr8:38291059:->chr8:38285953:-	18	47
5364	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000397103	chr8:38291059:->chr8:38285953:-	18	47
5365	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000397108	chr8:38291059:->chr8:38285953:-	18	47
5366	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000526742	chr8:38291059:->chr8:38285953:-	18	47
5367	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000530568	chr8:38291059:->chr8:38285953:-	18	47
5368	SLC7A8	ORF3	chr14:23639294:-:MIRc>chr14:23635749:-:ENST00000525062	chr14:23639294:->chr14:23635749:-	19	47
5369	SLC7A8	ORF1	chr14:23642341:-:L2c>chr14:23635749:-:ENST00000316902	chr14:23642341:->chr14:23635749:-	3	47
5370	SLC7A8	ORF1	chr14:23642341:-:L2c>chr14:23635749:-:ENST00000469263	chr14:23642341:->chr14:23635749:-	3	47
5371	SLC7A8	ORF1	chr14:23642341:-:L2c>chr14:23635749:-:ENST00000524758	chr14:23642341:->chr14:23635749:-	3	47
5372	CD200	ORF1	chr3:112021561:+:HERV3-int>chr3:112059749:+:ENST00000498096	chr3:112021561:+>chr3:112059749:+	46	47
5373	CD200	ORF1	chr3:112021561:+:HERV3-int>chr3:112059749:+:ENST00000473539	chr3:112021561:+>chr3:112059749:+	46	47
5374	CD200	ORF1	chr3:112021561:+:HERV3-int>chr3:112059749:+:ENST00000315711	chr3:112021561:+>chr3:112059749:+	46	47
5375	TYROBP	ORF2	chr19:36405224:-:AluSx1>chr19:36398166:-:ENST00000585901	chr19:36405224:->chr19:36398166:-	9	46
5376	TYROBP	ORF2	chr19:36405224:-:AluSx1>chr19:36398166:-:ENST00000544690	chr19:36405224:->chr19:36398166:-	9	46
5377	TYROBP	ORF2	chr19:36405224:-:AluSx1>chr19:36398166:-:ENST00000262629	chr19:36405224:->chr19:36398166:-	9	46
5378	PKHD1	ORF2	chr6:51817226:-:L2b>chr6:51799120:-:ENST00000371117	chr6:51817226:->chr6:51799120:-	24	46
5379	PKHD1	ORF2	chr6:51817226:-:L2b>chr6:51799120:-:ENST00000340994	chr6:51817226:->chr6:51799120:-	24	46
5380	SLC16A10	ORF2	chr6:111494717:+:MER1A>chr6:111498415:+:ENST00000368851	chr6:111494717:+>chr6:111498415:+	7	46
5381	SLC16A10	ORF2	chr6:111494717:+:MER1A>chr6:111498415:+:ENST00000439288	chr6:111494717:+>chr6:111498415:+	7	46

Table 15

5382	SLC16A10	ORF2	chr6:111494717:+:MER1A>chr6:111498415:+:ENST00000419619	chr6:111494717:+>chr6:111498415:+	7	46
5383	AXL	ORF1	chr19:41732817:+:AluJb>chr19:41736872:+:ENST00000301178	chr19:41732817:+>chr19:41736872:+	33	46
5384	AXL	ORF1	chr19:41732817:+:AluJb>chr19:41736872:+:ENST00000359092	chr19:41732817:+>chr19:41736872:+	33	46
5385	STRA6	ORF3	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000395105	chr15:74486835:->chr15:74486263:-	26	46
5386	STRA6	ORF3	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000423167	chr15:74486835:->chr15:74486263:-	26	46
5387	STRA6	ORF3	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000323940	chr15:74486835:->chr15:74486263:-	26	46
5388	STRA6	ORF3	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000449139	chr15:74486835:->chr15:74486263:-	26	46
5389	STRA6	ORF3	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000416286	chr15:74486835:->chr15:74486263:-	26	46
5390	STRA6	ORF3	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000535552	chr15:74486835:->chr15:74486263:-	26	46
5391	STRA6	ORF3	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000563965	chr15:74486835:->chr15:74486263:-	26	46
5392	STRA6	ORF3	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000574278	chr15:74486835:->chr15:74486263:-	26	46
5393	STRA6	ORF3	chr15:74486835:-:MIRb>chr15:74486263:-:ENST00000569936	chr15:74486835:->chr15:74486263:-	26	46
5394	PVRL2	ORF1	chr19:45365456:+:AluYk4>chr19:45368528:+:ENST00000252485	chr19:45365456:+>chr19:45368528:+	8	46
5395	PVRL2	ORF1	chr19:45365456:+:AluYk4>chr19:45368528:+:ENST00000252483	chr19:45365456:+>chr19:45368528:+	8	46
5396	CDH3	ORF3	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000566808	chr16:68711459:+>chr16:68712037:+	11	46
5397	CADM2	ORF1	chr3:85827778:+:THE1D>chr3:85851197:+:ENST00000383699	chr3:85827778:+>chr3:85851197:+	39	46
5398	CADM2	ORF1	chr3:85827778:+:THE1D>chr3:85851197:+:ENST00000407528	chr3:85827778:+>chr3:85851197:+	39	46
5399	CADM2	ORF1	chr3:85827778:+:THE1D>chr3:85851197:+:ENST00000405615	chr3:85827778:+>chr3:85851197:+	39	46
5400	CLDN11	ORF3	chr3:170144403:+:MIRb>chr3:170150312:+:ENST00000064724	chr3:170144403:+>chr3:170150312:+	25	46
5401	CFTR	ORF2	chr7:117326829:+:MSTD>chr7:117355812:+:ENST00000600166	chr7:117326829:+>chr7:117355812:+	20	46
5402	ADCY3	ORF3	chr2:25109962:-:THE1C>chr2:25095588:-:ENST00000260600	chr2:25109962:->chr2:25095588:-	7	46
5403	ADCY3	ORF3	chr2:25109962:-:THE1C>chr2:25095588:-:ENST00000433852	chr2:25109962:->chr2:25095588:-	7	46
5404	ADCY3	ORF1	chr2:25309890:-:THE1C>chr2:25095588:-:ENST00000260600	chr2:25309890:->chr2:25095588:-	7	46
5405	ADCY3	ORF1	chr2:25309890:-:THE1C>chr2:25095588:-:ENST00000433852	chr2:25309890:->chr2:25095588:-	7	46
5406	ROR2	ORF2	chr9:94504366:-:THE1A>chr9:94499800:-:ENST00000375715	chr9:94504366:->chr9:94499800:-	45	46
5407	ROR2	ORF2	chr9:94504366:-:THE1A>chr9:94499800:-:ENST00000375708	chr9:94504366:->chr9:94499800:-	45	46
5408	OR7G2	ORF2	chr19:9214762:-:AluSz>chr19:9213935:-:ENST00000305456	chr19:9214762:->chr19:9213935:-	24	46
5409	SLC7A8	ORF2	chr14:23639294:-:MIRc>chr14:23635749:-:ENST00000316902	chr14:23639294:->chr14:23635749:-	16	46
5410	SLC7A8	ORF2	chr14:23639294:-:MIRc>chr14:23635749:-:ENST00000469263	chr14:23639294:->chr14:23635749:-	16	46
5411	SLC7A8	ORF2	chr14:23639294:-:MIRc>chr14:23635749:-:ENST00000524758	chr14:23639294:->chr14:23635749:-	16	46
5412	TRPM1	ORF2	chr15:31327580:-:AluSz>chr15:31325143:-:ENST00000397795	chr15:31327580:->chr15:31325143:-	13	46
5413	TRPM1	ORF2	chr15:31327580:-:AluSz>chr15:31325143:-:ENST00000256552	chr15:31327580:->chr15:31325143:-	13	46
5414	TRPM1	ORF2	chr15:31327580:-:AluSz>chr15:31325143:-:ENST00000542188	chr15:31327580:->chr15:31325143:-	13	46
5415	TRPM1	ORF2	chr15:31327580:-:AluSz>chr15:31325143:-:ENST00000558768	chr15:31327580:->chr15:31325143:-	13	46
5416	TRPM1	ORF2	chr15:31327580:-:AluSz>chr15:31325143:-:ENST00000558445	chr15:31327580:->chr15:31325143:-	13	46
5417	ABCC5	ORF2	chr3:183642788:-:L2c>chr3:183639189:-:ENST00000334444	chr3:183642788:->chr3:183639189:-	11	45
5418	ABCC5	ORF2	chr3:183642788:-:L2c>chr3:183639189:-:ENST00000265586	chr3:183642788:->chr3:183639189:-	11	45
5419	TMPRSS3	ORF1	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000398405	chr21:43800574:->chr21:43800321:-	44	45
5420	TMPRSS3	ORF1	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000433957	chr21:43800574:->chr21:43800321:-	44	45
5421	TMPRSS3	ORF1	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000291532	chr21:43800574:->chr21:43800321:-	44	45
5422	TMPRSS3	ORF1	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000380399	chr21:43800574:->chr21:43800321:-	44	45
5423	TYROBP	ORF2	chr19:36405224:-:AluSx1>chr19:36398163:-:ENST00000424586	chr19:36405224:->chr19:36398163:-	9	45
5424	TYROBP	ORF2	chr19:36405224:-:AluSx1>chr19:36398163:-:ENST00000585901	chr19:36405224:->chr19:36398163:-	9	45
5425	TYROBP	ORF2	chr19:36405224:-:AluSx1>chr19:36398163:-:ENST00000544690	chr19:36405224:->chr19:36398163:-	9	45
5426	TYROBP	ORF2	chr19:36405224:-:AluSx1>chr19:36398163:-:ENST00000262629	chr19:36405224:->chr19:36398163:-	9	45
5427	TYROBP	ORF2	chr19:36405224:-:AluSx1>chr19:36398163:-:ENST00000589517	chr19:36405224:->chr19:36398163:-	9	45
5428	BACE2	ORF3	chr21:42486386:+:AluSx>chr21:42609440:+:ENST00000328735	chr21:42486386:+>chr21:42609440:+	32	45
5429	BACE2	ORF3	chr21:42486386:+:AluSx>chr21:42609440:+:ENST00000330333	chr21:42486386:+>chr21:42609440:+	32	45
5430	BACE2	ORF3	chr21:42486386:+:AluSx>chr21:42609440:+:ENST00000347667	chr21:42486386:+>chr21:42609440:+	32	45
5431	MYOF	ORF1	chr10:95133847:-:L1PA6>chr10:95132842:-:ENST00000463743	chr10:95133847:->chr10:95132842:-	33	45
5432	MYOF	ORF1	chr10:95133847:-:L1PA6>chr10:95132842:-:ENST00000358334	chr10:95133847:->chr10:95132842:-	33	45
5433	MYOF	ORF1	chr10:95133847:-:L1PA6>chr10:95132842:-:ENST00000359263	chr10:95133847:->chr10:95132842:-	33	45
5434	MYOF	ORF1	chr10:95133847:-:L1PA6>chr10:95132842:-:ENST00000371501	chr10:95133847:->chr10:95132842:-	33	45
5435	MYOF	ORF1	chr10:95133847:-:L1PA6>chr10:95132842:-:ENST00000371502	chr10:95133847:->chr10:95132842:-	33	45
5436	IGF1R	ORF1	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000268035	chr15:99433697:+>chr15:99434554:+	30	45
5437	IGF1R	ORF1	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000558762	chr15:99433697:+>chr15:99434554:+	30	45
5438	IGF1R	ORF1	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000558355	chr15:99433697:+>chr15:99434554:+	30	45
5439	SCNN1B	ORF2	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000343070	chr16:23365611:+>chr16:23366620:+	25	45
5440	SCNN1B	ORF2	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000307331	chr16:23365611:+>chr16:23366620:+	25	45
5441	SCNN1B	ORF2	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000564275	chr16:23365611:+>chr16:23366620:+	25	45
5442	SCNN1B	ORF2	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000568085	chr16:23365611:+>chr16:23366620:+	25	45
5443	NKAIN3	ORF1	chr8:63315263:+:THE1C>chr8:63492098:+:ENST00000523211	chr8:63315263:+>chr8:63492098:+	36	45
5444	NKAIN3	ORF1	chr8:63315263:+:THE1C>chr8:63492098:+:ENST00000524201	chr8:63315263:+>chr8:63492098:+	36	45
5445	NKAIN3	ORF1	chr8:63315263:+:THE1C>chr8:63492098:+:ENST00000328472	chr8:63315263:+>chr8:63492098:+	36	45
5446	C1orf186	ORF1	chr1:206277274:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206277274:->chr1:206243250:-	37	45
5447	BACE2	ORF2	chr21:42609191:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42609191:+>chr21:42609440:+	32	45
5448	BACE2	ORF2	chr21:42609191:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42609191:+>chr21:42609440:+	32	45
5449	BACE2	ORF2	chr21:42609191:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42609191:+>chr21:42609440:+	32	45
5450	PPAP2A	ORF2	chr5:54723765:-:AluSq>chr5:54721867:-:ENST00000264775	chr5:54723765:->chr5:54721867:-	9	45
5451	PPAP2A	ORF2	chr5:54723765:-:AluSq>chr5:54721867:-:ENST00000307259	chr5:54723765:->chr5:54721867:-	9	45
5452	NCAM1	ORF1	chr11:113100589:+:L1PA5>chr11:113102367:+:ENST00000533760	chr11:113100589:+>chr11:113102367:+	36	45
5453	NCAM1	ORF1	chr11:113100589:+:L1PA5>chr11:113102367:+:ENST00000524665	chr11:113100589:+>chr11:113102367:+	36	45

Table 15

5454	NCAM1	ORF1	chr11:113100589:+:L1PA5>chr11:113102367:+:ENST00000534015	chr11:113100589:+>chr11:113102367:+	36	45
5455	NCAM1	ORF1	chr11:113100589:+:L1PA5>chr11:113102367:+:ENST00000401611	chr11:113100589:+>chr11:113102367:+	36	45
5456	NCAM1	ORF1	chr11:113100589:+:L1PA5>chr11:113102367:+:ENST00000316851	chr11:113100589:+>chr11:113102367:+	36	45
5457	PVRL4	ORF1	chr1:161049877:-:MIRb>chr1:161049739:-:ENST00000368012	chr1:161049877:->chr1:161049739:-	38	44
5458	GPR98	ORF1	chr5:90249033:+:MIRb>chr5:90261232:+:ENST00000405460	chr5:90249033:+>chr5:90261232:+	3	44
5459	GPR98	ORF1	chr5:90249033:+:MIRb>chr5:90261232:+:ENST00000425867	chr5:90249033:+>chr5:90261232:+	3	44
5460	SLC28A1	ORF3	chr15:85469889:+:L1MC4a>chr15:85478257:+:ENST00000537216	chr15:85469889:+>chr15:85478257:+	38	44
5461	SLC28A1	ORF3	chr15:85469889:+:L1MC4a>chr15:85478257:+:ENST00000537624	chr15:85469889:+>chr15:85478257:+	38	44
5462	SLC28A1	ORF3	chr15:85469889:+:L1MC4a>chr15:85478257:+:ENST00000286749	chr15:85469889:+>chr15:85478257:+	38	44
5463	SLC28A1	ORF3	chr15:85469889:+:L1MC4a>chr15:85478257:+:ENST00000394573	chr15:85469889:+>chr15:85478257:+	38	44
5464	TNFRSF21	ORF1	chr6:47201962:-:AluSq2>chr6:47200730:-:ENST00000296861	chr6:47201962:->chr6:47200730:-	17	44
5465	CLEC2A	ORF1	chr12:10063312:-:HERVI-int>chr12:10051575:-:ENST00000339766	chr12:10063312:->chr12:10051575:-	22	44
5466	PVRL2	ORF1	chr19:45347340:+:MIRb>chr19:45368528:+:ENST00000252485	chr19:45347340:+>chr19:45368528:+	6	44
5467	PVRL2	ORF1	chr19:45347340:+:MIRb>chr19:45368528:+:ENST00000252483	chr19:45347340:+>chr19:45368528:+	6	44
5468	TRABD2B	ORF1	chr1:48256707:-:MIRb>chr1:48244216:-:ENST00000606738	chr1:48256707:->chr1:48244216:-	3	44
5469	ABCC1	ORF3	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000399410	chr16:16233287:+>chr16:16235030:+	8	44
5470	ABCC1	ORF3	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000345148	chr16:16233287:+>chr16:16235030:+	8	44
5471	ABCC1	ORF3	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000346370	chr16:16233287:+>chr16:16235030:+	8	44
5472	ABCC1	ORF3	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000349029	chr16:16233287:+>chr16:16235030:+	8	44
5473	ABCC1	ORF3	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000351154	chr16:16233287:+>chr16:16235030:+	8	44
5474	ABCC1	ORF3	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000399408	chr16:16233287:+>chr16:16235030:+	8	44
5475	ABCC1	ORF3	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000572882	chr16:16233287:+>chr16:16235030:+	8	44
5476	FLOT1	ORF1	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000454845	chr6:30708813:->chr6:30708368:-	17	44
5477	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000454845	chr6:30708813:->chr6:30708368:-	16	44
5478	LPAR1	ORF2	chr9:113773828:-:L3>chr9:113704448:-:ENST00000374431	chr9:113773828:->chr9:113704448:-	39	44
5479	LPAR1	ORF2	chr9:113773828:-:L3>chr9:113704448:-:ENST00000541779	chr9:113773828:->chr9:113704448:-	39	44
5480	LPAR1	ORF2	chr9:113773828:-:L3>chr9:113704448:-:ENST00000374430	chr9:113773828:->chr9:113704448:-	39	44
5481	LPAR1	ORF2	chr9:113773828:-:L3>chr9:113704448:-:ENST00000358883	chr9:113773828:->chr9:113704448:-	39	44
5482	LPAR1	ORF2	chr9:113773828:-:L3>chr9:113704448:-:ENST00000538760	chr9:113773828:->chr9:113704448:-	39	44
5483	LPAR1	ORF2	chr9:113773828:-:L3>chr9:113704448:-:ENST00000441240	chr9:113773828:->chr9:113704448:-	39	44
5484	SLC2A5	ORF1	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000377424	chr1:9128439:->chr1:9118309:-	4	44
5485	SLC2A5	ORF1	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000377414	chr1:9128439:->chr1:9118309:-	4	44
5486	SLC2A5	ORF1	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000484798	chr1:9128439:->chr1:9118309:-	4	44
5487	SLC2A5	ORF1	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000474145	chr1:9128439:->chr1:9118309:-	4	44
5488	SLC2A5	ORF1	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000479813	chr1:9128439:->chr1:9118309:-	4	44
5489	SLC2A5	ORF1	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000486632	chr1:9128439:->chr1:9118309:-	4	44
5490	SLC2A5	ORF1	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000487835	chr1:9128439:->chr1:9118309:-	4	44
5491	SLC2A5	ORF1	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000464985	chr1:9128439:->chr1:9118309:-	4	44
5492	SLC2A5	ORF1	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000473209	chr1:9128439:->chr1:9118309:-	4	44
5493	LAIR1	ORF1	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000436513	chr19:54880625:->chr19:54875937:-	29	44
5494	LAIR1	ORF1	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000420483	chr19:54880625:->chr19:54875937:-	29	44
5495	CELSR1	ORF2	chr22:46891300:-:Tigger3b>chr22:46860242:-:ENST00000262738	chr22:46891300:->chr22:46860242:-	23	44
5496	CELSR1	ORF2	chr22:46891300:-:Tigger3b>chr22:46860242:-:ENST00000395964	chr22:46891300:->chr22:46860242:-	23	44
5497	CELSR1	ORF2	chr22:46891300:-:Tigger3b>chr22:46860242:-:ENST00000454637	chr22:46891300:->chr22:46860242:-	23	44
5498	GYPC	ORF2	chr2:127421065:+:MIRc>chr2:127447831:+:ENST00000259254	chr2:127421065:+>chr2:127447831:+	42	44
5499	IMP4	ORF2	chr2:131058851:+:REP522>chr2:131102202:+:ENST00000456713	chr2:131058851:+>chr2:131102202:+	5	44
5500	ADTRP	ORF3	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000379415	chr6:11748704:->chr6:11735916:-	6	44
5501	ADTRP	ORF3	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000506810	chr6:11748704:->chr6:11735916:-	6	44
5502	APP	ORF3	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000346798	chr21:27438253:->chr21:27425664:-	42	44
5503	APP	ORF3	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000354192	chr21:27438253:->chr21:27425664:-	42	44
5504	APP	ORF3	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000348990	chr21:27438253:->chr21:27425664:-	42	44
5505	APP	ORF3	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000357903	chr21:27438253:->chr21:27425664:-	42	44
5506	APP	ORF3	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000358918	chr21:27438253:->chr21:27425664:-	42	44
5507	APP	ORF3	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000359726	chr21:27438253:->chr21:27425664:-	42	44
5508	APP	ORF3	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000448388	chr21:27438253:->chr21:27425664:-	42	44
5509	APP	ORF3	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000440126	chr21:27438253:->chr21:27425664:-	42	44
5510	APP	ORF3	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000439274	chr21:27438253:->chr21:27425664:-	42	44
5511	APP	ORF3	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000448850	chr21:27438253:->chr21:27425664:-	42	44
5512	SCNN1B	ORF2	chr16:23360640:+:AluJr>chr16:23364122:+:ENST00000343070	chr16:23360640:+>chr16:23364122:+	31	43
5513	SCNN1B	ORF2	chr16:23360640:+:AluJr>chr16:23364122:+:ENST00000307331	chr16:23360640:+>chr16:23364122:+	31	43
5514	SCNN1B	ORF2	chr16:23360640:+:AluJr>chr16:23364122:+:ENST00000564275	chr16:23360640:+>chr16:23364122:+	31	43
5515	SCNN1B	ORF2	chr16:23360640:+:AluJr>chr16:23364122:+:ENST00000568085	chr16:23360640:+>chr16:23364122:+	31	43
5516	SCNN1B	ORF2	chr16:23360640:+:AluJr>chr16:23364122:+:ENST00000568923	chr16:23360640:+>chr16:23364122:+	31	43
5517	NOX1	ORF2	chrX:100122222:-:AluYc>chrX:100118584:-:ENST00000372966	chrX:100122222:->chrX:100118584:-	28	43
5518	NOX1	ORF2	chrX:100122222:-:AluYc>chrX:100118584:-:ENST00000372964	chrX:100122222:->chrX:100118584:-	28	43
5519	NOX1	ORF2	chrX:100122222:-:AluYc>chrX:100118584:-:ENST00000217885	chrX:100122222:->chrX:100118584:-	28	43
5520	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474787:-:ENST00000395105	chr15:74475594:->chr15:74474787:-	4	43
5521	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474787:-:ENST00000423167	chr15:74475594:->chr15:74474787:-	4	43
5522	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474787:-:ENST00000323940	chr15:74475594:->chr15:74474787:-	4	43
5523	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474787:-:ENST00000449139	chr15:74475594:->chr15:74474787:-	4	43
5524	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474787:-:ENST00000416286	chr15:74475594:->chr15:74474787:-	4	43
5525	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474787:-:ENST00000535552	chr15:74475594:->chr15:74474787:-	4	43

Table 15

5526	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474787:-:ENST00000563965	chr15:74475594:->chr15:74474787:-	4	43
5527	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474787:-:ENST00000574278	chr15:74475594:->chr15:74474787:-	4	43
5528	SLCO4A1	ORF3	chr20:61301405:+:Tigger7>chr20:61303102:+:ENST00000217159	chr20:61301405:+>chr20:61303102:+	8	43
5529	SLCO4A1	ORF3	chr20:61301405:+:Tigger7>chr20:61303102:+:ENST00000370507	chr20:61301405:+>chr20:61303102:+	8	43
5530	SLCO4A1	ORF3	chr20:61301405:+:Tigger7>chr20:61303102:+:ENST00000451793	chr20:61301405:+>chr20:61303102:+	8	43
5531	IFNGR2	ORF3	chr21:34783881:+:MLT1D>chr21:34793787:+:ENST00000290219	chr21:34783881:+>chr21:34793787:+	30	43
5532	IFNGR2	ORF3	chr21:34783881:+:MLT1D>chr21:34793787:+:ENST00000381995	chr21:34783881:+>chr21:34793787:+	30	43
5533	IFNGR2	ORF3	chr21:34783881:+:MLT1D>chr21:34793787:+:ENST00000545369	chr21:34783881:+>chr21:34793787:+	30	43
5534	CD82	ORF3	chr11:44626051:+:MIRb>chr11:44626608:+:ENST00000524704	chr11:44626051:+>chr11:44626608:+	20	43
5535	SLC39A11	ORF3	chr17:70670643:-:L1MC4a>chr17:70645407:-:ENST00000255559	chr17:70670643:->chr17:70645407:-	6	43
5536	SLC39A11	ORF3	chr17:70670643:-:L1MC4a>chr17:70645407:-:ENST00000542342	chr17:70670643:->chr17:70645407:-	6	43
5537	SLC39A11	ORF3	chr17:70670643:-:L1MC4a>chr17:70645407:-:ENST00000582769	chr17:70670643:->chr17:70645407:-	6	43
5538	STRA6	ORF2	chr15:74475594:-:L3>chr15:74474801:-:ENST00000572785	chr15:74475594:->chr15:74474801:-	4	43
5539	HEG1	ORF3	chr3:124690838:-:AluJb>chr3:124689645:-:ENST00000311127	chr3:124690838:->chr3:124689645:-	34	43
5540	HEG1	ORF3	chr3:124690838:-:AluJb>chr3:124689645:-:ENST00000487661	chr3:124690838:->chr3:124689645:-	34	43
5541	CLEC2A	ORF2	chr12:10063312:-:HERVI-int>chr12:10051575:-:ENST00000339766	chr12:10063312:->chr12:10051575:-	19	43
5542	VAMP8	ORF3	chr2:85807766:+:MER115>chr2:85808699:+:ENST00000432071	chr2:85807766:+>chr2:85808699:+	23	43
5543	VAMP8	ORF3	chr2:85807766:+:MER115>chr2:85808699:+:ENST00000263864	chr2:85807766:+>chr2:85808699:+	23	43
5544	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000396966	chr12:6458996:->chr12:6458171:-	11	43
5545	TSPAN5	ORF3	chr4:99426046:-:MLT1A0>chr4:99408035:-:ENST00000508798	chr4:99426046:->chr4:99408035:-	28	43
5546	TSPAN5	ORF3	chr4:99426046:-:MLT1A0>chr4:99408035:-:ENST00000305798	chr4:99426046:->chr4:99408035:-	28	43
5547	TSPAN5	ORF3	chr4:99426046:-:MLT1A0>chr4:99408035:-:ENST00000515440	chr4:99426046:->chr4:99408035:-	28	43
5548	CELSR1	ORF2	chr22:46887031:-:MER20>chr22:46860242:-:ENST00000262738	chr22:46887031:->chr22:46860242:-	22	43
5549	CELSR1	ORF2	chr22:46887031:-:MER20>chr22:46860242:-:ENST00000395964	chr22:46887031:->chr22:46860242:-	22	43
5550	CELSR1	ORF2	chr22:46887031:-:MER20>chr22:46860242:-:ENST00000454637	chr22:46887031:->chr22:46860242:-	22	43
5551	EPHB2	ORF2	chr1:23107630:+:AluY>chr1:23107914:+:ENST00000544305	chr1:23107630:+>chr1:23107914:+	32	43
5552	EPHB2	ORF2	chr1:23107630:+:AluY>chr1:23107914:+:ENST00000374630	chr1:23107630:+>chr1:23107914:+	32	43
5553	EPHB2	ORF2	chr1:23107630:+:AluY>chr1:23107914:+:ENST00000400191	chr1:23107630:+>chr1:23107914:+	32	43
5554	EPHB2	ORF2	chr1:23107630:+:AluY>chr1:23107914:+:ENST00000374632	chr1:23107630:+>chr1:23107914:+	32	43
5555	EPHB2	ORF2	chr1:23107630:+:AluY>chr1:23107914:+:ENST00000374627	chr1:23107630:+>chr1:23107914:+	32	43
5556	SDC3	ORF3	chr1:31346686:-:MIRb>chr1:31346224:-:ENST00000336798	chr1:31346686:->chr1:31346224:-	15	43
5557	SDC3	ORF3	chr1:31346686:-:MIRb>chr1:31346224:-:ENST00000339394	chr1:31346686:->chr1:31346224:-	15	43
5558	CFTR	ORF2	chr7:117193207:+:MLT1A0>chr7:117355812:+:ENST00000600166	chr7:117193207:+>chr7:117355812:+	17	43
5559	SLC6A20	ORF1	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000353278	chr3:45821882:->chr3:45821592:-	3	43
5560	SLC6A20	ORF1	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000358525	chr3:45821882:->chr3:45821592:-	3	43
5561	SLC6A20	ORF1	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000456124	chr3:45821882:->chr3:45821592:-	3	43
5562	SLC6A20	ORF1	chr3:45821882:-:MIRb>chr3:45821592:-:ENST00000413781	chr3:45821882:->chr3:45821592:-	3	43
5563	PTPRZ1	ORF3	chr7:121615144:+:AluJb>chr7:121616227:+:ENST00000393386	chr7:121615144:+>chr7:121616227:+	19	43
5564	PTPRZ1	ORF3	chr7:121615144:+:AluJb>chr7:121616227:+:ENST00000449182	chr7:121615144:+>chr7:121616227:+	19	43
5565	LDLR	ORF1	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000558518	chr19:11230008:+>chr19:11230768:+	15	43
5566	LDLR	ORF1	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000557933	chr19:11230008:+>chr19:11230768:+	15	43
5567	LDLR	ORF1	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000455727	chr19:11230008:+>chr19:11230768:+	15	43
5568	LDLR	ORF1	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000535915	chr19:11230008:+>chr19:11230768:+	15	43
5569	LDLR	ORF1	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000545707	chr19:11230008:+>chr19:11230768:+	15	43
5570	LDLR	ORF1	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000558013	chr19:11230008:+>chr19:11230768:+	15	43
5571	LDLR	ORF1	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000252444	chr19:11230008:+>chr19:11230768:+	15	43
5572	LDLR	ORF1	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000559340	chr19:11230008:+>chr19:11230768:+	15	43
5573	ATP1A3	ORF2	chr19:42479404:-:AluSc8>chr19:42474642:-:ENST00000441343	chr19:42479404:->chr19:42474642:-	11	43
5574	ATP1A3	ORF2	chr19:42479404:-:AluSc8>chr19:42474642:-:ENST00000302102	chr19:42479404:->chr19:42474642:-	11	43
5575	ATP1A3	ORF2	chr19:42479404:-:AluSc8>chr19:42474642:-:ENST00000545399	chr19:42479404:->chr19:42474642:-	11	43
5576	ATP1A3	ORF2	chr19:42479404:-:AluSc8>chr19:42474642:-:ENST00000543770	chr19:42479404:->chr19:42474642:-	11	43
5577	ATP1A3	ORF2	chr19:42479404:-:AluSc8>chr19:42474642:-:ENST00000602133	chr19:42479404:->chr19:42474642:-	11	43
5578	CLSTN3	ORF2	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000541953	chr12:7284070:+>chr12:7285620:+	19	43
5579	CLSTN3	ORF2	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000266546	chr12:7284070:+>chr12:7285620:+	19	43
5580	CLSTN3	ORF2	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000539982	chr12:7284070:+>chr12:7285620:+	19	43
5581	CLSTN3	ORF2	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000537408	chr12:7284070:+>chr12:7285620:+	19	43
5582	SLC7A8	ORF2	chr14:23639294:-:MIRc>chr14:23635749:-:ENST00000525062	chr14:23639294:->chr14:23635749:-	16	43
5583	SLC7A8	ORF2	chr14:23642341:-:L2c>chr14:23635749:-:ENST00000525062	chr14:23642341:->chr14:23635749:-	15	43
5584	CD79A	ORF2	chr19:42382564:+:MIR>chr19:42383060:+:ENST00000221972	chr19:42382564:+>chr19:42383060:+	11	42
5585	CD79A	ORF2	chr19:42382564:+:MIR>chr19:42383060:+:ENST00000597454	chr19:42382564:+>chr19:42383060:+	11	42
5586	CD79A	ORF2	chr19:42382564:+:MIR>chr19:42383060:+:ENST00000444740	chr19:42382564:+>chr19:42383060:+	11	42
5587	TM7SF3	ORF1	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000545600	chr12:27153625:->chr12:27152581:-	22	42
5588	SLC17A3	ORF1	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000397060	chr6:25864286:->chr6:25862672:-	32	42
5589	SLC17A3	ORF1	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000361703	chr6:25864286:->chr6:25862672:-	32	42
5590	SLC17A3	ORF1	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000360657	chr6:25864286:->chr6:25862672:-	32	42
5591	SLC17A3	ORF1	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000506105	chr6:25864286:->chr6:25862672:-	32	42
5592	SLC17A3	ORF1	chr6:25864286:-:L2a>chr6:25862672:-:ENST00000449356	chr6:25864286:->chr6:25862672:-	32	42
5593	PTPRZ1	ORF2	chr7:121570251:+:L1MC>chr7:121608005:+:ENST00000393386	chr7:121570251:+>chr7:121608005:+	27	42
5594	PTPRZ1	ORF2	chr7:121570251:+:L1MC>chr7:121608005:+:ENST00000449182	chr7:121570251:+>chr7:121608005:+	27	42
5595	LRBA	ORF1	chr4:151647737:-:THE1D>chr4:151604869:-:ENST00000535741	chr4:151647737:->chr4:151604869:-	29	42
5596	LRBA	ORF1	chr4:151647737:-:THE1D>chr4:151604869:-:ENST00000510413	chr4:151647737:->chr4:151604869:-	29	42
5597	LRBA	ORF1	chr4:151647737:-:THE1D>chr4:151604869:-:ENST00000357115	chr4:151647737:->chr4:151604869:-	29	42

Table 15

5598	LRBA	ORF1	chr4:151647737:-:THE1D>chr4:151604869:-:ENST00000509835	chr4:151647737:->chr4:151604869:-	29	42
5599	LRBA	ORF1	chr4:151647737:-:THE1D>chr4:151604869:-:ENST00000507224	chr4:151647737:->chr4:151604869:-	29	42
5600	SYNE2	ORF2	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000357395	chr14:64549437:+>chr14:64554389:+	15	42
5601	SYNE2	ORF2	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000358025	chr14:64549437:+>chr14:64554389:+	15	42
5602	SYNE2	ORF2	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000344113	chr14:64549437:+>chr14:64554389:+	15	42
5603	SYNE2	ORF2	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000554584	chr14:64549437:+>chr14:64554389:+	15	42
5604	SYNE2	ORF2	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000555002	chr14:64549437:+>chr14:64554389:+	15	42
5605	SYNE2	ORF2	chr14:64549437:+:MLT1E1A>chr14:64554389:+:ENST00000394768	chr14:64549437:+>chr14:64554389:+	15	42
5606	GJC3	ORF2	chr7:99532778:-:THE1B>chr7:99521226:-:ENST00000312891	chr7:99532778:->chr7:99521226:-	37	42
5607	ITGA3	ORF1	chr17:48164185:+:AluSp>chr17:48165108:+:ENST00000320031	chr17:48164185:+>chr17:48165108:+	7	42
5608	ITGA3	ORF1	chr17:48164185:+:AluSp>chr17:48165108:+:ENST00000007722	chr17:48164185:+>chr17:48165108:+	7	42
5609	MUC4	ORF2	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000478156	chr3:195535201:->chr3:195518368:-	36	42
5610	MUC4	ORF2	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000463781	chr3:195535201:->chr3:195518368:-	36	42
5611	MUC4	ORF2	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000462323	chr3:195535201:->chr3:195518368:-	36	42
5612	MUC4	ORF2	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000466475	chr3:195535201:->chr3:195518368:-	36	42
5613	MUC4	ORF2	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000470451	chr3:195535201:->chr3:195518368:-	36	42
5614	MUC4	ORF2	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000475231	chr3:195535201:->chr3:195518368:-	36	42
5615	MUC4	ORF2	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000477086	chr3:195535201:->chr3:195518368:-	36	42
5616	MUC4	ORF2	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000477756	chr3:195535201:->chr3:195518368:-	36	42
5617	MUC4	ORF2	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000479406	chr3:195535201:->chr3:195518368:-	36	42
5618	MUC4	ORF2	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000480843	chr3:195535201:->chr3:195518368:-	36	42
5619	PDGFRA	ORF1	chr4:55096106:+:G-rich>chr4:55124924:+:ENST00000512143	chr4:55096106:+>chr4:55124924:+	5	42
5620	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474784:-:ENST00000395105	chr15:74475594:->chr15:74474784:-	4	42
5621	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474784:-:ENST00000423167	chr15:74475594:->chr15:74474784:-	4	42
5622	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474784:-:ENST00000323940	chr15:74475594:->chr15:74474784:-	4	42
5623	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474784:-:ENST00000449139	chr15:74475594:->chr15:74474784:-	4	42
5624	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474784:-:ENST00000416286	chr15:74475594:->chr15:74474784:-	4	42
5625	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474784:-:ENST00000535552	chr15:74475594:->chr15:74474784:-	4	42
5626	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474784:-:ENST00000563965	chr15:74475594:->chr15:74474784:-	4	42
5627	STRA6	ORF1	chr15:74475594:-:L3>chr15:74474784:-:ENST00000574278	chr15:74475594:->chr15:74474784:-	4	42
5628	APLP2	ORF1	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000533195	chr11:129977538:+>chr11:129979324:+	29	42
5629	APLP2	ORF1	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000533713	chr11:129977538:+>chr11:129979324:+	29	42
5630	APLP2	ORF1	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000534582	chr11:129977538:+>chr11:129979324:+	29	42
5631	APLP2	ORF1	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000528499	chr11:129977538:+>chr11:129979324:+	29	42
5632	APLP2	ORF1	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000263574	chr11:129977538:+>chr11:129979324:+	29	42
5633	APLP2	ORF1	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000345598	chr11:129977538:+>chr11:129979324:+	29	42
5634	APLP2	ORF1	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000338167	chr11:129977538:+>chr11:129979324:+	29	42
5635	APLP2	ORF1	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000278756	chr11:129977538:+>chr11:129979324:+	29	42
5636	CLDN15	ORF3	chr7:100877907:-:AluSz>chr7:100877723:-:ENST00000308344	chr7:100877907:->chr7:100877723:-	33	42
5637	CLDN15	ORF3	chr7:100877907:-:AluSz>chr7:100877723:-:ENST00000401528	chr7:100877907:->chr7:100877723:-	33	42
5638	CLDN15	ORF3	chr7:100877907:-:AluSz>chr7:100877723:-:ENST00000433833	chr7:100877907:->chr7:100877723:-	33	42
5639	ABHD2	ORF1	chr15:89717675:+:MER5A>chr15:89719043:+:ENST00000352732	chr15:89717675:+>chr15:89719043:+	11	42
5640	ABHD2	ORF1	chr15:89717675:+:MER5A>chr15:89719043:+:ENST00000565973	chr15:89717675:+>chr15:89719043:+	11	42
5641	ABHD2	ORF1	chr15:89717675:+:MER5A>chr15:89719043:+:ENST00000355100	chr15:89717675:+>chr15:89719043:+	11	42
5642	NTRK2	ORF3	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000376213	chr9:87294064:+>chr9:87317074:+	28	42
5643	NTRK2	ORF3	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000376214	chr9:87294064:+>chr9:87317074:+	28	42
5644	NTRK2	ORF3	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000395882	chr9:87294064:+>chr9:87317074:+	28	42
5645	NTRK2	ORF3	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000304053	chr9:87294064:+>chr9:87317074:+	28	42
5646	NTRK2	ORF3	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000376208	chr9:87294064:+>chr9:87317074:+	28	42
5647	NTRK2	ORF3	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000277120	chr9:87294064:+>chr9:87317074:+	28	42
5648	NTRK2	ORF3	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000323115	chr9:87294064:+>chr9:87317074:+	28	42
5649	NTRK2	ORF3	chr9:87294064:+:MLT1A0>chr9:87317074:+:ENST00000359847	chr9:87294064:+>chr9:87317074:+	28	42
5650	TENM2	ORF3	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000518659	chr5:167685690:+>chr5:167687288:+	29	42
5651	TENM2	ORF3	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000545108	chr5:167685690:+>chr5:167687288:+	29	42
5652	TENM2	ORF3	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000519204	chr5:167685690:+>chr5:167687288:+	29	42
5653	TENM2	ORF3	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000520394	chr5:167685690:+>chr5:167687288:+	29	42
5654	TENM2	ORF3	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000403607	chr5:167685690:+>chr5:167687288:+	29	42
5655	SLC47A2	ORF1	chr17:19608298:-:AluSx3>chr17:19607491:-:ENST00000325411	chr17:19608298:->chr17:19607491:-	6	42
5656	SLC47A2	ORF1	chr17:19608298:-:AluSx3>chr17:19607491:-:ENST00000350657	chr17:19608298:->chr17:19607491:-	6	42
5657	SLC47A2	ORF1	chr17:19608298:-:AluSx3>chr17:19607491:-:ENST00000433844	chr17:19608298:->chr17:19607491:-	6	42
5658	FGFR1	ORF2	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000434187	chr8:38291059:->chr8:38285953:-	18	42
5659	FGFR2	ORF3	chr10:123241584:-:AluSx3>chr10:123239627:-:ENST00000351936	chr10:123241584:->chr10:123239627:-	21	42
5660	FGFR2	ORF3	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000369061	chr10:123351280:->chr10:123325218:-	5	42
5661	FGFR2	ORF3	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000358487	chr10:123351280:->chr10:123325218:-	5	42
5662	FGFR2	ORF3	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000369060	chr10:123351280:->chr10:123325218:-	5	42
5663	FGFR2	ORF3	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000346997	chr10:123351280:->chr10:123325218:-	5	42
5664	FGFR2	ORF3	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000457416	chr10:123351280:->chr10:123325218:-	5	42
5665	FGFR2	ORF3	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000351936	chr10:123351280:->chr10:123325218:-	5	42
5666	FGFR2	ORF3	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000369056	chr10:123351280:->chr10:123325218:-	5	42
5667	FGFR2	ORF3	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000369058	chr10:123351280:->chr10:123325218:-	5	42
5668	FGFR2	ORF3	chr10:123351280:-:Charlie4z>chr10:123325218:-:ENST00000359354	chr10:123351280:->chr10:123325218:-	5	42
5669	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000263398	chr11:35250220:+>chr11:35250676:+	34	41

Table 15

5670	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000360158	chr11:35250220:+>chr11:35250676:+	34	41
5671	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000415148	chr11:35250220:+>chr11:35250676:+	34	41
5672	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000433354	chr11:35250220:+>chr11:35250676:+	34	41
5673	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000437706	chr11:35250220:+>chr11:35250676:+	34	41
5674	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000449691	chr11:35250220:+>chr11:35250676:+	34	41
5675	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000428726	chr11:35250220:+>chr11:35250676:+	34	41
5676	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000526669	chr11:35250220:+>chr11:35250676:+	34	41
5677	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000433892	chr11:35250220:+>chr11:35250676:+	34	41
5678	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000278386	chr11:35250220:+>chr11:35250676:+	34	41
5679	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000434472	chr11:35250220:+>chr11:35250676:+	34	41
5680	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000352818	chr11:35250220:+>chr11:35250676:+	34	41
5681	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000279452	chr11:35250220:+>chr11:35250676:+	34	41
5682	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000525688	chr11:35250220:+>chr11:35250676:+	34	41
5683	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000278385	chr11:35250220:+>chr11:35250676:+	34	41
5684	CD44	ORF3	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000525469	chr11:35250220:+>chr11:35250676:+	34	41
5685	EPCAM	ORF2	chr2:47610230:+:AluY>chr2:47612305:+:ENST00000405271	chr2:47610230:+>chr2:47612305:+	13	41
5686	EPCAM	ORF2	chr2:47610230:+:AluY>chr2:47612305:+:ENST00000456133	chr2:47610230:+>chr2:47612305:+	13	41
5687	EPCAM	ORF2	chr2:47610230:+:AluY>chr2:47612305:+:ENST00000263735	chr2:47610230:+>chr2:47612305:+	13	41
5688	HPN	ORF3	chr19:35548655:+:L1MA8>chr19:35556802:+:ENST00000262626	chr19:35548655:+>chr19:35556802:+	7	41
5689	HPN	ORF3	chr19:35548655:+:L1MA8>chr19:35556802:+:ENST00000392226	chr19:35548655:+>chr19:35556802:+	7	41
5690	HPN	ORF3	chr19:35548655:+:L1MA8>chr19:35556802:+:ENST00000597419	chr19:35548655:+>chr19:35556802:+	7	41
5691	CD74	ORF2	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000522246	chr5:149842358:->chr5:149786754:-	5	41
5692	SORL1	ORF1	chr11:121482999:+:L4>chr11:121483445:+:ENST00000260197	chr11:121482999:+>chr11:121483445:+	29	41
5693	SORL1	ORF1	chr11:121482999:+:L4>chr11:121483445:+:ENST00000525532	chr11:121482999:+>chr11:121483445:+	29	41
5694	SORL1	ORF1	chr11:121482999:+:L4>chr11:121483445:+:ENST00000532694	chr11:121482999:+>chr11:121483445:+	29	41
5695	SORL1	ORF1	chr11:121482999:+:L4>chr11:121483445:+:ENST00000534286	chr11:121482999:+>chr11:121483445:+	29	41
5696	SORL1	ORF1	chr11:121482999:+:L4>chr11:121483445:+:ENST00000527934	chr11:121482999:+>chr11:121483445:+	29	41
5697	SCNN1A	ORF1	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000360168	chr12:6517023:->chr12:6483811:-	39	41
5698	SCNN1A	ORF1	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000358945	chr12:6517023:->chr12:6483811:-	39	41
5699	SCNN1A	ORF1	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000228916	chr12:6517023:->chr12:6483811:-	39	41
5700	SCNN1A	ORF1	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000338748	chr12:6517023:->chr12:6483811:-	39	41
5701	SCNN1A	ORF1	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000396966	chr12:6517023:->chr12:6483811:-	39	41
5702	SCNN1A	ORF1	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000543768	chr12:6517023:->chr12:6483811:-	39	41
5703	SCNN1A	ORF1	chr12:6517023:-:AluSx>chr12:6483811:-:ENST00000536788	chr12:6517023:->chr12:6483811:-	39	41
5704	FOLH1	ORF3	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000525826	chr11:49229182:->chr11:49227724:-	6	41
5705	GUCY2C	ORF1	chr12:14862945:-:HERVH-int>chr12:14840997:-:ENST00000261170	chr12:14862945:->chr12:14840997:-	23	41
5706	CDH26	ORF3	chr20:58573800:+:MIRb>chr20:58574641:+:ENST00000456106	chr20:58573800:+>chr20:58574641:+	4	41
5707	PERP	ORF3	chr6:138423021:-:MER5A1>chr6:138417631:-:ENST00000421351	chr6:138423021:->chr6:138417631:-	38	41
5708	CDCP1	ORF3	chr3:45180844:-:MIRb>chr3:45160113:-:ENST00000296129	chr3:45180844:->chr3:45160113:-	25	41
5709	CDCP1	ORF3	chr3:45180844:-:MIRb>chr3:45160113:-:ENST00000425231	chr3:45180844:->chr3:45160113:-	25	41
5710	AMICA1	ORF1	chr11:118082875:-:MIRb>chr11:118081427:-:ENST00000527877	chr11:118082875:->chr11:118081427:-	10	41
5711	EPHB4	ORF1	chr7:100418218:-:Charlie4a>chr7:100417918:-:ENST00000360620	chr7:100418218:->chr7:100417918:-	19	41
5712	EPHB4	ORF1	chr7:100418218:-:Charlie4a>chr7:100417918:-:ENST00000358173	chr7:100418218:->chr7:100417918:-	19	41
5713	ABCC5	ORF3	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000334444	chr3:183707518:->chr3:183707171:-	23	41
5714	ABCC5	ORF3	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000437205	chr3:183707518:->chr3:183707171:-	23	41
5715	ABCC5	ORF3	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000265586	chr3:183707518:->chr3:183707171:-	23	41
5716	ABCC5	ORF3	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000427120	chr3:183707518:->chr3:183707171:-	23	41
5717	ABCC5	ORF3	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000382494	chr3:183707518:->chr3:183707171:-	23	41
5718	ABCC5	ORF3	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000392579	chr3:183707518:->chr3:183707171:-	23	41
5719	ABCC5	ORF3	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000443376	chr3:183707518:->chr3:183707171:-	23	41
5720	ABCC5	ORF3	chr3:183707518:-:L1MC2>chr3:183707171:-:ENST00000437341	chr3:183707518:->chr3:183707171:-	23	41
5721	SLC7A8	ORF2	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000316902	chr14:23607547:->chr14:23607233:-	15	41
5722	SLC7A8	ORF2	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000453702	chr14:23607547:->chr14:23607233:-	15	41
5723	SLC7A8	ORF2	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000529705	chr14:23607547:->chr14:23607233:-	15	41
5724	SLC7A8	ORF2	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000422941	chr14:23607547:->chr14:23607233:-	15	41
5725	TMIGD2	ORF1	chr19:4294283:-:AluSx1>chr19:4292882:-:ENST00000595645	chr19:4294283:->chr19:4292882:-	22	41
5726	TMIGD2	ORF1	chr19:4294283:-:AluSx1>chr19:4292882:-:ENST00000301272	chr19:4294283:->chr19:4292882:-	22	41
5727	TMIGD2	ORF1	chr19:4294283:-:AluSx1>chr19:4292882:-:ENST00000600114	chr19:4294283:->chr19:4292882:-	22	41
5728	TMIGD2	ORF1	chr19:4294283:-:AluSx1>chr19:4292882:-:ENST00000600349	chr19:4294283:->chr19:4292882:-	22	41
5729	LILRB4	ORF1	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000391736	chr19:55173998:+>chr19:55175292:+	3	41
5730	LILRB4	ORF1	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000270452	chr19:55173998:+>chr19:55175292:+	3	41
5731	LILRB4	ORF1	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000430952	chr19:55173998:+>chr19:55175292:+	3	41
5732	LILRB4	ORF1	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000391734	chr19:55173998:+>chr19:55175292:+	3	41
5733	LILRB4	ORF1	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000391733	chr19:55173998:+>chr19:55175292:+	3	41
5734	LILRB4	ORF1	chr19:55173998:+:MLT1D>chr19:55175292:+:ENST00000434286	chr19:55173998:+>chr19:55175292:+	3	41
5735	TMEM2	ORF2	chr9:74335407:-:AluSx1>chr9:74332995:-:ENST00000377044	chr9:74335407:->chr9:74332995:-	24	41
5736	TMEM2	ORF2	chr9:74335407:-:AluSx1>chr9:74332995:-:ENST00000377066	chr9:74335407:->chr9:74332995:-	24	41
5737	CA9	ORF1	chr9:35678160:+:AluY>chr9:35679182:+:ENST00000378357	chr9:35678160:+>chr9:35679182:+	23	40
5738	C1orf186	ORF2	chr1:206263869:-:Tigger4>chr1:206243250:-:ENST00000331555	chr1:206263869:->chr1:206243250:-	3	40
5739	GPM6A	ORF2	chr4:176567154:-:MLT1D>chr4:176561980:-:ENST00000280187	chr4:176567154:->chr4:176561980:-	25	40
5740	GPM6A	ORF2	chr4:176567154:-:MLT1D>chr4:176561980:-:ENST00000393658	chr4:176567154:->chr4:176561980:-	25	40
5741	GPM6A	ORF2	chr4:176567154:-:MLT1D>chr4:176561980:-:ENST00000506894	chr4:176567154:->chr4:176561980:-	25	40

Table 15

5742	GPM6A	ORF2	chr4:176567154:-:MLT1D>chr4:176561980:-:ENST00000515090	chr4:176567154:->chr4:176561980:-	25	40
5743	GPM6A	ORF2	chr4:176567154:-:MLT1D>chr4:176561980:-:ENST00000503397	chr4:176567154:->chr4:176561980:-	25	40
5744	SORL1	ORF3	chr11:121482999:+:L4>chr11:121483445:+:ENST00000260197	chr11:121482999:+>chr11:121483445:+	39	40
5745	SORL1	ORF3	chr11:121482999:+:L4>chr11:121483445:+:ENST00000525532	chr11:121482999:+>chr11:121483445:+	39	40
5746	SORL1	ORF3	chr11:121482999:+:L4>chr11:121483445:+:ENST00000532694	chr11:121482999:+>chr11:121483445:+	39	40
5747	SORL1	ORF3	chr11:121482999:+:L4>chr11:121483445:+:ENST00000534286	chr11:121482999:+>chr11:121483445:+	39	40
5748	SORL1	ORF3	chr11:121482999:+:L4>chr11:121483445:+:ENST00000527934	chr11:121482999:+>chr11:121483445:+	39	40
5749	CD81	ORF2	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000475945	chr11:2353285:+>chr11:2416688:+	25	40
5750	CD81	ORF2	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000263645	chr11:2353285:+>chr11:2416688:+	25	40
5751	CD81	ORF2	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000533417	chr11:2353285:+>chr11:2416688:+	25	40
5752	CD81	ORF2	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000492627	chr11:2353285:+>chr11:2416688:+	25	40
5753	CD81	ORF2	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000527343	chr11:2353285:+>chr11:2416688:+	25	40
5754	CD81	ORF2	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000464784	chr11:2353285:+>chr11:2416688:+	25	40
5755	CD81	ORF2	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000381036	chr11:2353285:+>chr11:2416688:+	25	40
5756	CD81	ORF2	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000492252	chr11:2353285:+>chr11:2416688:+	25	40
5757	CD81	ORF2	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000526072	chr11:2353285:+>chr11:2416688:+	25	40
5758	CD81	ORF2	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000481687	chr11:2353285:+>chr11:2416688:+	25	40
5759	BACE2	ORF2	chr21:42582959:+:MER49>chr21:42629085:+:ENST00000330333	chr21:42582959:+>chr21:42629085:+	34	40
5760	BACE2	ORF2	chr21:42582959:+:MER49>chr21:42629085:+:ENST00000347667	chr21:42582959:+>chr21:42629085:+	34	40
5761	FOLH1	ORF1	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000256999	chr11:49229182:->chr11:49227724:-	37	40
5762	FOLH1	ORF1	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000356696	chr11:49229182:->chr11:49227724:-	37	40
5763	FOLH1	ORF1	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000525826	chr11:49229182:->chr11:49227724:-	37	40
5764	FOLH1	ORF1	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000340334	chr11:49229182:->chr11:49227724:-	37	40
5765	FOLH1	ORF1	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000533034	chr11:49229182:->chr11:49227724:-	37	40
5766	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000332149	chr21:42883790:->chr21:42861520:-	31	40
5767	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000398585	chr21:42883790:->chr21:42861520:-	31	40
5768	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000458356	chr21:42883790:->chr21:42861520:-	31	40
5769	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000454499	chr21:42883790:->chr21:42861520:-	31	40
5770	TMPRSS2	ORF3	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000424093	chr21:42883790:->chr21:42861520:-	31	40
5771	F2RL1	ORF2	chr5:76108212:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108212:+>chr5:76128515:+	37	40
5772	SLC39A11	ORF1	chr17:70713885:-:MLT1C>chr17:70645407:-:ENST00000255559	chr17:70713885:->chr17:70645407:-	3	40
5773	SLC39A11	ORF1	chr17:70713885:-:MLT1C>chr17:70645407:-:ENST00000542342	chr17:70713885:->chr17:70645407:-	3	40
5774	SLC39A11	ORF1	chr17:70713885:-:MLT1C>chr17:70645407:-:ENST00000582769	chr17:70713885:->chr17:70645407:-	3	40
5775	NRG4	ORF1	chr15:76251363:-:AluJr>chr15:76248347:-:ENST00000566417	chr15:76251363:->chr15:76248347:-	10	40
5776	NRG4	ORF1	chr15:76251363:-:AluJr>chr15:76248347:-:ENST00000394907	chr15:76251363:->chr15:76248347:-	10	40
5777	ANO8	ORF2	chr19:17444964:-:MIR>chr19:17444609:-:ENST00000597643	chr19:17444964:->chr19:17444609:-	19	40
5778	ANO8	ORF2	chr19:17444964:-:MIR>chr19:17444609:-:ENST00000159087	chr19:17444964:->chr19:17444609:-	19	40
5779	ATP1B3	ORF2	chr3:141642345:+:MSTC>chr3:141644373:+:ENST00000286371	chr3:141642345:+>chr3:141644373:+	24	40
5780	ATP1B3	ORF2	chr3:141642345:+:MSTC>chr3:141644373:+:ENST00000462082	chr3:141642345:+>chr3:141644373:+	24	40
5781	SLC38A1	ORF3	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000398637	chr12:46585300:->chr12:46582854:-	6	40
5782	SLC38A1	ORF3	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000549049	chr12:46585300:->chr12:46582854:-	6	40
5783	SLC38A1	ORF3	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000439706	chr12:46585300:->chr12:46582854:-	6	40
5784	SLC38A1	ORF3	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000546893	chr12:46585300:->chr12:46582854:-	6	40
5785	SLC6A20	ORF3	chr3:45813050:-:MIR3>chr3:45812950:-:ENST00000353278	chr3:45813050:->chr3:45812950:-	5	40
5786	SLC6A20	ORF3	chr3:45813050:-:MIR3>chr3:45812950:-:ENST00000358525	chr3:45813050:->chr3:45812950:-	5	40
5787	SLC6A20	ORF3	chr3:45813050:-:MIR3>chr3:45812950:-:ENST00000456124	chr3:45813050:->chr3:45812950:-	5	40
5788	SLC6A20	ORF3	chr3:45813050:-:MIR3>chr3:45812950:-:ENST00000413781	chr3:45813050:->chr3:45812950:-	5	40
5789	UNC93A	ORF1	chr6:167724187:+:AluSz>chr6:167728675:+:ENST00000230256	chr6:167724187:+>chr6:167728675:+	33	40
5790	UNC93A	ORF1	chr6:167724187:+:AluSz>chr6:167728675:+:ENST00000366829	chr6:167724187:+>chr6:167728675:+	33	40
5791	NMUR2	ORF1	chr5:151774377:-:MIRc>chr5:151772062:-:ENST00000255262	chr5:151774377:->chr5:151772062:-	35	40
5792	CDH11	ORF2	chr16:64983489:-:AluSp>chr16:64982002:-:ENST00000394156	chr16:64983489:->chr16:64982002:-	37	40
5793	TSHR	ORF3	chr14:81545280:+:MLT1H1>chr14:81554298:+:ENST00000541158	chr14:81545280:+>chr14:81554298:+	27	40
5794	TSHR	ORF3	chr14:81545280:+:MLT1H1>chr14:81554298:+:ENST00000342443	chr14:81545280:+>chr14:81554298:+	27	40
5795	TSHR	ORF3	chr14:81545280:+:MLT1H1>chr14:81554298:+:ENST00000298171	chr14:81545280:+>chr14:81554298:+	27	40
5796	TSHR	ORF3	chr14:81545280:+:MLT1H1>chr14:81554298:+:ENST00000554263	chr14:81545280:+>chr14:81554298:+	27	40
5797	TSHR	ORF3	chr14:81545280:+:MLT1H1>chr14:81554298:+:ENST00000554435	chr14:81545280:+>chr14:81554298:+	27	40
5798	LDLR	ORF2	chr19:11230008:+:L1MB3>chr19:11230768:+:ENST00000559340	chr19:11230008:+>chr19:11230768:+	12	40
5799	TTYH1	ORF2	chr19:54945078:+:MIRb>chr19:54946807:+:ENST00000301194	chr19:54945078:+>chr19:54946807:+	19	39
5800	TTYH1	ORF2	chr19:54945078:+:MIRb>chr19:54946807:+:ENST00000376530	chr19:54945078:+>chr19:54946807:+	19	39
5801	TTYH1	ORF2	chr19:54945078:+:MIRb>chr19:54946807:+:ENST00000391739	chr19:54945078:+>chr19:54946807:+	19	39
5802	SLC6A3	ORF2	chr5:1408358:-:AluSc8>chr5:1406403:-:ENST00000270349	chr5:1408358:->chr5:1406403:-	28	39
5803	SLC6A3	ORF2	chr5:1408358:-:AluSc8>chr5:1406403:-:ENST00000453492	chr5:1408358:->chr5:1406403:-	28	39
5804	KIAA0922	ORF1	chr4:154546350:+:AluSz6>chr4:154547299:+:ENST00000440693	chr4:154546350:+>chr4:154547299:+	23	39
5805	KIAA0922	ORF1	chr4:154546350:+:AluSz6>chr4:154547299:+:ENST00000409663	chr4:154546350:+>chr4:154547299:+	23	39
5806	KIAA0922	ORF1	chr4:154546350:+:AluSz6>chr4:154547299:+:ENST00000409959	chr4:154546350:+>chr4:154547299:+	23	39
5807	KIAA0922	ORF1	chr4:154546350:+:AluSz6>chr4:154547299:+:ENST00000240487	chr4:154546350:+>chr4:154547299:+	23	39
5808	MAL2	ORF1	chr8:120233214:+:L2b>chr8:120233827:+:ENST00000276681	chr8:120233214:+>chr8:120233827:+	10	39
5809	ABCB4	ORF2	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000359206	chr7:87130521:->chr7:87101991:-	13	39
5810	ABCB4	ORF2	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000358400	chr7:87130521:->chr7:87101991:-	13	39
5811	ABCB4	ORF2	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000265723	chr7:87130521:->chr7:87101991:-	13	39
5812	ABCB4	ORF2	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000453593	chr7:87130521:->chr7:87101991:-	13	39
5813	ABCB4	ORF2	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000545634	chr7:87130521:->chr7:87101991:-	13	39

5814	ABCB4	ORF2	chr7:87130521:-:MSTA>chr7:87101991:-:ENST00000417608	chr7:87130521:->chr7:87101991:-	13	39
5815	VEZT	ORF1	chr12:95636040:+:AluJr>chr12:95637717:+:ENST00000551039	chr12:95636040:+>chr12:95637717:+	16	39
5816	STRA6	ORF2	chr15:74490651:-:AluJb>chr15:74490159:-:ENST00000573391	chr15:74490651:->chr15:74490159:-	11	39
5817	EDNRB	ORF1	chr13:78549606:-:Harlequin-int>chr13:78492759:-:ENST00000377211	chr13:78549606:->chr13:78492759:-	24	39
5818	BICC1	ORF3	chr10:60299167:+:L1PB3>chr10:60380615:+:ENST00000373886	chr10:60299167:+>chr10:60380615:+	36	39
5819	BTN3A2	ORF3	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000532865	chr6:26370250:+>chr6:26370550:+	30	39
5820	BTN3A2	ORF3	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000530653	chr6:26370250:+>chr6:26370550:+	30	39
5821	BTN3A2	ORF3	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000527422	chr6:26370250:+>chr6:26370550:+	30	39
5822	BTN3A2	ORF3	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000356386	chr6:26370250:+>chr6:26370550:+	30	39
5823	BTN3A2	ORF3	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000396934	chr6:26370250:+>chr6:26370550:+	30	39
5824	BTN3A2	ORF3	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000377708	chr6:26370250:+>chr6:26370550:+	30	39
5825	BTN3A2	ORF3	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000396948	chr6:26370250:+>chr6:26370550:+	30	39
5826	BTN3A2	ORF3	chr6:26370250:+:LTR33>chr6:26370550:+:ENST00000508906	chr6:26370250:+>chr6:26370550:+	30	39
5827	EPHB1	ORF1	chr3:134857845:+:L2b>chr3:134872994:+:ENST00000398015	chr3:134857845:+>chr3:134872994:+	4	39
5828	IFITM3	ORF1	chr11:321426:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321426:->chr11:320772:-	8	39
5829	ADCY3	ORF1	chr2:25109962:-:THE1C>chr2:25095588:-:ENST00000260600	chr2:25109962:->chr2:25095588:-	17	39
5830	ADCY3	ORF1	chr2:25109962:-:THE1C>chr2:25095588:-:ENST00000433852	chr2:25109962:->chr2:25095588:-	17	39
5831	GLRA3	ORF2	chr4:175796123:-:ERVL-E-int>chr4:175710094:-:ENST00000274093	chr4:175796123:->chr4:175710094:-	19	39
5832	GLRA3	ORF2	chr4:175796123:-:ERVL-E-int>chr4:175710094:-:ENST00000340217	chr4:175796123:->chr4:175710094:-	19	39
5833	BSG	ORF2	chr19:574231:+:AluSx>chr19:579500:+:ENST00000333511	chr19:574231:+>chr19:579500:+	32	39
5834	BSG	ORF2	chr19:574231:+:AluSx>chr19:579500:+:ENST00000353555	chr19:574231:+>chr19:579500:+	32	39
5835	SLC3A2	ORF2	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377892	chr11:62651559:+>chr11:62651929:+	9	39
5836	SLC3A2	ORF2	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377890	chr11:62651559:+>chr11:62651929:+	9	39
5837	SLC3A2	ORF2	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377891	chr11:62651559:+>chr11:62651929:+	9	39
5838	SLC3A2	ORF2	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000377889	chr11:62651559:+>chr11:62651929:+	9	39
5839	SLC3A2	ORF2	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000535296	chr11:62651559:+>chr11:62651929:+	9	39
5840	SLC3A2	ORF2	chr11:62651559:+:MIRb>chr11:62651929:+:ENST00000338663	chr11:62651559:+>chr11:62651929:+	9	39
5841	CD74	ORF1	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000377795	chr5:149792056:->chr5:149786887:-	24	39
5842	CD74	ORF1	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000353334	chr5:149792056:->chr5:149786887:-	24	39
5843	CD74	ORF1	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000518797	chr5:149792056:->chr5:149786887:-	24	39
5844	CD74	ORF1	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000524315	chr5:149792056:->chr5:149786887:-	24	39
5845	CD74	ORF1	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000009530	chr5:149792056:->chr5:149786887:-	24	39
5846	CD74	ORF1	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000523208	chr5:149792056:->chr5:149786887:-	24	39
5847	CD74	ORF1	chr5:149792056:-:MIR3>chr5:149786887:-:ENST00000522246	chr5:149792056:->chr5:149786887:-	24	39
5848	SLMAP	ORF1	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000295951	chr3:57808278:+>chr3:57817110:+	25	39
5849	SLMAP	ORF1	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000295952	chr3:57808278:+>chr3:57817110:+	25	39
5850	SLMAP	ORF1	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000383718	chr3:57808278:+>chr3:57817110:+	25	39
5851	SLMAP	ORF1	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000428312	chr3:57808278:+>chr3:57817110:+	25	39
5852	SLMAP	ORF1	chr3:57808278:+:L1M4>chr3:57817110:+:ENST00000449503	chr3:57808278:+>chr3:57817110:+	25	39
5853	CLSTN1	ORF2	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000377298	chr1:9806225:->chr1:9804701:-	4	39
5854	CLSTN1	ORF2	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000435891	chr1:9806225:->chr1:9804701:-	4	39
5855	CLSTN1	ORF2	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000361311	chr1:9806225:->chr1:9804701:-	4	39
5856	CLSTN1	ORF2	chr1:9806225:-:L1ME4a>chr1:9804701:-:ENST00000377288	chr1:9806225:->chr1:9804701:-	4	39
5857	EPCAM	ORF2	chr2:47610262:+:AluY>chr2:47612305:+:ENST00000405271	chr2:47610262:+>chr2:47612305:+	23	39
5858	EPCAM	ORF2	chr2:47610262:+:AluY>chr2:47612305:+:ENST00000456133	chr2:47610262:+>chr2:47612305:+	23	39
5859	EPCAM	ORF2	chr2:47610262:+:AluY>chr2:47612305:+:ENST00000263735	chr2:47610262:+>chr2:47612305:+	23	39
5860	EPHB2	ORF1	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000544305	chr1:23078200:+>chr1:23107914:+	28	39
5861	EPHB2	ORF1	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000374630	chr1:23078200:+>chr1:23107914:+	28	39
5862	EPHB2	ORF1	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000400191	chr1:23078200:+>chr1:23107914:+	28	39
5863	EPHB2	ORF1	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000374632	chr1:23078200:+>chr1:23107914:+	28	39
5864	EPHB2	ORF1	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000374627	chr1:23078200:+>chr1:23107914:+	28	39
5865	CD40	ORF1	chr20:44752755:+:AluSx1>chr20:44756777:+:ENST00000466205	chr20:44752755:+>chr20:44756777:+	33	39
5866	CDH19	ORF1	chr18:64205766:-:L1MC4a>chr18:64202344:-:ENST00000262150	chr18:64205766:->chr18:64202344:-	6	39
5867	CDH19	ORF1	chr18:64205766:-:L1MC4a>chr18:64202344:-:ENST00000579658	chr18:64205766:->chr18:64202344:-	6	39
5868	CDH19	ORF1	chr18:64205766:-:L1MC4a>chr18:64202344:-:ENST00000540086	chr18:64205766:->chr18:64202344:-	6	39
5869	CDH19	ORF1	chr18:64205766:-:L1MC4a>chr18:64202344:-:ENST00000454642	chr18:64205766:->chr18:64202344:-	6	39
5870	CLDN15	ORF1	chr7:100877907:-:AluSz>chr7:100877712:-:ENST00000308344	chr7:100877907:->chr7:100877712:-	33	39
5871	CLDN15	ORF1	chr7:100877907:-:AluSz>chr7:100877712:-:ENST00000401528	chr7:100877907:->chr7:100877712:-	33	39
5872	CLDN15	ORF1	chr7:100877907:-:AluSz>chr7:100877712:-:ENST00000433833	chr7:100877907:->chr7:100877712:-	33	39
5873	FCGRT	ORF1	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000221466	chr19:50028943:+>chr19:50029267:+	13	38
5874	FCGRT	ORF1	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000426395	chr19:50028943:+>chr19:50029267:+	13	38
5875	FCGRT	ORF1	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000599988	chr19:50028943:+>chr19:50029267:+	13	38
5876	FCGRT	ORF1	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000596975	chr19:50028943:+>chr19:50029267:+	13	38
5877	FCGRT	ORF1	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000598076	chr19:50028943:+>chr19:50029267:+	13	38
5878	GRID1	ORF2	chr10:87362906:-:MIRc>chr10:87362458:-:ENST00000327946	chr10:87362906:->chr10:87362458:-	20	38
5879	GRID1	ORF2	chr10:87362906:-:MIRc>chr10:87362458:-:ENST00000536331	chr10:87362906:->chr10:87362458:-	20	38
5880	TYROBP	ORF1	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000424586	chr19:36397240:->chr19:36395536:-	17	38
5881	TYROBP	ORF3	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000424586	chr19:36397240:->chr19:36395536:-	16	38
5882	TYROBP	ORF1	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000585901	chr19:36397240:->chr19:36395536:-	17	38
5883	TYROBP	ORF3	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000585901	chr19:36397240:->chr19:36395536:-	16	38
5884	TYROBP	ORF1	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000544690	chr19:36397240:->chr19:36395536:-	17	38
5885	TYROBP	ORF3	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000544690	chr19:36397240:->chr19:36395536:-	16	38

5886	TYROBP	ORF1	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000262629	chr19:36397240:->chr19:36395536:-	17	38
5887	TYROBP	ORF3	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000262629	chr19:36397240:->chr19:36395536:-	16	38
5888	TYROBP	ORF1	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000589517	chr19:36397240:->chr19:36395536:-	17	38
5889	TYROBP	ORF3	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000589517	chr19:36397240:->chr19:36395536:-	16	38
5890	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474787:-:ENST00000572785	chr15:74475594:->chr15:74474787:-	4	38
5891	ILDR1	ORF1	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000273691	chr3:121766690:->chr3:121726008:-	32	38
5892	ILDR1	ORF1	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000344209	chr3:121766690:->chr3:121726008:-	32	38
5893	ILDR1	ORF1	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000393631	chr3:121766690:->chr3:121726008:-	32	38
5894	ILDR1	ORF1	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000462014	chr3:121766690:->chr3:121726008:-	32	38
5895	EDNRB	ORF3	chr13:78549606:-:Harlequin-int>chr13:78492759:-:ENST00000377211	chr13:78549606:->chr13:78492759:-	36	38
5896	SGCE	ORF2	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000265735	chr7:94270209:->chr7:94259153:-	7	38
5897	SGCE	ORF2	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000445866	chr7:94270209:->chr7:94259153:-	7	38
5898	SGCE	ORF2	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000447873	chr7:94270209:->chr7:94259153:-	7	38
5899	SGCE	ORF2	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000428696	chr7:94270209:->chr7:94259153:-	7	38
5900	SGCE	ORF2	chr7:94270209:-:AluSx>chr7:94259153:-:ENST00000415788	chr7:94270209:->chr7:94259153:-	7	38
5901	IGF1R	ORF3	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000268035	chr15:99433697:+>chr15:99434554:+	3	38
5902	IGF1R	ORF3	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000558762	chr15:99433697:+>chr15:99434554:+	3	38
5903	IGF1R	ORF3	chr15:99433697:+:MER41A>chr15:99434554:+:ENST00000558355	chr15:99433697:+>chr15:99434554:+	3	38
5904	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000315576	chr19:14876876:->chr19:14876616:-	26	38
5905	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000346057	chr19:14876876:->chr19:14876616:-	26	38
5906	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000353876	chr19:14876876:->chr19:14876616:-	26	38
5907	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000392967	chr19:14876876:->chr19:14876616:-	26	38
5908	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000596991	chr19:14876876:->chr19:14876616:-	26	38
5909	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000392965	chr19:14876876:->chr19:14876616:-	26	38
5910	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000594076	chr19:14876876:->chr19:14876616:-	26	38
5911	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000594294	chr19:14876876:->chr19:14876616:-	26	38
5912	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000601345	chr19:14876876:->chr19:14876616:-	26	38
5913	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000595208	chr19:14876876:->chr19:14876616:-	26	38
5914	EMR2	ORF3	chr19:14876876:-:MamRep38>chr19:14876616:-:ENST00000392962	chr19:14876876:->chr19:14876616:-	26	38
5915	LPAR1	ORF2	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000374431	chr9:113706404:->chr9:113704448:-	34	38
5916	LPAR1	ORF2	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000541779	chr9:113706404:->chr9:113704448:-	34	38
5917	LPAR1	ORF2	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000374430	chr9:113706404:->chr9:113704448:-	34	38
5918	LPAR1	ORF2	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000358883	chr9:113706404:->chr9:113704448:-	34	38
5919	LPAR1	ORF2	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000538760	chr9:113706404:->chr9:113704448:-	34	38
5920	LPAR1	ORF2	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000441240	chr9:113706404:->chr9:113704448:-	34	38
5921	CDH3	ORF1	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000264012	chr16:68711459:+>chr16:68712037:+	33	38
5922	CDH3	ORF1	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000429102	chr16:68711459:+>chr16:68712037:+	33	38
5923	CDH3	ORF1	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000542274	chr16:68711459:+>chr16:68712037:+	33	38
5924	CDH3	ORF1	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000581171	chr16:68711459:+>chr16:68712037:+	33	38
5925	CDH3	ORF1	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000566808	chr16:68711459:+>chr16:68712037:+	33	38
5926	NET1	ORF1	chr10:5454816:+:G-rich>chr10:5468618:+:ENST00000355029	chr10:5454816:+>chr10:5468618:+	8	38
5927	C9orf135	ORF1	chr9:72501289:+:MER44C>chr9:72501754:+:ENST00000377197	chr9:72501289:+>chr9:72501754:+	24	38
5928	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000456996	chr2:87028634:->chr2:87013094:-	21	38
5929	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000352580	chr2:87028634:->chr2:87013094:-	21	38
5930	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000283635	chr2:87028634:->chr2:87013094:-	21	38
5931	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000409511	chr2:87028634:->chr2:87013094:-	21	38
5932	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000538832	chr2:87028634:->chr2:87013094:-	21	38
5933	CD8A	ORF1	chr2:87028634:-:AluJb>chr2:87013094:-:ENST00000409781	chr2:87028634:->chr2:87013094:-	21	38
5934	TMEM63B	ORF2	chr6:44119935:+:MIR3>chr6:44120330:+:ENST00000259746	chr6:44119935:+>chr6:44120330:+	23	38
5935	TMEM63B	ORF2	chr6:44119935:+:MIR3>chr6:44120330:+:ENST00000323267	chr6:44119935:+>chr6:44120330:+	23	38
5936	TMEM63B	ORF2	chr6:44119935:+:MIR3>chr6:44120330:+:ENST00000371893	chr6:44119935:+>chr6:44120330:+	23	38
5937	TMEM63B	ORF2	chr6:44119935:+:MIR3>chr6:44120330:+:ENST00000533121	chr6:44119935:+>chr6:44120330:+	23	38
5938	KCNK1	ORF1	chr1:233790730:+:MLT1A0-int>chr1:233802341:+:ENST00000366621	chr1:233790730:+>chr1:233802341:+	8	38
5939	KCNK1	ORF1	chr1:233790730:+:MLT1A0-int>chr1:233802341:+:ENST00000366620	chr1:233790730:+>chr1:233802341:+	8	38
5940	KCNK1	ORF1	chr1:233790730:+:MLT1A0-int>chr1:233802341:+:ENST00000446915	chr1:233790730:+>chr1:233802341:+	8	38
5941	IFITM3	ORF3	chr11:321465:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321465:->chr11:320772:-	7	38
5942	IFITM3	ORF3	chr11:322557:-:LTR76>chr11:320772:-:ENST00000399808	chr11:322557:->chr11:320772:-	7	38
5943	IFITM3	ORF3	chr11:321387:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321387:->chr11:320772:-	7	38
5944	CADM2	ORF2	chr3:85827743:+:THE1D>chr3:85851197:+:ENST00000383699	chr3:85827743:+>chr3:85851197:+	31	38
5945	CADM2	ORF2	chr3:85827743:+:THE1D>chr3:85851197:+:ENST00000407528	chr3:85827743:+>chr3:85851197:+	31	38
5946	CADM2	ORF2	chr3:85827743:+:THE1D>chr3:85851197:+:ENST00000405615	chr3:85827743:+>chr3:85851197:+	31	38
5947	GRAMD1A	ORF1	chr19:35503234:+:MIR>chr19:35504160:+:ENST00000599564	chr19:35503234:+>chr19:35504160:+	36	38
5948	GRAMD1A	ORF1	chr19:35503234:+:MIR>chr19:35504160:+:ENST00000317991	chr19:35503234:+>chr19:35504160:+	36	38
5949	GRAMD1A	ORF1	chr19:35503234:+:MIR>chr19:35504160:+:ENST00000411896	chr19:35503234:+>chr19:35504160:+	36	38
5950	ABCC1	ORF2	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000399410	chr16:16171648:+>chr16:16173209:+	8	38
5951	ABCC1	ORF2	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000345148	chr16:16171648:+>chr16:16173209:+	8	38
5952	ABCC1	ORF2	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000346370	chr16:16171648:+>chr16:16173209:+	8	38
5953	ABCC1	ORF2	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000349029	chr16:16171648:+>chr16:16173209:+	8	38
5954	ABCC1	ORF2	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000351154	chr16:16171648:+>chr16:16173209:+	8	38
5955	ABCC1	ORF2	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000399408	chr16:16171648:+>chr16:16173209:+	8	38
5956	ABCC1	ORF2	chr16:16171648:+:AluSx>chr16:16173209:+:ENST00000572882	chr16:16171648:+>chr16:16173209:+	8	38
5957	MAL2	ORF1	chr8:120233211:+:L2b>chr8:120233827:+:ENST00000276681	chr8:120233211:+>chr8:120233827:+	9	38

Table 15

5958	ASTN2	ORF3	chr9:119602972:-:SVA_D>chr9:119583062:-:ENST00000373996	chr9:119602972:->chr9:119583062:-	36	38
5959	ASTN2	ORF3	chr9:119602972:-:SVA_D>chr9:119583062:-:ENST00000313400	chr9:119602972:->chr9:119583062:-	36	38
5960	ASTN2	ORF3	chr9:119602972:-:SVA_D>chr9:119583062:-:ENST00000373986	chr9:119602972:->chr9:119583062:-	36	38
5961	ASTN2	ORF3	chr9:119602972:-:SVA_D>chr9:119583062:-:ENST00000361209	chr9:119602972:->chr9:119583062:-	36	38
5962	SLC2A1	ORF2	chr1:43409590:-:MIR3>chr1:43408992:-:ENST00000426263	chr1:43409590:->chr1:43408992:-	36	38
5963	SLC2A1	ORF2	chr1:43409590:-:MIR3>chr1:43408992:-:ENST00000415851	chr1:43409590:->chr1:43408992:-	36	38
5964	SLC2A1	ORF2	chr1:43409590:-:MIR3>chr1:43408992:-:ENST00000372500	chr1:43409590:->chr1:43408992:-	36	38
5965	TMEM114	ORF2	chr16:8635031:-:THE1B>chr16:8620007:-:ENST00000568335	chr16:8635031:->chr16:8620007:-	36	38
5966	ERBB2	ORF2	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000584601	chr17:37863725:+>chr17:37864574:+	5	38
5967	ERBB2	ORF2	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000578199	chr17:37863725:+>chr17:37864574:+	5	38
5968	ERBB2	ORF2	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000406381	chr17:37863725:+>chr17:37864574:+	5	38
5969	ERBB2	ORF2	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000541774	chr17:37863725:+>chr17:37864574:+	5	38
5970	ERBB2	ORF2	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000540147	chr17:37863725:+>chr17:37864574:+	5	38
5971	ERBB2	ORF2	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000584450	chr17:37863725:+>chr17:37864574:+	5	38
5972	ERBB2	ORF2	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000269571	chr17:37863725:+>chr17:37864574:+	5	38
5973	ERBB2	ORF2	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000578709	chr17:37863725:+>chr17:37864574:+	5	38
5974	ERBB2	ORF2	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000584099	chr17:37863725:+>chr17:37864574:+	5	38
5975	ERBB2	ORF2	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000540042	chr17:37863725:+>chr17:37864574:+	5	38
5976	CD40	ORF3	chr20:44752755:+:AluSx1>chr20:44756777:+:ENST00000466205	chr20:44752755:+>chr20:44756777:+	32	38
5977	TRPC7	ORF2	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000355180	chr5:135562544:->chr5:135561943:-	7	38
5978	TRPC7	ORF2	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000426057	chr5:135562544:->chr5:135561943:-	7	38
5979	TRPC7	ORF2	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000513104	chr5:135562544:->chr5:135561943:-	7	38
5980	TRPC7	ORF2	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000352189	chr5:135562544:->chr5:135561943:-	7	38
5981	TRPC7	ORF2	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000378459	chr5:135562544:->chr5:135561943:-	7	38
5982	TRPC7	ORF2	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000502753	chr5:135562544:->chr5:135561943:-	7	38
5983	APCDD1	ORF2	chr18:10479692:+:MIRc>chr18:10485459:+:ENST00000579685	chr18:10479692:+>chr18:10485459:+	8	37
5984	SLC7A8	ORF1	chr14:23636484:-:MIRc>chr14:23635749:-:ENST00000525062	chr14:23636484:->chr14:23635749:-	9	37
5985	EPCAM	ORF3	chr2:47610230:+:AluY>chr2:47612305:+:ENST00000405271	chr2:47610230:+>chr2:47612305:+	21	37
5986	EPCAM	ORF3	chr2:47610230:+:AluY>chr2:47612305:+:ENST00000456133	chr2:47610230:+>chr2:47612305:+	21	37
5987	EPCAM	ORF3	chr2:47610230:+:AluY>chr2:47612305:+:ENST00000263735	chr2:47610230:+>chr2:47612305:+	21	37
5988	SYT7	ORF1	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000545053	chr11:61296834:->chr11:61295564:-	10	37
5989	TRAC	ORF3	chr14:22973970:+:AluJr4>chr14:23016447:+:ENST00000478163	chr14:22973970:+>chr14:23016447:+	32	37
5990	GJC3	ORF1	chr7:99532778:-:THE1B>chr7:99521226:-:ENST00000312891	chr7:99532778:->chr7:99521226:-	18	37
5991	BICC1	ORF2	chr10:60376727:+:HERVL18-int>chr10:60380615:+:ENST00000373886	chr10:60376727:+>chr10:60380615:+	7	37
5992	SLC9A1	ORF2	chr1:27461002:-:MIRb>chr1:27440777:-:ENST00000374084	chr1:27461002:->chr1:27440777:-	19	37
5993	SLC9A1	ORF3	chr1:27461002:-:MIRb>chr1:27440777:-:ENST00000374084	chr1:27461002:->chr1:27440777:-	19	37
5994	SLC4A11	ORF3	chr20:3219491:-:MER45A>chr20:3218234:-:ENST00000380056	chr20:3219491:->chr20:3218234:-	17	37
5995	SLC4A11	ORF3	chr20:3219491:-:MER45A>chr20:3218234:-:ENST00000380059	chr20:3219491:->chr20:3218234:-	17	37
5996	SLC4A11	ORF3	chr20:3219491:-:MER45A>chr20:3218234:-:ENST00000539553	chr20:3219491:->chr20:3218234:-	17	37
5997	FAP	ORF2	chr2:163040253:-:MIR3>chr2:163039978:-:ENST00000188790	chr2:163040253:->chr2:163039978:-	29	37
5998	FAP	ORF2	chr2:163040253:-:MIR3>chr2:163039978:-:ENST00000443424	chr2:163040253:->chr2:163039978:-	29	37
5999	ROS1	ORF2	chr6:117763560:-:THE1B>chr6:117739669:-:ENST00000368507	chr6:117763560:->chr6:117739669:-	33	37
6000	ROS1	ORF2	chr6:117763560:-:THE1B>chr6:117739669:-:ENST00000368508	chr6:117763560:->chr6:117739669:-	33	37
6001	TSPAN14	ORF2	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000429989	chr10:82214127:+>chr10:82264484:+	11	37
6002	TSPAN14	ORF2	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000372158	chr10:82214127:+>chr10:82264484:+	11	37
6003	TSPAN14	ORF2	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000341863	chr10:82214127:+>chr10:82264484:+	11	37
6004	TSPAN14	ORF2	chr10:82214127:+:GC_rich>chr10:82264484:+:ENST00000372156	chr10:82214127:+>chr10:82264484:+	11	37
6005	SLC3A2	ORF3	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000377892	chr11:62649740:+>chr11:62650380:+	8	37
6006	SLC3A2	ORF3	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000377890	chr11:62649740:+>chr11:62650380:+	8	37
6007	SLC3A2	ORF3	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000377891	chr11:62649740:+>chr11:62650380:+	8	37
6008	SLC3A2	ORF3	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000377889	chr11:62649740:+>chr11:62650380:+	8	37
6009	SLC3A2	ORF3	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000535296	chr11:62649740:+>chr11:62650380:+	8	37
6010	SLC3A2	ORF3	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000338663	chr11:62649740:+>chr11:62650380:+	8	37
6011	C19orf26	ORF2	chr19:1232910:-:MIR3>chr19:1231274:-:ENST00000590083	chr19:1232910:->chr19:1231274:-	22	37
6012	C19orf26	ORF2	chr19:1232910:-:MIR3>chr19:1231274:-:ENST00000382477	chr19:1232910:->chr19:1231274:-	22	37
6013	C19orf26	ORF2	chr19:1232910:-:MIR3>chr19:1231274:-:ENST00000215376	chr19:1232910:->chr19:1231274:-	22	37
6014	ABHD2	ORF2	chr15:89737498:+:AluSz>chr15:89738458:+:ENST00000352732	chr15:89737498:+>chr15:89738458:+	8	37
6015	ABHD2	ORF2	chr15:89737498:+:AluSz>chr15:89738458:+:ENST00000565973	chr15:89737498:+>chr15:89738458:+	8	37
6016	ABHD2	ORF2	chr15:89737498:+:AluSz>chr15:89738458:+:ENST00000355100	chr15:89737498:+>chr15:89738458:+	8	37
6017	SERINC5	ORF2	chr5:79421482:-:L2c>chr5:79409448:-:ENST00000507668	chr5:79421482:->chr5:79409448:-	29	37
6018	NTRK2	ORF3	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000376213	chr9:87325380:+>chr9:87325552:+	3	37
6019	NTRK2	ORF3	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000376214	chr9:87325380:+>chr9:87325552:+	3	37
6020	NTRK2	ORF3	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000395882	chr9:87325380:+>chr9:87325552:+	3	37
6021	NTRK2	ORF3	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000304053	chr9:87325380:+>chr9:87325552:+	3	37
6022	NTRK2	ORF3	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000376208	chr9:87325380:+>chr9:87325552:+	3	37
6023	NTRK2	ORF3	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000277120	chr9:87325380:+>chr9:87325552:+	3	37
6024	NTRK2	ORF3	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000323115	chr9:87325380:+>chr9:87325552:+	3	37
6025	NTRK2	ORF3	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000359847	chr9:87325380:+>chr9:87325552:+	3	37
6026	STRA6	ORF3	chr15:74475594:-:L3>chr15:74474784:-:ENST00000572785	chr15:74475594:->chr15:74474784:-	4	37
6027	CFTR	ORF2	chr7:117316035:+:MSTD>chr7:117355812:+:ENST00000600166	chr7:117316035:+>chr7:117355812:+	11	37
6028	CFTR	ORF3	chr7:117318113:+:MER5B>chr7:117355812:+:ENST00000600166	chr7:117318113:+>chr7:117355812:+	4	37
6029	ZNRF3	ORF3	chr22:29425207:+:MER115>chr22:29438483:+:ENST00000544604	chr22:29425207:+>chr22:29438483:+	23	37

Table 15

6030	ZNRF3	ORF3	chr22:29425207:+:MER115>chr22:29438483:+:ENST00000332811	chr22:29425207:+>chr22:29438483:+	23	37
6031	ZNRF3	ORF3	chr22:29425207:+:MER115>chr22:29438483:+:ENST00000402174	chr22:29425207:+>chr22:29438483:+	23	37
6032	ZNRF3	ORF3	chr22:29425207:+:MER115>chr22:29438483:+:ENST00000406323	chr22:29425207:+>chr22:29438483:+	23	37
6033	TMPRSS9	ORF3	chr19:2393529:+:LTR12C>chr19:2396554:+:ENST00000332578	chr19:2393529:+>chr19:2396554:+	7	37
6034	LAIR1	ORF3	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000436513	chr19:54880625:->chr19:54875937:-	4	37
6035	LAIR1	ORF3	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000420483	chr19:54880625:->chr19:54875937:-	4	37
6036	CD164	ORF2	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000512821	chr6:109692741:->chr6:109691670:-	3	37
6037	VAMP5	ORF1	chr2:85811992:+:MIR>chr2:85818852:+:ENST00000306384	chr2:85811992:+>chr2:85818852:+	18	37
6038	ABCC2	ORF3	chr10:101601215:+:AluJb>chr10:101601724:+:ENST00000370449	chr10:101601215:+>chr10:101601724:+	13	37
6039	CRB1	ORF1	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000535699	chr1:197412237:+>chr1:197446794:+	34	37
6040	CRB1	ORF1	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000538660	chr1:197412237:+>chr1:197446794:+	34	37
6041	CRB1	ORF1	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000367400	chr1:197412237:+>chr1:197446794:+	34	37
6042	CRB1	ORF1	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000367399	chr1:197412237:+>chr1:197446794:+	34	37
6043	CRB1	ORF1	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000544212	chr1:197412237:+>chr1:197446794:+	34	37
6044	SGCD	ORF2	chr5:156125774:+:MIRb>chr5:156184592:+:ENST00000517913	chr5:156125774:+>chr5:156184592:+	29	37
6045	SGCD	ORF2	chr5:156125774:+:MIRb>chr5:156184592:+:ENST00000435422	chr5:156125774:+>chr5:156184592:+	29	37
6046	SGCD	ORF2	chr5:156125774:+:MIRb>chr5:156184592:+:ENST00000447401	chr5:156125774:+>chr5:156184592:+	29	37
6047	SGCD	ORF2	chr5:156125774:+:MIRb>chr5:156184592:+:ENST00000337851	chr5:156125774:+>chr5:156184592:+	29	37
6048	FCGRT	ORF2	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000221466	chr19:50028943:+>chr19:50029267:+	12	36
6049	FCGRT	ORF2	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000426395	chr19:50028943:+>chr19:50029267:+	12	36
6050	FCGRT	ORF2	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000599988	chr19:50028943:+>chr19:50029267:+	12	36
6051	FCGRT	ORF2	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000596975	chr19:50028943:+>chr19:50029267:+	12	36
6052	FCGRT	ORF2	chr19:50028943:+:(CAGAGA)n>chr19:50029267:+:ENST00000598076	chr19:50028943:+>chr19:50029267:+	12	36
6053	SLC7A8	ORF3	chr14:23636484:-:MIRc>chr14:23635749:-:ENST00000316902	chr14:23636484:->chr14:23635749:-	6	36
6054	SLC7A8	ORF3	chr14:23636484:-:MIRc>chr14:23635749:-:ENST00000469263	chr14:23636484:->chr14:23635749:-	6	36
6055	SLC7A8	ORF3	chr14:23636484:-:MIRc>chr14:23635749:-:ENST00000524758	chr14:23636484:->chr14:23635749:-	6	36
6056	FLOT1	ORF1	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000376389	chr6:30708853:->chr6:30708575:-	3	36
6057	FLOT1	ORF1	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000456573	chr6:30708853:->chr6:30708575:-	3	36
6058	FLOT1	ORF1	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000413165	chr6:30708853:->chr6:30708575:-	3	36
6059	FLOT1	ORF1	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000438162	chr6:30708853:->chr6:30708575:-	3	36
6060	FLOT1	ORF1	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000445853	chr6:30708853:->chr6:30708575:-	3	36
6061	FLOT1	ORF1	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000416018	chr6:30708853:->chr6:30708575:-	3	36
6062	FLOT1	ORF1	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000454845	chr6:30708853:->chr6:30708575:-	3	36
6063	ATP10D	ORF1	chr4:47584978:+:AluJr>chr4:47589036:+:ENST00000273859	chr4:47584978:+>chr4:47589036:+	26	36
6064	SLC8A1	ORF2	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000406785	chr2:40465674:->chr2:40404995:-	31	36
6065	SLC8A1	ORF2	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000407929	chr2:40465674:->chr2:40404995:-	31	36
6066	SLC8A1	ORF2	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000402441	chr2:40465674:->chr2:40404995:-	31	36
6067	SLC8A1	ORF2	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000405269	chr2:40465674:->chr2:40404995:-	31	36
6068	SLC8A1	ORF2	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000406391	chr2:40465674:->chr2:40404995:-	31	36
6069	SLC8A1	ORF2	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000408028	chr2:40465674:->chr2:40404995:-	31	36
6070	SLC8A1	ORF2	chr2:40465674:-:L1PA2>chr2:40404995:-:ENST00000542024	chr2:40465674:->chr2:40404995:-	31	36
6071	SLC16A3	ORF1	chr17:80217685:+:L1M>chr17:80218775:+:ENST00000583025	chr17:80217685:+>chr17:80218775:+	16	36
6072	BACE2	ORF1	chr21:42597622:+:L1ME2>chr21:42598193:+:ENST00000328735	chr21:42597622:+>chr21:42598193:+	14	36
6073	BACE2	ORF1	chr21:42597622:+:L1ME2>chr21:42598193:+:ENST00000330333	chr21:42597622:+>chr21:42598193:+	14	36
6074	BACE2	ORF1	chr21:42597622:+:L1ME2>chr21:42598193:+:ENST00000347667	chr21:42597622:+>chr21:42598193:+	14	36
6075	GABRA3	ORF3	chrX:151410406:-:L1PA2>chrX:151393317:-:ENST00000370314	chrX:151410406:->chrX:151393317:-	31	36
6076	GABRA3	ORF3	chrX:151410406:-:L1PA2>chrX:151393317:-:ENST00000535043	chrX:151410406:->chrX:151393317:-	31	36
6077	NRXN1	ORF3	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000342183	chr2:50243636:->chr2:50170929:-	7	36
6078	NRXN1	ORF3	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000412315	chr2:50243636:->chr2:50170929:-	7	36
6079	NRXN1	ORF3	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000378262	chr2:50243636:->chr2:50170929:-	7	36
6080	NRXN1	ORF3	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000401710	chr2:50243636:->chr2:50170929:-	7	36
6081	NRXN1	ORF3	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000404971	chr2:50243636:->chr2:50170929:-	7	36
6082	NRXN1	ORF3	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000406316	chr2:50243636:->chr2:50170929:-	7	36
6083	NRXN1	ORF3	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000405472	chr2:50243636:->chr2:50170929:-	7	36
6084	NRXN1	ORF3	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000401669	chr2:50243636:->chr2:50170929:-	7	36
6085	NRXN1	ORF3	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000402717	chr2:50243636:->chr2:50170929:-	7	36
6086	NRXN1	ORF3	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000406859	chr2:50243636:->chr2:50170929:-	7	36
6087	ERBB2	ORF1	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000584601	chr17:37864193:+>chr17:37864574:+	20	36
6088	ERBB2	ORF1	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000578199	chr17:37864193:+>chr17:37864574:+	20	36
6089	ERBB2	ORF1	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000406381	chr17:37864193:+>chr17:37864574:+	20	36
6090	ERBB2	ORF1	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000541774	chr17:37864193:+>chr17:37864574:+	20	36
6091	ERBB2	ORF1	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000540147	chr17:37864193:+>chr17:37864574:+	20	36
6092	ERBB2	ORF1	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000584450	chr17:37864193:+>chr17:37864574:+	20	36
6093	ERBB2	ORF1	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000269571	chr17:37864193:+>chr17:37864574:+	20	36
6094	ERBB2	ORF1	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000578709	chr17:37864193:+>chr17:37864574:+	20	36
6095	ERBB2	ORF1	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000584099	chr17:37864193:+>chr17:37864574:+	20	36
6096	ERBB2	ORF1	chr17:37864193:+:AluSp>chr17:37864574:+:ENST00000540042	chr17:37864193:+>chr17:37864574:+	20	36
6097	ABHD2	ORF3	chr15:89737498:+:AluSz>chr15:89738458:+:ENST00000352732	chr15:89737498:+>chr15:89738458:+	16	36
6098	ABHD2	ORF3	chr15:89737498:+:AluSz>chr15:89738458:+:ENST00000565973	chr15:89737498:+>chr15:89738458:+	16	36
6099	ABHD2	ORF3	chr15:89737498:+:AluSz>chr15:89738458:+:ENST00000355100	chr15:89737498:+>chr15:89738458:+	16	36
6100	SCNN1A	ORF2	chr12:6458996:-:AluY>chr12:6458171:-:ENST00000396966	chr12:6458996:->chr12:6458171:-	4	36
6101	CLEC12A	ORF1	chr12:10105636:+:SVA_F>chr12:10124176:+:ENST00000355690	chr12:10105636:+>chr12:10124176:+	27	36

6102	CLEC12A	ORF3	chr12:10105596:+:SVA_F>chr12:10124176:+:ENST00000355690	chr12:10105596:+>chr12:10124176:+	27	36
6103	ABCB5	ORF1	chr7:20708050:+:SVA_E>chr7:20721128:+:ENST00000404938	chr7:20708050:+>chr7:20721128:+	26	36
6104	ABCB5	ORF1	chr7:20708050:+:SVA_E>chr7:20721128:+:ENST00000258738	chr7:20708050:+>chr7:20721128:+	26	36
6105	CRB1	ORF1	chr1:197412237:+:AluSx>chr1:197446678:+:ENST00000448952	chr1:197412237:+>chr1:197446678:+	34	36
6106	ZDHHC5	ORF3	chr11:57452387:+:AluSx1>chr11:57455980:+:ENST00000527985	chr11:57452387:+>chr11:57455980:+	16	36
6107	ZDHHC5	ORF3	chr11:57452387:+:AluSx1>chr11:57455980:+:ENST00000287169	chr11:57452387:+>chr11:57455980:+	16	36
6108	ZDHHC5	ORF3	chr11:57452387:+:AluSx1>chr11:57455980:+:ENST00000529447	chr11:57452387:+>chr11:57455980:+	16	36
6109	CDH6	ORF1	chr5:31283267:+:MER20>chr5:31294121:+:ENST00000514738	chr5:31283267:+>chr5:31294121:+	25	35
6110	CDH6	ORF1	chr5:31283267:+:MER20>chr5:31294121:+:ENST00000265071	chr5:31283267:+>chr5:31294121:+	25	35
6111	GPRC5B	ORF2	chr16:19893237:-:MIR3>chr16:19884168:-:ENST00000537135	chr16:19893237:->chr16:19884168:-	7	35
6112	NRG4	ORF3	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000472094	chr15:76298078:->chr15:76261565:-	33	35
6113	NRG4	ORF3	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000568073	chr15:76298078:->chr15:76261565:-	33	35
6114	NRG4	ORF3	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000562114	chr15:76298078:->chr15:76261565:-	33	35
6115	NRG4	ORF3	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000567936	chr15:76298078:->chr15:76261565:-	33	35
6116	NRG4	ORF3	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000498750	chr15:76298078:->chr15:76261565:-	33	35
6117	NRG4	ORF3	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000567126	chr15:76298078:->chr15:76261565:-	33	35
6118	NRG4	ORF1	chr15:76251363:-:AluJr>chr15:76248347:-:ENST00000563910	chr15:76251363:->chr15:76248347:-	10	35
6119	CNIH3	ORF2	chr1:224861660:+:MIRb>chr1:224868660:+:ENST00000272133	chr1:224861660:+>chr1:224868660:+	31	35
6120	ADORA2B	ORF1	chr17:15873282:+:L2c>chr17:15877993:+:ENST00000304222	chr17:15873282:+>chr17:15877993:+	9	35
6121	FGFR1	ORF2	chr8:38320623:-:AluJb>chr8:38315052:-:ENST00000425967	chr8:38320623:->chr8:38315052:-	11	35
6122	GABBR2	ORF1	chr9:101067129:-:AluJb>chr9:101065705:-:ENST00000259455	chr9:101067129:->chr9:101065705:-	7	35
6123	GPR37L1	ORF3	chr1:202036765:+:ERV3-16A3_I-int>chr1:202096869:+:ENST00000367282	chr1:202036765:+>chr1:202096869:+	6	35
6124	ADAM9	ORF1	chr8:38946750:+:AluSx3>chr8:38947566:+:ENST00000487273	chr8:38946750:+>chr8:38947566:+	34	35
6125	ADAM9	ORF1	chr8:38946750:+:AluSx3>chr8:38947566:+:ENST00000379917	chr8:38946750:+>chr8:38947566:+	34	35
6126	ADAM9	ORF1	chr8:38946750:+:AluSx3>chr8:38947566:+:ENST00000468065	chr8:38946750:+>chr8:38947566:+	34	35
6127	MEGF11	ORF1	chr15:66277564:-:MIRb>chr15:66274826:-:ENST00000409699	chr15:66277564:->chr15:66274826:-	12	35
6128	MEGF11	ORF1	chr15:66277564:-:MIRb>chr15:66274826:-:ENST00000288745	chr15:66277564:->chr15:66274826:-	12	35
6129	MEGF11	ORF1	chr15:66277564:-:MIRb>chr15:66274826:-:ENST00000360698	chr15:66277564:->chr15:66274826:-	12	35
6130	MEGF11	ORF1	chr15:66277564:-:MIRb>chr15:66274826:-:ENST00000395625	chr15:66277564:->chr15:66274826:-	12	35
6131	MEGF11	ORF1	chr15:66277564:-:MIRb>chr15:66274826:-:ENST00000422354	chr15:66277564:->chr15:66274826:-	12	35
6132	EPHB2	ORF1	chr1:23107630:+:AluY>chr1:23107914:+:ENST00000544305	chr1:23107630:+>chr1:23107914:+	33	35
6133	EPHB2	ORF1	chr1:23107630:+:AluY>chr1:23107914:+:ENST00000374630	chr1:23107630:+>chr1:23107914:+	33	35
6134	EPHB2	ORF1	chr1:23107630:+:AluY>chr1:23107914:+:ENST00000400191	chr1:23107630:+>chr1:23107914:+	33	35
6135	EPHB2	ORF1	chr1:23107630:+:AluY>chr1:23107914:+:ENST00000374632	chr1:23107630:+>chr1:23107914:+	33	35
6136	EPHB2	ORF1	chr1:23107630:+:AluY>chr1:23107914:+:ENST00000374627	chr1:23107630:+>chr1:23107914:+	33	35
6137	GPM6A	ORF1	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000280187	chr4:176868796:->chr4:176622918:-	18	35
6138	GPM6A	ORF1	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000393658	chr4:176868796:->chr4:176622918:-	18	35
6139	GPM6A	ORF1	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000506894	chr4:176868796:->chr4:176622918:-	18	35
6140	GPM6A	ORF1	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000515090	chr4:176868796:->chr4:176622918:-	18	35
6141	GPM6A	ORF1	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000503397	chr4:176868796:->chr4:176622918:-	18	35
6142	GPM6A	ORF1	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000513365	chr4:176868796:->chr4:176622918:-	18	35
6143	GPM6A	ORF1	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000505304	chr4:176868796:->chr4:176622918:-	18	35
6144	CFTR	ORF2	chr7:117318113:+:MER5B>chr7:117355812:+:ENST00000600166	chr7:117318113:+>chr7:117355812:+	9	35
6145	PLGRKT	ORF2	chr9:5439143:-:LTR33>chr9:5361888:-:ENST00000223864	chr9:5439143:->chr9:5361888:-	26	35
6146	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708368:-:ENST00000454845	chr6:30708813:->chr6:30708368:-	7	35
6147	MTNR1B	ORF1	chr11:92710953:+:L2c>chr11:92714613:+:ENST00000257068	chr11:92710953:+>chr11:92714613:+	30	35
6148	CDH11	ORF1	chr16:64983489:-:AluSp>chr16:64982002:-:ENST00000268603	chr16:64983489:->chr16:64982002:-	15	35
6149	CDH11	ORF1	chr16:64983489:-:AluSp>chr16:64982002:-:ENST00000566827	chr16:64983489:->chr16:64982002:-	15	35
6150	PTPRZ1	ORF1	chr7:121556146:+:AluSc>chr7:121568210:+:ENST00000393386	chr7:121556146:+>chr7:121568210:+	11	35
6151	PTPRZ1	ORF1	chr7:121556146:+:AluSc>chr7:121568210:+:ENST00000449182	chr7:121556146:+>chr7:121568210:+	11	35
6152	SLCO2B1	ORF3	chr11:74751566:+:HERVE_a-int>chr11:74873700:+:ENST00000289575	chr11:74751566:+>chr11:74873700:+	31	35
6153	TMIGD2	ORF1	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000595645	chr19:4294301:->chr19:4292882:-	16	35
6154	TMIGD2	ORF1	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000301272	chr19:4294301:->chr19:4292882:-	16	35
6155	TMIGD2	ORF1	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000600114	chr19:4294301:->chr19:4292882:-	16	35
6156	TMIGD2	ORF1	chr19:4294301:-:AluSx1>chr19:4292882:-:ENST00000600349	chr19:4294301:->chr19:4292882:-	16	35
6157	SLC16A7	ORF2	chr12:60163113:+:Tigger1>chr12:60165000:+:ENST00000552432	chr12:60163113:+>chr12:60165000:+	33	35
6158	SLC16A7	ORF2	chr12:60163113:+:Tigger1>chr12:60165000:+:ENST00000547379	chr12:60163113:+>chr12:60165000:+	33	35
6159	SLC16A7	ORF2	chr12:60163113:+:Tigger1>chr12:60165000:+:ENST00000552024	chr12:60163113:+>chr12:60165000:+	33	35
6160	SLC16A7	ORF2	chr12:60163113:+:Tigger1>chr12:60165000:+:ENST00000548610	chr12:60163113:+>chr12:60165000:+	33	35
6161	SLC16A7	ORF2	chr12:60163113:+:Tigger1>chr12:60165000:+:ENST00000261187	chr12:60163113:+>chr12:60165000:+	33	35
6162	LDLR	ORF3	chr19:11230510:+:AluSq>chr19:11230768:+:ENST00000559340	chr19:11230510:+>chr19:11230768:+	6	35
6163	TNFRSF21	ORF3	chr6:47216659:-:MIR>chr6:47202634:-:ENST00000296861	chr6:47216659:->chr6:47202634:-	29	35
6164	CD74	ORF1	chr5:149842358:-:L2a>chr5:149786754:-:ENST00000522246	chr5:149842358:->chr5:149786754:-	10	34
6165	MCOLN1	ORF3	chr19:7590196:+:AluSx1>chr19:7591325:+:ENST00000264079	chr19:7590196:+>chr19:7591325:+	22	34
6166	MCOLN1	ORF3	chr19:7590196:+:AluSx1>chr19:7591325:+:ENST00000601003	chr19:7590196:+>chr19:7591325:+	22	34
6167	ADORA2B	ORF2	chr17:15873143:+:L2c>chr17:15877993:+:ENST00000304222	chr17:15873143:+>chr17:15877993:+	8	34
6168	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000423113	chr10:33246154:->chr10:33224486:-	11	34
6169	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000396033	chr10:33246154:->chr10:33224486:-	11	34
6170	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000302278	chr10:33246154:->chr10:33224486:-	11	34
6171	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000374956	chr10:33246154:->chr10:33224486:-	11	34
6172	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000480226	chr10:33246154:->chr10:33224486:-	11	34
6173	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000488494	chr10:33246154:->chr10:33224486:-	11	34

Table 15

6174	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000534049	chr10:33246154:->chr10:33224486:-	11	34
6175	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000437302	chr10:33246154:->chr10:33224486:-	11	34
6176	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000475184	chr10:33246154:->chr10:33224486:-	11	34
6177	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000528877	chr10:33246154:->chr10:33224486:-	11	34
6178	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000417122	chr10:33246154:->chr10:33224486:-	11	34
6179	ITGB1	ORF3	chr10:33246154:-:MIRc>chr10:33224486:-:ENST00000414670	chr10:33246154:->chr10:33224486:-	11	34
6180	TNFRSF21	ORF1	chr6:47226424:-:AluSz>chr6:47221257:-:ENST00000296861	chr6:47226424:->chr6:47221257:-	7	34
6181	AXL	ORF3	chr19:41732817:+:AluJb>chr19:41736872:+:ENST00000301178	chr19:41732817:+>chr19:41736872:+	33	34
6182	AXL	ORF3	chr19:41732817:+:AluJb>chr19:41736872:+:ENST00000359092	chr19:41732817:+>chr19:41736872:+	33	34
6183	LAT	ORF2	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000395461	chr16:29000300:+>chr16:29000848:+	27	34
6184	LAT	ORF2	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000564277	chr16:29000300:+>chr16:29000848:+	27	34
6185	LAT	ORF2	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000395456	chr16:29000300:+>chr16:29000848:+	27	34
6186	LAT	ORF2	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000454369	chr16:29000300:+>chr16:29000848:+	27	34
6187	LAT	ORF2	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000360872	chr16:29000300:+>chr16:29000848:+	27	34
6188	LAT	ORF2	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000354453	chr16:29000300:+>chr16:29000848:+	27	34
6189	LAT	ORF2	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000566177	chr16:29000300:+>chr16:29000848:+	27	34
6190	LAT	ORF2	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000570232	chr16:29000300:+>chr16:29000848:+	27	34
6191	BACE2	ORF1	chr21:42597622:+:L1ME2>chr21:42598199:+:ENST00000328735	chr21:42597622:+>chr21:42598199:+	14	34
6192	BACE2	ORF1	chr21:42597622:+:L1ME2>chr21:42598199:+:ENST00000330333	chr21:42597622:+>chr21:42598199:+	14	34
6193	BACE2	ORF1	chr21:42597622:+:L1ME2>chr21:42598199:+:ENST00000347667	chr21:42597622:+>chr21:42598199:+	14	34
6194	PTPRU	ORF3	chr1:29648148:+:MIRb>chr1:29649883:+:ENST00000345512	chr1:29648148:+>chr1:29649883:+	4	34
6195	PTPRU	ORF3	chr1:29648148:+:MIRb>chr1:29649883:+:ENST00000373779	chr1:29648148:+>chr1:29649883:+	4	34
6196	PTPRU	ORF3	chr1:29648148:+:MIRb>chr1:29649883:+:ENST00000323874	chr1:29648148:+>chr1:29649883:+	4	34
6197	PTPRU	ORF3	chr1:29648148:+:MIRb>chr1:29649883:+:ENST00000356870	chr1:29648148:+>chr1:29649883:+	4	34
6198	PTPRU	ORF3	chr1:29648148:+:MIRb>chr1:29649883:+:ENST00000428026	chr1:29648148:+>chr1:29649883:+	4	34
6199	PTPRU	ORF3	chr1:29648148:+:MIRb>chr1:29649883:+:ENST00000460170	chr1:29648148:+>chr1:29649883:+	4	34
6200	SERINC5	ORF1	chr5:79421482:-:L2c>chr5:79410474:-:ENST00000509193	chr5:79421482:->chr5:79410474:-	20	34
6201	BACE2	ORF3	chr21:42609159:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42609159:+>chr21:42609440:+	21	34
6202	BACE2	ORF3	chr21:42609159:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42609159:+>chr21:42609440:+	21	34
6203	BACE2	ORF3	chr21:42609159:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42609159:+>chr21:42609440:+	21	34
6204	SCARB1	ORF3	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000339570	chr12:125344729:->chr12:125302253:-	3	34
6205	SCARB1	ORF3	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000415380	chr12:125344729:->chr12:125302253:-	3	34
6206	SCARB1	ORF3	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000261693	chr12:125344729:->chr12:125302253:-	3	34
6207	SCARB1	ORF3	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000546215	chr12:125344729:->chr12:125302253:-	3	34
6208	SCARB1	ORF3	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000541205	chr12:125344729:->chr12:125302253:-	3	34
6209	SCARB1	ORF3	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000540495	chr12:125344729:->chr12:125302253:-	3	34
6210	SCARB1	ORF3	chr12:125344729:-:AluSx>chr12:125302253:-:ENST00000545493	chr12:125344729:->chr12:125302253:-	3	34
6211	FZD6	ORF3	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000522566	chr8:104325460:+>chr8:104330818:+	7	34
6212	FZD6	ORF3	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000358755	chr8:104325460:+>chr8:104330818:+	7	34
6213	FZD6	ORF3	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000522484	chr8:104325460:+>chr8:104330818:+	7	34
6214	FZD6	ORF3	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000523933	chr8:104325460:+>chr8:104330818:+	7	34
6215	FZD6	ORF3	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000523739	chr8:104325460:+>chr8:104330818:+	7	34
6216	ITGB1	ORF1	chr10:33224275:-:L2>chr10:33217099:-:ENST00000423113	chr10:33224275:->chr10:33217099:-	19	34
6217	ITGB1	ORF1	chr10:33224275:-:L2>chr10:33217099:-:ENST00000396033	chr10:33224275:->chr10:33217099:-	19	34
6218	ITGB1	ORF1	chr10:33224275:-:L2>chr10:33217099:-:ENST00000302278	chr10:33224275:->chr10:33217099:-	19	34
6219	ITGB1	ORF1	chr10:33224275:-:L2>chr10:33217099:-:ENST00000374956	chr10:33224275:->chr10:33217099:-	19	34
6220	APCDD1	ORF3	chr18:10479692:+:MIRc>chr18:10485459:+:ENST00000355285	chr18:10479692:+>chr18:10485459:+	4	33
6221	APCDD1	ORF3	chr18:10479692:+:MIRc>chr18:10485459:+:ENST00000423585	chr18:10479692:+>chr18:10485459:+	4	33
6222	APCDD1	ORF3	chr18:10479692:+:MIRc>chr18:10485459:+:ENST00000579685	chr18:10479692:+>chr18:10485459:+	4	33
6223	BRI3	ORF2	chr7:97907153:+:AluSp>chr7:97911663:+:ENST00000539286	chr7:97907153:+>chr7:97911663:+	6	33
6224	BRI3	ORF2	chr7:97907153:+:AluSp>chr7:97911663:+:ENST00000297290	chr7:97907153:+>chr7:97911663:+	6	33
6225	FCGR3A	ORF2	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000367969	chr1:161519206:->chr1:161518821:-	4	33
6226	FCGR3A	ORF2	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000436743	chr1:161519206:->chr1:161518821:-	4	33
6227	FCGR3A	ORF2	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000367967	chr1:161519206:->chr1:161518821:-	4	33
6228	SLC7A8	ORF3	chr14:23636484:-:MIRc>chr14:23635749:-:ENST00000525062	chr14:23636484:->chr14:23635749:-	6	33
6229	TTYH1	ORF2	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000423529	chr19:54930864:+>chr19:54932451:+	22	33
6230	TTYH1	ORF2	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000301194	chr19:54930864:+>chr19:54932451:+	22	33
6231	TTYH1	ORF2	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000376530	chr19:54930864:+>chr19:54932451:+	22	33
6232	TTYH1	ORF2	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000445095	chr19:54930864:+>chr19:54932451:+	22	33
6233	TTYH1	ORF2	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000391739	chr19:54930864:+>chr19:54932451:+	22	33
6234	TTYH1	ORF2	chr19:54930864:+:MIRb>chr19:54932451:+:ENST00000376531	chr19:54930864:+>chr19:54932451:+	22	33
6235	EPCAM	ORF1	chr2:47610230:+:AluY>chr2:47612305:+:ENST00000405271	chr2:47610230:+>chr2:47612305:+	22	33
6236	EPCAM	ORF1	chr2:47610230:+:AluY>chr2:47612305:+:ENST00000456133	chr2:47610230:+>chr2:47612305:+	22	33
6237	EPCAM	ORF1	chr2:47610230:+:AluY>chr2:47612305:+:ENST00000263735	chr2:47610230:+>chr2:47612305:+	22	33
6238	TM7SF3	ORF2	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000545600	chr12:27153625:->chr12:27152581:-	13	33
6239	PKHD1	ORF1	chr6:51817226:-:L2b>chr6:51799120:-:ENST00000371117	chr6:51817226:->chr6:51799120:-	30	33
6240	PKHD1	ORF1	chr6:51817226:-:L2b>chr6:51799120:-:ENST00000340994	chr6:51817226:->chr6:51799120:-	30	33
6241	TRPM1	ORF3	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000397795	chr15:31317748:->chr15:31295273:-	27	33
6242	TRPM1	ORF3	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000256552	chr15:31317748:->chr15:31295273:-	27	33
6243	TRPM1	ORF3	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000542188	chr15:31317748:->chr15:31295273:-	27	33
6244	TRPM1	ORF3	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000558768	chr15:31317748:->chr15:31295273:-	27	33
6245	TRPM1	ORF3	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000558445	chr15:31317748:->chr15:31295273:-	27	33

Table 15

6246	TRPM1	ORF3	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000559177	chr15:31317748:->chr15:31295273:-	27	33
6247	SLC44A1	ORF3	chr9:108112906:+:MIRb>chr9:108118493:+:ENST00000374720	chr9:108112906:+>chr9:108118493:+	4	33
6248	SLC44A1	ORF3	chr9:108112906:+:MIRb>chr9:108118493:+:ENST00000374723	chr9:108112906:+>chr9:108118493:+	4	33
6249	SLC44A1	ORF3	chr9:108112906:+:MIRb>chr9:108118493:+:ENST00000470972	chr9:108112906:+>chr9:108118493:+	4	33
6250	SLC44A1	ORF3	chr9:108112906:+:MIRb>chr9:108118493:+:ENST00000374724	chr9:108112906:+>chr9:108118493:+	4	33
6251	VMP1	ORF3	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000262291	chr17:57885650:+>chr17:57886157:+	20	33
6252	VMP1	ORF3	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000537567	chr17:57885650:+>chr17:57886157:+	20	33
6253	VMP1	ORF3	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000539763	chr17:57885650:+>chr17:57886157:+	20	33
6254	VMP1	ORF3	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000536180	chr17:57885650:+>chr17:57886157:+	20	33
6255	VMP1	ORF3	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000545362	chr17:57885650:+>chr17:57886157:+	20	33
6256	VMP1	ORF3	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000592619	chr17:57885650:+>chr17:57886157:+	20	33
6257	VMP1	ORF3	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000591877	chr17:57885650:+>chr17:57886157:+	20	33
6258	CA12	ORF1	chr15:63650004:-:L1MB5>chr15:63638908:-:ENST00000178638	chr15:63650004:->chr15:63638908:-	11	33
6259	CA12	ORF1	chr15:63650004:-:L1MB5>chr15:63638908:-:ENST00000344366	chr15:63650004:->chr15:63638908:-	11	33
6260	TMPRSS2	ORF2	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000332149	chr21:42864922:->chr21:42861520:-	24	33
6261	TMPRSS2	ORF2	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000398585	chr21:42864922:->chr21:42861520:-	24	33
6262	TMPRSS2	ORF2	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000458356	chr21:42864922:->chr21:42861520:-	24	33
6263	TMPRSS2	ORF2	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000454499	chr21:42864922:->chr21:42861520:-	24	33
6264	TMPRSS2	ORF2	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000424093	chr21:42864922:->chr21:42861520:-	24	33
6265	CELSR1	ORF1	chr22:46768553:-:L2c>chr22:46765701:-:ENST00000262738	chr22:46768553:->chr22:46765701:-	9	33
6266	CDH6	ORF3	chr5:31298554:+:L3b>chr5:31299571:+:ENST00000514738	chr5:31298554:+>chr5:31299571:+	13	33
6267	CDH6	ORF3	chr5:31298554:+:L3b>chr5:31299571:+:ENST00000265071	chr5:31298554:+>chr5:31299571:+	13	33
6268	NKAIN4	ORF1	chr20:61882315:-:LTR13>chr20:61881424:-:ENST00000370316	chr20:61882315:->chr20:61881424:-	24	33
6269	PAQR5	ORF1	chr15:69682983:+:MIRb>chr15:69689807:+:ENST00000395407	chr15:69682983:+>chr15:69689807:+	31	33
6270	PAQR5	ORF1	chr15:69682983:+:MIRb>chr15:69689807:+:ENST00000561153	chr15:69682983:+>chr15:69689807:+	31	33
6271	PAQR5	ORF1	chr15:69682983:+:MIRb>chr15:69689807:+:ENST00000340965	chr15:69682983:+>chr15:69689807:+	31	33
6272	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000376389	chr6:30708813:->chr6:30708539:-	16	33
6273	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000456573	chr6:30708813:->chr6:30708539:-	16	33
6274	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000413165	chr6:30708813:->chr6:30708539:-	16	33
6275	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000438162	chr6:30708813:->chr6:30708539:-	16	33
6276	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000445853	chr6:30708813:->chr6:30708539:-	16	33
6277	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000416018	chr6:30708813:->chr6:30708539:-	16	33
6278	FLOT1	ORF3	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000454845	chr6:30708813:->chr6:30708539:-	16	33
6279	BACE2	ORF3	chr21:42609191:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42609191:+>chr21:42609440:+	32	33
6280	BACE2	ORF3	chr21:42609191:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42609191:+>chr21:42609440:+	32	33
6281	BACE2	ORF3	chr21:42609191:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42609191:+>chr21:42609440:+	32	33
6282	SGCG	ORF3	chr13:23822916:+:AluY>chr13:23824769:+:ENST00000218867	chr13:23822916:+>chr13:23824769:+	21	33
6283	SGCG	ORF3	chr13:23822916:+:AluY>chr13:23824769:+:ENST00000537476	chr13:23822916:+>chr13:23824769:+	21	33
6284	SGCG	ORF3	chr13:23822916:+:AluY>chr13:23824769:+:ENST00000545013	chr13:23822916:+>chr13:23824769:+	21	33
6285	CA12	ORF2	chr15:63668160:-:AluSp>chr15:63667877:-:ENST00000178638	chr15:63668160:->chr15:63667877:-	4	33
6286	CA12	ORF2	chr15:63668160:-:AluSp>chr15:63667877:-:ENST00000344366	chr15:63668160:->chr15:63667877:-	4	33
6287	ITGB4	ORF2	chr17:73744262:+:AluJr>chr17:73744922:+:ENST00000579662	chr17:73744262:+>chr17:73744922:+	11	33
6288	ITGB4	ORF2	chr17:73744262:+:AluJr>chr17:73744922:+:ENST00000339591	chr17:73744262:+>chr17:73744922:+	11	33
6289	ITGB4	ORF2	chr17:73744262:+:AluJr>chr17:73744922:+:ENST00000200181	chr17:73744262:+>chr17:73744922:+	11	33
6290	ITGB4	ORF2	chr17:73744262:+:AluJr>chr17:73744922:+:ENST00000450894	chr17:73744262:+>chr17:73744922:+	11	33
6291	ITGB4	ORF2	chr17:73744262:+:AluJr>chr17:73744922:+:ENST00000449880	chr17:73744262:+>chr17:73744922:+	11	33
6292	SCARA5	ORF2	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000354914	chr8:27834547:->chr8:27779762:-	23	33
6293	SCARA5	ORF2	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000524352	chr8:27834547:->chr8:27779762:-	23	33
6294	SCARA5	ORF2	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000518030	chr8:27834547:->chr8:27779762:-	23	33
6295	SCARA5	ORF2	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000301906	chr8:27834547:->chr8:27779762:-	23	33
6296	HM13	ORF2	chr20:30153664:+:MER5A>chr20:30154013:+:ENST00000335574	chr20:30153664:+>chr20:30154013:+	9	33
6297	HM13	ORF2	chr20:30153664:+:MER5A>chr20:30154013:+:ENST00000340852	chr20:30153664:+>chr20:30154013:+	9	33
6298	HM13	ORF2	chr20:30153664:+:MER5A>chr20:30154013:+:ENST00000398174	chr20:30153664:+>chr20:30154013:+	9	33
6299	HM13	ORF2	chr20:30153664:+:MER5A>chr20:30154013:+:ENST00000376127	chr20:30153664:+>chr20:30154013:+	9	33
6300	CLIC4	ORF2	chr1:25125844:+:SVA_F>chr1:25140585:+:ENST00000374379	chr1:25125844:+>chr1:25140585:+	12	33
6301	CLIC4	ORF2	chr1:25125844:+:SVA_F>chr1:25140585:+:ENST00000488683	chr1:25125844:+>chr1:25140585:+	12	33
6302	KCNH2	ORF1	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000330883	chr7:150655920:->chr7:150648787:-	5	33
6303	KCNH2	ORF1	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000392968	chr7:150655920:->chr7:150648787:-	5	33
6304	KCNH2	ORF1	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000262186	chr7:150655920:->chr7:150648787:-	5	33
6305	KCNH2	ORF1	chr7:150655920:-:MIR>chr7:150648787:-:ENST00000430723	chr7:150655920:->chr7:150648787:-	5	33
6306	SLC2A9	ORF3	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000264784	chr4:9996312:->chr4:9987417:-	26	33
6307	SLC2A9	ORF3	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000506583	chr4:9996312:->chr4:9987417:-	26	33
6308	SLC2A9	ORF3	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000309065	chr4:9996312:->chr4:9987417:-	26	33
6309	SLC2A9	ORF3	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000513129	chr4:9996312:->chr4:9987417:-	26	33
6310	KCNK9	ORF1	chr8:140700582:-:THE1D>chr8:140631342:-:ENST00000522317	chr8:140700582:->chr8:140631342:-	8	33
6311	KCNK9	ORF1	chr8:140700582:-:THE1D>chr8:140631342:-:ENST00000303015	chr8:140700582:->chr8:140631342:-	8	33
6312	KCNK9	ORF1	chr8:140700582:-:THE1D>chr8:140631342:-:ENST00000520439	chr8:140700582:->chr8:140631342:-	8	33
6313	CLIC4	ORF1	chr1:25126002:+:SVA_F>chr1:25140585:+:ENST00000374379	chr1:25126002:+>chr1:25140585:+	12	33
6314	CLIC4	ORF1	chr1:25126002:+:SVA_F>chr1:25140585:+:ENST00000488683	chr1:25126002:+>chr1:25140585:+	12	33
6315	CLIC6	ORF3	chr21:36059322:+:MLT1H1>chr21:36079578:+:ENST00000349499	chr21:36059322:+>chr21:36079578:+	30	33
6316	CLIC6	ORF3	chr21:36059322:+:MLT1H1>chr21:36079578:+:ENST00000360731	chr21:36059322:+>chr21:36079578:+	30	33
6317	FGFR2	ORF2	chr10:123241584:-:AluSx3>chr10:123239627:-:ENST00000351936	chr10:123241584:->chr10:123239627:-	13	33

Table 15

6318	FCGR3A	ORF2	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000443193	chr1:161519206:->chr1:161518821:-	4	32
6319	FCGR3A	ORF2	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000426740	chr1:161519206:->chr1:161518821:-	4	32
6320	FCGR3A	ORF2	chr1:161519206:-:MIR3>chr1:161518821:-:ENST00000442336	chr1:161519206:->chr1:161518821:-	4	32
6321	SLC50A1	ORF3	chr1:155109004:+:AluY>chr1:155110037:+:ENST00000484157	chr1:155109004:+>chr1:155110037:+	21	32
6322	SLC50A1	ORF3	chr1:155109004:+:AluY>chr1:155110037:+:ENST00000368404	chr1:155109004:+>chr1:155110037:+	21	32
6323	SLC50A1	ORF3	chr1:155109004:+:AluY>chr1:155110037:+:ENST00000368401	chr1:155109004:+>chr1:155110037:+	21	32
6324	GPNMB	ORF1	chr7:23303017:+:AluSq2>chr7:23306136:+:ENST00000258733	chr7:23303017:+>chr7:23306136:+	23	32
6325	GPNMB	ORF1	chr7:23303017:+:AluSq2>chr7:23306136:+:ENST00000381990	chr7:23303017:+>chr7:23306136:+	23	32
6326	GPNMB	ORF1	chr7:23303017:+:AluSq2>chr7:23306136:+:ENST00000539136	chr7:23303017:+>chr7:23306136:+	23	32
6327	GPNMB	ORF1	chr7:23303017:+:AluSq2>chr7:23306136:+:ENST00000453162	chr7:23303017:+>chr7:23306136:+	23	32
6328	NOX1	ORF1	chrX:100122222:-:AluYc>chrX:100118584:-:ENST00000372966	chrX:100122222:->chrX:100118584:-	19	32
6329	NOX1	ORF1	chrX:100122222:-:AluYc>chrX:100118584:-:ENST00000372964	chrX:100122222:->chrX:100118584:-	19	32
6330	NOX1	ORF1	chrX:100122222:-:AluYc>chrX:100118584:-:ENST00000217885	chrX:100122222:->chrX:100118584:-	19	32
6331	PTPRZ1	ORF2	chr7:121570258:+:L1MC>chr7:121608005:+:ENST00000393386	chr7:121570258:+>chr7:121608005:+	30	32
6332	PTPRZ1	ORF2	chr7:121570258:+:L1MC>chr7:121608005:+:ENST00000449182	chr7:121570258:+>chr7:121608005:+	30	32
6333	TM7SF3	ORF1	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000542019	chr12:27153625:->chr12:27152581:-	22	32
6334	C1orf186	ORF1	chr1:206276560:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206276560:->chr1:206243250:-	24	32
6335	PLSCR1	ORF3	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000342435	chr3:146237953:->chr3:146234954:-	11	32
6336	PLSCR1	ORF3	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000487389	chr3:146237953:->chr3:146234954:-	11	32
6337	PLSCR1	ORF3	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000448787	chr3:146237953:->chr3:146234954:-	11	32
6338	PLSCR1	ORF3	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000483300	chr3:146237953:->chr3:146234954:-	11	32
6339	PLSCR1	ORF3	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000462666	chr3:146237953:->chr3:146234954:-	11	32
6340	GPRC5B	ORF3	chr16:19886054:-:MER20>chr16:19884168:-:ENST00000537135	chr16:19886054:->chr16:19884168:-	4	32
6341	ILDR1	ORF2	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000273691	chr3:121766690:->chr3:121726008:-	6	32
6342	ILDR1	ORF2	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000344209	chr3:121766690:->chr3:121726008:-	6	32
6343	ILDR1	ORF2	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000393631	chr3:121766690:->chr3:121726008:-	6	32
6344	ILDR1	ORF2	chr3:121766690:-:L1PA2>chr3:121726008:-:ENST00000462014	chr3:121766690:->chr3:121726008:-	6	32
6345	TMPRSS4	ORF2	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000517483	chr11:117970832:+>chr11:117973816:+	26	32
6346	ASTN2	ORF1	chr9:119602892:-:SVA_D>chr9:119583062:-:ENST00000373996	chr9:119602892:->chr9:119583062:-	27	32
6347	ASTN2	ORF1	chr9:119602892:-:SVA_D>chr9:119583062:-:ENST00000313400	chr9:119602892:->chr9:119583062:-	27	32
6348	ASTN2	ORF1	chr9:119602892:-:SVA_D>chr9:119583062:-:ENST00000373986	chr9:119602892:->chr9:119583062:-	27	32
6349	ASTN2	ORF1	chr9:119602892:-:SVA_D>chr9:119583062:-:ENST00000361209	chr9:119602892:->chr9:119583062:-	27	32
6350	ACVR1B	ORF1	chr12:52353971:+:AluJr>chr12:52369049:+:ENST00000257963	chr12:52353971:+>chr12:52369049:+	16	32
6351	ACVR1B	ORF1	chr12:52353971:+:AluJr>chr12:52369049:+:ENST00000541224	chr12:52353971:+>chr12:52369049:+	16	32
6352	ACVR1B	ORF1	chr12:52353971:+:AluJr>chr12:52369049:+:ENST00000426655	chr12:52353971:+>chr12:52369049:+	16	32
6353	ACVR1B	ORF1	chr12:52353971:+:AluJr>chr12:52369049:+:ENST00000415850	chr12:52353971:+>chr12:52369049:+	16	32
6354	GPR176	ORF3	chr15:40186255:-:SVA_F>chr15:40099459:-:ENST00000561100	chr15:40186255:->chr15:40099459:-	9	32
6355	GPR176	ORF3	chr15:40186255:-:SVA_F>chr15:40099459:-:ENST00000543580	chr15:40186255:->chr15:40099459:-	9	32
6356	PTPRR	ORF3	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000440835	chr12:71059411:->chr12:71056385:-	16	32
6357	PTPRR	ORF3	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000378778	chr12:71059411:->chr12:71056385:-	16	32
6358	PTPRR	ORF3	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000283228	chr12:71059411:->chr12:71056385:-	16	32
6359	PTPRR	ORF3	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000342084	chr12:71059411:->chr12:71056385:-	16	32
6360	PTPRR	ORF3	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000549308	chr12:71059411:->chr12:71056385:-	16	32
6361	TRABD2A	ORF2	chr2:85061894:-:L1MB7>chr2:85059269:-:ENST00000335459	chr2:85061894:->chr2:85059269:-	17	32
6362	TRABD2A	ORF2	chr2:85061894:-:L1MB7>chr2:85059269:-:ENST00000409520	chr2:85061894:->chr2:85059269:-	17	32
6363	ITGAL	ORF3	chr16:30509333:+:AluSz>chr16:30510395:+:ENST00000356798	chr16:30509333:+>chr16:30510395:+	16	32
6364	ITGAL	ORF3	chr16:30509333:+:AluSz>chr16:30510395:+:ENST00000358164	chr16:30509333:+>chr16:30510395:+	16	32
6365	KIAA0922	ORF2	chr4:154534548:+:HAL1b>chr4:154541908:+:ENST00000440693	chr4:154534548:+>chr4:154541908:+	11	32
6366	KIAA0922	ORF2	chr4:154534548:+:HAL1b>chr4:154541908:+:ENST00000409663	chr4:154534548:+>chr4:154541908:+	11	32
6367	KIAA0922	ORF2	chr4:154534548:+:HAL1b>chr4:154541908:+:ENST00000409959	chr4:154534548:+>chr4:154541908:+	11	32
6368	KIAA0922	ORF2	chr4:154534548:+:HAL1b>chr4:154541908:+:ENST00000240487	chr4:154534548:+>chr4:154541908:+	11	32
6369	PLVAP	ORF1	chr19:17483514:-:AluY>chr19:17476268:-:ENST00000599426	chr19:17483514:->chr19:17476268:-	17	31
6370	SLCO1B1	ORF2	chr12:21332437:+:L2b>chr12:21349880:+:ENST00000256958	chr12:21332437:+>chr12:21349880:+	23	31
6371	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000263846	chr11:61296834:->chr11:61295564:-	25	31
6372	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000540677	chr11:61296834:->chr11:61295564:-	25	31
6373	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000539008	chr11:61296834:->chr11:61295564:-	25	31
6374	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000542836	chr11:61296834:->chr11:61295564:-	25	31
6375	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000542670	chr11:61296834:->chr11:61295564:-	25	31
6376	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000535826	chr11:61296834:->chr11:61295564:-	25	31
6377	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295564:-:ENST00000545053	chr11:61296834:->chr11:61295564:-	25	31
6378	ATP1A1	ORF2	chr1:116856424:+:AluJr4>chr1:116939290:+:ENST00000295598	chr1:116856424:+>chr1:116939290:+	12	31
6379	ATP1A1	ORF2	chr1:116856424:+:AluJr4>chr1:116939290:+:ENST00000537345	chr1:116856424:+>chr1:116939290:+	12	31
6380	ATP1A1	ORF2	chr1:116856424:+:AluJr4>chr1:116939290:+:ENST00000369496	chr1:116856424:+>chr1:116939290:+	12	31
6381	PLSCR1	ORF2	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000462666	chr3:146237953:->chr3:146234954:-	5	31
6382	CNGA1	ORF3	chr4:48012811:-:LTR17>chr4:47954720:-:ENST00000402813	chr4:48012811:->chr4:47954720:-	30	31
6383	CLMP	ORF1	chr11:122966541:-:MER31B>chr11:122955421:-:ENST00000448775	chr11:122966541:->chr11:122955421:-	20	31
6384	LIG1	ORF3	chr19:48654725:-:AluSq2>chr19:48654596:-:ENST00000263274	chr19:48654725:->chr19:48654596:-	19	31
6385	LIG1	ORF3	chr19:48654725:-:AluSq2>chr19:48654596:-:ENST00000601091	chr19:48654725:->chr19:48654596:-	19	31
6386	LIG1	ORF3	chr19:48654725:-:AluSq2>chr19:48654596:-:ENST00000542460	chr19:48654725:->chr19:48654596:-	19	31
6387	SLC13A3	ORF2	chr20:45313035:-:THE1C>chr20:45242364:-:ENST00000279027	chr20:45313035:->chr20:45242364:-	7	31
6388	SLC13A3	ORF2	chr20:45313035:-:THE1C>chr20:45242364:-:ENST00000413164	chr20:45313035:->chr20:45242364:-	7	31
6389	SLC13A3	ORF2	chr20:45313035:-:THE1C>chr20:45242364:-:ENST00000420568	chr20:45313035:->chr20:45242364:-	7	31

Table 15

6390	SLC13A3	ORF2	chr20:45313035:-:THE1C>chr20:45242364:-:ENST00000372121	chr20:45313035:->chr20:45242364:-	7	31
6391	SLC13A3	ORF2	chr20:45313035:-:THE1C>chr20:45242364:-:ENST00000339636	chr20:45313035:->chr20:45242364:-	7	31
6392	SLC30A8	ORF3	chr8:117963358:+:MIR3>chr8:118165183:+:ENST00000521243	chr8:117963358:+>chr8:118165183:+	12	31
6393	SLC30A8	ORF3	chr8:117963358:+:MIR3>chr8:118165183:+:ENST00000524274	chr8:117963358:+>chr8:118165183:+	12	31
6394	SLC30A8	ORF3	chr8:117963358:+:MIR3>chr8:118165183:+:ENST00000427715	chr8:117963358:+>chr8:118165183:+	12	31
6395	SLC30A8	ORF3	chr8:117963358:+:MIR3>chr8:118165183:+:ENST00000519688	chr8:117963358:+>chr8:118165183:+	12	31
6396	SLC30A8	ORF3	chr8:117963358:+:MIR3>chr8:118165183:+:ENST00000456015	chr8:117963358:+>chr8:118165183:+	12	31
6397	IL2RG	ORF2	chrX:70328686:-:MIRb>chrX:70328545:-:ENST00000374202	chrX:70328686:->chrX:70328545:-	12	31
6398	IL2RG	ORF2	chrX:70328686:-:MIRb>chrX:70328545:-:ENST00000456850	chrX:70328686:->chrX:70328545:-	12	31
6399	CMTM6	ORF2	chr3:32535322:-:L2c>chr3:32533378:-:ENST00000205636	chr3:32535322:->chr3:32533378:-	3	31
6400	PPAP2A	ORF1	chr5:54722306:-:AluJr>chr5:54721867:-:ENST00000264775	chr5:54722306:->chr5:54721867:-	24	31
6401	PPAP2A	ORF1	chr5:54722306:-:AluJr>chr5:54721867:-:ENST00000307259	chr5:54722306:->chr5:54721867:-	24	31
6402	PROM1	ORF3	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000503884	chr4:15980155:->chr4:15972705:-	26	31
6403	PROM1	ORF3	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000447510	chr4:15980155:->chr4:15972705:-	26	31
6404	PROM1	ORF3	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000539194	chr4:15980155:->chr4:15972705:-	26	31
6405	PROM1	ORF3	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000540805	chr4:15980155:->chr4:15972705:-	26	31
6406	PROM1	ORF3	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000505450	chr4:15980155:->chr4:15972705:-	26	31
6407	PROM1	ORF3	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000508167	chr4:15980155:->chr4:15972705:-	26	31
6408	PROM1	ORF3	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000510224	chr4:15980155:->chr4:15972705:-	26	31
6409	PROM1	ORF3	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000513946	chr4:15980155:->chr4:15972705:-	26	31
6410	NRG3	ORF3	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000372141	chr10:84403183:+>chr10:84498333:+	21	31
6411	NRG3	ORF3	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000404547	chr10:84403183:+>chr10:84498333:+	21	31
6412	NRG3	ORF3	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000372142	chr10:84403183:+>chr10:84498333:+	21	31
6413	NRG3	ORF3	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000404576	chr10:84403183:+>chr10:84498333:+	21	31
6414	NRG3	ORF3	chr10:84403183:+:THE1B>chr10:84498333:+:ENST00000556918	chr10:84403183:+>chr10:84498333:+	21	31
6415	SLC16A7	ORF3	chr12:60163113:+:Tigger1>chr12:60165000:+:ENST00000552432	chr12:60163113:+>chr12:60165000:+	27	31
6416	SLC16A7	ORF3	chr12:60163113:+:Tigger1>chr12:60165000:+:ENST00000547379	chr12:60163113:+>chr12:60165000:+	27	31
6417	SLC16A7	ORF3	chr12:60163113:+:Tigger1>chr12:60165000:+:ENST00000552024	chr12:60163113:+>chr12:60165000:+	27	31
6418	SLC16A7	ORF3	chr12:60163113:+:Tigger1>chr12:60165000:+:ENST00000548610	chr12:60163113:+>chr12:60165000:+	27	31
6419	SLC16A7	ORF3	chr12:60163113:+:Tigger1>chr12:60165000:+:ENST00000261187	chr12:60163113:+>chr12:60165000:+	27	31
6420	SLC7A8	ORF1	chr14:23642341:-:L2c>chr14:23635749:-:ENST00000525062	chr14:23642341:->chr14:23635749:-	3	31
6421	CLIC4	ORF3	chr1:25126002:+:SVA_F>chr1:25140585:+:ENST00000374379	chr1:25126002:+>chr1:25140585:+	14	31
6422	CLIC4	ORF3	chr1:25126002:+:SVA_F>chr1:25140585:+:ENST00000488683	chr1:25126002:+>chr1:25140585:+	14	31
6423	PTPRZ1	ORF1	chr7:121570251:+:L1MC>chr7:121608005:+:ENST00000393386	chr7:121570251:+>chr7:121608005:+	28	30
6424	PTPRZ1	ORF1	chr7:121570251:+:L1MC>chr7:121608005:+:ENST00000449182	chr7:121570251:+>chr7:121608005:+	28	30
6425	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000263846	chr11:61296834:->chr11:61295647:-	25	30
6426	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000540677	chr11:61296834:->chr11:61295647:-	25	30
6427	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000539008	chr11:61296834:->chr11:61295647:-	25	30
6428	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000542836	chr11:61296834:->chr11:61295647:-	25	30
6429	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000542670	chr11:61296834:->chr11:61295647:-	25	30
6430	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000535826	chr11:61296834:->chr11:61295647:-	25	30
6431	SYT7	ORF3	chr11:61296834:-:MIRb>chr11:61295647:-:ENST00000545053	chr11:61296834:->chr11:61295647:-	25	30
6432	MCOLN1	ORF1	chr19:7590196:+:AluSx1>chr19:7591325:+:ENST00000264079	chr19:7590196:+>chr19:7591325:+	23	30
6433	MCOLN1	ORF1	chr19:7590196:+:AluSx1>chr19:7591325:+:ENST00000601003	chr19:7590196:+>chr19:7591325:+	23	30
6434	TMPRSS4	ORF2	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000534111	chr11:117969154:+>chr11:117969700:+	7	30
6435	TMPRSS4	ORF2	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000519236	chr11:117969154:+>chr11:117969700:+	7	30
6436	TMPRSS4	ORF2	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000517483	chr11:117969154:+>chr11:117969700:+	7	30
6437	TMPRSS4	ORF2	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000437212	chr11:117969154:+>chr11:117969700:+	7	30
6438	TMPRSS4	ORF2	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000522824	chr11:117969154:+>chr11:117969700:+	7	30
6439	TMPRSS4	ORF2	chr11:117969154:+:L2b>chr11:117969700:+:ENST00000522151	chr11:117969154:+>chr11:117969700:+	7	30
6440	ZP3	ORF1	chr7:76044541:+:AluSz>chr7:76054369:+:ENST00000394857	chr7:76044541:+>chr7:76054369:+	8	30
6441	LIG1	ORF3	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000263274	chr19:48654725:->chr19:48654593:-	19	30
6442	LIG1	ORF3	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000594759	chr19:48654725:->chr19:48654593:-	19	30
6443	LIG1	ORF3	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000427526	chr19:48654725:->chr19:48654593:-	19	30
6444	LIG1	ORF3	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000601091	chr19:48654725:->chr19:48654593:-	19	30
6445	LIG1	ORF3	chr19:48654725:-:AluSq2>chr19:48654593:-:ENST00000542460	chr19:48654725:->chr19:48654593:-	19	30
6446	GPR161	ORF1	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000367838	chr1:168066913:->chr1:168066470:-	18	30
6447	GPR161	ORF1	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000271357	chr1:168066913:->chr1:168066470:-	18	30
6448	GPR161	ORF1	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000539777	chr1:168066913:->chr1:168066470:-	18	30
6449	GPR161	ORF1	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000361697	chr1:168066913:->chr1:168066470:-	18	30
6450	GPR161	ORF1	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000537209	chr1:168066913:->chr1:168066470:-	18	30
6451	GPR161	ORF1	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000546300	chr1:168066913:->chr1:168066470:-	18	30
6452	GPR161	ORF1	chr1:168066913:-:L2a>chr1:168066470:-:ENST00000367835	chr1:168066913:->chr1:168066470:-	18	30
6453	EDNRB	ORF2	chr13:78549482:-:Harlequin-int>chr13:78492759:-:ENST00000377211	chr13:78549482:->chr13:78492759:-	15	30
6454	SLC38A1	ORF1	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000398637	chr12:46585300:->chr12:46582854:-	9	30
6455	SLC38A1	ORF1	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000549049	chr12:46585300:->chr12:46582854:-	9	30
6456	SLC38A1	ORF1	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000439706	chr12:46585300:->chr12:46582854:-	9	30
6457	SLC38A1	ORF1	chr12:46585300:-:L1PA6>chr12:46582854:-:ENST00000546893	chr12:46585300:->chr12:46582854:-	9	30
6458	LRP1	ORF2	chr12:57560106:+:AluJb>chr12:57560713:+:ENST00000243077	chr12:57560106:+>chr12:57560713:+	7	30
6459	NET1	ORF3	chr10:5454849:+:G-rich>chr10:5468618:+:ENST00000355029	chr10:5454849:+>chr10:5468618:+	18	30
6460	FAIM2	ORF1	chr12:50264776:-:L2b>chr12:50264436:-:ENST00000320634	chr12:50264776:->chr12:50264436:-	21	30
6461	FAIM2	ORF1	chr12:50264776:-:L2b>chr12:50264436:-:ENST00000550890	chr12:50264776:->chr12:50264436:-	21	30

Table 15

6462	FAIM2	ORF1	chr12:50264776:-:L2b>chr12:50264436:-:ENST00000552669	chr12:50264776:->chr12:50264436:-	21	30
6463	FAIM2	ORF1	chr12:50264776:-:L2b>chr12:50264436:-:ENST00000552863	chr12:50264776:->chr12:50264436:-	21	30
6464	PTPRR	ORF2	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000440835	chr12:71059411:->chr12:71056385:-	7	30
6465	PTPRR	ORF2	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000378778	chr12:71059411:->chr12:71056385:-	7	30
6466	PTPRR	ORF2	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000283228	chr12:71059411:->chr12:71056385:-	7	30
6467	PTPRR	ORF2	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000342084	chr12:71059411:->chr12:71056385:-	7	30
6468	PTPRR	ORF2	chr12:71059411:-:AluSx>chr12:71056385:-:ENST00000549308	chr12:71059411:->chr12:71056385:-	7	30
6469	APLP2	ORF3	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000533195	chr11:129977538:+>chr11:129979324:+	6	30
6470	APLP2	ORF3	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000533713	chr11:129977538:+>chr11:129979324:+	6	30
6471	APLP2	ORF3	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000534582	chr11:129977538:+>chr11:129979324:+	6	30
6472	APLP2	ORF3	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000528499	chr11:129977538:+>chr11:129979324:+	6	30
6473	APLP2	ORF3	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000263574	chr11:129977538:+>chr11:129979324:+	6	30
6474	APLP2	ORF3	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000345598	chr11:129977538:+>chr11:129979324:+	6	30
6475	APLP2	ORF3	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000338167	chr11:129977538:+>chr11:129979324:+	6	30
6476	APLP2	ORF3	chr11:129977538:+:L1PA5>chr11:129979324:+:ENST00000278756	chr11:129977538:+>chr11:129979324:+	6	30
6477	SCARB1	ORF2	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000339570	chr12:125337015:->chr12:125302253:-	23	30
6478	SCARB1	ORF2	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000415380	chr12:125337015:->chr12:125302253:-	23	30
6479	SCARB1	ORF2	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000261693	chr12:125337015:->chr12:125302253:-	23	30
6480	SCARB1	ORF2	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000546215	chr12:125337015:->chr12:125302253:-	23	30
6481	SCARB1	ORF2	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000541205	chr12:125337015:->chr12:125302253:-	23	30
6482	SCARB1	ORF2	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000540495	chr12:125337015:->chr12:125302253:-	23	30
6483	SCARB1	ORF2	chr12:125337015:-:MIR>chr12:125302253:-:ENST00000545493	chr12:125337015:->chr12:125302253:-	23	30
6484	NCKAP1	ORF1	chr2:183798370:-:AluSp>chr2:183795516:-:ENST00000361354	chr2:183798370:->chr2:183795516:-	24	30
6485	NCKAP1	ORF1	chr2:183798370:-:AluSp>chr2:183795516:-:ENST00000360982	chr2:183798370:->chr2:183795516:-	24	30
6486	CD53	ORF3	chr1:111440564:+:MIR>chr1:111441746:+:ENST00000429072	chr1:111440564:+>chr1:111441746:+	7	30
6487	CD53	ORF3	chr1:111440564:+:MIR>chr1:111441746:+:ENST00000271324	chr1:111440564:+>chr1:111441746:+	7	30
6488	GRIA1	ORF1	chr5:152889366:+:MIRb>chr5:153026488:+:ENST00000285900	chr5:152889366:+>chr5:153026488:+	14	30
6489	GRIA1	ORF1	chr5:152889366:+:MIRb>chr5:153026488:+:ENST00000340592	chr5:152889366:+>chr5:153026488:+	14	30
6490	GRIA1	ORF1	chr5:152889366:+:MIRb>chr5:153026488:+:ENST00000521843	chr5:152889366:+>chr5:153026488:+	14	30
6491	GRIA1	ORF1	chr5:152889366:+:MIRb>chr5:153026488:+:ENST00000448073	chr5:152889366:+>chr5:153026488:+	14	30
6492	GRIA1	ORF1	chr5:152889366:+:MIRb>chr5:153026488:+:ENST00000518783	chr5:152889366:+>chr5:153026488:+	14	30
6493	LAIR1	ORF3	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000348231	chr19:54880625:->chr19:54875937:-	4	30
6494	LAIR1	ORF3	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000391742	chr19:54880625:->chr19:54875937:-	4	30
6495	LAIR1	ORF3	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000391741	chr19:54880625:->chr19:54875937:-	4	30
6496	LAIR1	ORF3	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000418556	chr19:54880625:->chr19:54875937:-	4	30
6497	LAIR1	ORF3	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000438193	chr19:54880625:->chr19:54875937:-	4	30
6498	TGFA	ORF3	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000295400	chr2:70729971:->chr2:70692865:-	18	30
6499	TGFA	ORF3	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000419940	chr2:70729971:->chr2:70692865:-	18	30
6500	TGFA	ORF3	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000445399	chr2:70729971:->chr2:70692865:-	18	30
6501	TGFA	ORF3	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000418333	chr2:70729971:->chr2:70692865:-	18	30
6502	TGFA	ORF3	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000450929	chr2:70729971:->chr2:70692865:-	18	30
6503	TGFA	ORF3	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000444975	chr2:70729971:->chr2:70692865:-	18	30
6504	TGFA	ORF3	chr2:70729971:-:MIR>chr2:70692865:-:ENST00000394241	chr2:70729971:->chr2:70692865:-	18	30
6505	ASTN2	ORF2	chr9:119602972:-:SVA_D>chr9:119583062:-:ENST00000373996	chr9:119602972:->chr9:119583062:-	25	30
6506	ASTN2	ORF2	chr9:119602972:-:SVA_D>chr9:119583062:-:ENST00000313400	chr9:119602972:->chr9:119583062:-	25	30
6507	ASTN2	ORF2	chr9:119602972:-:SVA_D>chr9:119583062:-:ENST00000373986	chr9:119602972:->chr9:119583062:-	25	30
6508	ASTN2	ORF2	chr9:119602972:-:SVA_D>chr9:119583062:-:ENST00000361209	chr9:119602972:->chr9:119583062:-	25	30
6509	BSG	ORF3	chr19:574231:+:AluSx>chr19:579500:+:ENST00000333511	chr19:574231:+>chr19:579500:+	8	30
6510	BSG	ORF3	chr19:574231:+:AluSx>chr19:579500:+:ENST00000353555	chr19:574231:+>chr19:579500:+	8	30
6511	ARL6IP5	ORF1	chr3:69143994:+:MIR3>chr3:69150990:+:ENST00000484921	chr3:69143994:+>chr3:69150990:+	27	30
6512	GRIA2	ORF1	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000512774	chr4:158141877:+>chr4:158142819:+	11	30
6513	IGSF9	ORF2	chr1:159905473:-:MIRb>chr1:159904612:-:ENST00000361509	chr1:159905473:->chr1:159904612:-	4	30
6514	IGSF9	ORF2	chr1:159905473:-:MIRb>chr1:159904612:-:ENST00000368094	chr1:159905473:->chr1:159904612:-	4	30
6515	ABCC1	ORF2	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000399410	chr16:16226783:+>chr16:16228207:+	16	30
6516	ABCC1	ORF2	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000345148	chr16:16226783:+>chr16:16228207:+	16	30
6517	ABCC1	ORF2	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000346370	chr16:16226783:+>chr16:16228207:+	16	30
6518	ABCC1	ORF2	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000349029	chr16:16226783:+>chr16:16228207:+	16	30
6519	ABCC1	ORF2	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000351154	chr16:16226783:+>chr16:16228207:+	16	30
6520	ABCC1	ORF2	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000399408	chr16:16226783:+>chr16:16228207:+	16	30
6521	ABCC1	ORF2	chr16:16226783:+:MER102a>chr16:16228207:+:ENST00000572882	chr16:16226783:+>chr16:16228207:+	16	30
6522	EPHB2	ORF3	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000544305	chr1:23078200:+>chr1:23107914:+	28	30
6523	EPHB2	ORF3	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000374630	chr1:23078200:+>chr1:23107914:+	28	30
6524	EPHB2	ORF3	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000400191	chr1:23078200:+>chr1:23107914:+	28	30
6525	EPHB2	ORF3	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000374632	chr1:23078200:+>chr1:23107914:+	28	30
6526	EPHB2	ORF3	chr1:23078200:+:MIRc>chr1:23107914:+:ENST00000374627	chr1:23078200:+>chr1:23107914:+	28	30
6527	EPHB4	ORF3	chr7:100406048:-:AluJr>chr7:100405202:-:ENST00000360620	chr7:100406048:->chr7:100405202:-	28	29
6528	EPHB4	ORF3	chr7:100406048:-:AluJr>chr7:100405202:-:ENST00000358173	chr7:100406048:->chr7:100405202:-	28	29
6529	LAPTM4B	ORF3	chr8:98817331:+:MER91A>chr8:98817581:+:ENST00000445593	chr8:98817331:+>chr8:98817581:+	21	29
6530	LAPTM4B	ORF3	chr8:98817331:+:MER91A>chr8:98817581:+:ENST00000521545	chr8:98817331:+>chr8:98817581:+	21	29
6531	LAPTM4B	ORF3	chr8:98817331:+:MER91A>chr8:98817581:+:ENST00000517924	chr8:98817331:+>chr8:98817581:+	21	29
6532	CDH3	ORF1	chr16:68708802:+:AluSx4>chr16:68719205:+:ENST00000264012	chr16:68708802:+>chr16:68719205:+	22	29
6533	CDH3	ORF1	chr16:68708802:+:AluSx4>chr16:68719205:+:ENST00000429102	chr16:68708802:+>chr16:68719205:+	22	29

Table 15

6534	CDH3	ORF1	chr16:68708802:+:AluSx4>chr16:68719205:+:ENST00000581171	chr16:68708802:+>chr16:68719205:+	22	29
6535	CDH17	ORF2	chr8:95148851:-:L1PA6>chr8:95143220:-:ENST00000027335	chr8:95148851:->chr8:95143220:-	9	29
6536	CDH17	ORF2	chr8:95148851:-:L1PA6>chr8:95143220:-:ENST00000441892	chr8:95148851:->chr8:95143220:-	9	29
6537	CDH17	ORF2	chr8:95148851:-:L1PA6>chr8:95143220:-:ENST00000450165	chr8:95148851:->chr8:95143220:-	9	29
6538	TYROBP	ORF2	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000424586	chr19:36397240:->chr19:36395536:-	7	29
6539	TYROBP	ORF2	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000585901	chr19:36397240:->chr19:36395536:-	7	29
6540	TYROBP	ORF2	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000544690	chr19:36397240:->chr19:36395536:-	7	29
6541	TYROBP	ORF2	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000262629	chr19:36397240:->chr19:36395536:-	7	29
6542	TYROBP	ORF2	chr19:36397240:-:AluSg4>chr19:36395536:-:ENST00000589517	chr19:36397240:->chr19:36395536:-	7	29
6543	APCDD1	ORF2	chr18:10454378:+:G-rich>chr18:10468466:+:ENST00000355285	chr18:10454378:+>chr18:10468466:+	10	29
6544	APCDD1	ORF2	chr18:10454378:+:G-rich>chr18:10468466:+:ENST00000578882	chr18:10454378:+>chr18:10468466:+	10	29
6545	BACE2	ORF1	chr21:42434652:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42434652:+>chr21:42609440:+	28	29
6546	BACE2	ORF3	chr21:42434652:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42434652:+>chr21:42609440:+	16	29
6547	BACE2	ORF1	chr21:42434652:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42434652:+>chr21:42609440:+	28	29
6548	BACE2	ORF3	chr21:42434652:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42434652:+>chr21:42609440:+	16	29
6549	BACE2	ORF1	chr21:42434652:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42434652:+>chr21:42609440:+	28	29
6550	BACE2	ORF3	chr21:42434652:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42434652:+>chr21:42609440:+	16	29
6551	ITM2B	ORF3	chr13:48791589:+:THE1C-int>chr13:48827944:+:ENST00000378565	chr13:48791589:+>chr13:48827944:+	7	29
6552	ITM2B	ORF3	chr13:48791589:+:THE1C-int>chr13:48827944:+:ENST00000378549	chr13:48791589:+>chr13:48827944:+	7	29
6553	HPN	ORF2	chr19:35548655:+:L1MA8>chr19:35556802:+:ENST00000262626	chr19:35548655:+>chr19:35556802:+	14	29
6554	HPN	ORF2	chr19:35548655:+:L1MA8>chr19:35556802:+:ENST00000392226	chr19:35548655:+>chr19:35556802:+	14	29
6555	HPN	ORF2	chr19:35548655:+:L1MA8>chr19:35556802:+:ENST00000597419	chr19:35548655:+>chr19:35556802:+	14	29
6556	FAIM2	ORF1	chr12:50264776:-:L2b>chr12:50264310:-:ENST00000320634	chr12:50264776:->chr12:50264310:-	21	29
6557	FAIM2	ORF1	chr12:50264776:-:L2b>chr12:50264310:-:ENST00000550890	chr12:50264776:->chr12:50264310:-	21	29
6558	KIAA0922	ORF2	chr4:154546350:+:AluSz6>chr4:154547299:+:ENST00000440693	chr4:154546350:+>chr4:154547299:+	22	29
6559	KIAA0922	ORF2	chr4:154546350:+:AluSz6>chr4:154547299:+:ENST00000409663	chr4:154546350:+>chr4:154547299:+	22	29
6560	KIAA0922	ORF2	chr4:154546350:+:AluSz6>chr4:154547299:+:ENST00000409959	chr4:154546350:+>chr4:154547299:+	22	29
6561	KIAA0922	ORF2	chr4:154546350:+:AluSz6>chr4:154547299:+:ENST00000240487	chr4:154546350:+>chr4:154547299:+	22	29
6562	F2RL1	ORF3	chr5:76108135:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108135:+>chr5:76128515:+	26	29
6563	F2RL1	ORF2	chr5:76108296:+:SVA_D>chr5:76128515:+:ENST00000296677	chr5:76108296:+>chr5:76128515:+	26	29
6564	VMP1	ORF2	chr17:57885650:+:MIRc>chr17:57886157:+:ENST00000592619	chr17:57885650:+>chr17:57886157:+	16	29
6565	TFRC	ORF2	chr3:195797990:-:L2a>chr3:195796439:-:ENST00000420415	chr3:195797990:->chr3:195796439:-	8	29
6566	TFRC	ORF2	chr3:195797990:-:L2a>chr3:195796439:-:ENST00000360110	chr3:195797990:->chr3:195796439:-	8	29
6567	TFRC	ORF2	chr3:195797990:-:L2a>chr3:195796439:-:ENST00000392396	chr3:195797990:->chr3:195796439:-	8	29
6568	IGSF9B	ORF2	chr11:133784211:-:MIRb>chr11:133781902:-:ENST00000533871	chr11:133784211:->chr11:133781902:-	11	29
6569	CDH3	ORF2	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000542274	chr16:68711459:+>chr16:68712037:+	24	29
6570	TSPAN15	ORF1	chr10:71236002:+:L1M5>chr10:71243447:+:ENST00000373290	chr10:71236002:+>chr10:71243447:+	28	29
6571	PPAP2A	ORF1	chr5:54723765:-:AluSq>chr5:54721867:-:ENST00000264775	chr5:54723765:->chr5:54721867:-	22	29
6572	PPAP2A	ORF1	chr5:54723765:-:AluSq>chr5:54721867:-:ENST00000307259	chr5:54723765:->chr5:54721867:-	22	29
6573	GRIA1	ORF3	chr5:152889366:+:MIRb>chr5:153026488:+:ENST00000285900	chr5:152889366:+>chr5:153026488:+	6	29
6574	GRIA1	ORF3	chr5:152889366:+:MIRb>chr5:153026488:+:ENST00000340592	chr5:152889366:+>chr5:153026488:+	6	29
6575	GRIA1	ORF3	chr5:152889366:+:MIRb>chr5:153026488:+:ENST00000521843	chr5:152889366:+>chr5:153026488:+	6	29
6576	GRIA1	ORF3	chr5:152889366:+:MIRb>chr5:153026488:+:ENST00000448073	chr5:152889366:+>chr5:153026488:+	6	29
6577	GRIA1	ORF3	chr5:152889366:+:MIRb>chr5:153026488:+:ENST00000518783	chr5:152889366:+>chr5:153026488:+	6	29
6578	LAIR1	ORF3	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000434277	chr19:54880625:->chr19:54875937:-	4	29
6579	LAIR1	ORF3	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000313038	chr19:54880625:->chr19:54875937:-	4	29
6580	LAIR1	ORF3	chr19:54880625:-:L1MD3>chr19:54875937:-:ENST00000474878	chr19:54880625:->chr19:54875937:-	4	29
6581	ITGB4	ORF1	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000579662	chr17:73744210:+>chr17:73744922:+	7	29
6582	ITGB4	ORF1	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000339591	chr17:73744210:+>chr17:73744922:+	7	29
6583	ITGB4	ORF1	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000200181	chr17:73744210:+>chr17:73744922:+	7	29
6584	ITGB4	ORF1	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000450894	chr17:73744210:+>chr17:73744922:+	7	29
6585	ITGB4	ORF1	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000449880	chr17:73744210:+>chr17:73744922:+	7	29
6586	MRC1	ORF1	chr10:18180042:+:MER1A>chr10:18183139:+:ENST00000239761	chr10:18180042:+>chr10:18183139:+	28	29
6587	MRC1L1	ORF1	chr10:17933123:+:MER1A>chr10:17936221:+:ENST00000331429	chr10:17933123:+>chr10:17936221:+	28	29
6588	MRC1	ORF1	chr10:17933123:+:MER1A>chr10:18183139:+:ENST00000239761	chr10:17933123:+>chr10:18183139:+	28	29
6589	GRIA2	ORF2	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000512774	chr4:158141877:+>chr4:158142819:+	13	29
6590	GRIA2	ORF2	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000509417	chr4:158141877:+>chr4:158142819:+	13	29
6591	GRIA2	ORF2	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000296526	chr4:158141877:+>chr4:158142819:+	13	29
6592	GRIA2	ORF2	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000264426	chr4:158141877:+>chr4:158142819:+	13	29
6593	TMEM2	ORF3	chr9:74335407:-:AluSx1>chr9:74332995:-:ENST00000377044	chr9:74335407:->chr9:74332995:-	11	29
6594	TMEM2	ORF3	chr9:74335407:-:AluSx1>chr9:74332995:-:ENST00000377066	chr9:74335407:->chr9:74332995:-	11	29
6595	CACNA1H	ORF3	chr16:1235900:+:G-rich>chr16:1250256:+:ENST00000348261	chr16:1235900:+>chr16:1250256:+	25	29
6596	CACNA1H	ORF3	chr16:1235900:+:G-rich>chr16:1250256:+:ENST00000358590	chr16:1235900:+>chr16:1250256:+	25	29
6597	CACNA1H	ORF3	chr16:1235900:+:G-rich>chr16:1250256:+:ENST00000565831	chr16:1235900:+>chr16:1250256:+	25	29
6598	ERBB2	ORF3	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000541774	chr17:37845053:+>chr17:37863243:+	22	28
6599	ERBB2	ORF3	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000584450	chr17:37845053:+>chr17:37863243:+	22	28
6600	ERBB2	ORF3	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000582648	chr17:37845053:+>chr17:37863243:+	22	28
6601	ERBB2	ORF3	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000578373	chr17:37845053:+>chr17:37863243:+	22	28
6602	ERBB2	ORF3	chr17:37845053:+:L2a>chr17:37863243:+:ENST00000269571	chr17:37845053:+>chr17:37863243:+	22	28
6603	KIAA1324	ORF3	chr1:109725274:+:AluY>chr1:109727667:+:ENST00000369939	chr1:109725274:+>chr1:109727667:+	21	28
6604	KIAA1324	ORF3	chr1:109725274:+:AluY>chr1:109727667:+:ENST00000457623	chr1:109725274:+>chr1:109727667:+	21	28
6605	CDH3	ORF3	chr16:68708802:+:AluSx4>chr16:68719173:+:ENST00000264012	chr16:68708802:+>chr16:68719173:+	21	28

Table 15

6606	CDH3	ORF3	chr16:68708802:+:AluSx4>chr16:68719173:+:ENST00000429102	chr16:68708802:+>chr16:68719173:+	21	28
6607	CDH3	ORF3	chr16:68708802:+:AluSx4>chr16:68719173:+:ENST00000581171	chr16:68708802:+>chr16:68719173:+	21	28
6608	NCAM2	ORF2	chr21:22829258:+:MLT1A0>chr21:22838927:+:ENST00000400546	chr21:22829258:+>chr21:22838927:+	24	28
6609	NCAM2	ORF2	chr21:22829258:+:MLT1A0>chr21:22838927:+:ENST00000284894	chr21:22829258:+>chr21:22838927:+	24	28
6610	FLOT1	ORF1	chr6:30708646:-:AluSx1>chr6:30697954:-:ENST00000376389	chr6:30708646:->chr6:30697954:-	22	28
6611	FLOT1	ORF2	chr6:30708646:-:AluSx1>chr6:30697954:-:ENST00000376389	chr6:30708646:->chr6:30697954:-	18	28
6612	FLOT1	ORF1	chr6:30708646:-:AluSx1>chr6:30697954:-:ENST00000456573	chr6:30708646:->chr6:30697954:-	22	28
6613	FLOT1	ORF2	chr6:30708646:-:AluSx1>chr6:30697954:-:ENST00000456573	chr6:30708646:->chr6:30697954:-	18	28
6614	PTPRZ1	ORF3	chr7:121570258:+:L1MC>chr7:121608005:+:ENST00000393386	chr7:121570258:+>chr7:121608005:+	13	28
6615	PTPRZ1	ORF3	chr7:121570258:+:L1MC>chr7:121608005:+:ENST00000449182	chr7:121570258:+>chr7:121608005:+	13	28
6616	SLCO1B1	ORF1	chr12:21332437:+:L2b>chr12:21349880:+:ENST00000256958	chr12:21332437:+>chr12:21349880:+	24	28
6617	TMPRSS2	ORF1	chr21:42882427:-:MLT2B1>chr21:42870116:-:ENST00000398585	chr21:42882427:->chr21:42870116:-	7	28
6618	SERINC5	ORF1	chr5:79421482:-:L2c>chr5:79409448:-:ENST00000507668	chr5:79421482:->chr5:79409448:-	20	28
6619	CMTM6	ORF2	chr3:32534075:-:L2c>chr3:32533378:-:ENST00000205636	chr3:32534075:->chr3:32533378:-	19	28
6620	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000376389	chr6:30708813:->chr6:30708539:-	7	28
6621	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000456573	chr6:30708813:->chr6:30708539:-	7	28
6622	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000413165	chr6:30708813:->chr6:30708539:-	7	28
6623	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000438162	chr6:30708813:->chr6:30708539:-	7	28
6624	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000445853	chr6:30708813:->chr6:30708539:-	7	28
6625	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000416018	chr6:30708813:->chr6:30708539:-	7	28
6626	FLOT1	ORF2	chr6:30708813:-:AluSx1>chr6:30708539:-:ENST00000454845	chr6:30708813:->chr6:30708539:-	7	28
6627	PTPRC	ORF1	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000352140	chr1:198708339:+>chr1:198710998:+	4	28
6628	PTPRC	ORF1	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000367376	chr1:198708339:+>chr1:198710998:+	4	28
6629	PTPRC	ORF1	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000594404	chr1:198708339:+>chr1:198710998:+	4	28
6630	PTPRC	ORF1	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000442510	chr1:198708339:+>chr1:198710998:+	4	28
6631	PTPRC	ORF1	chr1:198708339:+:L1M1>chr1:198710998:+:ENST00000348564	chr1:198708339:+>chr1:198710998:+	4	28
6632	CD8B	ORF3	chr2:87075916:-:AluSq2>chr2:87073896:-:ENST00000393759	chr2:87075916:->chr2:87073896:-	24	28
6633	CD8B	ORF3	chr2:87075916:-:AluSq2>chr2:87073896:-:ENST00000331469	chr2:87075916:->chr2:87073896:-	24	28
6634	CD8B	ORF3	chr2:87075916:-:AluSq2>chr2:87073896:-:ENST00000390655	chr2:87075916:->chr2:87073896:-	24	28
6635	CD164	ORF3	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000413644	chr6:109692741:->chr6:109691670:-	3	28
6636	CD164	ORF3	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000275080	chr6:109692741:->chr6:109691670:-	3	28
6637	CD164	ORF3	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000310786	chr6:109692741:->chr6:109691670:-	3	28
6638	CD164	ORF3	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000504373	chr6:109692741:->chr6:109691670:-	3	28
6639	SLC39A8	ORF3	chr4:103323036:-:Zaphod>chr4:103236987:-:ENST00000424970	chr4:103323036:->chr4:103236987:-	26	28
6640	SLC39A8	ORF3	chr4:103323036:-:Zaphod>chr4:103236987:-:ENST00000394833	chr4:103323036:->chr4:103236987:-	26	28
6641	SLC39A8	ORF3	chr4:103323036:-:Zaphod>chr4:103236987:-:ENST00000356736	chr4:103323036:->chr4:103236987:-	26	28
6642	FLOT1	ORF2	chr6:30706130:-:X7B_LINE>chr6:30695922:-:ENST00000376389	chr6:30706130:->chr6:30695922:-	19	28
6643	FLOT1	ORF2	chr6:30706130:-:X7B_LINE>chr6:30695922:-:ENST00000456573	chr6:30706130:->chr6:30695922:-	19	28
6644	SLC44A1	ORF1	chr9:108162263:+:AluSp>chr9:108200562:+:ENST00000374724	chr9:108162263:+>chr9:108200562:+	23	27
6645	SLC44A1	ORF1	chr9:108162263:+:AluSp>chr9:108200562:+:ENST00000343170	chr9:108162263:+>chr9:108200562:+	23	27
6646	GPR98	ORF2	chr5:90249033:+:MIRb>chr5:90261232:+:ENST00000405460	chr5:90249033:+>chr5:90261232:+	13	27
6647	GPR98	ORF2	chr5:90249033:+:MIRb>chr5:90261232:+:ENST00000425867	chr5:90249033:+>chr5:90261232:+	13	27
6648	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000377795	chr5:149925791:->chr5:149792301:-	13	27
6649	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000353334	chr5:149925791:->chr5:149792301:-	13	27
6650	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000524315	chr5:149925791:->chr5:149792301:-	13	27
6651	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000009530	chr5:149925791:->chr5:149792301:-	13	27
6652	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000523208	chr5:149925791:->chr5:149792301:-	13	27
6653	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000522246	chr5:149925791:->chr5:149792301:-	13	27
6654	CD74	ORF1	chr5:149925791:-:AluSg>chr5:149792301:-:ENST00000523813	chr5:149925791:->chr5:149792301:-	13	27
6655	ASTN1	ORF1	chr1:176882366:-:L3>chr1:176863966:-:ENST00000367657	chr1:176882366:->chr1:176863966:-	21	27
6656	ASTN1	ORF1	chr1:176882366:-:L3>chr1:176863966:-:ENST00000361833	chr1:176882366:->chr1:176863966:-	21	27
6657	ASTN1	ORF1	chr1:176882366:-:L3>chr1:176863966:-:ENST00000367654	chr1:176882366:->chr1:176863966:-	21	27
6658	ASTN1	ORF1	chr1:176882366:-:L3>chr1:176863966:-:ENST00000424564	chr1:176882366:->chr1:176863966:-	21	27
6659	TRABD2B	ORF1	chr1:48271527:-:MIR>chr1:48267291:-:ENST00000606738	chr1:48271527:->chr1:48267291:-	22	27
6660	CD81	ORF3	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000475945	chr11:2353285:+>chr11:2416688:+	22	27
6661	CD81	ORF3	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000263645	chr11:2353285:+>chr11:2416688:+	22	27
6662	CD81	ORF3	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000533417	chr11:2353285:+>chr11:2416688:+	22	27
6663	CD81	ORF3	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000492627	chr11:2353285:+>chr11:2416688:+	22	27
6664	CD81	ORF3	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000527343	chr11:2353285:+>chr11:2416688:+	22	27
6665	CD81	ORF3	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000464784	chr11:2353285:+>chr11:2416688:+	22	27
6666	CD81	ORF3	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000381036	chr11:2353285:+>chr11:2416688:+	22	27
6667	CD81	ORF3	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000492252	chr11:2353285:+>chr11:2416688:+	22	27
6668	CD81	ORF3	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000526072	chr11:2353285:+>chr11:2416688:+	22	27
6669	CD81	ORF3	chr11:2353285:+:SVA_F>chr11:2416688:+:ENST00000481687	chr11:2353285:+>chr11:2416688:+	22	27
6670	GJC3	ORF3	chr7:99532778:-:THE1B>chr7:99521226:-:ENST00000312891	chr7:99532778:->chr7:99521226:-	7	27
6671	ADAM10	ORF1	chr15:58942662:-:L1MEg>chr15:58938403:-:ENST00000260408	chr15:58942662:->chr15:58938403:-	19	27
6672	TM7SF3	ORF2	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000343028	chr12:27144286:->chr12:27143560:-	23	27
6673	TM7SF3	ORF2	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000545303	chr12:27144286:->chr12:27143560:-	23	27
6674	TM7SF3	ORF2	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000535260	chr12:27144286:->chr12:27143560:-	23	27
6675	TM7SF3	ORF2	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000543882	chr12:27144286:->chr12:27143560:-	23	27
6676	TM7SF3	ORF2	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000543655	chr12:27144286:->chr12:27143560:-	23	27
6677	TM7SF3	ORF2	chr12:27144286:-:AluYb9>chr12:27143560:-:ENST00000535819	chr12:27144286:->chr12:27143560:-	23	27

Table 15

6678	TFRC	ORF3	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000420415	chr3:195788242:->chr3:195787118:-	4	27
6679	TFRC	ORF3	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000360110	chr3:195788242:->chr3:195787118:-	4	27
6680	TFRC	ORF3	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000392396	chr3:195788242:->chr3:195787118:-	4	27
6681	TFRC	ORF3	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000535031	chr3:195788242:->chr3:195787118:-	4	27
6682	BMPR1B	ORF3	chr4:95983246:+:MSTA>chr4:96025559:+:ENST00000440890	chr4:95983246:+>chr4:96025559:+	13	27
6683	FAM174B	ORF1	chr15:93221360:-:MSTC>chr15:93173575:-:ENST00000327355	chr15:93221360:->chr15:93173575:-	22	27
6684	PAQR5	ORF3	chr15:69682983:+:MIRb>chr15:69689807:+:ENST00000395407	chr15:69682983:+>chr15:69689807:+	15	27
6685	PAQR5	ORF3	chr15:69682983:+:MIRb>chr15:69689807:+:ENST00000561153	chr15:69682983:+>chr15:69689807:+	15	27
6686	PAQR5	ORF3	chr15:69682983:+:MIRb>chr15:69689807:+:ENST00000340965	chr15:69682983:+>chr15:69689807:+	15	27
6687	CD97	ORF2	chr19:14515022:+:L2a>chr19:14515195:+:ENST00000358600	chr19:14515022:+>chr19:14515195:+	10	27
6688	CD97	ORF2	chr19:14515022:+:L2a>chr19:14515195:+:ENST00000357355	chr19:14515022:+>chr19:14515195:+	10	27
6689	CD97	ORF2	chr19:14515022:+:L2a>chr19:14515195:+:ENST00000242786	chr19:14515022:+>chr19:14515195:+	10	27
6690	ENPP3	ORF1	chr6:132046135:+:AluSz>chr6:132047186:+:ENST00000414305	chr6:132046135:+>chr6:132047186:+	13	27
6691	ENPP3	ORF1	chr6:132046135:+:AluSz>chr6:132047186:+:ENST00000357639	chr6:132046135:+>chr6:132047186:+	13	27
6692	ENPP3	ORF1	chr6:132046135:+:AluSz>chr6:132047186:+:ENST00000358229	chr6:132046135:+>chr6:132047186:+	13	27
6693	TSPAN14	ORF3	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000429989	chr10:82228443:+>chr10:82266984:+	18	27
6694	TSPAN14	ORF3	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000372157	chr10:82228443:+>chr10:82266984:+	18	27
6695	TSPAN14	ORF3	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000372164	chr10:82228443:+>chr10:82266984:+	18	27
6696	TSPAN14	ORF3	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000372158	chr10:82228443:+>chr10:82266984:+	18	27
6697	TSPAN14	ORF3	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000341863	chr10:82228443:+>chr10:82266984:+	18	27
6698	TSPAN14	ORF3	chr10:82228443:+:MER5A1>chr10:82266984:+:ENST00000372156	chr10:82228443:+>chr10:82266984:+	18	27
6699	FZD6	ORF1	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000522566	chr8:104325460:+>chr8:104330818:+	13	27
6700	FZD6	ORF1	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000358755	chr8:104325460:+>chr8:104330818:+	13	27
6701	FZD6	ORF1	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000522484	chr8:104325460:+>chr8:104330818:+	13	27
6702	FZD6	ORF1	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000523933	chr8:104325460:+>chr8:104330818:+	13	27
6703	FZD6	ORF1	chr8:104325460:+:MIRb>chr8:104330818:+:ENST00000523739	chr8:104325460:+>chr8:104330818:+	13	27
6704	FLOT1	ORF2	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000376389	chr6:30708763:->chr6:30708575:-	24	27
6705	FLOT1	ORF2	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000456573	chr6:30708763:->chr6:30708575:-	24	27
6706	FLOT1	ORF2	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000413165	chr6:30708763:->chr6:30708575:-	24	27
6707	FLOT1	ORF2	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000438162	chr6:30708763:->chr6:30708575:-	24	27
6708	FLOT1	ORF2	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000445853	chr6:30708763:->chr6:30708575:-	24	27
6709	FLOT1	ORF2	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000416018	chr6:30708763:->chr6:30708575:-	24	27
6710	FLOT1	ORF2	chr6:30708763:-:AluSx1>chr6:30708575:-:ENST00000454845	chr6:30708763:->chr6:30708575:-	24	27
6711	ITGB1	ORF3	chr10:33224275:-:L2>chr10:33217099:-:ENST00000423113	chr10:33224275:->chr10:33217099:-	22	27
6712	ITGB1	ORF3	chr10:33224275:-:L2>chr10:33217099:-:ENST00000396033	chr10:33224275:->chr10:33217099:-	22	27
6713	ITGB1	ORF3	chr10:33224275:-:L2>chr10:33217099:-:ENST00000302278	chr10:33224275:->chr10:33217099:-	22	27
6714	ITGB1	ORF3	chr10:33224275:-:L2>chr10:33217099:-:ENST00000374956	chr10:33224275:->chr10:33217099:-	22	27
6715	ITGB1	ORF1	chr10:33224275:-:L2>chr10:33217099:-:ENST00000480226	chr10:33224275:->chr10:33217099:-	19	27
6716	ITGB1	ORF3	chr10:33224275:-:L2>chr10:33217099:-:ENST00000480226	chr10:33224275:->chr10:33217099:-	22	27
6717	LPCAT2	ORF1	chr16:55614664:+:MER1B>chr16:55616826:+:ENST00000262134	chr16:55614664:+>chr16:55616826:+	24	27
6718	PVRL4	ORF3	chr1:161049877:-:MIRb>chr1:161049739:-:ENST00000368012	chr1:161049877:->chr1:161049739:-	13	26
6719	SLC39A8	ORF1	chr4:103184426:-:Tigger1>chr4:103184350:-:ENST00000424970	chr4:103184426:->chr4:103184350:-	21	26
6720	SLC39A8	ORF1	chr4:103184426:-:Tigger1>chr4:103184350:-:ENST00000394833	chr4:103184426:->chr4:103184350:-	21	26
6721	SLC39A8	ORF1	chr4:103184426:-:Tigger1>chr4:103184350:-:ENST00000356736	chr4:103184426:->chr4:103184350:-	21	26
6722	TENM2	ORF1	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000518659	chr5:167654073:+>chr5:167654900:+	16	26
6723	TENM2	ORF1	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000545108	chr5:167654073:+>chr5:167654900:+	16	26
6724	TENM2	ORF1	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000519204	chr5:167654073:+>chr5:167654900:+	16	26
6725	TENM2	ORF1	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000520394	chr5:167654073:+>chr5:167654900:+	16	26
6726	TENM2	ORF1	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000403607	chr5:167654073:+>chr5:167654900:+	16	26
6727	ANO1	ORF3	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000355303	chr11:69933693:+>chr11:69933858:+	17	26
6728	ANO1	ORF3	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000538023	chr11:69933693:+>chr11:69933858:+	17	26
6729	ANO1	ORF3	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000531604	chr11:69933693:+>chr11:69933858:+	17	26
6730	ANO1	ORF3	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000316296	chr11:69933693:+>chr11:69933858:+	17	26
6731	APCDD1	ORF3	chr18:10454378:+:G-rich>chr18:10468466:+:ENST00000355285	chr18:10454378:+>chr18:10468466:+	9	26
6732	APCDD1	ORF3	chr18:10454378:+:G-rich>chr18:10468466:+:ENST00000578882	chr18:10454378:+>chr18:10468466:+	9	26
6733	SLC52A2	ORF3	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000530047	chr8:145567965:+>chr8:145584645:+	16	26
6734	SLC52A2	ORF3	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000527078	chr8:145567965:+>chr8:145584645:+	16	26
6735	SLC52A2	ORF3	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000402965	chr8:145567965:+>chr8:145584645:+	16	26
6736	SLC52A2	ORF3	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000532887	chr8:145567965:+>chr8:145584645:+	16	26
6737	SLC52A2	ORF3	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000329994	chr8:145567965:+>chr8:145584645:+	16	26
6738	SLC52A2	ORF3	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000540505	chr8:145567965:+>chr8:145584645:+	16	26
6739	OPN3	ORF2	chr1:241764108:-:L2c>chr1:241761299:-:ENST00000366554	chr1:241764108:->chr1:241761299:-	8	26
6740	OPN3	ORF2	chr1:241764108:-:L2c>chr1:241761299:-:ENST00000331838	chr1:241764108:->chr1:241761299:-	8	26
6741	PROM2	ORF2	chr2:95940748:+:MIR3>chr2:95941209:+:ENST00000317620	chr2:95940748:+>chr2:95941209:+	18	26
6742	PROM2	ORF2	chr2:95940748:+:MIR3>chr2:95941209:+:ENST00000403131	chr2:95940748:+>chr2:95941209:+	18	26
6743	PROM2	ORF2	chr2:95940748:+:MIR3>chr2:95941209:+:ENST00000317668	chr2:95940748:+>chr2:95941209:+	18	26
6744	PROM2	ORF2	chr2:95940748:+:MIR3>chr2:95941209:+:ENST00000542147	chr2:95940748:+>chr2:95941209:+	18	26
6745	PROM2	ORF2	chr2:95940748:+:MIR3>chr2:95941209:+:ENST00000431567	chr2:95940748:+>chr2:95941209:+	18	26
6746	GPR161	ORF1	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000367838	chr1:168067120:->chr1:168066470:-	14	26
6747	GPR161	ORF1	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000271357	chr1:168067120:->chr1:168066470:-	14	26
6748	GPR161	ORF1	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000539777	chr1:168067120:->chr1:168066470:-	14	26
6749	GPR161	ORF1	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000361697	chr1:168067120:->chr1:168066470:-	14	26

Table 15

6750	GPR161	ORF1	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000537209	chr1:168067120:->chr1:168066470:-	14	26
6751	GPR161	ORF1	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000546300	chr1:168067120:->chr1:168066470:-	14	26
6752	GPR161	ORF1	chr1:168067120:-:MIR>chr1:168066470:-:ENST00000367835	chr1:168067120:->chr1:168066470:-	14	26
6753	HEG1	ORF2	chr3:124690838:-:AluJb>chr3:124689645:-:ENST00000311127	chr3:124690838:->chr3:124689645:-	22	26
6754	HEG1	ORF2	chr3:124690838:-:AluJb>chr3:124689645:-:ENST00000487661	chr3:124690838:->chr3:124689645:-	22	26
6755	NRXN1	ORF1	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000342183	chr2:50243636:->chr2:50170929:-	23	26
6756	NRXN1	ORF1	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000412315	chr2:50243636:->chr2:50170929:-	23	26
6757	NRXN1	ORF1	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000378262	chr2:50243636:->chr2:50170929:-	23	26
6758	NRXN1	ORF1	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000401710	chr2:50243636:->chr2:50170929:-	23	26
6759	NRXN1	ORF1	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000404971	chr2:50243636:->chr2:50170929:-	23	26
6760	NRXN1	ORF1	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000406316	chr2:50243636:->chr2:50170929:-	23	26
6761	NRXN1	ORF1	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000405472	chr2:50243636:->chr2:50170929:-	23	26
6762	NRXN1	ORF1	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000401669	chr2:50243636:->chr2:50170929:-	23	26
6763	NRXN1	ORF1	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000402717	chr2:50243636:->chr2:50170929:-	23	26
6764	NRXN1	ORF1	chr2:50243636:-:THE1D>chr2:50170929:-:ENST00000406859	chr2:50243636:->chr2:50170929:-	23	26
6765	SLC38A2	ORF3	chr12:46760160:-:Tigger4b>chr12:46758972:-:ENST00000256689	chr12:46760160:->chr12:46758972:-	22	26
6766	SLC38A2	ORF3	chr12:46760160:-:Tigger4b>chr12:46758972:-:ENST00000551374	chr12:46760160:->chr12:46758972:-	22	26
6767	SUSD3	ORF2	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000375472	chr9:95843805:+>chr9:95846819:+	14	26
6768	SUSD3	ORF2	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000465709	chr9:95843805:+>chr9:95846819:+	14	26
6769	SUSD3	ORF2	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000375469	chr9:95843805:+>chr9:95846819:+	14	26
6770	SUSD3	ORF2	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000471462	chr9:95843805:+>chr9:95846819:+	14	26
6771	GPR98	ORF2	chr5:90445323:+:THE1D>chr5:90445847:+:ENST00000405460	chr5:90445323:+>chr5:90445847:+	7	26
6772	GPR98	ORF2	chr5:90445323:+:THE1D>chr5:90445847:+:ENST00000425867	chr5:90445323:+>chr5:90445847:+	7	26
6773	TIGIT	ORF3	chr3:113995836:+:L1HS>chr3:114014392:+:ENST00000481065	chr3:113995836:+>chr3:114014392:+	25	26
6774	TIGIT	ORF3	chr3:113995836:+:L1HS>chr3:114014392:+:ENST00000486257	chr3:113995836:+>chr3:114014392:+	25	26
6775	TIGIT	ORF3	chr3:113995836:+:L1HS>chr3:114014392:+:ENST00000383671	chr3:113995836:+>chr3:114014392:+	25	26
6776	SLC29A2	ORF2	chr11:66134582:-:MIRb>chr11:66134035:-:ENST00000357440	chr11:66134582:->chr11:66134035:-	15	26
6777	SLC29A2	ORF2	chr11:66134582:-:MIRb>chr11:66134035:-:ENST00000540386	chr11:66134582:->chr11:66134035:-	15	26
6778	SLC29A2	ORF2	chr11:66134582:-:MIRb>chr11:66134035:-:ENST00000544554	chr11:66134582:->chr11:66134035:-	15	26
6779	SLC29A2	ORF2	chr11:66134582:-:MIRb>chr11:66134035:-:ENST00000546034	chr11:66134582:->chr11:66134035:-	15	26
6780	PTPRA	ORF1	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000380393	chr20:2977512:+>chr20:3007336:+	25	26
6781	PTPRA	ORF1	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000216877	chr20:2977512:+>chr20:3007336:+	25	26
6782	PTPRA	ORF1	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000358719	chr20:2977512:+>chr20:3007336:+	25	26
6783	PTPRA	ORF1	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000399903	chr20:2977512:+>chr20:3007336:+	25	26
6784	PTPRA	ORF1	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000425918	chr20:2977512:+>chr20:3007336:+	25	26
6785	PTPRA	ORF1	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000318266	chr20:2977512:+>chr20:3007336:+	25	26
6786	PTPRA	ORF1	chr20:2977512:+:L1ME4a>chr20:3007336:+:ENST00000356147	chr20:2977512:+>chr20:3007336:+	25	26
6787	BSG	ORF3	chr19:571098:+:LTR10B>chr19:579500:+:ENST00000333511	chr19:571098:+>chr19:579500:+	4	26
6788	BSG	ORF3	chr19:571098:+:LTR10B>chr19:579500:+:ENST00000353555	chr19:571098:+>chr19:579500:+	4	26
6789	TSPAN12	ORF2	chr7:120447344:-:Charlie18a>chr7:120446746:-:ENST00000222747	chr7:120447344:->chr7:120446746:-	20	26
6790	TSPAN12	ORF2	chr7:120447344:-:Charlie18a>chr7:120446746:-:ENST00000415871	chr7:120447344:->chr7:120446746:-	20	26
6791	KCNH2	ORF1	chr7:150666813:-:L2b>chr7:150656824:-:ENST00000392968	chr7:150666813:->chr7:150656824:-	14	26
6792	KCNH2	ORF1	chr7:150666813:-:L2b>chr7:150656824:-:ENST00000262186	chr7:150666813:->chr7:150656824:-	14	26
6793	KCNH2	ORF1	chr7:150666813:-:L2b>chr7:150656824:-:ENST00000430723	chr7:150666813:->chr7:150656824:-	14	26
6794	SPP1	ORF3	chr4:88899331:+:L1ME4a>chr4:88901198:+:ENST00000237623	chr4:88899331:+>chr4:88901198:+	13	26
6795	SPP1	ORF3	chr4:88899331:+:L1ME4a>chr4:88901198:+:ENST00000395080	chr4:88899331:+>chr4:88901198:+	13	26
6796	TRPC4	ORF2	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379705	chr13:38270156:->chr13:38266472:-	9	26
6797	TRPC4	ORF2	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000338947	chr13:38270156:->chr13:38266472:-	9	26
6798	TRPC4	ORF2	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379681	chr13:38270156:->chr13:38266472:-	9	26
6799	TRPC4	ORF2	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379679	chr13:38270156:->chr13:38266472:-	9	26
6800	TRPC4	ORF2	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000426868	chr13:38270156:->chr13:38266472:-	9	26
6801	TRPC4	ORF2	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000355779	chr13:38270156:->chr13:38266472:-	9	26
6802	TRPC4	ORF2	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000358477	chr13:38270156:->chr13:38266472:-	9	26
6803	TRPC4	ORF2	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000379673	chr13:38270156:->chr13:38266472:-	9	26
6804	TRPC4	ORF2	chr13:38270156:-:THE1B>chr13:38266472:-:ENST00000447043	chr13:38270156:->chr13:38266472:-	9	26
6805	CD44	ORF1	chr11:35250220:+:MIRb>chr11:35250676:+:ENST00000525688	chr11:35250220:+>chr11:35250676:+	13	25
6806	CDH3	ORF2	chr16:68708802:+:AluSx4>chr16:68719173:+:ENST00000264012	chr16:68708802:+>chr16:68719173:+	13	25
6807	CDH3	ORF2	chr16:68708802:+:AluSx4>chr16:68719173:+:ENST00000429102	chr16:68708802:+>chr16:68719173:+	13	25
6808	CDH3	ORF2	chr16:68708802:+:AluSx4>chr16:68719173:+:ENST00000581171	chr16:68708802:+>chr16:68719173:+	13	25
6809	C1orf186	ORF1	chr1:206263869:-:Tigger4>chr1:206243250:-:ENST00000331555	chr1:206263869:->chr1:206243250:-	17	25
6810	DSC2	ORF2	chr18:28666115:-:L2>chr18:28663026:-:ENST00000251081	chr18:28666115:->chr18:28663026:-	24	25
6811	DSC2	ORF2	chr18:28666115:-:L2>chr18:28663026:-:ENST00000280904	chr18:28666115:->chr18:28663026:-	24	25
6812	APP	ORF2	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000346798	chr21:27462572:->chr21:27462388:-	22	25
6813	APP	ORF2	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000354192	chr21:27462572:->chr21:27462388:-	22	25
6814	APP	ORF2	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000348990	chr21:27462572:->chr21:27462388:-	22	25
6815	APP	ORF2	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000357903	chr21:27462572:->chr21:27462388:-	22	25
6816	APP	ORF2	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000358918	chr21:27462572:->chr21:27462388:-	22	25
6817	APP	ORF2	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000359726	chr21:27462572:->chr21:27462388:-	22	25
6818	APP	ORF2	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000448388	chr21:27462572:->chr21:27462388:-	22	25
6819	APP	ORF2	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000440126	chr21:27462572:->chr21:27462388:-	22	25
6820	APP	ORF2	chr21:27462572:-:Tigger4a>chr21:27462388:-:ENST00000439274	chr21:27462572:->chr21:27462388:-	22	25
6821	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000370931	chr1:71507004:->chr1:71478167:-	12	25

Table 15

6822	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000351052	chr1:71507004:->chr1:71478167:-	12	25
6823	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000370932	chr1:71507004:->chr1:71478167:-	12	25
6824	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000497146	chr1:71507004:->chr1:71478167:-	12	25
6825	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000361210	chr1:71507004:->chr1:71478167:-	12	25
6826	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000479353	chr1:71507004:->chr1:71478167:-	12	25
6827	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000460330	chr1:71507004:->chr1:71478167:-	12	25
6828	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000354608	chr1:71507004:->chr1:71478167:-	12	25
6829	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000356595	chr1:71507004:->chr1:71478167:-	12	25
6830	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000414819	chr1:71507004:->chr1:71478167:-	12	25
6831	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000306666	chr1:71507004:->chr1:71478167:-	12	25
6832	PTGER3	ORF3	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000370924	chr1:71507004:->chr1:71478167:-	12	25
6833	ANPEP	ORF3	chr15:90337031:-:L1ME4a>chr15:90336357:-:ENST00000300060	chr15:90337031:->chr15:90336357:-	9	25
6834	FAIM2	ORF2	chr12:50264776:-:L2b>chr12:50264310:-:ENST00000320634	chr12:50264776:->chr12:50264310:-	21	25
6835	FAIM2	ORF2	chr12:50264776:-:L2b>chr12:50264310:-:ENST00000550890	chr12:50264776:->chr12:50264310:-	21	25
6836	TMPRSS4	ORF1	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000534111	chr11:117970832:+>chr11:117973816:+	19	25
6837	TMPRSS4	ORF1	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000519236	chr11:117970832:+>chr11:117973816:+	19	25
6838	TMPRSS4	ORF1	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000523251	chr11:117970832:+>chr11:117973816:+	19	25
6839	TMPRSS4	ORF1	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000517483	chr11:117970832:+>chr11:117973816:+	19	25
6840	TMPRSS4	ORF1	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000437212	chr11:117970832:+>chr11:117973816:+	19	25
6841	TMPRSS4	ORF1	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000522824	chr11:117970832:+>chr11:117973816:+	19	25
6842	TMPRSS4	ORF1	chr11:117970832:+:MIRc>chr11:117973816:+:ENST00000517544	chr11:117970832:+>chr11:117973816:+	19	25
6843	VEZT	ORF2	chr12:95636040:+:AluJr>chr12:95637717:+:ENST00000551039	chr12:95636040:+>chr12:95637717:+	3	25
6844	SEMA6B	ORF1	chr19:4545583:-:AluJb>chr19:4544541:-:ENST00000301293	chr19:4545583:->chr19:4544541:-	9	25
6845	SEMA6B	ORF1	chr19:4545583:-:AluJb>chr19:4544541:-:ENST00000586582	chr19:4545583:->chr19:4544541:-	9	25
6846	SEMA6B	ORF1	chr19:4545583:-:AluJb>chr19:4544541:-:ENST00000586965	chr19:4545583:->chr19:4544541:-	9	25
6847	PROM2	ORF3	chr2:95940748:+:MIR3>chr2:95941211:+:ENST00000317620	chr2:95940748:+>chr2:95941211:+	18	25
6848	PROM2	ORF3	chr2:95940748:+:MIR3>chr2:95941211:+:ENST00000403131	chr2:95940748:+>chr2:95941211:+	18	25
6849	PROM2	ORF3	chr2:95940748:+:MIR3>chr2:95941211:+:ENST00000317668	chr2:95940748:+>chr2:95941211:+	18	25
6850	PROM2	ORF3	chr2:95940748:+:MIR3>chr2:95941211:+:ENST00000542147	chr2:95940748:+>chr2:95941211:+	18	25
6851	PROM2	ORF3	chr2:95940748:+:MIR3>chr2:95941211:+:ENST00000431567	chr2:95940748:+>chr2:95941211:+	18	25
6852	ITGA3	ORF3	chr17:48164357:+:AluSp>chr17:48165108:+:ENST00000320031	chr17:48164357:+>chr17:48165108:+	20	25
6853	ITGA3	ORF3	chr17:48164357:+:AluSp>chr17:48165108:+:ENST00000007722	chr17:48164357:+>chr17:48165108:+	20	25
6854	VAMP8	ORF3	chr2:85807766:+:MER115>chr2:85808699:+:ENST00000409760	chr2:85807766:+>chr2:85808699:+	23	25
6855	FAIM2	ORF2	chr12:50264776:-:L2b>chr12:50264436:-:ENST00000320634	chr12:50264776:->chr12:50264436:-	21	25
6856	FAIM2	ORF2	chr12:50264776:-:L2b>chr12:50264436:-:ENST00000550890	chr12:50264776:->chr12:50264436:-	21	25
6857	FAIM2	ORF2	chr12:50264776:-:L2b>chr12:50264436:-:ENST00000552669	chr12:50264776:->chr12:50264436:-	21	25
6858	FAIM2	ORF2	chr12:50264776:-:L2b>chr12:50264436:-:ENST00000552863	chr12:50264776:->chr12:50264436:-	21	25
6859	SLCO2B1	ORF1	chr11:74751690:+:HERVE_a-int>chr11:74873700:+:ENST00000289575	chr11:74751690:+>chr11:74873700:+	21	25
6860	SLC7A8	ORF2	chr14:23610894:-:AluSz>chr14:23609833:-:ENST00000339733	chr14:23610894:->chr14:23609833:-	13	25
6861	SLC7A8	ORF2	chr14:23610894:-:AluSz>chr14:23609833:-:ENST00000316902	chr14:23610894:->chr14:23609833:-	13	25
6862	SLC7A8	ORF2	chr14:23610894:-:AluSz>chr14:23609833:-:ENST00000469263	chr14:23610894:->chr14:23609833:-	13	25
6863	SLC7A8	ORF2	chr14:23610894:-:AluSz>chr14:23609833:-:ENST00000453702	chr14:23610894:->chr14:23609833:-	13	25
6864	SLC7A8	ORF2	chr14:23610894:-:AluSz>chr14:23609833:-:ENST00000529705	chr14:23610894:->chr14:23609833:-	13	25
6865	GPR176	ORF1	chr15:40186733:-:SVA_F>chr15:40094455:-:ENST00000299092	chr15:40186733:->chr15:40094455:-	12	25
6866	GPR176	ORF1	chr15:40186733:-:SVA_F>chr15:40094455:-:ENST00000561100	chr15:40186733:->chr15:40094455:-	12	25
6867	GPR176	ORF1	chr15:40186733:-:SVA_F>chr15:40094455:-:ENST00000543580	chr15:40186733:->chr15:40094455:-	12	25
6868	ITGAV	ORF1	chr2:187484317:+:L1MA5A>chr2:187487066:+:ENST00000261023	chr2:187484317:+>chr2:187487066:+	3	25
6869	ITGAV	ORF1	chr2:187484317:+:L1MA5A>chr2:187487066:+:ENST00000374907	chr2:187484317:+>chr2:187487066:+	3	25
6870	ITGAV	ORF1	chr2:187484317:+:L1MA5A>chr2:187487066:+:ENST00000433736	chr2:187484317:+>chr2:187487066:+	3	25
6871	CDH2	ORF2	chr18:25540816:-:Tigger16b>chr18:25532323:-:ENST00000269141	chr18:25540816:->chr18:25532323:-	7	25
6872	CDH2	ORF2	chr18:25540816:-:Tigger16b>chr18:25532323:-:ENST00000399380	chr18:25540816:->chr18:25532323:-	7	25
6873	ENPEP	ORF2	chr4:111472030:+:ERVL-E-int>chr4:111474471:+:ENST00000265162	chr4:111472030:+>chr4:111474471:+	14	25
6874	SLC16A9	ORF1	chr10:61448033:-:LSU-rRNA_Hsa>chr10:61443955:-:ENST00000395348	chr10:61448033:->chr10:61443955:-	19	25
6875	SLC16A9	ORF1	chr10:61448033:-:LSU-rRNA_Hsa>chr10:61443955:-:ENST00000395347	chr10:61448033:->chr10:61443955:-	19	25
6876	GABBR2	ORF2	chr9:101249441:-:Charlie16a>chr9:101243279:-:ENST00000259455	chr9:101249441:->chr9:101243279:-	23	25
6877	SLC9A1	ORF2	chr1:27445289:-:MIR3>chr1:27440777:-:ENST00000374084	chr1:27445289:->chr1:27440777:-	7	25
6878	LPCAT2	ORF3	chr16:55614664:+:MER1B>chr16:55616826:+:ENST00000262134	chr16:55614664:+>chr16:55616826:+	18	25
6879	BST2	ORF3	chr19:17562617:-:AluJo>chr19:17516147:-:ENST00000252593	chr19:17562617:->chr19:17516147:-	8	24
6880	TNFRSF21	ORF3	chr6:47275281:-:AluJr>chr6:47254331:-:ENST00000296861	chr6:47275281:->chr6:47254331:-	20	24
6881	GRM8	ORF3	chr7:126136413:-:MIR3>chr7:126086426:-:ENST00000444921	chr7:126136413:->chr7:126086426:-	12	24
6882	GRM8	ORF3	chr7:126136413:-:MIR3>chr7:126086426:-:ENST00000339582	chr7:126136413:->chr7:126086426:-	12	24
6883	GRM8	ORF3	chr7:126136413:-:MIR3>chr7:126086426:-:ENST00000358373	chr7:126136413:->chr7:126086426:-	12	24
6884	GRM8	ORF3	chr7:126136413:-:MIR3>chr7:126086426:-:ENST00000472701	chr7:126136413:->chr7:126086426:-	12	24
6885	SLC52A2	ORF2	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000530047	chr8:145567965:+>chr8:145584645:+	17	24
6886	SLC52A2	ORF2	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000527078	chr8:145567965:+>chr8:145584645:+	17	24
6887	SLC52A2	ORF2	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000402965	chr8:145567965:+>chr8:145584645:+	17	24
6888	SLC52A2	ORF2	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000532887	chr8:145567965:+>chr8:145584645:+	17	24
6889	SLC52A2	ORF2	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000329994	chr8:145567965:+>chr8:145584645:+	17	24
6890	SLC52A2	ORF2	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000540505	chr8:145567965:+>chr8:145584645:+	17	24
6891	SLC52A2	ORF2	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000526752	chr8:145567965:+>chr8:145584645:+	17	24
6892	SLC52A2	ORF3	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000526752	chr8:145567965:+>chr8:145584645:+	16	24
6893	TRAC	ORF2	chr14:22973970:+:AluJr4>chr14:23016447:+:ENST00000478163	chr14:22973970:+>chr14:23016447:+	13	24

Table 15

6894	SGCB	ORF1	chr4:52898031:-:HAL1>chr4:52896029:-:ENST00000381431	chr4:52898031:->chr4:52896029:-	8	24
6895	SGCB	ORF1	chr4:52898031:-:HAL1>chr4:52896029:-:ENST00000535450	chr4:52898031:->chr4:52896029:-	8	24
6896	NTSR1	ORF1	chr20:61368391:+:THE1D>chr20:61386037:+:ENST00000370501	chr20:61368391:+>chr20:61386037:+	7	24
6897	LGR6	ORF1	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000367278	chr1:202205792:+>chr1:202245434:+	9	24
6898	LGR6	ORF1	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000255432	chr1:202205792:+>chr1:202245434:+	9	24
6899	LGR6	ORF1	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000487787	chr1:202205792:+>chr1:202245434:+	9	24
6900	LGR6	ORF1	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000423542	chr1:202205792:+>chr1:202245434:+	9	24
6901	GRPR	ORF2	chrX:16026822:+:L2c>chrX:16168428:+:ENST00000380289	chrX:16026822:+>chrX:16168428:+	8	24
6902	TMPRSS2	ORF3	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000332149	chr21:42864922:->chr21:42861520:-	22	24
6903	TMPRSS2	ORF3	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000398585	chr21:42864922:->chr21:42861520:-	22	24
6904	TMPRSS2	ORF3	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000458356	chr21:42864922:->chr21:42861520:-	22	24
6905	TMPRSS2	ORF3	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000454499	chr21:42864922:->chr21:42861520:-	22	24
6906	TMPRSS2	ORF3	chr21:42864922:-:MER20>chr21:42861520:-:ENST00000424093	chr21:42864922:->chr21:42861520:-	22	24
6907	FAS	ORF2	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000355740	chr10:90713663:+>chr10:90762786:+	7	24
6908	FAS	ORF2	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000352159	chr10:90713663:+>chr10:90762786:+	7	24
6909	FAS	ORF2	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000484444	chr10:90713663:+>chr10:90762786:+	7	24
6910	FAS	ORF2	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000357339	chr10:90713663:+>chr10:90762786:+	7	24
6911	FAS	ORF2	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000488877	chr10:90713663:+>chr10:90762786:+	7	24
6912	FAS	ORF2	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000479522	chr10:90713663:+>chr10:90762786:+	7	24
6913	FAS	ORF2	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000494410	chr10:90713663:+>chr10:90762786:+	7	24
6914	FAS	ORF2	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000355279	chr10:90713663:+>chr10:90762786:+	7	24
6915	FAS	ORF2	chr10:90713663:+:THE1D>chr10:90762786:+:ENST00000492756	chr10:90713663:+>chr10:90762786:+	7	24
6916	BTLA	ORF2	chr3:112200259:-:MSTD-int>chr3:112198616:-:ENST00000334529	chr3:112200259:->chr3:112198616:-	14	24
6917	BTLA	ORF2	chr3:112200259:-:MSTD-int>chr3:112198616:-:ENST00000383680	chr3:112200259:->chr3:112198616:-	14	24
6918	SLC22A16	ORF2	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000451557	chr6:110774731:->chr6:110768193:-	12	24
6919	SLC22A16	ORF2	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000368919	chr6:110774731:->chr6:110768193:-	12	24
6920	SLC22A16	ORF2	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000330550	chr6:110774731:->chr6:110768193:-	12	24
6921	SLC22A16	ORF2	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000439654	chr6:110774731:->chr6:110768193:-	12	24
6922	SLC22A16	ORF2	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000434949	chr6:110774731:->chr6:110768193:-	12	24
6923	SLC22A16	ORF2	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000437378	chr6:110774731:->chr6:110768193:-	12	24
6924	SLC22A16	ORF2	chr6:110774731:-:LTR40c>chr6:110768193:-:ENST00000424139	chr6:110774731:->chr6:110768193:-	12	24
6925	SLC2A5	ORF3	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000377424	chr1:9128439:->chr1:9118309:-	22	24
6926	SLC2A5	ORF3	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000377414	chr1:9128439:->chr1:9118309:-	22	24
6927	SLC2A5	ORF3	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000484798	chr1:9128439:->chr1:9118309:-	22	24
6928	SLC2A5	ORF3	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000474145	chr1:9128439:->chr1:9118309:-	22	24
6929	SLC2A5	ORF3	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000479813	chr1:9128439:->chr1:9118309:-	22	24
6930	SLC2A5	ORF3	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000486632	chr1:9128439:->chr1:9118309:-	22	24
6931	SLC2A5	ORF3	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000487835	chr1:9128439:->chr1:9118309:-	22	24
6932	SLC2A5	ORF3	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000464985	chr1:9128439:->chr1:9118309:-	22	24
6933	SLC2A5	ORF3	chr1:9128439:-:MIR>chr1:9118309:-:ENST00000473209	chr1:9128439:->chr1:9118309:-	22	24
6934	CDH1	ORF2	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000261769	chr16:68769053:+>chr16:68772200:+	8	24
6935	CDH1	ORF2	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000566612	chr16:68769053:+>chr16:68772200:+	8	24
6936	CDH1	ORF2	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000422392	chr16:68769053:+>chr16:68772200:+	8	24
6937	CDH1	ORF2	chr16:68769053:+:MIRb>chr16:68772200:+:ENST00000566510	chr16:68769053:+>chr16:68772200:+	8	24
6938	GGT1	ORF1	chr22:25020113:+:L2>chr22:25023399:+:ENST00000248923	chr22:25020113:+>chr22:25023399:+	5	24
6939	GGT1	ORF1	chr22:25020113:+:L2>chr22:25023399:+:ENST00000412658	chr22:25020113:+>chr22:25023399:+	5	24
6940	GGT1	ORF1	chr22:25020113:+:L2>chr22:25023399:+:ENST00000400382	chr22:25020113:+>chr22:25023399:+	5	24
6941	GGT1	ORF1	chr22:25020113:+:L2>chr22:25023399:+:ENST00000400383	chr22:25020113:+>chr22:25023399:+	5	24
6942	GGT1	ORF1	chr22:25020113:+:L2>chr22:25023399:+:ENST00000400380	chr22:25020113:+>chr22:25023399:+	5	24
6943	GGT1	ORF1	chr22:25020113:+:L2>chr22:25023399:+:ENST00000406383	chr22:25020113:+>chr22:25023399:+	5	24
6944	GGT1	ORF1	chr22:25020113:+:L2>chr22:25023399:+:ENST00000425895	chr22:25020113:+>chr22:25023399:+	5	24
6945	GGT1	ORF2	chr22:25020113:+:L2>chr22:25023399:+:ENST00000425895	chr22:25020113:+>chr22:25023399:+	5	24
6946	ITGB1	ORF2	chr10:33224275:-:L2>chr10:33217099:-:ENST00000480226	chr10:33224275:->chr10:33217099:-	17	24
6947	SORCS2	ORF2	chr4:7680195:+:MIR>chr4:7684470:+:ENST00000507866	chr4:7680195:+>chr4:7684470:+	20	24
6948	SORCS2	ORF2	chr4:7680195:+:MIR>chr4:7684470:+:ENST00000329016	chr4:7680195:+>chr4:7684470:+	20	24
6949	LRP2	ORF3	chr2:170205691:-:L2a>chr2:170177394:-:ENST00000263816	chr2:170205691:->chr2:170177394:-	21	23
6950	LRP2	ORF3	chr2:170205691:-:L2a>chr2:170177394:-:ENST00000443831	chr2:170205691:->chr2:170177394:-	21	23
6951	DSG2	ORF1	chr18:29076818:+:LTR66>chr18:29098202:+:ENST00000261590	chr18:29076818:+>chr18:29098202:+	20	23
6952	DSG2	ORF1	chr18:29076818:+:LTR66>chr18:29098202:+:ENST00000585206	chr18:29076818:+>chr18:29098202:+	20	23
6953	CDH3	ORF3	chr16:68708802:+:AluSx4>chr16:68719205:+:ENST00000264012	chr16:68708802:+>chr16:68719205:+	21	23
6954	CDH3	ORF3	chr16:68708802:+:AluSx4>chr16:68719205:+:ENST00000429102	chr16:68708802:+>chr16:68719205:+	21	23
6955	CDH3	ORF3	chr16:68708802:+:AluSx4>chr16:68719205:+:ENST00000581171	chr16:68708802:+>chr16:68719205:+	21	23
6956	ANO1	ORF2	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000355303	chr11:69912149:+>chr11:69933858:+	21	23
6957	ANO1	ORF2	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000538023	chr11:69912149:+>chr11:69933858:+	21	23
6958	ANO1	ORF2	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000531604	chr11:69912149:+>chr11:69933858:+	21	23
6959	ANO1	ORF2	chr11:69912149:+:L2a>chr11:69933858:+:ENST00000316296	chr11:69912149:+>chr11:69933858:+	21	23
6960	EPHB2	ORF2	chr1:23126043:+:MIRb>chr1:23189530:+:ENST00000544305	chr1:23126043:+>chr1:23189530:+	10	23
6961	EPHB2	ORF2	chr1:23126043:+:MIRb>chr1:23189530:+:ENST00000374630	chr1:23126043:+>chr1:23189530:+	10	23
6962	EPHB2	ORF2	chr1:23126043:+:MIRb>chr1:23189530:+:ENST00000400191	chr1:23126043:+>chr1:23189530:+	10	23
6963	EPHB2	ORF2	chr1:23126043:+:MIRb>chr1:23189530:+:ENST00000374632	chr1:23126043:+>chr1:23189530:+	10	23
6964	EPHB2	ORF2	chr1:23126043:+:MIRb>chr1:23189530:+:ENST00000374627	chr1:23126043:+>chr1:23189530:+	10	23
6965	MUC21	ORF3	chr6:30952085:+:MIR>chr6:30954014:+:ENST00000376296	chr6:30952085:+>chr6:30954014:+	18	23

Table 15

6966	SAT1	ORF3	chrX:23766160:+:AluSx>chrX:23803814:+:ENST00000379254	chrX:23766160:+>chrX:23803814:+	9	23
6967	SAT1	ORF3	chrX:23766160:+:AluSx>chrX:23803814:+:ENST00000379270	chrX:23766160:+>chrX:23803814:+	9	23
6968	PTPRZ1	ORF2	chr7:121668488:+:L1M3>chr7:121668606:+:ENST00000393386	chr7:121668488:+>chr7:121668606:+	7	23
6969	PTPRZ1	ORF2	chr7:121668488:+:L1M3>chr7:121668606:+:ENST00000449182	chr7:121668488:+>chr7:121668606:+	7	23
6970	BACE2	ORF1	chr21:42609349:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42609349:+>chr21:42609440:+	10	23
6971	BACE2	ORF1	chr21:42609349:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42609349:+>chr21:42609440:+	10	23
6972	BACE2	ORF1	chr21:42609349:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42609349:+>chr21:42609440:+	10	23
6973	TM7SF3	ORF2	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000542019	chr12:27153625:->chr12:27152581:-	13	23
6974	APP	ORF3	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000346798	chr21:27478879:->chr21:27462388:-	12	23
6975	APP	ORF3	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000354192	chr21:27478879:->chr21:27462388:-	12	23
6976	APP	ORF3	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000348990	chr21:27478879:->chr21:27462388:-	12	23
6977	APP	ORF3	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000357903	chr21:27478879:->chr21:27462388:-	12	23
6978	APP	ORF3	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000358918	chr21:27478879:->chr21:27462388:-	12	23
6979	APP	ORF3	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000359726	chr21:27478879:->chr21:27462388:-	12	23
6980	APP	ORF3	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000448388	chr21:27478879:->chr21:27462388:-	12	23
6981	APP	ORF3	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000440126	chr21:27478879:->chr21:27462388:-	12	23
6982	APP	ORF3	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000439274	chr21:27478879:->chr21:27462388:-	12	23
6983	NCAM1	ORF3	chr11:113094766:+:L1PA5>chr11:113102367:+:ENST00000533760	chr11:113094766:+>chr11:113102367:+	6	23
6984	NCAM1	ORF3	chr11:113094766:+:L1PA5>chr11:113102367:+:ENST00000524665	chr11:113094766:+>chr11:113102367:+	6	23
6985	NCAM1	ORF3	chr11:113094766:+:L1PA5>chr11:113102367:+:ENST00000534015	chr11:113094766:+>chr11:113102367:+	6	23
6986	NCAM1	ORF3	chr11:113094766:+:L1PA5>chr11:113102367:+:ENST00000401611	chr11:113094766:+>chr11:113102367:+	6	23
6987	NCAM1	ORF3	chr11:113094766:+:L1PA5>chr11:113102367:+:ENST00000316851	chr11:113094766:+>chr11:113102367:+	6	23
6988	NRG4	ORF2	chr15:76251363:-:AluJr>chr15:76248347:-:ENST00000566417	chr15:76251363:->chr15:76248347:-	8	23
6989	NRG4	ORF2	chr15:76251363:-:AluJr>chr15:76248347:-:ENST00000394907	chr15:76251363:->chr15:76248347:-	8	23
6990	NRG4	ORF2	chr15:76251363:-:AluJr>chr15:76248347:-:ENST00000563910	chr15:76251363:->chr15:76248347:-	8	23
6991	RHBDF2	ORF3	chr17:74471913:-:AluSx>chr17:74471223:-:ENST00000389760	chr17:74471913:->chr17:74471223:-	16	23
6992	RHBDF2	ORF3	chr17:74471913:-:AluSx>chr17:74471223:-:ENST00000313080	chr17:74471913:->chr17:74471223:-	16	23
6993	RHBDF2	ORF3	chr17:74471913:-:AluSx>chr17:74471223:-:ENST00000591885	chr17:74471913:->chr17:74471223:-	16	23
6994	ITGA3	ORF2	chr17:48150385:+:Tigger15a>chr17:48151280:+:ENST00000544892	chr17:48150385:+>chr17:48151280:+	15	23
6995	ITGA3	ORF2	chr17:48150385:+:Tigger15a>chr17:48151280:+:ENST00000320031	chr17:48150385:+>chr17:48151280:+	15	23
6996	ITGA3	ORF2	chr17:48150385:+:Tigger15a>chr17:48151280:+:ENST00000007722	chr17:48150385:+>chr17:48151280:+	15	23
6997	ITGA3	ORF2	chr17:48150385:+:Tigger15a>chr17:48151280:+:ENST00000512553	chr17:48150385:+>chr17:48151280:+	15	23
6998	ITGA3	ORF2	chr17:48150385:+:Tigger15a>chr17:48151280:+:ENST00000510809	chr17:48150385:+>chr17:48151280:+	15	23
6999	GPR37L1	ORF1	chr1:202036765:+:ERV3-16A3_I-int>chr1:202096869:+:ENST00000367282	chr1:202036765:+>chr1:202096869:+	7	23
7000	CRTAM	ORF2	chr11:122700370:+:HERVH-int>chr11:122720776:+:ENST00000227348	chr11:122700370:+>chr11:122720776:+	18	23
7001	IGSF9B	ORF3	chr11:133784211:-:MIRb>chr11:133781902:-:ENST00000533871	chr11:133784211:->chr11:133781902:-	11	23
7002	ADCY2	ORF3	chr5:7639181:+:THE1B>chr5:7690804:+:ENST00000338316	chr5:7639181:+>chr5:7690804:+	7	23
7003	ADCY2	ORF3	chr5:7639181:+:THE1B>chr5:7690804:+:ENST00000515681	chr5:7639181:+>chr5:7690804:+	7	23
7004	ADCY2	ORF3	chr5:7639181:+:THE1B>chr5:7690804:+:ENST00000537121	chr5:7639181:+>chr5:7690804:+	7	23
7005	ATP2B1	ORF2	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000261173	chr12:89994657:->chr12:89993076:-	13	23
7006	ATP2B1	ORF2	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000348959	chr12:89994657:->chr12:89993076:-	13	23
7007	ATP2B1	ORF2	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000359142	chr12:89994657:->chr12:89993076:-	13	23
7008	ATP2B1	ORF2	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000428670	chr12:89994657:->chr12:89993076:-	13	23
7009	ATP2B1	ORF2	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000393164	chr12:89994657:->chr12:89993076:-	13	23
7010	ATP2B1	ORF2	chr12:89994657:-:AluSq10>chr12:89993076:-:ENST00000550716	chr12:89994657:->chr12:89993076:-	13	23
7011	C1orf186	ORF1	chr1:206288105:-:Harlequin-int>chr1:206243250:-:ENST00000331555	chr1:206288105:->chr1:206243250:-	15	23
7012	SLC6A20	ORF2	chr3:45813050:-:MIR3>chr3:45812950:-:ENST00000353278	chr3:45813050:->chr3:45812950:-	22	23
7013	SLC6A20	ORF2	chr3:45813050:-:MIR3>chr3:45812950:-:ENST00000358525	chr3:45813050:->chr3:45812950:-	22	23
7014	SLC6A20	ORF2	chr3:45813050:-:MIR3>chr3:45812950:-:ENST00000456124	chr3:45813050:->chr3:45812950:-	22	23
7015	SLC6A20	ORF2	chr3:45813050:-:MIR3>chr3:45812950:-:ENST00000413781	chr3:45813050:->chr3:45812950:-	22	23
7016	KIRREL3	ORF2	chr11:126423799:-:MER21-int>chr11:126396582:-:ENST00000525144	chr11:126423799:->chr11:126396582:-	3	23
7017	KIRREL3	ORF2	chr11:126423799:-:MER21-int>chr11:126396582:-:ENST00000529097	chr11:126423799:->chr11:126396582:-	3	23
7018	KIRREL3	ORF2	chr11:126423799:-:MER21-int>chr11:126396582:-:ENST00000525704	chr11:126423799:->chr11:126396582:-	3	23
7019	EPCAM	ORF2	chr2:47599769:+:AluSg>chr2:47600602:+:ENST00000405271	chr2:47599769:+>chr2:47600602:+	19	23
7020	EPCAM	ORF2	chr2:47599769:+:AluSg>chr2:47600602:+:ENST00000456133	chr2:47599769:+>chr2:47600602:+	19	23
7021	EPCAM	ORF2	chr2:47599769:+:AluSg>chr2:47600602:+:ENST00000263735	chr2:47599769:+>chr2:47600602:+	19	23
7022	EPCAM	ORF2	chr2:47599769:+:AluSg>chr2:47600602:+:ENST00000419334	chr2:47599769:+>chr2:47600602:+	19	23
7023	IL2RG	ORF2	chrX:70328686:-:MIRb>chrX:70328545:-:ENST00000464642	chrX:70328686:->chrX:70328545:-	12	23
7024	ITGAV	ORF2	chr2:187484317:+:L1MA5A>chr2:187487066:+:ENST00000261023	chr2:187484317:+>chr2:187487066:+	21	23
7025	ITGAV	ORF2	chr2:187484317:+:L1MA5A>chr2:187487066:+:ENST00000374907	chr2:187484317:+>chr2:187487066:+	21	23
7026	ITGAV	ORF2	chr2:187484317:+:L1MA5A>chr2:187487066:+:ENST00000433736	chr2:187484317:+>chr2:187487066:+	21	23
7027	CD164	ORF3	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000512821	chr6:109692741:->chr6:109691670:-	3	23
7028	CLSTN3	ORF3	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000541953	chr12:7284070:+>chr12:7285620:+	15	23
7029	CLSTN3	ORF3	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000266546	chr12:7284070:+>chr12:7285620:+	15	23
7030	CLSTN3	ORF3	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000539982	chr12:7284070:+>chr12:7285620:+	15	23
7031	CLSTN3	ORF3	chr12:7284070:+:GA-rich>chr12:7285620:+:ENST00000537408	chr12:7284070:+>chr12:7285620:+	15	23
7032	GPR98	ORF1	chr5:90277962:+:MER6A>chr5:90281161:+:ENST00000405460	chr5:90277962:+>chr5:90281161:+	11	22
7033	GPR98	ORF1	chr5:90277962:+:MER6A>chr5:90281161:+:ENST00000425867	chr5:90277962:+>chr5:90281161:+	11	22
7034	CD86	ORF3	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000493101	chr3:121681042:+>chr3:121810448:+	18	22
7035	CD86	ORF3	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000264468	chr3:121681042:+>chr3:121810448:+	18	22
7036	CD86	ORF3	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000330540	chr3:121681042:+>chr3:121810448:+	18	22
7037	CD86	ORF3	chr3:121681042:+:THE1A>chr3:121810448:+:ENST00000478741	chr3:121681042:+>chr3:121810448:+	18	22

Table 15

7038	CD74	ORF1	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000377795	chr5:149832091:->chr5:149792292:-	11	22
7039	CD74	ORF1	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000353334	chr5:149832091:->chr5:149792292:-	11	22
7040	CD74	ORF1	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000518797	chr5:149832091:->chr5:149792292:-	11	22
7041	CD74	ORF1	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000524315	chr5:149832091:->chr5:149792292:-	11	22
7042	CD74	ORF1	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000009530	chr5:149832091:->chr5:149792292:-	11	22
7043	CD74	ORF1	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000523208	chr5:149832091:->chr5:149792292:-	11	22
7044	CD74	ORF1	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000522246	chr5:149832091:->chr5:149792292:-	11	22
7045	CD74	ORF1	chr5:149832091:-:AluSx1>chr5:149792292:-:ENST00000523813	chr5:149832091:->chr5:149792292:-	11	22
7046	CD79A	ORF1	chr19:42382564:+:MIR>chr19:42383060:+:ENST00000221972	chr19:42382564:+>chr19:42383060:+	7	22
7047	CD79A	ORF1	chr19:42382564:+:MIR>chr19:42383060:+:ENST00000597454	chr19:42382564:+>chr19:42383060:+	7	22
7048	CD79A	ORF1	chr19:42382564:+:MIR>chr19:42383060:+:ENST00000444740	chr19:42382564:+>chr19:42383060:+	7	22
7049	NCAM2	ORF3	chr21:22829258:+:MLT1A0>chr21:22838927:+:ENST00000400546	chr21:22829258:+>chr21:22838927:+	8	22
7050	NCAM2	ORF3	chr21:22829258:+:MLT1A0>chr21:22838927:+:ENST00000284894	chr21:22829258:+>chr21:22838927:+	8	22
7051	TENM2	ORF3	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000518659	chr5:167654073:+>chr5:167654900:+	8	22
7052	TENM2	ORF3	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000545108	chr5:167654073:+>chr5:167654900:+	8	22
7053	TENM2	ORF3	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000519204	chr5:167654073:+>chr5:167654900:+	8	22
7054	TENM2	ORF3	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000520394	chr5:167654073:+>chr5:167654900:+	8	22
7055	TENM2	ORF3	chr5:167654073:+:Eulor2B>chr5:167654900:+:ENST00000403607	chr5:167654073:+>chr5:167654900:+	8	22
7056	SLC22A9	ORF2	chr11:63141738:+:MER53>chr11:63143117:+:ENST00000536333	chr11:63141738:+>chr11:63143117:+	9	22
7057	SLC22A9	ORF2	chr11:63141738:+:MER53>chr11:63143117:+:ENST00000310969	chr11:63141738:+>chr11:63143117:+	9	22
7058	SLC22A9	ORF2	chr11:63141738:+:MER53>chr11:63143117:+:ENST00000279178	chr11:63141738:+>chr11:63143117:+	9	22
7059	FOLH1	ORF2	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000256999	chr11:49229182:->chr11:49227724:-	14	22
7060	FOLH1	ORF2	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000356696	chr11:49229182:->chr11:49227724:-	14	22
7061	FOLH1	ORF2	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000525826	chr11:49229182:->chr11:49227724:-	14	22
7062	FOLH1	ORF2	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000340334	chr11:49229182:->chr11:49227724:-	14	22
7063	FOLH1	ORF2	chr11:49229182:-:MIRb>chr11:49227724:-:ENST00000533034	chr11:49229182:->chr11:49227724:-	14	22
7064	GRAMD2	ORF1	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000309731	chr15:72463983:->chr15:72462280:-	11	22
7065	GRAMD2	ORF1	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000564129	chr15:72463983:->chr15:72462280:-	11	22
7066	GRAMD2	ORF1	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000568594	chr15:72463983:->chr15:72462280:-	11	22
7067	GRAMD2	ORF1	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000570275	chr15:72463983:->chr15:72462280:-	11	22
7068	GRAMD2	ORF1	chr15:72463983:-:L1M5>chr15:72462280:-:ENST00000562288	chr15:72463983:->chr15:72462280:-	11	22
7069	C1orf186	ORF1	chr1:206277157:-:SVA_D>chr1:206243250:-:ENST00000331555	chr1:206277157:->chr1:206243250:-	14	22
7070	SCARB1	ORF2	chr12:125263744:-:AluJo>chr12:125263132:-:ENST00000339570	chr12:125263744:->chr12:125263132:-	16	22
7071	TNFRSF21	ORF2	chr6:47201962:-:AluSq2>chr6:47200730:-:ENST00000296861	chr6:47201962:->chr6:47200730:-	7	22
7072	TFRC	ORF1	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000420415	chr3:195788242:->chr3:195787118:-	5	22
7073	TFRC	ORF1	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000360110	chr3:195788242:->chr3:195787118:-	5	22
7074	TFRC	ORF1	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000392396	chr3:195788242:->chr3:195787118:-	5	22
7075	TFRC	ORF1	chr3:195788242:-:MER5A>chr3:195787118:-:ENST00000535031	chr3:195788242:->chr3:195787118:-	5	22
7076	SLC3A2	ORF1	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000377892	chr11:62649740:+>chr11:62650380:+	8	22
7077	SLC3A2	ORF1	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000377890	chr11:62649740:+>chr11:62650380:+	8	22
7078	SLC3A2	ORF1	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000377891	chr11:62649740:+>chr11:62650380:+	8	22
7079	SLC3A2	ORF1	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000377889	chr11:62649740:+>chr11:62650380:+	8	22
7080	SLC3A2	ORF1	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000535296	chr11:62649740:+>chr11:62650380:+	8	22
7081	SLC3A2	ORF1	chr11:62649740:+:MIR3>chr11:62650380:+:ENST00000338663	chr11:62649740:+>chr11:62650380:+	8	22
7082	COL23A1	ORF3	chr5:178001896:-:L3>chr5:177987749:-:ENST00000390654	chr5:178001896:->chr5:177987749:-	17	22
7083	COL23A1	ORF3	chr5:178001896:-:L3>chr5:177987749:-:ENST00000407622	chr5:178001896:->chr5:177987749:-	17	22
7084	ADAM9	ORF2	chr8:38946750:+:AluSx3>chr8:38947566:+:ENST00000379917	chr8:38946750:+>chr8:38947566:+	20	22
7085	ADAM9	ORF2	chr8:38946750:+:AluSx3>chr8:38947566:+:ENST00000468065	chr8:38946750:+>chr8:38947566:+	20	22
7086	LAT	ORF3	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000395461	chr16:29000300:+>chr16:29000848:+	18	22
7087	LAT	ORF3	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000564277	chr16:29000300:+>chr16:29000848:+	18	22
7088	LAT	ORF3	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000395456	chr16:29000300:+>chr16:29000848:+	18	22
7089	LAT	ORF3	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000454369	chr16:29000300:+>chr16:29000848:+	18	22
7090	LAT	ORF3	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000360872	chr16:29000300:+>chr16:29000848:+	18	22
7091	LAT	ORF3	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000354453	chr16:29000300:+>chr16:29000848:+	18	22
7092	LAT	ORF3	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000566177	chr16:29000300:+>chr16:29000848:+	18	22
7093	LAT	ORF3	chr16:29000300:+:AluJb>chr16:29000848:+:ENST00000570232	chr16:29000300:+>chr16:29000848:+	18	22
7094	LPAR1	ORF3	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000374431	chr9:113706404:->chr9:113704448:-	17	22
7095	LPAR1	ORF3	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000541779	chr9:113706404:->chr9:113704448:-	17	22
7096	LPAR1	ORF3	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000374430	chr9:113706404:->chr9:113704448:-	17	22
7097	LPAR1	ORF3	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000358883	chr9:113706404:->chr9:113704448:-	17	22
7098	LPAR1	ORF3	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000538760	chr9:113706404:->chr9:113704448:-	17	22
7099	LPAR1	ORF3	chr9:113706404:-:MER5A>chr9:113704448:-:ENST00000441240	chr9:113706404:->chr9:113704448:-	17	22
7100	EPCAM	ORF3	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000405271	chr2:47553008:+>chr2:47600602:+	12	22
7101	EPCAM	ORF3	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000456133	chr2:47553008:+>chr2:47600602:+	12	22
7102	EPCAM	ORF3	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000263735	chr2:47553008:+>chr2:47600602:+	12	22
7103	EPCAM	ORF3	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000419334	chr2:47553008:+>chr2:47600602:+	12	22
7104	NTRK2	ORF1	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000376213	chr9:87325380:+>chr9:87325552:+	11	22
7105	NTRK2	ORF1	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000376214	chr9:87325380:+>chr9:87325552:+	11	22
7106	NTRK2	ORF1	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000395882	chr9:87325380:+>chr9:87325552:+	11	22
7107	NTRK2	ORF1	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000304053	chr9:87325380:+>chr9:87325552:+	11	22
7108	NTRK2	ORF1	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000376208	chr9:87325380:+>chr9:87325552:+	11	22
7109	NTRK2	ORF1	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000277120	chr9:87325380:+>chr9:87325552:+	11	22

Table 15

7110	NTRK2	ORF1	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000323115	chr9:87325380:+>chr9:87325552:+	11	22
7111	NTRK2	ORF1	chr9:87325380:+:L2a>chr9:87325552:+:ENST00000359847	chr9:87325380:+>chr9:87325552:+	11	22
7112	CLDN11	ORF3	chr3:170138615:+:MIRb>chr3:170140951:+:ENST00000064724	chr3:170138615:+>chr3:170140951:+	14	22
7113	CLDN11	ORF3	chr3:170138615:+:MIRb>chr3:170140951:+:ENST00000486975	chr3:170138615:+>chr3:170140951:+	14	22
7114	CLDN11	ORF3	chr3:170138615:+:MIRb>chr3:170140951:+:ENST00000451576	chr3:170138615:+>chr3:170140951:+	14	22
7115	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000535633	chr11:89098143:->chr11:89088211:-	11	22
7116	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000424319	chr11:89098143:->chr11:89088211:-	11	22
7117	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000343727	chr11:89098143:->chr11:89088211:-	11	22
7118	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000534731	chr11:89098143:->chr11:89088211:-	11	22
7119	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000263317	chr11:89098143:->chr11:89088211:-	11	22
7120	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000532825	chr11:89098143:->chr11:89088211:-	11	22
7121	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000527956	chr11:89098143:->chr11:89088211:-	11	22
7122	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000542487	chr11:89098143:->chr11:89088211:-	11	22
7123	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000527626	chr11:89098143:->chr11:89088211:-	11	22
7124	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000528341	chr11:89098143:->chr11:89088211:-	11	22
7125	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000413594	chr11:89098143:->chr11:89088211:-	11	22
7126	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000375979	chr11:89098143:->chr11:89088211:-	11	22
7127	NOX4	ORF1	chr11:89098143:-:MIRc>chr11:89088211:-:ENST00000531342	chr11:89098143:->chr11:89088211:-	11	22
7128	GABRA5	ORF3	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000335625	chr15:27076933:+>chr15:27125993:+	13	22
7129	GABRA5	ORF3	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000355395	chr15:27076933:+>chr15:27125993:+	13	22
7130	GABRA5	ORF3	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000400081	chr15:27076933:+>chr15:27125993:+	13	22
7131	GABRA5	ORF3	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000554038	chr15:27076933:+>chr15:27125993:+	13	22
7132	GABRA5	ORF3	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000554596	chr15:27076933:+>chr15:27125993:+	13	22
7133	GABRA5	ORF3	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000554599	chr15:27076933:+>chr15:27125993:+	13	22
7134	EPCAM	ORF1	chr2:47599769:+:AluSg>chr2:47600602:+:ENST00000405271	chr2:47599769:+>chr2:47600602:+	12	22
7135	EPCAM	ORF1	chr2:47599769:+:AluSg>chr2:47600602:+:ENST00000456133	chr2:47599769:+>chr2:47600602:+	12	22
7136	EPCAM	ORF1	chr2:47599769:+:AluSg>chr2:47600602:+:ENST00000263735	chr2:47599769:+>chr2:47600602:+	12	22
7137	EPCAM	ORF1	chr2:47599769:+:AluSg>chr2:47600602:+:ENST00000419334	chr2:47599769:+>chr2:47600602:+	12	22
7138	APP	ORF1	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000346798	chr21:27288399:->chr21:27284274:-	5	22
7139	APP	ORF2	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000346798	chr21:27288399:->chr21:27284274:-	21	22
7140	APP	ORF1	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000354192	chr21:27288399:->chr21:27284274:-	5	22
7141	APP	ORF2	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000354192	chr21:27288399:->chr21:27284274:-	21	22
7142	APP	ORF1	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000348990	chr21:27288399:->chr21:27284274:-	5	22
7143	APP	ORF2	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000348990	chr21:27288399:->chr21:27284274:-	21	22
7144	APP	ORF1	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000357903	chr21:27288399:->chr21:27284274:-	5	22
7145	APP	ORF2	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000357903	chr21:27288399:->chr21:27284274:-	21	22
7146	APP	ORF1	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000358918	chr21:27288399:->chr21:27284274:-	5	22
7147	APP	ORF2	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000358918	chr21:27288399:->chr21:27284274:-	21	22
7148	APP	ORF1	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000359726	chr21:27288399:->chr21:27284274:-	5	22
7149	APP	ORF2	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000359726	chr21:27288399:->chr21:27284274:-	21	22
7150	APP	ORF1	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000448388	chr21:27288399:->chr21:27284274:-	5	22
7151	APP	ORF2	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000448388	chr21:27288399:->chr21:27284274:-	21	22
7152	APP	ORF1	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000440126	chr21:27288399:->chr21:27284274:-	5	22
7153	APP	ORF2	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000440126	chr21:27288399:->chr21:27284274:-	21	22
7154	APP	ORF1	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000439274	chr21:27288399:->chr21:27284274:-	5	22
7155	APP	ORF2	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000439274	chr21:27288399:->chr21:27284274:-	21	22
7156	APP	ORF1	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000456209	chr21:27288399:->chr21:27284274:-	5	22
7157	APP	ORF2	chr21:27288399:-:AluSx>chr21:27284274:-:ENST00000456209	chr21:27288399:->chr21:27284274:-	21	22
7158	KIAA0922	ORF3	chr4:154534548:+:HAL1b>chr4:154541908:+:ENST00000440693	chr4:154534548:+>chr4:154541908:+	17	22
7159	KIAA0922	ORF3	chr4:154534548:+:HAL1b>chr4:154541908:+:ENST00000409663	chr4:154534548:+>chr4:154541908:+	17	22
7160	KIAA0922	ORF3	chr4:154534548:+:HAL1b>chr4:154541908:+:ENST00000409959	chr4:154534548:+>chr4:154541908:+	17	22
7161	KIAA0922	ORF3	chr4:154534548:+:HAL1b>chr4:154541908:+:ENST00000240487	chr4:154534548:+>chr4:154541908:+	17	22
7162	TENM2	ORF2	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000518659	chr5:167685690:+>chr5:167687288:+	21	22
7163	TENM2	ORF2	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000545108	chr5:167685690:+>chr5:167687288:+	21	22
7164	TENM2	ORF2	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000519204	chr5:167685690:+>chr5:167687288:+	21	22
7165	TENM2	ORF2	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000520394	chr5:167685690:+>chr5:167687288:+	21	22
7166	TENM2	ORF2	chr5:167685690:+:L1MB7>chr5:167687288:+:ENST00000403607	chr5:167685690:+>chr5:167687288:+	21	22
7167	SLC7A8	ORF1	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000316902	chr14:23607547:->chr14:23607233:-	15	22
7168	SLC7A8	ORF1	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000453702	chr14:23607547:->chr14:23607233:-	15	22
7169	SLC7A8	ORF1	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000529705	chr14:23607547:->chr14:23607233:-	15	22
7170	SLC7A8	ORF1	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000422941	chr14:23607547:->chr14:23607233:-	15	22
7171	SLC2A9	ORF2	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000264784	chr4:9996312:->chr4:9987417:-	5	22
7172	SLC2A9	ORF2	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000506583	chr4:9996312:->chr4:9987417:-	5	22
7173	SLC2A9	ORF2	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000309065	chr4:9996312:->chr4:9987417:-	5	22
7174	SLC2A9	ORF2	chr4:9996312:-:MIRc>chr4:9987417:-:ENST00000513129	chr4:9996312:->chr4:9987417:-	5	22
7175	PROM1	ORF2	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000503884	chr4:15980155:->chr4:15972705:-	17	22
7176	PROM1	ORF2	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000447510	chr4:15980155:->chr4:15972705:-	17	22
7177	PROM1	ORF2	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000539194	chr4:15980155:->chr4:15972705:-	17	22
7178	PROM1	ORF2	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000540805	chr4:15980155:->chr4:15972705:-	17	22
7179	PROM1	ORF2	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000505450	chr4:15980155:->chr4:15972705:-	17	22
7180	PROM1	ORF2	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000508167	chr4:15980155:->chr4:15972705:-	17	22
7181	PROM1	ORF2	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000510224	chr4:15980155:->chr4:15972705:-	17	22

Table 15

7182	PROM1	ORF2	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000513946	chr4:15980155:->chr4:15972705:-	17	22
7183	CRB1	ORF2	chr1:197412237:+:AluSx>chr1:197446678:+:ENST00000448952	chr1:197412237:+>chr1:197446678:+	21	22
7184	CDH1	ORF2	chr16:68834633:+:L2a>chr16:68835573:+:ENST00000261769	chr16:68834633:+>chr16:68835573:+	19	22
7185	CDH1	ORF2	chr16:68834633:+:L2a>chr16:68835573:+:ENST00000566612	chr16:68834633:+>chr16:68835573:+	19	22
7186	CDH1	ORF2	chr16:68834633:+:L2a>chr16:68835573:+:ENST00000422392	chr16:68834633:+>chr16:68835573:+	19	22
7187	CDH1	ORF2	chr16:68834633:+:L2a>chr16:68835573:+:ENST00000566510	chr16:68834633:+>chr16:68835573:+	19	22
7188	TRPC7	ORF3	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000355180	chr5:135562544:->chr5:135561943:-	3	22
7189	TRPC7	ORF3	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000426057	chr5:135562544:->chr5:135561943:-	3	22
7190	TRPC7	ORF3	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000513104	chr5:135562544:->chr5:135561943:-	3	22
7191	TRPC7	ORF3	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000352189	chr5:135562544:->chr5:135561943:-	3	22
7192	TRPC7	ORF3	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000378459	chr5:135562544:->chr5:135561943:-	3	22
7193	TRPC7	ORF3	chr5:135562544:-:MER33>chr5:135561943:-:ENST00000502753	chr5:135562544:->chr5:135561943:-	3	22
7194	SGCB	ORF1	chr4:52897995:-:HAL1>chr4:52896029:-:ENST00000381431	chr4:52897995:->chr4:52896029:-	6	22
7195	SGCB	ORF1	chr4:52897995:-:HAL1>chr4:52896029:-:ENST00000535450	chr4:52897995:->chr4:52896029:-	6	22
7196	ABCC5	ORF3	chr3:183642788:-:L2c>chr3:183639189:-:ENST00000334444	chr3:183642788:->chr3:183639189:-	17	21
7197	ABCC5	ORF3	chr3:183642788:-:L2c>chr3:183639189:-:ENST00000265586	chr3:183642788:->chr3:183639189:-	17	21
7198	VMP1	ORF1	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000262291	chr17:57893935:+>chr17:57895073:+	16	21
7199	VMP1	ORF1	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000537567	chr17:57893935:+>chr17:57895073:+	16	21
7200	VMP1	ORF1	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000539763	chr17:57893935:+>chr17:57895073:+	16	21
7201	VMP1	ORF1	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000536180	chr17:57893935:+>chr17:57895073:+	16	21
7202	VMP1	ORF1	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000545362	chr17:57893935:+>chr17:57895073:+	16	21
7203	VMP1	ORF1	chr17:57893935:+:AluY>chr17:57895073:+:ENST00000591877	chr17:57893935:+>chr17:57895073:+	16	21
7204	BMPR1B	ORF2	chr4:95977990:+:L2b>chr4:96025559:+:ENST00000440890	chr4:95977990:+>chr4:96025559:+	7	21
7205	EPHB2	ORF2	chr1:23211496:+:L2c>chr1:23219377:+:ENST00000374630	chr1:23211496:+>chr1:23219377:+	11	21
7206	EPHB2	ORF2	chr1:23211496:+:L2c>chr1:23219377:+:ENST00000400191	chr1:23211496:+>chr1:23219377:+	11	21
7207	EPHB2	ORF2	chr1:23211496:+:L2c>chr1:23219377:+:ENST00000374632	chr1:23211496:+>chr1:23219377:+	11	21
7208	EPHB2	ORF2	chr1:23211496:+:L2c>chr1:23219377:+:ENST00000374627	chr1:23211496:+>chr1:23219377:+	11	21
7209	C1orf186	ORF1	chr1:206270467:-:MIRc>chr1:206243250:-:ENST00000331555	chr1:206270467:->chr1:206243250:-	13	21
7210	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000346798	chr21:27478885:->chr21:27462388:-	10	21
7211	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000354192	chr21:27478885:->chr21:27462388:-	10	21
7212	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000348990	chr21:27478885:->chr21:27462388:-	10	21
7213	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000357903	chr21:27478885:->chr21:27462388:-	10	21
7214	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000358918	chr21:27478885:->chr21:27462388:-	10	21
7215	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000359726	chr21:27478885:->chr21:27462388:-	10	21
7216	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000448388	chr21:27478885:->chr21:27462388:-	10	21
7217	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000440126	chr21:27478885:->chr21:27462388:-	10	21
7218	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000439274	chr21:27478885:->chr21:27462388:-	10	21
7219	ITGA3	ORF2	chr17:48164185:+:AluSp>chr17:48165108:+:ENST00000320031	chr17:48164185:+>chr17:48165108:+	16	21
7220	ITGA3	ORF2	chr17:48164185:+:AluSp>chr17:48165108:+:ENST00000007722	chr17:48164185:+>chr17:48165108:+	16	21
7221	SLC38A6	ORF3	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000354886	chr14:61516792:+>chr14:61517230:+	10	21
7222	SLC38A6	ORF3	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000267488	chr14:61516792:+>chr14:61517230:+	10	21
7223	SLC38A6	ORF3	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000451406	chr14:61516792:+>chr14:61517230:+	10	21
7224	SLC38A6	ORF3	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000456840	chr14:61516792:+>chr14:61517230:+	10	21
7225	SLC38A6	ORF3	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000529212	chr14:61516792:+>chr14:61517230:+	10	21
7226	CNIH2	ORF2	chr11:66049045:+:L2b>chr11:66049730:+:ENST00000528852	chr11:66049045:+>chr11:66049730:+	19	21
7227	CNIH2	ORF2	chr11:66049045:+:L2b>chr11:66049730:+:ENST00000311445	chr11:66049045:+>chr11:66049730:+	19	21
7228	CNIH2	ORF2	chr11:66049045:+:L2b>chr11:66049730:+:ENST00000528063	chr11:66049045:+>chr11:66049730:+	19	21
7229	SORL1	ORF3	chr11:121357166:+:AluJb>chr11:121358741:+:ENST00000260197	chr11:121357166:+>chr11:121358741:+	6	21
7230	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000548898	chr12:56120280:->chr12:56120045:-	20	21
7231	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552067	chr12:56120280:->chr12:56120045:-	20	21
7232	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000420846	chr12:56120280:->chr12:56120045:-	20	21
7233	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000548160	chr12:56120280:->chr12:56120045:-	20	21
7234	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000546939	chr12:56120280:->chr12:56120045:-	20	21
7235	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552692	chr12:56120280:->chr12:56120045:-	20	21
7236	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000549117	chr12:56120280:->chr12:56120045:-	20	21
7237	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000257857	chr12:56120280:->chr12:56120045:-	20	21
7238	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552754	chr12:56120280:->chr12:56120045:-	20	21
7239	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000550776	chr12:56120280:->chr12:56120045:-	20	21
7240	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000552164	chr12:56120280:->chr12:56120045:-	20	21
7241	CD63	ORF2	chr12:56120280:-:AluSx1>chr12:56120045:-:ENST00000551173	chr12:56120280:->chr12:56120045:-	20	21
7242	PERP	ORF2	chr6:138424827:-:MER1A>chr6:138417631:-:ENST00000421351	chr6:138424827:->chr6:138417631:-	4	21
7243	LRIG2	ORF3	chr1:113646407:+:MER31-int>chr1:113650216:+:ENST00000361127	chr1:113646407:+>chr1:113650216:+	12	21
7244	ABCC5	ORF2	chr3:183680541:-:AluSq2>chr3:183679442:-:ENST00000334444	chr3:183680541:->chr3:183679442:-	13	21
7245	ABCC5	ORF2	chr3:183680541:-:AluSq2>chr3:183679442:-:ENST00000265586	chr3:183680541:->chr3:183679442:-	13	21
7246	FAM174B	ORF2	chr15:93253499:-:MIRb>chr15:93173575:-:ENST00000327355	chr15:93253499:->chr15:93173575:-	10	21
7247	PDGFRA	ORF1	chr4:55109839:+:L1PA3>chr4:55124924:+:ENST00000512143	chr4:55109839:+>chr4:55124924:+	6	21
7248	B4GALT1	ORF1	chr9:33133223:-:L3>chr9:33120604:-:ENST00000379731	chr9:33133223:->chr9:33120604:-	12	21
7249	CLDN11	ORF1	chr3:170144403:+:MIRb>chr3:170150312:+:ENST00000064724	chr3:170144403:+>chr3:170150312:+	4	21
7250	CD82	ORF1	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000227155	chr11:44632201:+>chr11:44636822:+	11	21
7251	CD82	ORF1	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000342935	chr11:44632201:+>chr11:44636822:+	11	21
7252	CD82	ORF1	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000530601	chr11:44632201:+>chr11:44636822:+	11	21
7253	PLXDC1	ORF1	chr17:37233370:-:AluSz>chr17:37228738:-:ENST00000315392	chr17:37233370:->chr17:37228738:-	17	21

Table 15

7254	PLXDC1	ORF1	chr17:37233370:-:AluSz>chr17:37228738:-:ENST00000444911	chr17:37233370:->chr17:37228738:-	17	21
7255	SCARA5	ORF3	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000354914	chr8:27834547:->chr8:27779762:-	13	21
7256	SCARA5	ORF3	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000524352	chr8:27834547:->chr8:27779762:-	13	21
7257	SCARA5	ORF3	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000518030	chr8:27834547:->chr8:27779762:-	13	21
7258	SCARA5	ORF3	chr8:27834547:-:MLT1A0>chr8:27779762:-:ENST00000301906	chr8:27834547:->chr8:27779762:-	13	21
7259	SPP1	ORF1	chr4:88899331:+:L1ME4a>chr4:88901198:+:ENST00000237623	chr4:88899331:+>chr4:88901198:+	6	21
7260	SPP1	ORF1	chr4:88899331:+:L1ME4a>chr4:88901198:+:ENST00000395080	chr4:88899331:+>chr4:88901198:+	6	21
7261	ERBB2	ORF1	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000584601	chr17:37863725:+>chr17:37864574:+	5	21
7262	ERBB2	ORF1	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000578199	chr17:37863725:+>chr17:37864574:+	5	21
7263	ERBB2	ORF1	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000406381	chr17:37863725:+>chr17:37864574:+	5	21
7264	ERBB2	ORF1	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000541774	chr17:37863725:+>chr17:37864574:+	5	21
7265	ERBB2	ORF1	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000540147	chr17:37863725:+>chr17:37864574:+	5	21
7266	ERBB2	ORF1	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000584450	chr17:37863725:+>chr17:37864574:+	5	21
7267	ERBB2	ORF1	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000269571	chr17:37863725:+>chr17:37864574:+	5	21
7268	ERBB2	ORF1	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000578709	chr17:37863725:+>chr17:37864574:+	5	21
7269	ERBB2	ORF1	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000584099	chr17:37863725:+>chr17:37864574:+	5	21
7270	ERBB2	ORF1	chr17:37863725:+:MIR3>chr17:37864574:+:ENST00000540042	chr17:37863725:+>chr17:37864574:+	5	21
7271	SLC9A1	ORF3	chr1:27445289:-:MIR3>chr1:27440777:-:ENST00000374084	chr1:27445289:->chr1:27440777:-	3	21
7272	TNFSF10	ORF2	chr3:172235616:-:L1ME4a>chr3:172232788:-:ENST00000241261	chr3:172235616:->chr3:172232788:-	3	20
7273	TNFSF10	ORF2	chr3:172235616:-:L1ME4a>chr3:172232788:-:ENST00000420541	chr3:172235616:->chr3:172232788:-	3	20
7274	TNFSF10	ORF2	chr3:172235616:-:L1ME4a>chr3:172232788:-:ENST00000430881	chr3:172235616:->chr3:172232788:-	3	20
7275	HCN2	ORF1	chr19:615278:+:AluY>chr19:615795:+:ENST00000251287	chr19:615278:+>chr19:615795:+	7	20
7276	CHRNA1	ORF1	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000348749	chr2:175625718:->chr2:175624361:-	11	20
7277	CHRNA1	ORF1	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000261007	chr2:175625718:->chr2:175624361:-	11	20
7278	CHRNA1	ORF1	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000409219	chr2:175625718:->chr2:175624361:-	11	20
7279	CHRNA1	ORF1	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000409542	chr2:175625718:->chr2:175624361:-	11	20
7280	CHRNA1	ORF1	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000435083	chr2:175625718:->chr2:175624361:-	11	20
7281	CHRNA1	ORF1	chr2:175625718:-:MIRb>chr2:175624361:-:ENST00000409323	chr2:175625718:->chr2:175624361:-	11	20
7282	SGCE	ORF1	chr7:94270209:-:AluSx>chr7:94268760:-:ENST00000415788	chr7:94270209:->chr7:94268760:-	17	20
7283	CNIH3	ORF1	chr1:224861660:+:MIRb>chr1:224868660:+:ENST00000272133	chr1:224861660:+>chr1:224868660:+	19	20
7284	CDH15	ORF2	chr16:89249054:+:AluSx>chr16:89249956:+:ENST00000289746	chr16:89249054:+>chr16:89249956:+	19	20
7285	ABCC1	ORF3	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000399410	chr16:16227839:+>chr16:16228207:+	6	20
7286	ABCC1	ORF3	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000345148	chr16:16227839:+>chr16:16228207:+	6	20
7287	ABCC1	ORF3	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000346370	chr16:16227839:+>chr16:16228207:+	6	20
7288	ABCC1	ORF3	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000349029	chr16:16227839:+>chr16:16228207:+	6	20
7289	ABCC1	ORF3	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000351154	chr16:16227839:+>chr16:16228207:+	6	20
7290	ABCC1	ORF3	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000399408	chr16:16227839:+>chr16:16228207:+	6	20
7291	ABCC1	ORF3	chr16:16227839:+:LTR83>chr16:16228207:+:ENST00000572882	chr16:16227839:+>chr16:16228207:+	6	20
7292	PROM2	ORF2	chr2:95940748:+:MIR3>chr2:95941211:+:ENST00000317620	chr2:95940748:+>chr2:95941211:+	18	20
7293	PROM2	ORF2	chr2:95940748:+:MIR3>chr2:95941211:+:ENST00000403131	chr2:95940748:+>chr2:95941211:+	18	20
7294	PROM2	ORF2	chr2:95940748:+:MIR3>chr2:95941211:+:ENST00000317668	chr2:95940748:+>chr2:95941211:+	18	20
7295	PROM2	ORF2	chr2:95940748:+:MIR3>chr2:95941211:+:ENST00000542147	chr2:95940748:+>chr2:95941211:+	18	20
7296	PROM2	ORF2	chr2:95940748:+:MIR3>chr2:95941211:+:ENST00000431567	chr2:95940748:+>chr2:95941211:+	18	20
7297	GLDN	ORF3	chr15:51652734:+:HERV17-int>chr15:51669646:+:ENST00000335449	chr15:51652734:+>chr15:51669646:+	17	20
7298	GLDN	ORF3	chr15:51652734:+:HERV17-int>chr15:51669646:+:ENST00000558426	chr15:51652734:+>chr15:51669646:+	17	20
7299	LPCAT1	ORF2	chr5:1475076:-:Tigger1>chr5:1474800:-:ENST00000475622	chr5:1475076:->chr5:1474800:-	14	20
7300	LPCAT1	ORF2	chr5:1475076:-:Tigger1>chr5:1474800:-:ENST00000283415	chr5:1475076:->chr5:1474800:-	14	20
7301	GPM6B	ORF3	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000316715	chrX:13804092:->chrX:13803927:-	17	20
7302	GPM6B	ORF3	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000454189	chrX:13804092:->chrX:13803927:-	17	20
7303	GPM6B	ORF3	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000493677	chrX:13804092:->chrX:13803927:-	17	20
7304	GPM6B	ORF3	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000355135	chrX:13804092:->chrX:13803927:-	17	20
7305	GPM6B	ORF3	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000356942	chrX:13804092:->chrX:13803927:-	17	20
7306	GPM6B	ORF3	chrX:13804092:-:MIRb>chrX:13803927:-:ENST00000475307	chrX:13804092:->chrX:13803927:-	17	20
7307	FAIM2	ORF2	chr12:50285280:-:MIR>chr12:50284897:-:ENST00000547871	chr12:50285280:->chr12:50284897:-	7	20
7308	ACSL5	ORF2	chr10:114154577:+:(TG)n>chr10:114154676:+:ENST00000356116	chr10:114154577:+>chr10:114154676:+	5	20
7309	ITGB4	ORF2	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000579662	chr17:73744210:+>chr17:73744922:+	13	20
7310	ITGB4	ORF2	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000339591	chr17:73744210:+>chr17:73744922:+	13	20
7311	ITGB4	ORF2	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000200181	chr17:73744210:+>chr17:73744922:+	13	20
7312	ITGB4	ORF2	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000450894	chr17:73744210:+>chr17:73744922:+	13	20
7313	ITGB4	ORF2	chr17:73744210:+:AluJr>chr17:73744922:+:ENST00000449880	chr17:73744210:+>chr17:73744922:+	13	20
7314	ASTN2	ORF3	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000373996	chr9:119602848:->chr9:119583062:-	15	20
7315	ASTN2	ORF3	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000313400	chr9:119602848:->chr9:119583062:-	15	20
7316	ASTN2	ORF3	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000373986	chr9:119602848:->chr9:119583062:-	15	20
7317	ASTN2	ORF3	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000361209	chr9:119602848:->chr9:119583062:-	15	20
7318	EPHB1	ORF2	chr3:134724968:+:THE1D>chr3:134825290:+:ENST00000398015	chr3:134724968:+>chr3:134825290:+	7	20
7319	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000425967	chr8:38291059:->chr8:38285953:-	12	20
7320	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000397091	chr8:38291059:->chr8:38285953:-	12	20
7321	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000341462	chr8:38291059:->chr8:38285953:-	12	20
7322	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000447712	chr8:38291059:->chr8:38285953:-	12	20
7323	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000532791	chr8:38291059:->chr8:38285953:-	12	20
7324	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000397113	chr8:38291059:->chr8:38285953:-	12	20
7325	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000356207	chr8:38291059:->chr8:38285953:-	12	20

7326	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000335922	chr8:38291059:->chr8:38285953:-	12	20
7327	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000326324	chr8:38291059:->chr8:38285953:-	12	20
7328	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000397103	chr8:38291059:->chr8:38285953:-	12	20
7329	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000397108	chr8:38291059:->chr8:38285953:-	12	20
7330	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000525001	chr8:38291059:->chr8:38285953:-	12	20
7331	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000526742	chr8:38291059:->chr8:38285953:-	12	20
7332	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000529552	chr8:38291059:->chr8:38285953:-	12	20
7333	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000530568	chr8:38291059:->chr8:38285953:-	12	20
7334	FGFR1	ORF3	chr8:38291059:-:AluSz>chr8:38285953:-:ENST00000434187	chr8:38291059:->chr8:38285953:-	12	20
7335	SLC6A3	ORF3	chr5:1406781:-:L1MB3>chr5:1406403:-:ENST00000270349	chr5:1406781:->chr5:1406403:-	9	20
7336	SLC6A3	ORF3	chr5:1406781:-:L1MB3>chr5:1406403:-:ENST00000453492	chr5:1406781:->chr5:1406403:-	9	20
7337	PODXL	ORF2	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000446198	chr7:131202421:->chr7:131196192:-	11	20
7338	PODXL	ORF2	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000537928	chr7:131202421:->chr7:131196192:-	11	20
7339	PODXL	ORF2	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000541194	chr7:131202421:->chr7:131196192:-	11	20
7340	PODXL	ORF2	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000378555	chr7:131202421:->chr7:131196192:-	11	20
7341	PODXL	ORF2	chr7:131202421:-:MLT1C>chr7:131196192:-:ENST00000322985	chr7:131202421:->chr7:131196192:-	11	20
7342	ENPP1	ORF1	chr6:132199303:+:AluJr>chr6:132199682:+:ENST00000360971	chr6:132199303:+>chr6:132199682:+	16	20
7343	ENPP1	ORF3	chr6:132199303:+:AluJr>chr6:132199682:+:ENST00000360971	chr6:132199303:+>chr6:132199682:+	7	20
7344	IFITM3	ORF1	chr11:323324:-:HERV3-int>chr11:320772:-:ENST00000399808	chr11:323324:->chr11:320772:-	13	19
7345	BMPR1B	ORF3	chr4:95983291:+:MSTA>chr4:96025559:+:ENST00000440890	chr4:95983291:+>chr4:96025559:+	5	19
7346	EPHB2	ORF3	chr1:23211496:+:L2c>chr1:23219377:+:ENST00000374630	chr1:23211496:+>chr1:23219377:+	16	19
7347	EPHB2	ORF3	chr1:23211496:+:L2c>chr1:23219377:+:ENST00000400191	chr1:23211496:+>chr1:23219377:+	16	19
7348	EPHB2	ORF3	chr1:23211496:+:L2c>chr1:23219377:+:ENST00000374632	chr1:23211496:+>chr1:23219377:+	16	19
7349	EPHB2	ORF3	chr1:23211496:+:L2c>chr1:23219377:+:ENST00000374627	chr1:23211496:+>chr1:23219377:+	16	19
7350	ANO1	ORF2	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000355303	chr11:69933693:+>chr11:69933858:+	17	19
7351	ANO1	ORF2	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000538023	chr11:69933693:+>chr11:69933858:+	17	19
7352	ANO1	ORF2	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000531604	chr11:69933693:+>chr11:69933858:+	17	19
7353	ANO1	ORF2	chr11:69933693:+:L2a>chr11:69933858:+:ENST00000316296	chr11:69933693:+>chr11:69933858:+	17	19
7354	PTPRZ1	ORF3	chr7:121663441:+:MIR3>chr7:121668606:+:ENST00000393386	chr7:121663441:+>chr7:121668606:+	9	19
7355	PTPRZ1	ORF3	chr7:121663441:+:MIR3>chr7:121668606:+:ENST00000449182	chr7:121663441:+>chr7:121668606:+	9	19
7356	PLVAP	ORF3	chr19:17483514:-:AluY>chr19:17476268:-:ENST00000252590	chr19:17483514:->chr19:17476268:-	16	19
7357	PLVAP	ORF3	chr19:17483514:-:AluY>chr19:17476268:-:ENST00000599426	chr19:17483514:->chr19:17476268:-	16	19
7358	TMEM98	ORF2	chr17:31266193:+:AluSx>chr17:31266495:+:ENST00000394642	chr17:31266193:+>chr17:31266495:+	17	19
7359	TMEM98	ORF2	chr17:31266193:+:AluSx>chr17:31266495:+:ENST00000579849	chr17:31266193:+>chr17:31266495:+	17	19
7360	TMEM98	ORF2	chr17:31266193:+:AluSx>chr17:31266495:+:ENST00000439138	chr17:31266193:+>chr17:31266495:+	17	19
7361	JPH2	ORF2	chr20:42754145:-:MIRb>chr20:42747263:-:ENST00000372980	chr20:42754145:->chr20:42747263:-	11	19
7362	SLCO4A1	ORF2	chr20:61301405:+:Tigger7>chr20:61303102:+:ENST00000217159	chr20:61301405:+>chr20:61303102:+	10	19
7363	SLCO4A1	ORF2	chr20:61301405:+:Tigger7>chr20:61303102:+:ENST00000370507	chr20:61301405:+>chr20:61303102:+	10	19
7364	SLCO4A1	ORF2	chr20:61301405:+:Tigger7>chr20:61303102:+:ENST00000451793	chr20:61301405:+>chr20:61303102:+	10	19
7365	ADORA2B	ORF3	chr17:15873143:+:L2c>chr17:15877993:+:ENST00000304222	chr17:15873143:+>chr17:15877993:+	18	19
7366	SCARB1	ORF1	chr12:125263744:-:AluJo>chr12:125263132:-:ENST00000415380	chr12:125263744:->chr12:125263132:-	17	19
7367	SCARB1	ORF2	chr12:125263744:-:AluJo>chr12:125263132:-:ENST00000415380	chr12:125263744:->chr12:125263132:-	16	19
7368	TNFRSF21	ORF3	chr6:47226424:-:AluSz>chr6:47221257:-:ENST00000296861	chr6:47226424:->chr6:47221257:-	15	19
7369	ROS1	ORF3	chr6:117763597:-:THE1B>chr6:117739669:-:ENST00000368507	chr6:117763597:->chr6:117739669:-	7	19
7370	ROS1	ORF3	chr6:117763597:-:THE1B>chr6:117739669:-:ENST00000368508	chr6:117763597:->chr6:117739669:-	7	19
7371	SLC10A7	ORF1	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000432059	chr4:147297909:->chr4:147247148:-	15	19
7372	SLC10A7	ORF1	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000335472	chr4:147297909:->chr4:147247148:-	15	19
7373	SLC10A7	ORF1	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000507030	chr4:147297909:->chr4:147247148:-	15	19
7374	SLC10A7	ORF1	chr4:147297909:-:LTR10C>chr4:147247148:-:ENST00000394062	chr4:147297909:->chr4:147247148:-	15	19
7375	PKD1	ORF3	chr16:2142838:-:MER20>chr16:2142593:-:ENST00000562425	chr16:2142838:->chr16:2142593:-	17	19
7376	ITGA3	ORF3	chr17:48164282:+:AluSp>chr17:48165108:+:ENST00000320031	chr17:48164282:+>chr17:48165108:+	14	19
7377	ITGA3	ORF3	chr17:48164282:+:AluSp>chr17:48165108:+:ENST00000007722	chr17:48164282:+>chr17:48165108:+	14	19
7378	ERBB2	ORF2	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000541774	chr17:37860613:+>chr17:37863243:+	13	19
7379	ERBB2	ORF2	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000584450	chr17:37860613:+>chr17:37863243:+	13	19
7380	ERBB2	ORF2	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000582648	chr17:37860613:+>chr17:37863243:+	13	19
7381	ERBB2	ORF2	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000578373	chr17:37860613:+>chr17:37863243:+	13	19
7382	ERBB2	ORF2	chr17:37860613:+:AluSg>chr17:37863243:+:ENST00000269571	chr17:37860613:+>chr17:37863243:+	13	19
7383	TRABD2A	ORF3	chr2:85059512:-:MIRc>chr2:85059269:-:ENST00000335459	chr2:85059512:->chr2:85059269:-	4	19
7384	TRABD2A	ORF3	chr2:85059512:-:MIRc>chr2:85059269:-:ENST00000409520	chr2:85059512:->chr2:85059269:-	4	19
7385	TNFRSF21	ORF1	chr6:47213511:-:MSTA>chr6:47202634:-:ENST00000296861	chr6:47213511:->chr6:47202634:-	13	19
7386	PDGFRA	ORF3	chr4:55096106:+:G-rich>chr4:55124924:+:ENST00000512143	chr4:55096106:+>chr4:55124924:+	4	19
7387	NET1	ORF3	chr10:5454816:+:G-rich>chr10:5468618:+:ENST00000355029	chr10:5454816:+>chr10:5468618:+	7	19
7388	GPM6A	ORF2	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000280187	chr4:176868796:->chr4:176622918:-	16	19
7389	GPM6A	ORF2	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000393658	chr4:176868796:->chr4:176622918:-	16	19
7390	GPM6A	ORF2	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000506894	chr4:176868796:->chr4:176622918:-	16	19
7391	GPM6A	ORF2	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000515090	chr4:176868796:->chr4:176622918:-	16	19
7392	GPM6A	ORF2	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000503397	chr4:176868796:->chr4:176622918:-	16	19
7393	GPM6A	ORF2	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000513365	chr4:176868796:->chr4:176622918:-	16	19
7394	GPM6A	ORF2	chr4:176868796:-:MIRc>chr4:176622918:-:ENST00000505304	chr4:176868796:->chr4:176622918:-	16	19
7395	IFITM3	ORF2	chr11:329148:-:AluY>chr11:320772:-:ENST00000399808	chr11:329148:->chr11:320772:-	13	19
7396	NOX1	ORF1	chrX:100124234:-:L1P1>chrX:100118584:-:ENST00000372966	chrX:100124234:->chrX:100118584:-	6	19
7397	NOX1	ORF1	chrX:100124234:-:L1P1>chrX:100118584:-:ENST00000372964	chrX:100124234:->chrX:100118584:-	6	19

Table 15

7398	NOX1	ORF1	chrX:100124234:-:L1P1>chrX:100118584:-:ENST00000217885	chrX:100124234:->chrX:100118584:-	6	19
7399	CD82	ORF1	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000526958	chr11:44632201:+>chr11:44636822:+	11	19
7400	CD82	ORF2	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000526958	chr11:44632201:+>chr11:44636822:+	11	19
7401	CD81	ORF2	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000263645	chr11:2411228:+>chr11:2411642:+	4	19
7402	CD81	ORF2	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000533417	chr11:2411228:+>chr11:2411642:+	4	19
7403	CD81	ORF2	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000527343	chr11:2411228:+>chr11:2411642:+	4	19
7404	CD81	ORF2	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000464784	chr11:2411228:+>chr11:2411642:+	4	19
7405	CD81	ORF2	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000493525	chr11:2411228:+>chr11:2411642:+	4	19
7406	CD81	ORF2	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000381036	chr11:2411228:+>chr11:2411642:+	4	19
7407	CD81	ORF2	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000492252	chr11:2411228:+>chr11:2411642:+	4	19
7408	NOTCH3	ORF1	chr19:15279766:-:AluJo>chr19:15278222:-:ENST00000263388	chr19:15279766:->chr19:15278222:-	18	19
7409	NOTCH3	ORF1	chr19:15279766:-:AluJo>chr19:15278222:-:ENST00000595514	chr19:15279766:->chr19:15278222:-	18	19
7410	SLC13A3	ORF1	chr20:45199619:-:THE1C>chr20:45195029:-:ENST00000468915	chr20:45199619:->chr20:45195029:-	7	19
7411	ITGA6	ORF1	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000412899	chr2:173336955:+>chr2:173338783:+	7	19
7412	ITGA6	ORF1	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000409532	chr2:173336955:+>chr2:173338783:+	7	19
7413	ITGA6	ORF1	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000264107	chr2:173336955:+>chr2:173338783:+	7	19
7414	ITGA6	ORF1	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000264106	chr2:173336955:+>chr2:173338783:+	7	19
7415	ITGA6	ORF1	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000343713	chr2:173336955:+>chr2:173338783:+	7	19
7416	ITGA6	ORF1	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000375221	chr2:173336955:+>chr2:173338783:+	7	19
7417	ITGA6	ORF1	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000442250	chr2:173336955:+>chr2:173338783:+	7	19
7418	ITGA6	ORF1	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000458358	chr2:173336955:+>chr2:173338783:+	7	19
7419	ITGA6	ORF1	chr2:173336955:+:AluSz6>chr2:173338783:+:ENST00000409080	chr2:173336955:+>chr2:173338783:+	7	19
7420	TMPRSS3	ORF2	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000398405	chr21:43800574:->chr21:43800321:-	7	18
7421	TMPRSS3	ORF2	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000433957	chr21:43800574:->chr21:43800321:-	7	18
7422	TMPRSS3	ORF2	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000291532	chr21:43800574:->chr21:43800321:-	7	18
7423	TMPRSS3	ORF2	chr21:43800574:-:MER58A>chr21:43800321:-:ENST00000380399	chr21:43800574:->chr21:43800321:-	7	18
7424	TENM2	ORF3	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000518659	chr5:167682673:+>chr5:167687288:+	5	18
7425	TENM2	ORF3	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000545108	chr5:167682673:+>chr5:167687288:+	5	18
7426	TENM2	ORF3	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000519204	chr5:167682673:+>chr5:167687288:+	5	18
7427	TENM2	ORF3	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000520394	chr5:167682673:+>chr5:167687288:+	5	18
7428	TENM2	ORF3	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000403607	chr5:167682673:+>chr5:167687288:+	5	18
7429	GPM6A	ORF1	chr4:176567154:-:MLT1D>chr4:176561980:-:ENST00000280187	chr4:176567154:->chr4:176561980:-	16	18
7430	GPM6A	ORF1	chr4:176567154:-:MLT1D>chr4:176561980:-:ENST00000393658	chr4:176567154:->chr4:176561980:-	16	18
7431	GPM6A	ORF1	chr4:176567154:-:MLT1D>chr4:176561980:-:ENST00000506894	chr4:176567154:->chr4:176561980:-	16	18
7432	GPM6A	ORF1	chr4:176567154:-:MLT1D>chr4:176561980:-:ENST00000515090	chr4:176567154:->chr4:176561980:-	16	18
7433	GPM6A	ORF1	chr4:176567154:-:MLT1D>chr4:176561980:-:ENST00000503397	chr4:176567154:->chr4:176561980:-	16	18
7434	PLVAP	ORF2	chr19:17483514:-:AluY>chr19:17476268:-:ENST00000252590	chr19:17483514:->chr19:17476268:-	7	18
7435	PLVAP	ORF2	chr19:17483514:-:AluY>chr19:17476268:-:ENST00000599426	chr19:17483514:->chr19:17476268:-	7	18
7436	SLC22A9	ORF3	chr11:63141738:+:MER53>chr11:63143117:+:ENST00000536333	chr11:63141738:+>chr11:63143117:+	4	18
7437	SLC22A9	ORF3	chr11:63141738:+:MER53>chr11:63143117:+:ENST00000310969	chr11:63141738:+>chr11:63143117:+	4	18
7438	PLSCR1	ORF3	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000486631	chr3:146237953:->chr3:146234954:-	11	18
7439	EVC	ORF1	chr4:5743953:+:MIRb>chr4:5746931:+:ENST00000264956	chr4:5743953:+>chr4:5746931:+	13	18
7440	EVC	ORF1	chr4:5743953:+:MIRb>chr4:5746931:+:ENST00000382674	chr4:5743953:+>chr4:5746931:+	13	18
7441	EVC	ORF1	chr4:5743953:+:MIRb>chr4:5746931:+:ENST00000509451	chr4:5743953:+>chr4:5746931:+	13	18
7442	MUC4	ORF3	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000478156	chr3:195535201:->chr3:195518368:-	7	18
7443	MUC4	ORF3	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000463781	chr3:195535201:->chr3:195518368:-	7	18
7444	MUC4	ORF3	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000462323	chr3:195535201:->chr3:195518368:-	7	18
7445	MUC4	ORF3	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000466475	chr3:195535201:->chr3:195518368:-	7	18
7446	MUC4	ORF3	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000470451	chr3:195535201:->chr3:195518368:-	7	18
7447	MUC4	ORF3	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000475231	chr3:195535201:->chr3:195518368:-	7	18
7448	MUC4	ORF3	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000477086	chr3:195535201:->chr3:195518368:-	7	18
7449	MUC4	ORF3	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000477756	chr3:195535201:->chr3:195518368:-	7	18
7450	MUC4	ORF3	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000479406	chr3:195535201:->chr3:195518368:-	7	18
7451	MUC4	ORF3	chr3:195535201:-:AluSx1>chr3:195518368:-:ENST00000480843	chr3:195535201:->chr3:195518368:-	7	18
7452	ADIPOR1	ORF1	chr1:202912195:-:AluSx1>chr1:202911346:-:ENST00000340990	chr1:202912195:->chr1:202911346:-	11	18
7453	ADIPOR1	ORF1	chr1:202912195:-:AluSx1>chr1:202911346:-:ENST00000436244	chr1:202912195:->chr1:202911346:-	11	18
7454	SCNN1B	ORF3	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000343070	chr16:23365611:+>chr16:23366620:+	17	18
7455	SCNN1B	ORF3	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000307331	chr16:23365611:+>chr16:23366620:+	17	18
7456	SCNN1B	ORF3	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000564275	chr16:23365611:+>chr16:23366620:+	17	18
7457	SCNN1B	ORF3	chr16:23365611:+:MIR>chr16:23366620:+:ENST00000568085	chr16:23365611:+>chr16:23366620:+	17	18
7458	EPHB1	ORF3	chr3:134857845:+:L2b>chr3:134872994:+:ENST00000398015	chr3:134857845:+>chr3:134872994:+	4	18
7459	BTLA	ORF2	chr3:112200031:-:MSTD-int>chr3:112198616:-:ENST00000334529	chr3:112200031:->chr3:112198616:-	8	18
7460	BTLA	ORF2	chr3:112200031:-:MSTD-int>chr3:112198616:-:ENST00000383680	chr3:112200031:->chr3:112198616:-	8	18
7461	CDH11	ORF1	chr16:64983489:-:AluSp>chr16:64982002:-:ENST00000394156	chr16:64983489:->chr16:64982002:-	15	18
7462	SLCO1A2	ORF3	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000307378	chr12:21426215:->chr12:21422701:-	8	18
7463	SLCO1A2	ORF3	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000452078	chr12:21426215:->chr12:21422701:-	8	18
7464	SLCO1A2	ORF3	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000458504	chr12:21426215:->chr12:21422701:-	8	18
7465	SLCO1A2	ORF3	chr12:21426215:-:LTR40a>chr12:21422701:-:ENST00000537524	chr12:21426215:->chr12:21422701:-	8	18
7466	SEZ6	ORF3	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000360295	chr17:27307589:->chr17:27306831:-	15	18
7467	SEZ6	ORF3	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000540632	chr17:27307589:->chr17:27306831:-	15	18
7468	SEZ6	ORF3	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000317338	chr17:27307589:->chr17:27306831:-	15	18
7469	SEZ6	ORF3	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000540419	chr17:27307589:->chr17:27306831:-	15	18

Table 15

7470	SEZ6	ORF3	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000442608	chr17:27307589:->chr17:27306831:-	15	18
7471	SEZ6	ORF3	chr17:27307589:-:AluY>chr17:27306831:-:ENST00000335960	chr17:27307589:->chr17:27306831:-	15	18
7472	SLC6A2	ORF3	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000568943	chr16:55705440:+>chr16:55705850:+	11	18
7473	SLC6A2	ORF3	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000568529	chr16:55705440:+>chr16:55705850:+	11	18
7474	SLC6A2	ORF3	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000414754	chr16:55705440:+>chr16:55705850:+	11	18
7475	SLC6A2	ORF3	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000568655	chr16:55705440:+>chr16:55705850:+	11	18
7476	SLC6A2	ORF3	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000379906	chr16:55705440:+>chr16:55705850:+	11	18
7477	SLC6A2	ORF3	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000561820	chr16:55705440:+>chr16:55705850:+	11	18
7478	SLC6A2	ORF3	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000219833	chr16:55705440:+>chr16:55705850:+	11	18
7479	SLC6A2	ORF3	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000566163	chr16:55705440:+>chr16:55705850:+	11	18
7480	SLC6A2	ORF3	chr16:55705440:+:Charlie3>chr16:55705850:+:ENST00000567238	chr16:55705440:+>chr16:55705850:+	11	18
7481	NOTCH3	ORF2	chr19:15279766:-:AluJo>chr19:15278222:-:ENST00000263388	chr19:15279766:->chr19:15278222:-	10	18
7482	NOTCH3	ORF2	chr19:15279766:-:AluJo>chr19:15278222:-:ENST00000595514	chr19:15279766:->chr19:15278222:-	10	18
7483	PDPN	ORF3	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000294489	chr1:13922564:+>chr1:13933668:+	10	18
7484	PDPN	ORF3	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000376057	chr1:13922564:+>chr1:13933668:+	10	18
7485	PDPN	ORF3	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000510906	chr1:13922564:+>chr1:13933668:+	10	18
7486	PDPN	ORF3	chr1:13922564:+:AluSx1>chr1:13933668:+:ENST00000509009	chr1:13922564:+>chr1:13933668:+	10	18
7487	ADTRP	ORF2	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000505099	chr6:11748704:->chr6:11735916:-	8	18
7488	ADTRP	ORF2	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000414691	chr6:11748704:->chr6:11735916:-	8	18
7489	ADTRP	ORF2	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000229583	chr6:11748704:->chr6:11735916:-	8	18
7490	ADTRP	ORF2	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000379413	chr6:11748704:->chr6:11735916:-	8	18
7491	ADTRP	ORF2	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000379415	chr6:11748704:->chr6:11735916:-	8	18
7492	ADTRP	ORF2	chr6:11748704:-:L2a>chr6:11735916:-:ENST00000506810	chr6:11748704:->chr6:11735916:-	8	18
7493	FOLH1	ORF1	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000256999	chr11:49184443:->chr11:49179595:-	17	18
7494	FOLH1	ORF1	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000356696	chr11:49184443:->chr11:49179595:-	17	18
7495	FOLH1	ORF1	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000343844	chr11:49184443:->chr11:49179595:-	17	18
7496	FOLH1	ORF1	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000340334	chr11:49184443:->chr11:49179595:-	17	18
7497	FOLH1	ORF1	chr11:49184443:-:L1PA10>chr11:49179595:-:ENST00000533034	chr11:49184443:->chr11:49179595:-	17	18
7498	ANO10	ORF3	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000292246	chr3:43498891:->chr3:43474219:-	12	18
7499	ANO10	ORF3	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000350459	chr3:43498891:->chr3:43474219:-	12	18
7500	ANO10	ORF3	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000396091	chr3:43498891:->chr3:43474219:-	12	18
7501	ANO10	ORF3	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000451430	chr3:43498891:->chr3:43474219:-	12	18
7502	ANO10	ORF3	chr3:43498891:-:THE1D>chr3:43474219:-:ENST00000448045	chr3:43498891:->chr3:43474219:-	12	18
7503	CLIC6	ORF1	chr21:36085908:+:HAL1b>chr21:36088619:+:ENST00000349499	chr21:36085908:+>chr21:36088619:+	8	17
7504	CLIC6	ORF1	chr21:36085908:+:HAL1b>chr21:36088619:+:ENST00000360731	chr21:36085908:+>chr21:36088619:+	8	17
7505	BMPR1B	ORF1	chr4:95983291:+:MSTA>chr4:96025559:+:ENST00000440890	chr4:95983291:+>chr4:96025559:+	13	17
7506	GPNMB	ORF2	chr7:23303017:+:AluSq2>chr7:23306136:+:ENST00000258733	chr7:23303017:+>chr7:23306136:+	13	17
7507	GPNMB	ORF2	chr7:23303017:+:AluSq2>chr7:23306136:+:ENST00000381990	chr7:23303017:+>chr7:23306136:+	13	17
7508	GPNMB	ORF2	chr7:23303017:+:AluSq2>chr7:23306136:+:ENST00000539136	chr7:23303017:+>chr7:23306136:+	13	17
7509	GPNMB	ORF2	chr7:23303017:+:AluSq2>chr7:23306136:+:ENST00000453162	chr7:23303017:+>chr7:23306136:+	13	17
7510	TENM2	ORF2	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000518659	chr5:167682673:+>chr5:167687288:+	16	17
7511	TENM2	ORF2	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000545108	chr5:167682673:+>chr5:167687288:+	16	17
7512	TENM2	ORF2	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000519204	chr5:167682673:+>chr5:167687288:+	16	17
7513	TENM2	ORF2	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000520394	chr5:167682673:+>chr5:167687288:+	16	17
7514	TENM2	ORF2	chr5:167682673:+:MER113>chr5:167687288:+:ENST00000403607	chr5:167682673:+>chr5:167687288:+	16	17
7515	PTPRZ1	ORF1	chr7:121668488:+:L1M3>chr7:121668606:+:ENST00000393386	chr7:121668488:+>chr7:121668606:+	7	17
7516	PTPRZ1	ORF1	chr7:121668488:+:L1M3>chr7:121668606:+:ENST00000449182	chr7:121668488:+>chr7:121668606:+	7	17
7517	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000370931	chr1:71507004:->chr1:71478167:-	16	17
7518	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000351052	chr1:71507004:->chr1:71478167:-	16	17
7519	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000370932	chr1:71507004:->chr1:71478167:-	16	17
7520	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000497146	chr1:71507004:->chr1:71478167:-	16	17
7521	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000361210	chr1:71507004:->chr1:71478167:-	16	17
7522	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000479353	chr1:71507004:->chr1:71478167:-	16	17
7523	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000460330	chr1:71507004:->chr1:71478167:-	16	17
7524	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000354608	chr1:71507004:->chr1:71478167:-	16	17
7525	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000356595	chr1:71507004:->chr1:71478167:-	16	17
7526	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000414819	chr1:71507004:->chr1:71478167:-	16	17
7527	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000306666	chr1:71507004:->chr1:71478167:-	16	17
7528	PTGER3	ORF2	chr1:71507004:-:MER47B>chr1:71478167:-:ENST00000370924	chr1:71507004:->chr1:71478167:-	16	17
7529	TRPM1	ORF1	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000397795	chr15:31317748:->chr15:31295273:-	16	17
7530	TRPM1	ORF1	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000256552	chr15:31317748:->chr15:31295273:-	16	17
7531	TRPM1	ORF1	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000542188	chr15:31317748:->chr15:31295273:-	16	17
7532	TRPM1	ORF1	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000558768	chr15:31317748:->chr15:31295273:-	16	17
7533	TRPM1	ORF1	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000558445	chr15:31317748:->chr15:31295273:-	16	17
7534	TRPM1	ORF1	chr15:31317748:-:L2b>chr15:31295273:-:ENST00000559177	chr15:31317748:->chr15:31295273:-	16	17
7535	NOTCH3	ORF2	chr19:15297447:-:AluSx>chr19:15296490:-:ENST00000263388	chr19:15297447:->chr19:15296490:-	13	17
7536	NOTCH3	ORF2	chr19:15297447:-:AluSx>chr19:15296490:-:ENST00000601011	chr19:15297447:->chr19:15296490:-	13	17
7537	MYOF	ORF3	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000463743	chr10:95133812:->chr10:95132842:-	5	17
7538	MYOF	ORF3	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000358334	chr10:95133812:->chr10:95132842:-	5	17
7539	MYOF	ORF3	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000359263	chr10:95133812:->chr10:95132842:-	5	17
7540	MYOF	ORF3	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000371501	chr10:95133812:->chr10:95132842:-	5	17
7541	MYOF	ORF3	chr10:95133812:-:L1PA6>chr10:95132842:-:ENST00000371502	chr10:95133812:->chr10:95132842:-	5	17

Table 15

7542	PODXL	ORF2	chr7:131232243:-:MIRc>chr7:131196192:-:ENST00000446198	chr7:131232243:->chr7:131196192:-	8	17
7543	PODXL	ORF2	chr7:131232243:-:MIRc>chr7:131196192:-:ENST00000537928	chr7:131232243:->chr7:131196192:-	8	17
7544	PODXL	ORF2	chr7:131232243:-:MIRc>chr7:131196192:-:ENST00000541194	chr7:131232243:->chr7:131196192:-	8	17
7545	PODXL	ORF2	chr7:131232243:-:MIRc>chr7:131196192:-:ENST00000378555	chr7:131232243:->chr7:131196192:-	8	17
7546	PODXL	ORF2	chr7:131232243:-:MIRc>chr7:131196192:-:ENST00000322985	chr7:131232243:->chr7:131196192:-	8	17
7547	LRIG2	ORF2	chr1:113646407:+:MER31-int>chr1:113650216:+:ENST00000361127	chr1:113646407:+>chr1:113650216:+	15	17
7548	LPCAT1	ORF3	chr5:1475076:-:Tigger1>chr5:1474800:-:ENST00000475622	chr5:1475076:->chr5:1474800:-	10	17
7549	LPCAT1	ORF3	chr5:1475076:-:Tigger1>chr5:1474800:-:ENST00000283415	chr5:1475076:->chr5:1474800:-	10	17
7550	IFNGR1	ORF3	chr6:137536205:-:MIRb>chr6:137528214:-:ENST00000367739	chr6:137536205:->chr6:137528214:-	4	17
7551	IFNGR1	ORF3	chr6:137536205:-:MIRb>chr6:137528214:-:ENST00000543628	chr6:137536205:->chr6:137528214:-	4	17
7552	IFNGR1	ORF3	chr6:137536205:-:MIRb>chr6:137528214:-:ENST00000458076	chr6:137536205:->chr6:137528214:-	4	17
7553	IFNGR1	ORF3	chr6:137536205:-:MIRb>chr6:137528214:-:ENST00000367735	chr6:137536205:->chr6:137528214:-	4	17
7554	IFNGR1	ORF3	chr6:137536205:-:MIRb>chr6:137528214:-:ENST00000414770	chr6:137536205:->chr6:137528214:-	4	17
7555	EPCAM	ORF1	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000405271	chr2:47553008:+>chr2:47600602:+	13	17
7556	EPCAM	ORF1	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000456133	chr2:47553008:+>chr2:47600602:+	13	17
7557	EPCAM	ORF1	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000263735	chr2:47553008:+>chr2:47600602:+	13	17
7558	EPCAM	ORF1	chr2:47553008:+:Charlie18a>chr2:47600602:+:ENST00000419334	chr2:47553008:+>chr2:47600602:+	13	17
7559	C9orf135	ORF3	chr9:72501289:+:MER44C>chr9:72501754:+:ENST00000377197	chr9:72501289:+>chr9:72501754:+	14	17
7560	CACNA1A	ORF1	chr19:13416027:-:LTR16C>chr19:13414698:-:ENST00000360228	chr19:13416027:->chr19:13414698:-	15	17
7561	CACNA1A	ORF1	chr19:13416027:-:LTR16C>chr19:13414698:-:ENST00000573710	chr19:13416027:->chr19:13414698:-	15	17
7562	SDC3	ORF2	chr1:31346686:-:MIRb>chr1:31346224:-:ENST00000336798	chr1:31346686:->chr1:31346224:-	16	17
7563	SDC3	ORF2	chr1:31346686:-:MIRb>chr1:31346224:-:ENST00000339394	chr1:31346686:->chr1:31346224:-	16	17
7564	CDH3	ORF1	chr16:68708496:+:AluJo>chr16:68710288:+:ENST00000264012	chr16:68708496:+>chr16:68710288:+	4	17
7565	CDH3	ORF1	chr16:68708496:+:AluJo>chr16:68710288:+:ENST00000429102	chr16:68708496:+>chr16:68710288:+	4	17
7566	CDH3	ORF1	chr16:68708496:+:AluJo>chr16:68710288:+:ENST00000542274	chr16:68708496:+>chr16:68710288:+	4	17
7567	CD53	ORF2	chr1:111440564:+:MIR>chr1:111441746:+:ENST00000429072	chr1:111440564:+>chr1:111441746:+	3	17
7568	CD53	ORF2	chr1:111440564:+:MIR>chr1:111441746:+:ENST00000271324	chr1:111440564:+>chr1:111441746:+	3	17
7569	ITGAL	ORF2	chr16:30509333:+:AluSz>chr16:30510395:+:ENST00000356798	chr16:30509333:+>chr16:30510395:+	7	17
7570	ITGAL	ORF2	chr16:30509333:+:AluSz>chr16:30510395:+:ENST00000358164	chr16:30509333:+>chr16:30510395:+	7	17
7571	NRP1	ORF1	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374875	chr10:33497207:->chr10:33496644:-	15	17
7572	NRP1	ORF1	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000265371	chr10:33497207:->chr10:33496644:-	15	17
7573	NRP1	ORF1	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374867	chr10:33497207:->chr10:33496644:-	15	17
7574	NRP1	ORF1	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000395995	chr10:33497207:->chr10:33496644:-	15	17
7575	NRP1	ORF1	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374821	chr10:33497207:->chr10:33496644:-	15	17
7576	NRP1	ORF1	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374822	chr10:33497207:->chr10:33496644:-	15	17
7577	NRP1	ORF1	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374823	chr10:33497207:->chr10:33496644:-	15	17
7578	NRP1	ORF1	chr10:33497207:-:AluJr>chr10:33496644:-:ENST00000374816	chr10:33497207:->chr10:33496644:-	15	17
7579	CDH26	ORF3	chr20:58570217:+:MER77B>chr20:58570888:+:ENST00000244047	chr20:58570217:+>chr20:58570888:+	11	17
7580	CDH26	ORF3	chr20:58570217:+:MER77B>chr20:58570888:+:ENST00000348616	chr20:58570217:+>chr20:58570888:+	11	17
7581	CDH26	ORF3	chr20:58570217:+:MER77B>chr20:58570888:+:ENST00000370991	chr20:58570217:+>chr20:58570888:+	11	17
7582	ERBB3	ORF2	chr12:56489931:+:MIRc>chr12:56490287:+:ENST00000267101	chr12:56489931:+>chr12:56490287:+	9	17
7583	ERBB3	ORF2	chr12:56489931:+:MIRc>chr12:56490287:+:ENST00000450146	chr12:56489931:+>chr12:56490287:+	9	17
7584	ERBB3	ORF2	chr12:56489931:+:MIRc>chr12:56490287:+:ENST00000551085	chr12:56489931:+>chr12:56490287:+	9	17
7585	ERBB3	ORF2	chr12:56489931:+:MIRc>chr12:56490287:+:ENST00000415288	chr12:56489931:+>chr12:56490287:+	9	17
7586	ERBB3	ORF2	chr12:56489931:+:MIRc>chr12:56490287:+:ENST00000550070	chr12:56489931:+>chr12:56490287:+	9	17
7587	FCGR2A	ORF3	chr1:161483932:+:MER57F>chr1:161487765:+:ENST00000367972	chr1:161483932:+>chr1:161487765:+	3	17
7588	FCGR2A	ORF3	chr1:161483932:+:MER57F>chr1:161487765:+:ENST00000271450	chr1:161483932:+>chr1:161487765:+	3	17
7589	FCGR2A	ORF3	chr1:161483932:+:MER57F>chr1:161487765:+:ENST00000459885	chr1:161483932:+>chr1:161487765:+	3	17
7590	GRIA2	ORF3	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000512774	chr4:158141877:+>chr4:158142819:+	12	17
7591	GRIA2	ORF3	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000509417	chr4:158141877:+>chr4:158142819:+	12	17
7592	GRIA2	ORF3	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000296526	chr4:158141877:+>chr4:158142819:+	12	17
7593	GRIA2	ORF3	chr4:158141877:+:GA-rich>chr4:158142819:+:ENST00000264426	chr4:158141877:+>chr4:158142819:+	12	17
7594	CRB1	ORF3	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000535699	chr1:197412237:+>chr1:197446794:+	12	17
7595	CRB1	ORF3	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000538660	chr1:197412237:+>chr1:197446794:+	12	17
7596	CRB1	ORF3	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000367400	chr1:197412237:+>chr1:197446794:+	12	17
7597	CRB1	ORF3	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000367399	chr1:197412237:+>chr1:197446794:+	12	17
7598	CRB1	ORF3	chr1:197412237:+:AluSx>chr1:197446794:+:ENST00000544212	chr1:197412237:+>chr1:197446794:+	12	17
7599	RNF43	ORF3	chr17:56486202:-:L2a>chr17:56448394:-:ENST00000407977	chr17:56486202:->chr17:56448394:-	7	17
7600	RNF43	ORF3	chr17:56486202:-:L2a>chr17:56448394:-:ENST00000584437	chr17:56486202:->chr17:56448394:-	7	17
7601	RNF43	ORF3	chr17:56486202:-:L2a>chr17:56448394:-:ENST00000577716	chr17:56486202:->chr17:56448394:-	7	17
7602	SLC39A8	ORF1	chr4:103323036:-:Zaphod>chr4:103236987:-:ENST00000424970	chr4:103323036:->chr4:103236987:-	13	17
7603	SLC39A8	ORF1	chr4:103323036:-:Zaphod>chr4:103236987:-:ENST00000394833	chr4:103323036:->chr4:103236987:-	13	17
7604	SLC39A8	ORF1	chr4:103323036:-:Zaphod>chr4:103236987:-:ENST00000356736	chr4:103323036:->chr4:103236987:-	13	17
7605	CDHR2	ORF3	chr5:176017786:+:MIRb>chr5:176018211:+:ENST00000510636	chr5:176017786:+>chr5:176018211:+	8	16
7606	CDHR2	ORF3	chr5:176017786:+:MIRb>chr5:176018211:+:ENST00000261944	chr5:176017786:+>chr5:176018211:+	8	16
7607	CDHR2	ORF3	chr5:176017786:+:MIRb>chr5:176018211:+:ENST00000506348	chr5:176017786:+>chr5:176018211:+	8	16
7608	GPNMB	ORF2	chr7:23251437:+:LTR33B>chr7:23292972:+:ENST00000258733	chr7:23251437:+>chr7:23292972:+	6	16
7609	GPNMB	ORF2	chr7:23251437:+:LTR33B>chr7:23292972:+:ENST00000381990	chr7:23251437:+>chr7:23292972:+	6	16
7610	GPNMB	ORF2	chr7:23251437:+:LTR33B>chr7:23292972:+:ENST00000409458	chr7:23251437:+>chr7:23292972:+	6	16
7611	GPNMB	ORF2	chr7:23251437:+:LTR33B>chr7:23292972:+:ENST00000453162	chr7:23251437:+>chr7:23292972:+	6	16
7612	CLDN18	ORF3	chr3:137728412:+:MIRc>chr3:137742500:+:ENST00000343735	chr3:137728412:+>chr3:137742500:+	8	16
7613	CLDN18	ORF3	chr3:137728412:+:MIRc>chr3:137742500:+:ENST00000183605	chr3:137728412:+>chr3:137742500:+	8	16

Table 15

7614	CLDN18	ORF3	chr3:137728412:+:MIRc>chr3:137742500:+:ENST00000479660	chr3:137728412:+>chr3:137742500:+	8	16
7615	NPR2	ORF2	chr9:35790337:+:L2c>chr9:35799615:+:ENST00000342694	chr9:35790337:+>chr9:35799615:+	3	16
7616	TLCD1	ORF1	chr17:27054837:-:AluSx>chr17:27052581:-:ENST00000292090	chr17:27054837:->chr17:27052581:-	11	16
7617	TLCD1	ORF1	chr17:27054837:-:AluSx>chr17:27052581:-:ENST00000394933	chr17:27054837:->chr17:27052581:-	11	16
7618	ASTN2	ORF2	chr9:119602892:-:SVA_D>chr9:119583062:-:ENST00000373996	chr9:119602892:->chr9:119583062:-	14	16
7619	ASTN2	ORF2	chr9:119602892:-:SVA_D>chr9:119583062:-:ENST00000313400	chr9:119602892:->chr9:119583062:-	14	16
7620	ASTN2	ORF2	chr9:119602892:-:SVA_D>chr9:119583062:-:ENST00000373986	chr9:119602892:->chr9:119583062:-	14	16
7621	ASTN2	ORF2	chr9:119602892:-:SVA_D>chr9:119583062:-:ENST00000361209	chr9:119602892:->chr9:119583062:-	14	16
7622	IL17RE	ORF1	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000421412	chr3:9953735:+>chr3:9955640:+	7	16
7623	IL17RE	ORF1	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000295980	chr3:9953735:+>chr3:9955640:+	7	16
7624	IL17RE	ORF1	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000383814	chr3:9953735:+>chr3:9955640:+	7	16
7625	IL17RE	ORF1	chr3:9953735:+:MER1B>chr3:9955640:+:ENST00000454190	chr3:9953735:+>chr3:9955640:+	7	16
7626	VAMP8	ORF1	chr2:85807766:+:MER115>chr2:85808699:+:ENST00000432071	chr2:85807766:+>chr2:85808699:+	15	16
7627	VAMP8	ORF1	chr2:85807766:+:MER115>chr2:85808699:+:ENST00000263864	chr2:85807766:+>chr2:85808699:+	15	16
7628	VAMP8	ORF1	chr2:85807766:+:MER115>chr2:85808699:+:ENST00000409760	chr2:85807766:+>chr2:85808699:+	15	16
7629	CDH3	ORF3	chr16:68711459:+:AluSx1>chr16:68712037:+:ENST00000542274	chr16:68711459:+>chr16:68712037:+	11	16
7630	CACNG4	ORF2	chr17:64988129:+:L2c>chr17:65014305:+:ENST00000262138	chr17:64988129:+>chr17:65014305:+	13	16
7631	SGCZ	ORF2	chr8:14336605:-:MLT2A2>chr8:14181713:-:ENST00000382080	chr8:14336605:->chr8:14181713:-	10	16
7632	TTYH1	ORF1	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000423529	chr19:54930716:+>chr19:54932451:+	5	16
7633	TTYH1	ORF1	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000301194	chr19:54930716:+>chr19:54932451:+	5	16
7634	TTYH1	ORF1	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000376530	chr19:54930716:+>chr19:54932451:+	5	16
7635	TTYH1	ORF1	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000445095	chr19:54930716:+>chr19:54932451:+	5	16
7636	TTYH1	ORF1	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000391739	chr19:54930716:+>chr19:54932451:+	5	16
7637	TTYH1	ORF1	chr19:54930716:+:MIRb>chr19:54932451:+:ENST00000376531	chr19:54930716:+>chr19:54932451:+	5	16
7638	HM13	ORF1	chr20:30147036:+:L2a>chr20:30147414:+:ENST00000335574	chr20:30147036:+>chr20:30147414:+	3	16
7639	HM13	ORF1	chr20:30147036:+:L2a>chr20:30147414:+:ENST00000340852	chr20:30147036:+>chr20:30147414:+	3	16
7640	HM13	ORF1	chr20:30147036:+:L2a>chr20:30147414:+:ENST00000398174	chr20:30147036:+>chr20:30147414:+	3	16
7641	HM13	ORF1	chr20:30147036:+:L2a>chr20:30147414:+:ENST00000376127	chr20:30147036:+>chr20:30147414:+	3	16
7642	HM13	ORF1	chr20:30147036:+:L2a>chr20:30147414:+:ENST00000344042	chr20:30147036:+>chr20:30147414:+	3	16
7643	IL2RG	ORF3	chrX:70328686:-:MIRb>chrX:70328545:-:ENST00000464642	chrX:70328686:->chrX:70328545:-	4	16
7644	TREM1	ORF2	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000589614	chr6:41259171:->chr6:41250489:-	9	16
7645	TREM1	ORF2	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000244709	chr6:41259171:->chr6:41250489:-	9	16
7646	TREM1	ORF2	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000334475	chr6:41259171:->chr6:41250489:-	9	16
7647	TREM1	ORF2	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000591620	chr6:41259171:->chr6:41250489:-	9	16
7648	ASTN2	ORF1	chr9:119602932:-:SVA_D>chr9:119583062:-:ENST00000373996	chr9:119602932:->chr9:119583062:-	14	16
7649	ASTN2	ORF1	chr9:119602932:-:SVA_D>chr9:119583062:-:ENST00000313400	chr9:119602932:->chr9:119583062:-	14	16
7650	ASTN2	ORF1	chr9:119602932:-:SVA_D>chr9:119583062:-:ENST00000373986	chr9:119602932:->chr9:119583062:-	14	16
7651	ASTN2	ORF1	chr9:119602932:-:SVA_D>chr9:119583062:-:ENST00000361209	chr9:119602932:->chr9:119583062:-	14	16
7652	TNFSF10	ORF2	chr3:172225830:-:MIRb>chr3:172224709:-:ENST00000241261	chr3:172225830:->chr3:172224709:-	5	16
7653	TNFSF10	ORF2	chr3:172225830:-:MIRb>chr3:172224709:-:ENST00000420541	chr3:172225830:->chr3:172224709:-	5	16
7654	SLC7A8	ORF1	chr14:23607547:-:MIR>chr14:23607233:-:ENST00000528860	chr14:23607547:->chr14:23607233:-	15	16
7655	CD40	ORF2	chr20:44752755:+:AluSx1>chr20:44756777:+:ENST00000372285	chr20:44752755:+>chr20:44756777:+	11	16
7656	CD40	ORF2	chr20:44752755:+:AluSx1>chr20:44756777:+:ENST00000372276	chr20:44752755:+>chr20:44756777:+	11	16
7657	CD40	ORF2	chr20:44752755:+:AluSx1>chr20:44756777:+:ENST00000466205	chr20:44752755:+>chr20:44756777:+	11	16
7658	FOLH1	ORF1	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000256999	chr11:49228638:->chr11:49227724:-	13	16
7659	FOLH1	ORF2	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000256999	chr11:49228638:->chr11:49227724:-	8	16
7660	FOLH1	ORF1	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000356696	chr11:49228638:->chr11:49227724:-	13	16
7661	FOLH1	ORF2	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000356696	chr11:49228638:->chr11:49227724:-	8	16
7662	FOLH1	ORF1	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000525826	chr11:49228638:->chr11:49227724:-	13	16
7663	FOLH1	ORF2	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000525826	chr11:49228638:->chr11:49227724:-	8	16
7664	FOLH1	ORF1	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000340334	chr11:49228638:->chr11:49227724:-	13	16
7665	FOLH1	ORF2	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000340334	chr11:49228638:->chr11:49227724:-	8	16
7666	FOLH1	ORF1	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000533034	chr11:49228638:->chr11:49227724:-	13	16
7667	FOLH1	ORF2	chr11:49228638:-:L2c>chr11:49227724:-:ENST00000533034	chr11:49228638:->chr11:49227724:-	8	16
7668	ACE2	ORF3	chrX:15614396:-:MIRc>chrX:15613126:-:ENST00000252519	chrX:15614396:->chrX:15613126:-	4	15
7669	ACE2	ORF3	chrX:15614396:-:MIRc>chrX:15613126:-:ENST00000427411	chrX:15614396:->chrX:15613126:-	4	15
7670	SCNN1B	ORF1	chr16:23360640:+:AluJr>chr16:23364122:+:ENST00000343070	chr16:23360640:+>chr16:23364122:+	7	15
7671	SCNN1B	ORF1	chr16:23360640:+:AluJr>chr16:23364122:+:ENST00000307331	chr16:23360640:+>chr16:23364122:+	7	15
7672	SCNN1B	ORF1	chr16:23360640:+:AluJr>chr16:23364122:+:ENST00000564275	chr16:23360640:+>chr16:23364122:+	7	15
7673	SCNN1B	ORF1	chr16:23360640:+:AluJr>chr16:23364122:+:ENST00000568085	chr16:23360640:+>chr16:23364122:+	7	15
7674	SCNN1B	ORF1	chr16:23360640:+:AluJr>chr16:23364122:+:ENST00000568923	chr16:23360640:+>chr16:23364122:+	7	15
7675	TM7SF3	ORF3	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000343028	chr12:27153625:->chr12:27152581:-	5	15
7676	TM7SF3	ORF3	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000542019	chr12:27153625:->chr12:27152581:-	5	15
7677	TM7SF3	ORF3	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000512808	chr12:27153625:->chr12:27152581:-	5	15
7678	TM7SF3	ORF3	chr12:27153625:-:AluY>chr12:27152581:-:ENST00000545600	chr12:27153625:->chr12:27152581:-	5	15
7679	SLC52A2	ORF1	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000530047	chr8:145567965:+>chr8:145584645:+	5	15
7680	SLC52A2	ORF1	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000527078	chr8:145567965:+>chr8:145584645:+	5	15
7681	SLC52A2	ORF1	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000402965	chr8:145567965:+>chr8:145584645:+	5	15
7682	SLC52A2	ORF1	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000532887	chr8:145567965:+>chr8:145584645:+	5	15
7683	SLC52A2	ORF1	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000329994	chr8:145567965:+>chr8:145584645:+	5	15
7684	SLC52A2	ORF1	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000540505	chr8:145567965:+>chr8:145584645:+	5	15
7685	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000346798	chr21:27478885:->chr21:27462370:-	10	15

Table 15

7686	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000354192	chr21:27478885:->chr21:27462370:-	10	15
7687	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000348990	chr21:27478885:->chr21:27462370:-	10	15
7688	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000357903	chr21:27478885:->chr21:27462370:-	10	15
7689	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000358918	chr21:27478885:->chr21:27462370:-	10	15
7690	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000359726	chr21:27478885:->chr21:27462370:-	10	15
7691	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000448388	chr21:27478885:->chr21:27462370:-	10	15
7692	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000440126	chr21:27478885:->chr21:27462370:-	10	15
7693	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000439274	chr21:27478885:->chr21:27462370:-	10	15
7694	APP	ORF3	chr21:27478885:-:FRAM>chr21:27462370:-:ENST00000448850	chr21:27478885:->chr21:27462370:-	10	15
7695	PLSCR1	ORF3	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000472349	chr3:146237953:->chr3:146234954:-	11	15
7696	CELSR1	ORF1	chr22:46778374:-:AluY>chr22:46777947:-:ENST00000262738	chr22:46778374:->chr22:46777947:-	11	15
7697	GABBR2	ORF3	chr9:101067129:-:AluJb>chr9:101065705:-:ENST00000259455	chr9:101067129:->chr9:101065705:-	11	15
7698	SORCS2	ORF1	chr4:7636844:+:L1MC3>chr4:7640055:+:ENST00000507866	chr4:7636844:+>chr4:7640055:+	6	15
7699	SORCS2	ORF1	chr4:7636844:+:L1MC3>chr4:7640055:+:ENST00000329016	chr4:7636844:+>chr4:7640055:+	6	15
7700	CACNG6	ORF1	chr19:54502735:+:MIR3>chr19:54515205:+:ENST00000352529	chr19:54502735:+>chr19:54515205:+	10	15
7701	CACNG6	ORF1	chr19:54502735:+:MIR3>chr19:54515205:+:ENST00000252729	chr19:54502735:+>chr19:54515205:+	10	15
7702	CACNG6	ORF1	chr19:54502735:+:MIR3>chr19:54515205:+:ENST00000346968	chr19:54502735:+>chr19:54515205:+	10	15
7703	FAM174B	ORF1	chr15:93253499:-:MIRb>chr15:93173575:-:ENST00000327355	chr15:93253499:->chr15:93173575:-	10	15
7704	IFITM3	ORF1	chr11:322401:-:LTR76>chr11:320772:-:ENST00000399808	chr11:322401:->chr11:320772:-	9	15
7705	ACE	ORF2	chr17:61556008:+:AluJb>chr17:61556368:+:ENST00000538928	chr17:61556008:+>chr17:61556368:+	10	15
7706	ACE	ORF2	chr17:61556008:+:AluJb>chr17:61556368:+:ENST00000290866	chr17:61556008:+>chr17:61556368:+	10	15
7707	ACE	ORF2	chr17:61556008:+:AluJb>chr17:61556368:+:ENST00000428043	chr17:61556008:+>chr17:61556368:+	10	15
7708	ACE	ORF2	chr17:61556008:+:AluJb>chr17:61556368:+:ENST00000582627	chr17:61556008:+>chr17:61556368:+	10	15
7709	IFITM3	ORF1	chr11:321582:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321582:->chr11:320772:-	9	15
7710	IFITM3	ORF1	chr11:321660:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321660:->chr11:320772:-	9	15
7711	IFITM3	ORF1	chr11:322011:-:LTR76>chr11:320772:-:ENST00000399808	chr11:322011:->chr11:320772:-	9	15
7712	IFITM3	ORF1	chr11:322206:-:LTR76>chr11:320772:-:ENST00000399808	chr11:322206:->chr11:320772:-	9	15
7713	IFITM3	ORF1	chr11:321855:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321855:->chr11:320772:-	9	15
7714	IFITM3	ORF1	chr11:321504:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321504:->chr11:320772:-	9	15
7715	NGFR	ORF3	chr17:47582998:+:MER91A>chr17:47583661:+:ENST00000172229	chr17:47582998:+>chr17:47583661:+	14	15
7716	TMEM260	ORF1	chr14:56982236:+:THE1C>chr14:57051719:+:ENST00000556810	chr14:56982236:+>chr14:57051719:+	7	15
7717	TMEM260	ORF1	chr14:56982236:+:THE1C>chr14:57051719:+:ENST00000261556	chr14:56982236:+>chr14:57051719:+	7	15
7718	TMEM260	ORF1	chr14:56982236:+:THE1C>chr14:57051719:+:ENST00000555497	chr14:56982236:+>chr14:57051719:+	7	15
7719	TMEM260	ORF1	chr14:56982236:+:THE1C>chr14:57051719:+:ENST00000539559	chr14:56982236:+>chr14:57051719:+	7	15
7720	TMEM260	ORF1	chr14:56982236:+:THE1C>chr14:57051719:+:ENST00000538838	chr14:56982236:+>chr14:57051719:+	7	15
7721	GABRA5	ORF1	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000335625	chr15:27076933:+>chr15:27125993:+	4	15
7722	GABRA5	ORF1	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000355395	chr15:27076933:+>chr15:27125993:+	4	15
7723	GABRA5	ORF1	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000400081	chr15:27076933:+>chr15:27125993:+	4	15
7724	GABRA5	ORF1	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000554038	chr15:27076933:+>chr15:27125993:+	4	15
7725	GABRA5	ORF1	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000554596	chr15:27076933:+>chr15:27125993:+	4	15
7726	GABRA5	ORF1	chr15:27076933:+:MER1A>chr15:27125993:+:ENST00000554599	chr15:27076933:+>chr15:27125993:+	4	15
7727	IFITM3	ORF1	chr11:321543:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321543:->chr11:320772:-	9	15
7728	ACSL5	ORF1	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000354655	chr10:114163723:+>chr10:114164269:+	7	15
7729	ACSL5	ORF1	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000393081	chr10:114163723:+>chr10:114164269:+	7	15
7730	ACSL5	ORF1	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000356116	chr10:114163723:+>chr10:114164269:+	7	15
7731	ACSL5	ORF1	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000433418	chr10:114163723:+>chr10:114164269:+	7	15
7732	ACSL5	ORF1	chr10:114163723:+:L1ME4a>chr10:114164269:+:ENST00000354273	chr10:114163723:+>chr10:114164269:+	7	15
7733	DRD4	ORF1	chr11:639158:+:AluJr>chr11:639433:+:ENST00000176183	chr11:639158:+>chr11:639433:+	7	15
7734	CDH26	ORF1	chr20:58570217:+:MER77B>chr20:58570888:+:ENST00000244047	chr20:58570217:+>chr20:58570888:+	11	15
7735	CDH26	ORF1	chr20:58570217:+:MER77B>chr20:58570888:+:ENST00000348616	chr20:58570217:+>chr20:58570888:+	11	15
7736	CDH26	ORF1	chr20:58570217:+:MER77B>chr20:58570888:+:ENST00000370991	chr20:58570217:+>chr20:58570888:+	11	15
7737	ASTN2	ORF1	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000373996	chr9:119602848:->chr9:119583062:-	13	15
7738	ASTN2	ORF1	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000313400	chr9:119602848:->chr9:119583062:-	13	15
7739	ASTN2	ORF1	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000373986	chr9:119602848:->chr9:119583062:-	13	15
7740	ASTN2	ORF1	chr9:119602848:-:SVA_D>chr9:119583062:-:ENST00000361209	chr9:119602848:->chr9:119583062:-	13	15
7741	SLC47A2	ORF3	chr17:19600139:-:MSTD>chr17:19584983:-:ENST00000325411	chr17:19600139:->chr17:19584983:-	8	15
7742	SLC47A2	ORF3	chr17:19600139:-:MSTD>chr17:19584983:-:ENST00000350657	chr17:19600139:->chr17:19584983:-	8	15
7743	FCGR2A	ORF2	chr1:161483932:+:MER57F>chr1:161487765:+:ENST00000367972	chr1:161483932:+>chr1:161487765:+	9	15
7744	FCGR2A	ORF2	chr1:161483932:+:MER57F>chr1:161487765:+:ENST00000271450	chr1:161483932:+>chr1:161487765:+	9	15
7745	FCGR2A	ORF2	chr1:161483932:+:MER57F>chr1:161487765:+:ENST00000459885	chr1:161483932:+>chr1:161487765:+	9	15
7746	STIM1	ORF2	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000525403	chr11:4050982:+>chr11:4076756:+	3	15
7747	STIM1	ORF2	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000300737	chr11:4050982:+>chr11:4076756:+	3	15
7748	STIM1	ORF2	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000527651	chr11:4050982:+>chr11:4076756:+	3	15
7749	STIM1	ORF2	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000532610	chr11:4050982:+>chr11:4076756:+	3	15
7750	STIM1	ORF2	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000532919	chr11:4050982:+>chr11:4076756:+	3	15
7751	STIM1	ORF2	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000530554	chr11:4050982:+>chr11:4076756:+	3	15
7752	STIM1	ORF2	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000525055	chr11:4050982:+>chr11:4076756:+	3	15
7753	STIM1	ORF2	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000528656	chr11:4050982:+>chr11:4076756:+	3	15
7754	STIM1	ORF2	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000532990	chr11:4050982:+>chr11:4076756:+	3	15
7755	CDH19	ORF1	chr18:64181248:-:MIRb>chr18:64178922:-:ENST00000262150	chr18:64181248:->chr18:64178922:-	6	15
7756	CDH19	ORF1	chr18:64181248:-:MIRb>chr18:64178922:-:ENST00000579658	chr18:64181248:->chr18:64178922:-	6	15
7757	CLSTN3	ORF1	chr12:7291030:+:MIRb>chr12:7293838:+:ENST00000266546	chr12:7291030:+>chr12:7293838:+	3	14

Table 15

7758	CLSTN3	ORF1	chr12:7291030:+:MIRb>chr12:7293838:+:ENST00000537408	chr12:7291030:+>chr12:7293838:+	3	14
7759	SLC44A1	ORF2	chr9:108162263:+:AluSp>chr9:108200562:+:ENST00000374724	chr9:108162263:+>chr9:108200562:+	13	14
7760	SLC44A1	ORF2	chr9:108162263:+:AluSp>chr9:108200562:+:ENST00000343170	chr9:108162263:+>chr9:108200562:+	13	14
7761	APP	ORF1	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000346798	chr21:27478879:->chr21:27462388:-	11	14
7762	APP	ORF1	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000354192	chr21:27478879:->chr21:27462388:-	11	14
7763	APP	ORF1	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000348990	chr21:27478879:->chr21:27462388:-	11	14
7764	APP	ORF1	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000357903	chr21:27478879:->chr21:27462388:-	11	14
7765	APP	ORF1	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000358918	chr21:27478879:->chr21:27462388:-	11	14
7766	APP	ORF1	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000359726	chr21:27478879:->chr21:27462388:-	11	14
7767	APP	ORF1	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000448388	chr21:27478879:->chr21:27462388:-	11	14
7768	APP	ORF1	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000440126	chr21:27478879:->chr21:27462388:-	11	14
7769	APP	ORF1	chr21:27478879:-:FRAM>chr21:27462388:-:ENST00000439274	chr21:27478879:->chr21:27462388:-	11	14
7770	SLC29A4	ORF3	chr7:5340708:+:AluJo>chr7:5342428:+:ENST00000396872	chr7:5340708:+>chr7:5342428:+	11	14
7771	SLC29A4	ORF3	chr7:5340708:+:AluJo>chr7:5342428:+:ENST00000297195	chr7:5340708:+>chr7:5342428:+	11	14
7772	SLC29A4	ORF3	chr7:5340708:+:AluJo>chr7:5342428:+:ENST00000406453	chr7:5340708:+>chr7:5342428:+	11	14
7773	TLCD1	ORF3	chr17:27054837:-:AluSx>chr17:27052581:-:ENST00000292090	chr17:27054837:->chr17:27052581:-	6	14
7774	TLCD1	ORF3	chr17:27054837:-:AluSx>chr17:27052581:-:ENST00000394933	chr17:27054837:->chr17:27052581:-	6	14
7775	SGCE	ORF2	chr7:94270209:-:AluSx>chr7:94268760:-:ENST00000415788	chr7:94270209:->chr7:94268760:-	7	14
7776	BICC1	ORF3	chr10:60376727:+:HERVL18-int>chr10:60380615:+:ENST00000373886	chr10:60376727:+>chr10:60380615:+	11	14
7777	ADORA2B	ORF2	chr17:15873282:+:L2c>chr17:15877993:+:ENST00000304222	chr17:15873282:+>chr17:15877993:+	13	14
7778	CD99L2	ORF1	chrX:149996779:-:MIR>chrX:149963959:-:ENST00000370377	chrX:149996779:->chrX:149963959:-	9	14
7779	CD99L2	ORF1	chrX:149996779:-:MIR>chrX:149963959:-:ENST00000466436	chrX:149996779:->chrX:149963959:-	9	14
7780	CD99L2	ORF1	chrX:149996779:-:MIR>chrX:149963959:-:ENST00000418547	chrX:149996779:->chrX:149963959:-	9	14
7781	MMP24	ORF1	chr20:33851310:+:L2c>chr20:33851594:+:ENST00000246186	chr20:33851310:+>chr20:33851594:+	4	14
7782	LRIG2	ORF1	chr1:113646357:+:MER31-int>chr1:113650216:+:ENST00000361127	chr1:113646357:+>chr1:113650216:+	5	14
7783	SGCB	ORF3	chr4:52913266:-:THE1B>chr4:52899806:-:ENST00000381431	chr4:52913266:->chr4:52899806:-	7	14
7784	SGCB	ORF3	chr4:52913266:-:THE1B>chr4:52899806:-:ENST00000506357	chr4:52913266:->chr4:52899806:-	7	14
7785	SGCB	ORF3	chr4:52913266:-:THE1B>chr4:52899806:-:ENST00000514133	chr4:52913266:->chr4:52899806:-	7	14
7786	SUSD3	ORF3	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000375472	chr9:95843805:+>chr9:95846819:+	11	14
7787	SUSD3	ORF3	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000465709	chr9:95843805:+>chr9:95846819:+	11	14
7788	SUSD3	ORF3	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000375469	chr9:95843805:+>chr9:95846819:+	11	14
7789	SUSD3	ORF3	chr9:95843805:+:MIR>chr9:95846819:+:ENST00000471462	chr9:95843805:+>chr9:95846819:+	11	14
7790	ADCY5	ORF3	chr3:123034582:-:AluSz6>chr3:123033169:-:ENST00000462833	chr3:123034582:->chr3:123033169:-	5	14
7791	ADCY5	ORF3	chr3:123034582:-:AluSz6>chr3:123033169:-:ENST00000491190	chr3:123034582:->chr3:123033169:-	5	14
7792	ADCY5	ORF3	chr3:123034582:-:AluSz6>chr3:123033169:-:ENST00000309879	chr3:123034582:->chr3:123033169:-	5	14
7793	ADCY5	ORF3	chr3:123034582:-:AluSz6>chr3:123033169:-:ENST00000466617	chr3:123034582:->chr3:123033169:-	5	14
7794	BTLA	ORF3	chr3:112200031:-:MSTD-int>chr3:112198616:-:ENST00000334529	chr3:112200031:->chr3:112198616:-	9	14
7795	BTLA	ORF3	chr3:112200031:-:MSTD-int>chr3:112198616:-:ENST00000383680	chr3:112200031:->chr3:112198616:-	9	14
7796	IFITM3	ORF1	chr11:321465:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321465:->chr11:320772:-	8	14
7797	IFITM3	ORF1	chr11:322557:-:LTR76>chr11:320772:-:ENST00000399808	chr11:322557:->chr11:320772:-	8	14
7798	IFITM3	ORF1	chr11:321387:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321387:->chr11:320772:-	8	14
7799	IFITM3	ORF2	chr11:321426:-:LTR76>chr11:320772:-:ENST00000399808	chr11:321426:->chr11:320772:-	8	14
7800	SGCB	ORF1	chr4:52915523:-:THE1B>chr4:52899806:-:ENST00000381431	chr4:52915523:->chr4:52899806:-	7	14
7801	SGCB	ORF1	chr4:52915523:-:THE1B>chr4:52899806:-:ENST00000506357	chr4:52915523:->chr4:52899806:-	7	14
7802	SGCB	ORF1	chr4:52915523:-:THE1B>chr4:52899806:-:ENST00000514133	chr4:52915523:->chr4:52899806:-	7	14
7803	GPR176	ORF1	chr15:40186733:-:SVA_F>chr15:40099398:-:ENST00000299092	chr15:40186733:->chr15:40099398:-	12	14
7804	GPR176	ORF1	chr15:40186733:-:SVA_F>chr15:40099398:-:ENST00000561100	chr15:40186733:->chr15:40099398:-	12	14
7805	GPR176	ORF1	chr15:40186733:-:SVA_F>chr15:40099398:-:ENST00000543580	chr15:40186733:->chr15:40099398:-	12	14
7806	CX3CR1	ORF1	chr3:39334283:-:MIR>chr3:39308009:-:ENST00000358309	chr3:39334283:->chr3:39308009:-	3	14
7807	CRB1	ORF3	chr1:197412237:+:AluSx>chr1:197446678:+:ENST00000448952	chr1:197412237:+>chr1:197446678:+	12	14
7808	FLOT1	ORF1	chr6:30706130:-:X7B_LINE>chr6:30695922:-:ENST00000376389	chr6:30706130:->chr6:30695922:-	4	14
7809	FLOT1	ORF1	chr6:30706130:-:X7B_LINE>chr6:30695922:-:ENST00000456573	chr6:30706130:->chr6:30695922:-	4	14
7810	FAIM2	ORF1	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000320634	chr12:50292556:->chr12:50291869:-	9	13
7811	FAIM2	ORF1	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000550890	chr12:50292556:->chr12:50291869:-	9	13
7812	FAIM2	ORF1	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000550195	chr12:50292556:->chr12:50291869:-	9	13
7813	FAIM2	ORF1	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000552669	chr12:50292556:->chr12:50291869:-	9	13
7814	FAIM2	ORF1	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000550635	chr12:50292556:->chr12:50291869:-	9	13
7815	FAIM2	ORF1	chr12:50292556:-:AluJb>chr12:50291869:-:ENST00000547871	chr12:50292556:->chr12:50291869:-	9	13
7816	AHCYL1	ORF1	chr1:110545898:+:L1MC4>chr1:110551656:+:ENST00000369799	chr1:110545898:+>chr1:110551656:+	8	13
7817	SLC52A2	ORF1	chr8:145567965:+:MLT1H2>chr8:145584645:+:ENST00000526752	chr8:145567965:+>chr8:145584645:+	5	13
7818	SLC39A11	ORF2	chr17:70713885:-:MLT1C>chr17:70709120:-:ENST00000581581	chr17:70713885:->chr17:70709120:-	3	13
7819	GPRC5B	ORF2	chr16:19886054:-:MER20>chr16:19884168:-:ENST00000537135	chr16:19886054:->chr16:19884168:-	4	13
7820	SGCB	ORF3	chr4:52898031:-:HAL1>chr4:52896029:-:ENST00000381431	chr4:52898031:->chr4:52896029:-	12	13
7821	SGCB	ORF3	chr4:52898031:-:HAL1>chr4:52896029:-:ENST00000535450	chr4:52898031:->chr4:52896029:-	12	13
7822	CLDN15	ORF3	chr7:100877859:-:AluSz>chr7:100877723:-:ENST00000308344	chr7:100877859:->chr7:100877723:-	4	13
7823	CLDN15	ORF3	chr7:100877859:-:AluSz>chr7:100877723:-:ENST00000401528	chr7:100877859:->chr7:100877723:-	4	13
7824	CLDN15	ORF3	chr7:100877859:-:AluSz>chr7:100877723:-:ENST00000433833	chr7:100877859:->chr7:100877723:-	4	13
7825	ANO8	ORF3	chr19:17444964:-:MIR>chr19:17444609:-:ENST00000597643	chr19:17444964:->chr19:17444609:-	12	13
7826	ANO8	ORF3	chr19:17444964:-:MIR>chr19:17444609:-:ENST00000159087	chr19:17444964:->chr19:17444609:-	12	13
7827	VEZT	ORF3	chr12:95636040:+:AluJr>chr12:95637717:+:ENST00000551039	chr12:95636040:+>chr12:95637717:+	7	13
7828	ANO10	ORF3	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000292246	chr3:43498855:->chr3:43474219:-	7	13
7829	ANO10	ORF3	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000350459	chr3:43498855:->chr3:43474219:-	7	13

Table 15

7830	ANO10	ORF3	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000396091	chr3:43498855:->chr3:43474219:-	7	13
7831	ANO10	ORF3	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000451430	chr3:43498855:->chr3:43474219:-	7	13
7832	ANO10	ORF3	chr3:43498855:-:THE1D>chr3:43474219:-:ENST00000448045	chr3:43498855:->chr3:43474219:-	7	13
7833	SLC9A1	ORF2	chr1:27430228:-:MIR>chr1:27429803:-:ENST00000263980	chr1:27430228:->chr1:27429803:-	11	13
7834	SLC9A1	ORF2	chr1:27430228:-:MIR>chr1:27429803:-:ENST00000545949	chr1:27430228:->chr1:27429803:-	11	13
7835	BACE2	ORF2	chr21:42567569:+:LTR78>chr21:42598193:+:ENST00000328735	chr21:42567569:+>chr21:42598193:+	8	13
7836	BACE2	ORF2	chr21:42567569:+:LTR78>chr21:42598193:+:ENST00000330333	chr21:42567569:+>chr21:42598193:+	8	13
7837	BACE2	ORF2	chr21:42567569:+:LTR78>chr21:42598193:+:ENST00000347667	chr21:42567569:+>chr21:42598193:+	8	13
7838	ERBB2	ORF2	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000584601	chr17:37882405:+>chr17:37882815:+	11	13
7839	ERBB2	ORF2	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000406381	chr17:37882405:+>chr17:37882815:+	11	13
7840	ERBB2	ORF2	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000541774	chr17:37882405:+>chr17:37882815:+	11	13
7841	ERBB2	ORF2	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000445658	chr17:37882405:+>chr17:37882815:+	11	13
7842	ERBB2	ORF2	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000540147	chr17:37882405:+>chr17:37882815:+	11	13
7843	ERBB2	ORF2	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000584450	chr17:37882405:+>chr17:37882815:+	11	13
7844	ERBB2	ORF2	chr17:37882405:+:AluJr>chr17:37882815:+:ENST00000269571	chr17:37882405:+>chr17:37882815:+	11	13
7845	GLDN	ORF3	chr15:51649596:+:HERV17-int>chr15:51669646:+:ENST00000335449	chr15:51649596:+>chr15:51669646:+	10	13
7846	GLDN	ORF3	chr15:51649596:+:HERV17-int>chr15:51669646:+:ENST00000558426	chr15:51649596:+>chr15:51669646:+	10	13
7847	ABCA7	ORF3	chr19:1064746:+:AluJr>chr19:1064930:+:ENST00000263094	chr19:1064746:+>chr19:1064930:+	6	13
7848	ABCA7	ORF3	chr19:1064746:+:AluJr>chr19:1064930:+:ENST00000433129	chr19:1064746:+>chr19:1064930:+	6	13
7849	ABCA7	ORF3	chr19:1064746:+:AluJr>chr19:1064930:+:ENST00000435683	chr19:1064746:+>chr19:1064930:+	6	13
7850	ABCA7	ORF3	chr19:1064746:+:AluJr>chr19:1064930:+:ENST00000525073	chr19:1064746:+>chr19:1064930:+	6	13
7851	DRAM2	ORF1	chr1:111670605:-:Charlie7a>chr1:111668916:-:ENST00000286692	chr1:111670605:->chr1:111668916:-	8	13
7852	DRAM2	ORF1	chr1:111670605:-:Charlie7a>chr1:111668916:-:ENST00000539140	chr1:111670605:->chr1:111668916:-	8	13
7853	DRAM2	ORF1	chr1:111670605:-:Charlie7a>chr1:111668916:-:ENST00000496430	chr1:111670605:->chr1:111668916:-	8	13
7854	ABCB5	ORF2	chr7:20686997:+:U2>chr7:20687158:+:ENST00000404938	chr7:20686997:+>chr7:20687158:+	10	13
7855	ABHD2	ORF3	chr15:89717675:+:MER5A>chr15:89719043:+:ENST00000352732	chr15:89717675:+>chr15:89719043:+	4	13
7856	ABHD2	ORF3	chr15:89717675:+:MER5A>chr15:89719043:+:ENST00000565973	chr15:89717675:+>chr15:89719043:+	4	13
7857	ABHD2	ORF3	chr15:89717675:+:MER5A>chr15:89719043:+:ENST00000355100	chr15:89717675:+>chr15:89719043:+	4	13
7858	CDH22	ORF1	chr20:44848437:-:MIR>chr20:44845632:-:ENST00000372262	chr20:44848437:->chr20:44845632:-	12	13
7859	CDH22	ORF1	chr20:44848437:-:MIR>chr20:44845632:-:ENST00000537909	chr20:44848437:->chr20:44845632:-	12	13
7860	LAIR1	ORF1	chr19:54868321:-:MIRb>chr19:54868228:-:ENST00000391741	chr19:54868321:->chr19:54868228:-	5	13
7861	HM13	ORF3	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000335574	chr20:30126162:+>chr20:30137867:+	7	13
7862	HM13	ORF3	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000340852	chr20:30126162:+>chr20:30137867:+	7	13
7863	HM13	ORF3	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000398174	chr20:30126162:+>chr20:30137867:+	7	13
7864	HM13	ORF3	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000376127	chr20:30126162:+>chr20:30137867:+	7	13
7865	HM13	ORF3	chr20:30126162:+:MIRb>chr20:30137867:+:ENST00000344042	chr20:30126162:+>chr20:30137867:+	7	13
7866	ERBB3	ORF2	chr12:56489989:+:MIRc>chr12:56490287:+:ENST00000267101	chr12:56489989:+>chr12:56490287:+	11	13
7867	ERBB3	ORF2	chr12:56489989:+:MIRc>chr12:56490287:+:ENST00000450146	chr12:56489989:+>chr12:56490287:+	11	13
7868	ERBB3	ORF2	chr12:56489989:+:MIRc>chr12:56490287:+:ENST00000551085	chr12:56489989:+>chr12:56490287:+	11	13
7869	ERBB3	ORF2	chr12:56489989:+:MIRc>chr12:56490287:+:ENST00000415288	chr12:56489989:+>chr12:56490287:+	11	13
7870	ERBB3	ORF2	chr12:56489989:+:MIRc>chr12:56490287:+:ENST00000550070	chr12:56489989:+>chr12:56490287:+	11	13
7871	EPCAM	ORF3	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000405271	chr2:47599545:+>chr2:47600602:+	3	13
7872	EPCAM	ORF3	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000456133	chr2:47599545:+>chr2:47600602:+	3	13
7873	EPCAM	ORF3	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000263735	chr2:47599545:+>chr2:47600602:+	3	13
7874	EPCAM	ORF3	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000419334	chr2:47599545:+>chr2:47600602:+	3	13
7875	ATP4A	ORF2	chr19:36047040:-:L2a>chr19:36046714:-:ENST00000592767	chr19:36047040:->chr19:36046714:-	6	12
7876	ITGB4	ORF3	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000579662	chr17:73722173:+>chr17:73739798:+	7	12
7877	ITGB4	ORF3	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000339591	chr17:73722173:+>chr17:73739798:+	7	12
7878	ITGB4	ORF3	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000200181	chr17:73722173:+>chr17:73739798:+	7	12
7879	ITGB4	ORF3	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000450894	chr17:73722173:+>chr17:73739798:+	7	12
7880	ITGB4	ORF3	chr17:73722173:+:MIRc>chr17:73739798:+:ENST00000449880	chr17:73722173:+>chr17:73739798:+	7	12
7881	BACE2	ORF1	chr21:42486386:+:AluSx>chr21:42609440:+:ENST00000328735	chr21:42486386:+>chr21:42609440:+	11	12
7882	BACE2	ORF1	chr21:42486386:+:AluSx>chr21:42609440:+:ENST00000330333	chr21:42486386:+>chr21:42609440:+	11	12
7883	BACE2	ORF1	chr21:42486386:+:AluSx>chr21:42609440:+:ENST00000347667	chr21:42486386:+>chr21:42609440:+	11	12
7884	ITM2B	ORF1	chr13:48791589:+:THE1C-int>chr13:48827944:+:ENST00000378565	chr13:48791589:+>chr13:48827944:+	9	12
7885	ITM2B	ORF1	chr13:48791589:+:THE1C-int>chr13:48827944:+:ENST00000378549	chr13:48791589:+>chr13:48827944:+	9	12
7886	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000346798	chr21:27478885:->chr21:27462388:-	9	12
7887	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000354192	chr21:27478885:->chr21:27462388:-	9	12
7888	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000348990	chr21:27478885:->chr21:27462388:-	9	12
7889	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000357903	chr21:27478885:->chr21:27462388:-	9	12
7890	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000358918	chr21:27478885:->chr21:27462388:-	9	12
7891	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000359726	chr21:27478885:->chr21:27462388:-	9	12
7892	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000448388	chr21:27478885:->chr21:27462388:-	9	12
7893	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000440126	chr21:27478885:->chr21:27462388:-	9	12
7894	APP	ORF1	chr21:27478885:-:FRAM>chr21:27462388:-:ENST00000439274	chr21:27478885:->chr21:27462388:-	9	12
7895	APP	ORF3	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000346798	chr21:27453597:->chr21:27425664:-	10	12
7896	APP	ORF3	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000354192	chr21:27453597:->chr21:27425664:-	10	12
7897	APP	ORF3	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000348990	chr21:27453597:->chr21:27425664:-	10	12
7898	APP	ORF3	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000357903	chr21:27453597:->chr21:27425664:-	10	12
7899	APP	ORF3	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000358918	chr21:27453597:->chr21:27425664:-	10	12
7900	APP	ORF3	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000359726	chr21:27453597:->chr21:27425664:-	10	12
7901	APP	ORF3	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000448388	chr21:27453597:->chr21:27425664:-	10	12

Table 15

7902	APP	ORF3	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000440126	chr21:27453597:->chr21:27425664:-	10	12
7903	APP	ORF3	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000439274	chr21:27453597:->chr21:27425664:-	10	12
7904	APP	ORF3	chr21:27453597:-:LTR7>chr21:27425664:-:ENST00000448850	chr21:27453597:->chr21:27425664:-	10	12
7905	SLC9A1	ORF1	chr1:27461002:-:MIRb>chr1:27440777:-:ENST00000263980	chr1:27461002:->chr1:27440777:-	9	12
7906	SLC9A1	ORF1	chr1:27461002:-:MIRb>chr1:27440777:-:ENST00000374086	chr1:27461002:->chr1:27440777:-	9	12
7907	SLC9A1	ORF1	chr1:27461002:-:MIRb>chr1:27440777:-:ENST00000374084	chr1:27461002:->chr1:27440777:-	9	12
7908	CD40	ORF2	chr20:44752755:+:AluSx1>chr20:44755279:+:ENST00000372285	chr20:44752755:+>chr20:44755279:+	11	12
7909	CD40	ORF2	chr20:44752755:+:AluSx1>chr20:44755279:+:ENST00000466205	chr20:44752755:+>chr20:44755279:+	11	12
7910	BACE2	ORF1	chr21:42609159:+:AluSc>chr21:42609440:+:ENST00000328735	chr21:42609159:+>chr21:42609440:+	11	12
7911	BACE2	ORF1	chr21:42609159:+:AluSc>chr21:42609440:+:ENST00000330333	chr21:42609159:+>chr21:42609440:+	11	12
7912	BACE2	ORF1	chr21:42609159:+:AluSc>chr21:42609440:+:ENST00000347667	chr21:42609159:+>chr21:42609440:+	11	12
7913	GPR143	ORF3	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000467482	chrX:9715893:->chrX:9714193:-	11	12
7914	GPR143	ORF3	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000380929	chrX:9715893:->chrX:9714193:-	11	12
7915	GPR143	ORF3	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000447366	chrX:9715893:->chrX:9714193:-	11	12
7916	GPR143	ORF3	chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000431126	chrX:9715893:->chrX:9714193:-	11	12
7917	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000360168	chr12:6458996:->chr12:6458387:-	11	12
7918	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000358945	chr12:6458996:->chr12:6458387:-	11	12
7919	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000540037	chr12:6458996:->chr12:6458387:-	11	12
7920	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000228916	chr12:6458996:->chr12:6458387:-	11	12
7921	SCNN1A	ORF1	chr12:6458996:-:AluY>chr12:6458387:-:ENST00000543768	chr12:6458996:->chr12:6458387:-	11	12
7922	GPNMB	ORF2	chr7:23290481:+:MIR3>chr7:23292926:+:ENST00000258733	chr7:23290481:+>chr7:23292926:+	9	12
7923	GPNMB	ORF2	chr7:23290481:+:MIR3>chr7:23292926:+:ENST00000381990	chr7:23290481:+>chr7:23292926:+	9	12
7924	GPNMB	ORF2	chr7:23290481:+:MIR3>chr7:23292926:+:ENST00000409458	chr7:23290481:+>chr7:23292926:+	9	12
7925	GPNMB	ORF2	chr7:23290481:+:MIR3>chr7:23292926:+:ENST00000453162	chr7:23290481:+>chr7:23292926:+	9	12
7926	CD97	ORF1	chr19:14515022:+:L2a>chr19:14515195:+:ENST00000358600	chr19:14515022:+>chr19:14515195:+	10	12
7927	CD97	ORF1	chr19:14515022:+:L2a>chr19:14515195:+:ENST00000357355	chr19:14515022:+>chr19:14515195:+	10	12
7928	CD97	ORF1	chr19:14515022:+:L2a>chr19:14515195:+:ENST00000242786	chr19:14515022:+>chr19:14515195:+	10	12
7929	CD4	ORF2	chr12:6916634:+:L1MD1>chr12:6923308:+:ENST00000011653	chr12:6916634:+>chr12:6923308:+	8	12
7930	CD4	ORF3	chr12:6916634:+:L1MD1>chr12:6923308:+:ENST00000011653	chr12:6916634:+>chr12:6923308:+	6	12
7931	CD4	ORF2	chr12:6916634:+:L1MD1>chr12:6923308:+:ENST00000541982	chr12:6916634:+>chr12:6923308:+	8	12
7932	CD4	ORF3	chr12:6916634:+:L1MD1>chr12:6923308:+:ENST00000541982	chr12:6916634:+>chr12:6923308:+	6	12
7933	BSG	ORF2	chr19:571098:+:LTR10B>chr19:579500:+:ENST00000333511	chr19:571098:+>chr19:579500:+	5	12
7934	BSG	ORF2	chr19:571098:+:LTR10B>chr19:579500:+:ENST00000353555	chr19:571098:+>chr19:579500:+	5	12
7935	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000377795	chr5:149925791:->chr5:149792270:-	8	12
7936	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000353334	chr5:149925791:->chr5:149792270:-	8	12
7937	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000518797	chr5:149925791:->chr5:149792270:-	8	12
7938	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000524315	chr5:149925791:->chr5:149792270:-	8	12
7939	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000009530	chr5:149925791:->chr5:149792270:-	8	12
7940	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000523208	chr5:149925791:->chr5:149792270:-	8	12
7941	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000522246	chr5:149925791:->chr5:149792270:-	8	12
7942	CD74	ORF3	chr5:149925791:-:AluSg>chr5:149792270:-:ENST00000523813	chr5:149925791:->chr5:149792270:-	8	12
7943	PTGER3	ORF3	chr1:71327988:-:LTR79>chr1:71318542:-:ENST00000370932	chr1:71327988:->chr1:71318542:-	6	12
7944	PTGER3	ORF3	chr1:71327988:-:LTR79>chr1:71318542:-:ENST00000460330	chr1:71327988:->chr1:71318542:-	6	12
7945	ANO10	ORF3	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000292246	chr3:43593686:->chr3:43591340:-	6	12
7946	ANO10	ORF3	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000350459	chr3:43593686:->chr3:43591340:-	6	12
7947	ANO10	ORF3	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000396091	chr3:43593686:->chr3:43591340:-	6	12
7948	ANO10	ORF3	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000414522	chr3:43593686:->chr3:43591340:-	6	12
7949	ANO10	ORF3	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000451430	chr3:43593686:->chr3:43591340:-	6	12
7950	ANO10	ORF3	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000448045	chr3:43593686:->chr3:43591340:-	6	12
7951	BMPR1B	ORF3	chr4:95977990:+:L2b>chr4:96025559:+:ENST00000440890	chr4:95977990:+>chr4:96025559:+	7	11
7952	PLSCR1	ORF2	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000486631	chr3:146237953:->chr3:146234954:-	5	11
7953	AXL	ORF2	chr19:41752043:+:Charlie1>chr19:41754419:+:ENST00000301178	chr19:41752043:+>chr19:41754419:+	4	11
7954	AXL	ORF2	chr19:41752043:+:Charlie1>chr19:41754419:+:ENST00000359092	chr19:41752043:+>chr19:41754419:+	4	11
7955	AXL	ORF2	chr19:41752043:+:Charlie1>chr19:41754419:+:ENST00000593513	chr19:41752043:+>chr19:41754419:+	4	11
7956	FGFR1	ORF1	chr8:38320623:-:AluJb>chr8:38315052:-:ENST00000425967	chr8:38320623:->chr8:38315052:-	8	11
7957	SLC38A6	ORF2	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000354886	chr14:61516792:+>chr14:61517230:+	4	11
7958	SLC38A6	ORF2	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000267488	chr14:61516792:+>chr14:61517230:+	4	11
7959	SLC38A6	ORF2	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000451406	chr14:61516792:+>chr14:61517230:+	4	11
7960	SLC38A6	ORF2	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000456840	chr14:61516792:+>chr14:61517230:+	4	11
7961	SLC38A6	ORF2	chr14:61516792:+:MIRc>chr14:61517230:+:ENST00000529212	chr14:61516792:+>chr14:61517230:+	4	11
7962	NKAIN2	ORF3	chr6:124669850:+:L1PA4>chr6:124676413:+:ENST00000368416	chr6:124669850:+>chr6:124676413:+	6	11
7963	NKAIN2	ORF3	chr6:124669850:+:L1PA4>chr6:124676413:+:ENST00000368417	chr6:124669850:+>chr6:124676413:+	6	11
7964	NKAIN2	ORF3	chr6:124669850:+:L1PA4>chr6:124676413:+:ENST00000546092	chr6:124669850:+>chr6:124676413:+	6	11
7965	NKAIN2	ORF3	chr6:124669850:+:L1PA4>chr6:124676413:+:ENST00000545433	chr6:124669850:+>chr6:124676413:+	6	11
7966	DAGLB	ORF2	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000297056	chr7:6485343:->chr7:6476164:-	7	11
7967	DAGLB	ORF2	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000425398	chr7:6485343:->chr7:6476164:-	7	11
7968	DAGLB	ORF2	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000436575	chr7:6485343:->chr7:6476164:-	7	11
7969	DAGLB	ORF2	chr7:6485343:-:AluSz>chr7:6476164:-:ENST00000432248	chr7:6485343:->chr7:6476164:-	7	11
7970	NKAIN3	ORF3	chr8:63315263:+:THE1C>chr8:63492098:+:ENST00000523211	chr8:63315263:+>chr8:63492098:+	7	11
7971	NKAIN3	ORF3	chr8:63315263:+:THE1C>chr8:63492098:+:ENST00000524201	chr8:63315263:+>chr8:63492098:+	7	11
7972	NKAIN3	ORF3	chr8:63315263:+:THE1C>chr8:63492098:+:ENST00000328472	chr8:63315263:+>chr8:63492098:+	7	11
7973	CDH1	ORF1	chr16:68769053:+:MIRb>chr16:68835573:+:ENST00000261769	chr16:68769053:+>chr16:68835573:+	8	11

Table 15

7974	CDH1	ORF1	chr16:68769053:+:MIRb>chr16:68835573:+:ENST00000566612	chr16:68769053:+>chr16:68835573:+	8	11
7975	CDH1	ORF1	chr16:68769053:+:MIRb>chr16:68835573:+:ENST00000422392	chr16:68769053:+>chr16:68835573:+	8	11
7976	CDH1	ORF1	chr16:68769053:+:MIRb>chr16:68835573:+:ENST00000566510	chr16:68769053:+>chr16:68835573:+	8	11
7977	CD82	ORF3	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000526958	chr11:44632201:+>chr11:44636822:+	10	11
7978	CD82	ORF3	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000227155	chr11:44632201:+>chr11:44636822:+	10	11
7979	CD82	ORF3	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000342935	chr11:44632201:+>chr11:44636822:+	10	11
7980	CD82	ORF3	chr11:44632201:+:MIRb>chr11:44636822:+:ENST00000530601	chr11:44632201:+>chr11:44636822:+	10	11
7981	CA12	ORF2	chr15:63668160:-:AluSp>chr15:63667877:-:ENST00000422263	chr15:63668160:->chr15:63667877:-	4	11
7982	VMP1	ORF2	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000262291	chr17:57905129:+>chr17:57915656:+	6	11
7983	VMP1	ORF2	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000537567	chr17:57905129:+>chr17:57915656:+	6	11
7984	VMP1	ORF2	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000539763	chr17:57905129:+>chr17:57915656:+	6	11
7985	VMP1	ORF2	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000536180	chr17:57905129:+>chr17:57915656:+	6	11
7986	VMP1	ORF2	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000545362	chr17:57905129:+>chr17:57915656:+	6	11
7987	VMP1	ORF2	chr17:57905129:+:AluJb>chr17:57915656:+:ENST00000591877	chr17:57905129:+>chr17:57915656:+	6	11
7988	CX3CR1	ORF2	chr3:39334283:-:MIR>chr3:39308009:-:ENST00000358309	chr3:39334283:->chr3:39308009:-	3	11
7989	STIM1	ORF3	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000525403	chr11:4050982:+>chr11:4076756:+	4	11
7990	STIM1	ORF3	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000300737	chr11:4050982:+>chr11:4076756:+	4	11
7991	STIM1	ORF3	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000527651	chr11:4050982:+>chr11:4076756:+	4	11
7992	STIM1	ORF3	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000532610	chr11:4050982:+>chr11:4076756:+	4	11
7993	STIM1	ORF3	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000532919	chr11:4050982:+>chr11:4076756:+	4	11
7994	STIM1	ORF3	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000530554	chr11:4050982:+>chr11:4076756:+	4	11
7995	STIM1	ORF3	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000525055	chr11:4050982:+>chr11:4076756:+	4	11
7996	STIM1	ORF3	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000528656	chr11:4050982:+>chr11:4076756:+	4	11
7997	STIM1	ORF3	chr11:4050982:+:MER6A>chr11:4076756:+:ENST00000532990	chr11:4050982:+>chr11:4076756:+	4	11
7998	EPCAM	ORF1	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000405271	chr2:47599545:+>chr2:47600602:+	7	11
7999	EPCAM	ORF1	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000456133	chr2:47599545:+>chr2:47600602:+	7	11
8000	EPCAM	ORF1	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000263735	chr2:47599545:+>chr2:47600602:+	7	11
8001	EPCAM	ORF1	chr2:47599545:+:AluSq10>chr2:47600602:+:ENST00000419334	chr2:47599545:+>chr2:47600602:+	7	11
8002	PKD1	ORF1	chr16:2142838:-:MER20>chr16:2142593:-:ENST00000262304	chr16:2142838:->chr16:2142593:-	9	10
8003	PKD1	ORF1	chr16:2142838:-:MER20>chr16:2142593:-:ENST00000423118	chr16:2142838:->chr16:2142593:-	9	10
8004	PKD1	ORF1	chr16:2142838:-:MER20>chr16:2142593:-:ENST00000562425	chr16:2142838:->chr16:2142593:-	9	10
8005	IFNGR1	ORF1	chr6:137536205:-:MIRb>chr6:137528214:-:ENST00000367739	chr6:137536205:->chr6:137528214:-	5	10
8006	IFNGR1	ORF1	chr6:137536205:-:MIRb>chr6:137528214:-:ENST00000543628	chr6:137536205:->chr6:137528214:-	5	10
8007	IFNGR1	ORF1	chr6:137536205:-:MIRb>chr6:137528214:-:ENST00000458076	chr6:137536205:->chr6:137528214:-	5	10
8008	IFNGR1	ORF1	chr6:137536205:-:MIRb>chr6:137528214:-:ENST00000367735	chr6:137536205:->chr6:137528214:-	5	10
8009	IFNGR1	ORF1	chr6:137536205:-:MIRb>chr6:137528214:-:ENST00000414770	chr6:137536205:->chr6:137528214:-	5	10
8010	CHRNA9	ORF1	chr4:40352049:+:MIRb>chr4:40355996:+:ENST00000310169	chr4:40352049:+>chr4:40355996:+	6	10
8011	VAMP8	ORF1	chr2:85804390:+:FLAM_C>chr2:85806132:+:ENST00000263864	chr2:85804390:+>chr2:85806132:+	6	10
8012	VAMP8	ORF1	chr2:85804390:+:FLAM_C>chr2:85806132:+:ENST00000409760	chr2:85804390:+>chr2:85806132:+	6	10
8013	LGR6	ORF3	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000367278	chr1:202205792:+>chr1:202245434:+	8	10
8014	LGR6	ORF3	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000255432	chr1:202205792:+>chr1:202245434:+	8	10
8015	LGR6	ORF3	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000487787	chr1:202205792:+>chr1:202245434:+	8	10
8016	LGR6	ORF3	chr1:202205792:+:L2b>chr1:202245434:+:ENST00000423542	chr1:202205792:+>chr1:202245434:+	8	10
8017	LPAR1	ORF1	chr9:113773828:-:L3>chr9:113704448:-:ENST00000374431	chr9:113773828:->chr9:113704448:-	6	10
8018	LPAR1	ORF1	chr9:113773828:-:L3>chr9:113704448:-:ENST00000541779	chr9:113773828:->chr9:113704448:-	6	10
8019	LPAR1	ORF1	chr9:113773828:-:L3>chr9:113704448:-:ENST00000374430	chr9:113773828:->chr9:113704448:-	6	10
8020	LPAR1	ORF1	chr9:113773828:-:L3>chr9:113704448:-:ENST00000358883	chr9:113773828:->chr9:113704448:-	6	10
8021	LPAR1	ORF1	chr9:113773828:-:L3>chr9:113704448:-:ENST00000538760	chr9:113773828:->chr9:113704448:-	6	10
8022	LPAR1	ORF1	chr9:113773828:-:L3>chr9:113704448:-:ENST00000441240	chr9:113773828:->chr9:113704448:-	6	10
8023	TREM1	ORF3	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000589614	chr6:41259171:->chr6:41250489:-	4	10
8024	TREM1	ORF3	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000244709	chr6:41259171:->chr6:41250489:-	4	10
8025	TREM1	ORF3	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000334475	chr6:41259171:->chr6:41250489:-	4	10
8026	TREM1	ORF3	chr6:41259171:-:MER41-int>chr6:41250489:-:ENST00000591620	chr6:41259171:->chr6:41250489:-	4	10
8027	GRIA1	ORF1	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000285900	chr5:153150672:+>chr5:153181916:+	4	10
8028	GRIA1	ORF1	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000518142	chr5:153150672:+>chr5:153181916:+	4	10
8029	GRIA1	ORF1	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000340592	chr5:153150672:+>chr5:153181916:+	4	10
8030	GRIA1	ORF1	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000521843	chr5:153150672:+>chr5:153181916:+	4	10
8031	GRIA1	ORF1	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000448073	chr5:153150672:+>chr5:153181916:+	4	10
8032	GRIA1	ORF1	chr5:153150672:+:MIRc>chr5:153181916:+:ENST00000518783	chr5:153150672:+>chr5:153181916:+	4	10
8033	TRDN	ORF1	chr6:123549550:-:THE1C>chr6:123545276:-:ENST00000398178	chr6:123549550:->chr6:123545276:-	7	10
8034	TRDN	ORF1	chr6:123549550:-:THE1C>chr6:123545276:-:ENST00000334268	chr6:123549550:->chr6:123545276:-	7	10
8035	PROM1	ORF1	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000503884	chr4:15980155:->chr4:15972705:-	5	10
8036	PROM1	ORF1	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000447510	chr4:15980155:->chr4:15972705:-	5	10
8037	PROM1	ORF1	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000539194	chr4:15980155:->chr4:15972705:-	5	10
8038	PROM1	ORF1	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000540805	chr4:15980155:->chr4:15972705:-	5	10
8039	PROM1	ORF1	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000505450	chr4:15980155:->chr4:15972705:-	5	10
8040	PROM1	ORF1	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000508167	chr4:15980155:->chr4:15972705:-	5	10
8041	PROM1	ORF1	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000510224	chr4:15980155:->chr4:15972705:-	5	10
8042	PROM1	ORF1	chr4:15980155:-:LTR87>chr4:15972705:-:ENST00000513946	chr4:15980155:->chr4:15972705:-	5	10
8043	CRIM1	ORF3	chr2:36744033:+:MIRb>chr2:36744470:+:ENST00000280527	chr2:36744033:+>chr2:36744470:+	9	10
8044	CRIM1	ORF3	chr2:36744033:+:MIRb>chr2:36744470:+:ENST00000413985	chr2:36744033:+>chr2:36744470:+	9	10
8045	VAMP8	ORF3	chr2:85803112:+:AluJo>chr2:85806132:+:ENST00000263864	chr2:85803112:+>chr2:85806132:+	6	10

Table 15

8046	VAMP8	ORF3	chr2:85803112:+:AluJo>chr2:85806132:+:ENST00000409760	chr2:85803112:+>chr2:85806132:+	6	10
8047	EGFR	ORF2	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000455089	chr7:55188387:+>chr7:55209979:+	4	10
8048	EGFR	ORF2	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000342916	chr7:55188387:+>chr7:55209979:+	4	10
8049	EGFR	ORF2	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000344576	chr7:55188387:+>chr7:55209979:+	4	10
8050	EGFR	ORF2	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000420316	chr7:55188387:+>chr7:55209979:+	4	10
8051	EGFR	ORF2	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000275493	chr7:55188387:+>chr7:55209979:+	4	10
8052	EGFR	ORF2	chr7:55188387:+:L2b>chr7:55209979:+:ENST00000442591	chr7:55188387:+>chr7:55209979:+	4	10
8053	GRID1	ORF1	chr10:87362906:-:MIRc>chr10:87362458:-:ENST00000327946	chr10:87362906:->chr10:87362458:-	5	9
8054	GRID1	ORF1	chr10:87362906:-:MIRc>chr10:87362458:-:ENST00000536331	chr10:87362906:->chr10:87362458:-	5	9
8055	ATP1A1	ORF3	chr1:116856424:+:AluJr4>chr1:116939290:+:ENST00000295598	chr1:116856424:+>chr1:116939290:+	6	9
8056	ATP1A1	ORF3	chr1:116856424:+:AluJr4>chr1:116939290:+:ENST00000537345	chr1:116856424:+>chr1:116939290:+	6	9
8057	ATP1A1	ORF3	chr1:116856424:+:AluJr4>chr1:116939290:+:ENST00000369496	chr1:116856424:+>chr1:116939290:+	6	9
8058	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000332149	chr21:42883790:->chr21:42861520:-	7	9
8059	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000398585	chr21:42883790:->chr21:42861520:-	7	9
8060	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000458356	chr21:42883790:->chr21:42861520:-	7	9
8061	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000454499	chr21:42883790:->chr21:42861520:-	7	9
8062	TMPRSS2	ORF1	chr21:42883790:-:ERVL-B4-int>chr21:42861520:-:ENST00000424093	chr21:42883790:->chr21:42861520:-	7	9
8063	LRIG2	ORF3	chr1:113646357:+:MER31-int>chr1:113650216:+:ENST00000361127	chr1:113646357:+>chr1:113650216:+	7	9
8064	SGCZ	ORF3	chr8:13965940:-:THE1A>chr8:13965744:-:ENST00000382080	chr8:13965940:->chr8:13965744:-	7	9
8065	SGCZ	ORF3	chr8:13965940:-:THE1A>chr8:13965744:-:ENST00000421524	chr8:13965940:->chr8:13965744:-	7	9
8066	PERP	ORF3	chr6:138424827:-:MER1A>chr6:138417631:-:ENST00000421351	chr6:138424827:->chr6:138417631:-	6	9
8067	CDCP1	ORF1	chr3:45180844:-:MIRb>chr3:45160113:-:ENST00000296129	chr3:45180844:->chr3:45160113:-	6	9
8068	CDCP1	ORF1	chr3:45180844:-:MIRb>chr3:45160113:-:ENST00000425231	chr3:45180844:->chr3:45160113:-	6	9
8069	CFTR	ORF1	chr7:117316035:+:MSTD>chr7:117355812:+:ENST00000600166	chr7:117316035:+>chr7:117355812:+	8	9
8070	CFTR	ORF1	chr7:117193207:+:MLT1A0>chr7:117355812:+:ENST00000600166	chr7:117193207:+>chr7:117355812:+	8	9
8071	AHCYL1	ORF3	chr1:110546029:+:L1MC4>chr1:110551656:+:ENST00000369799	chr1:110546029:+>chr1:110551656:+	4	9
8072	CD81	ORF1	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000263645	chr11:2411228:+>chr11:2411642:+	4	9
8073	CD81	ORF1	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000533417	chr11:2411228:+>chr11:2411642:+	4	9
8074	CD81	ORF1	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000527343	chr11:2411228:+>chr11:2411642:+	4	9
8075	CD81	ORF1	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000464784	chr11:2411228:+>chr11:2411642:+	4	9
8076	CD81	ORF1	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000493525	chr11:2411228:+>chr11:2411642:+	4	9
8077	CD81	ORF1	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000381036	chr11:2411228:+>chr11:2411642:+	4	9
8078	CD81	ORF1	chr11:2411228:+:MER53>chr11:2411642:+:ENST00000492252	chr11:2411228:+>chr11:2411642:+	4	9
8079	IFITM3	ORF1	chr11:324180:-:HERV3-int>chr11:320772:-:ENST00000399808	chr11:324180:->chr11:320772:-	3	9
8080	IFITM3	ORF3	chr11:323601:-:HERV3-int>chr11:320772:-:ENST00000399808	chr11:323601:->chr11:320772:-	3	9
8081	GGT1	ORF3	chr22:25020113:+:L2>chr22:25023399:+:ENST00000248923	chr22:25020113:+>chr22:25023399:+	4	9
8082	GGT1	ORF3	chr22:25020113:+:L2>chr22:25023399:+:ENST00000412658	chr22:25020113:+>chr22:25023399:+	4	9
8083	GGT1	ORF3	chr22:25020113:+:L2>chr22:25023399:+:ENST00000400382	chr22:25020113:+>chr22:25023399:+	4	9
8084	GGT1	ORF3	chr22:25020113:+:L2>chr22:25023399:+:ENST00000400383	chr22:25020113:+>chr22:25023399:+	4	9
8085	GGT1	ORF3	chr22:25020113:+:L2>chr22:25023399:+:ENST00000400380	chr22:25020113:+>chr22:25023399:+	4	9
8086	GGT1	ORF3	chr22:25020113:+:L2>chr22:25023399:+:ENST00000406383	chr22:25020113:+>chr22:25023399:+	4	9
8087	GGT1	ORF3	chr22:25020113:+:L2>chr22:25023399:+:ENST00000425895	chr22:25020113:+>chr22:25023399:+	4	9
8088	CDH19	ORF3	chr18:64181248:-:MIRb>chr18:64178922:-:ENST00000262150	chr18:64181248:->chr18:64178922:-	8	9
8089	CDH19	ORF3	chr18:64181248:-:MIRb>chr18:64178922:-:ENST00000579658	chr18:64181248:->chr18:64178922:-	8	9
8090	EPHB4	ORF1	chr7:100406098:-:AluJr>chr7:100405202:-:ENST00000360620	chr7:100406098:->chr7:100405202:-	7	8
8091	EPHB4	ORF1	chr7:100406098:-:AluJr>chr7:100405202:-:ENST00000358173	chr7:100406098:->chr7:100405202:-	7	8
8092	ANO10	ORF3	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000292246	chr3:43592944:->chr3:43591340:-	5	8
8093	ANO10	ORF3	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000350459	chr3:43592944:->chr3:43591340:-	5	8
8094	ANO10	ORF3	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000396091	chr3:43592944:->chr3:43591340:-	5	8
8095	ANO10	ORF3	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000414522	chr3:43592944:->chr3:43591340:-	5	8
8096	ANO10	ORF3	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000451430	chr3:43592944:->chr3:43591340:-	5	8
8097	ANO10	ORF3	chr3:43592944:-:L1ME1>chr3:43591340:-:ENST00000448045	chr3:43592944:->chr3:43591340:-	5	8
8098	PLSCR1	ORF2	chr3:146237953:-:MER105>chr3:146234954:-:ENST00000472349	chr3:146237953:->chr3:146234954:-	5	8
8099	CHRNA9	ORF2	chr4:40352049:+:MIRb>chr4:40355996:+:ENST00000310169	chr4:40352049:+>chr4:40355996:+	7	8
8100	FLVCR1	ORF2	chr1:213064523:+:AluSz>chr1:213068328:+:ENST00000366971	chr1:213064523:+>chr1:213068328:+	7	8
8101	FLVCR1	ORF2	chr1:213064523:+:AluSz>chr1:213068328:+:ENST00000419102	chr1:213064523:+>chr1:213068328:+	7	8
8102	SLCO3A1	ORF3	chr15:92016546:+:THE1D>chr15:92459223:+:ENST00000318445	chr15:92016546:+>chr15:92459223:+	7	8
8103	SLCO3A1	ORF3	chr15:92016546:+:THE1D>chr15:92459223:+:ENST00000424469	chr15:92016546:+>chr15:92459223:+	7	8
8104	SLCO3A1	ORF3	chr15:92016546:+:THE1D>chr15:92459223:+:ENST00000553304	chr15:92016546:+>chr15:92459223:+	7	8
8105	TRABD2A	ORF1	chr2:85053622:-:MIRc>chr2:85051328:-:ENST00000335459	chr2:85053622:->chr2:85051328:-	5	8
8106	TRABD2A	ORF1	chr2:85053622:-:MIRc>chr2:85051328:-:ENST00000409520	chr2:85053622:->chr2:85051328:-	5	8
8107	PERP	ORF3	chr6:138445951:-:L1PA14>chr6:138417631:-:ENST00000421351	chr6:138445951:->chr6:138417631:-	5	8
8108	CDH11	ORF3	chr16:64983489:-:AluSp>chr16:64982002:-:ENST00000394156	chr16:64983489:->chr16:64982002:-	6	8
8109	CDH11	ORF3	chr16:64983489:-:AluSp>chr16:64982002:-:ENST00000268603	chr16:64983489:->chr16:64982002:-	6	8
8110	CDH11	ORF3	chr16:64983489:-:AluSp>chr16:64982002:-:ENST00000566827	chr16:64983489:->chr16:64982002:-	6	8
8111	PLXDC1	ORF2	chr17:37233370:-:AluSz>chr17:37228738:-:ENST00000315392	chr17:37233370:->chr17:37228738:-	7	8
8112	PLXDC1	ORF2	chr17:37233370:-:AluSz>chr17:37228738:-:ENST00000444911	chr17:37233370:->chr17:37228738:-	7	8
8113	TNFSF10	ORF3	chr3:172225830:-:MIRb>chr3:172224709:-:ENST00000241261	chr3:172225830:->chr3:172224709:-	4	8
8114	TNFSF10	ORF3	chr3:172225830:-:MIRb>chr3:172224709:-:ENST00000420541	chr3:172225830:->chr3:172224709:-	4	8
8115	ANO10	ORF1	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000292246	chr3:43593686:->chr3:43591340:-	5	8
8116	ANO10	ORF1	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000350459	chr3:43593686:->chr3:43591340:-	5	8
8117	ANO10	ORF1	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000396091	chr3:43593686:->chr3:43591340:-	5	8

Table 15

8118	ANO10	ORF1	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000414522	chr3:43593686:->chr3:43591340:-	5	8
8119	ANO10	ORF1	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000451430	chr3:43593686:->chr3:43591340:-	5	8
8120	ANO10	ORF1	chr3:43593686:-:L1MDa>chr3:43591340:-:ENST00000448045	chr3:43593686:->chr3:43591340:-	5	8
8121	ZDHHC5	ORF1	chr11:57452387:+:AluSx1>chr11:57455980:+:ENST00000527985	chr11:57452387:+>chr11:57455980:+	7	8
8122	ZDHHC5	ORF1	chr11:57452387:+:AluSx1>chr11:57455980:+:ENST00000287169	chr11:57452387:+>chr11:57455980:+	7	8
8123	ZDHHC5	ORF1	chr11:57452387:+:AluSx1>chr11:57455980:+:ENST00000529447	chr11:57452387:+>chr11:57455980:+	7	8
8124	APP	ORF2	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000346798	chr21:27438253:->chr21:27425664:-	4	8
8125	APP	ORF2	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000354192	chr21:27438253:->chr21:27425664:-	4	8
8126	APP	ORF2	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000348990	chr21:27438253:->chr21:27425664:-	4	8
8127	APP	ORF2	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000357903	chr21:27438253:->chr21:27425664:-	4	8
8128	APP	ORF2	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000358918	chr21:27438253:->chr21:27425664:-	4	8
8129	APP	ORF2	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000359726	chr21:27438253:->chr21:27425664:-	4	8
8130	APP	ORF2	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000448388	chr21:27438253:->chr21:27425664:-	4	8
8131	APP	ORF2	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000440126	chr21:27438253:->chr21:27425664:-	4	8
8132	APP	ORF2	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000439274	chr21:27438253:->chr21:27425664:-	4	8
8133	APP	ORF2	chr21:27438253:-:MER5A>chr21:27425664:-:ENST00000448850	chr21:27438253:->chr21:27425664:-	4	8
8134	BMPR1B	ORF1	chr4:95986245:+:L1MB8>chr4:96025559:+:ENST00000440890	chr4:95986245:+>chr4:96025559:+	3	7
8135	DSC2	ORF3	chr18:28666115:-:L2>chr18:28663026:-:ENST00000251081	chr18:28666115:->chr18:28663026:-	5	7
8136	DSC2	ORF3	chr18:28666115:-:L2>chr18:28663026:-:ENST00000280904	chr18:28666115:->chr18:28663026:-	5	7
8137	NPR2	ORF1	chr9:35790337:+:L2c>chr9:35799615:+:ENST00000342694	chr9:35790337:+>chr9:35799615:+	3	7
8138	ADAM22	ORF1	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000398204	chr7:87600690:+>chr7:87607651:+	3	7
8139	ADAM22	ORF1	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000439864	chr7:87600690:+>chr7:87607651:+	3	7
8140	ADAM22	ORF1	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000412441	chr7:87600690:+>chr7:87607651:+	3	7
8141	ADAM22	ORF1	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000398201	chr7:87600690:+>chr7:87607651:+	3	7
8142	ADAM22	ORF1	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000265727	chr7:87600690:+>chr7:87607651:+	3	7
8143	ADAM22	ORF1	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000315984	chr7:87600690:+>chr7:87607651:+	3	7
8144	ADAM22	ORF1	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000398209	chr7:87600690:+>chr7:87607651:+	3	7
8145	ADAM22	ORF1	chr7:87600690:+:MIR3>chr7:87607651:+:ENST00000398203	chr7:87600690:+>chr7:87607651:+	3	7
8146	UNC5B	ORF3	chr10:73034272:+:L3>chr10:73039578:+:ENST00000335350	chr10:73034272:+>chr10:73039578:+	5	7
8147	UNC5B	ORF3	chr10:73034272:+:L3>chr10:73039578:+:ENST00000373192	chr10:73034272:+>chr10:73039578:+	5	7
8148	VAMP8	ORF2	chr2:85807766:+:MER115>chr2:85808699:+:ENST00000409760	chr2:85807766:+>chr2:85808699:+	6	7
8149	ACSL5	ORF1	chr10:114154577:+:(TG)n>chr10:114154676:+:ENST00000356116	chr10:114154577:+>chr10:114154676:+	6	7
8150	ABCC1	ORF2	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000399410	chr16:16233287:+>chr16:16235030:+	6	7
8151	ABCC1	ORF2	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000345148	chr16:16233287:+>chr16:16235030:+	6	7
8152	ABCC1	ORF2	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000346370	chr16:16233287:+>chr16:16235030:+	6	7
8153	ABCC1	ORF2	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000349029	chr16:16233287:+>chr16:16235030:+	6	7
8154	ABCC1	ORF2	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000351154	chr16:16233287:+>chr16:16235030:+	6	7
8155	ABCC1	ORF2	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000399408	chr16:16233287:+>chr16:16235030:+	6	7
8156	ABCC1	ORF2	chr16:16233287:+:AluSx>chr16:16235030:+:ENST00000572882	chr16:16233287:+>chr16:16235030:+	6	7
8157	FLOT1	ORF2	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000376389	chr6:30708853:->chr6:30708575:-	3	6
8158	FLOT1	ORF2	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000456573	chr6:30708853:->chr6:30708575:-	3	6
8159	FLOT1	ORF2	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000413165	chr6:30708853:->chr6:30708575:-	3	6
8160	FLOT1	ORF2	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000438162	chr6:30708853:->chr6:30708575:-	3	6
8161	FLOT1	ORF2	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000445853	chr6:30708853:->chr6:30708575:-	3	6
8162	FLOT1	ORF2	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000416018	chr6:30708853:->chr6:30708575:-	3	6
8163	FLOT1	ORF2	chr6:30708853:-:AluSx1>chr6:30708575:-:ENST00000454845	chr6:30708853:->chr6:30708575:-	3	6
8164	FOLH1	ORF1	chr11:49184098:-:L1PA10>chr11:49179595:-:ENST00000256999	chr11:49184098:->chr11:49179595:-	5	6
8165	FOLH1	ORF1	chr11:49184098:-:L1PA10>chr11:49179595:-:ENST00000356696	chr11:49184098:->chr11:49179595:-	5	6
8166	FOLH1	ORF1	chr11:49184098:-:L1PA10>chr11:49179595:-:ENST00000343844	chr11:49184098:->chr11:49179595:-	5	6
8167	FOLH1	ORF1	chr11:49184098:-:L1PA10>chr11:49179595:-:ENST00000340334	chr11:49184098:->chr11:49179595:-	5	6
8168	FOLH1	ORF1	chr11:49184098:-:L1PA10>chr11:49179595:-:ENST00000533034	chr11:49184098:->chr11:49179595:-	5	6
8169	SLCO3A1	ORF2	chr15:92396760:+:G-rich>chr15:92459223:+:ENST00000318445	chr15:92396760:+>chr15:92459223:+	5	6
8170	SLCO3A1	ORF2	chr15:92396760:+:G-rich>chr15:92459223:+:ENST00000424469	chr15:92396760:+>chr15:92459223:+	5	6
8171	SLCO3A1	ORF2	chr15:92396760:+:G-rich>chr15:92459223:+:ENST00000553304	chr15:92396760:+>chr15:92459223:+	5	6
8172	ADAM9	ORF3	chr8:38946750:+:AluSx3>chr8:38947566:+:ENST00000379917	chr8:38946750:+>chr8:38947566:+	4	6
8173	ADAM9	ORF3	chr8:38946750:+:AluSx3>chr8:38947566:+:ENST00000468065	chr8:38946750:+>chr8:38947566:+	4	6
8174	GPM6B	ORF2	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000316715	chrX:13921670:->chrX:13803927:-	3	6
8175	GPM6B	ORF2	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000454189	chrX:13921670:->chrX:13803927:-	3	6
8176	GPM6B	ORF2	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000493677	chrX:13921670:->chrX:13803927:-	3	6
8177	GPM6B	ORF2	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000355135	chrX:13921670:->chrX:13803927:-	3	6
8178	GPM6B	ORF2	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000356942	chrX:13921670:->chrX:13803927:-	3	6
8179	GPM6B	ORF2	chrX:13921670:-:MIRb>chrX:13803927:-:ENST00000475307	chrX:13921670:->chrX:13803927:-	3	6
8180	CFTR	ORF1	chr7:117318113:+:MER5B>chr7:117355812:+:ENST00000600166	chr7:117318113:+>chr7:117355812:+	5	6
8181	GPR39	ORF3	chr2:133363763:+:MIRb>chr2:133402674:+:ENST00000329321	chr2:133363763:+>chr2:133402674:+	5	6
8182	CLSTN1	ORF3	chr1:9850120:-:L1MC5>chr1:9833452:-:ENST00000377298	chr1:9850120:->chr1:9833452:-	5	6
8183	CLSTN1	ORF3	chr1:9850120:-:L1MC5>chr1:9833452:-:ENST00000361311	chr1:9850120:->chr1:9833452:-	5	6
8184	CLSTN1	ORF3	chr1:9850120:-:L1MC5>chr1:9833452:-:ENST00000377288	chr1:9850120:->chr1:9833452:-	5	6
8185	NRG4	ORF1	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000472094	chr15:76298078:->chr15:76261565:-	3	5
8186	NRG4	ORF1	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000568073	chr15:76298078:->chr15:76261565:-	3	5
8187	NRG4	ORF1	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000562114	chr15:76298078:->chr15:76261565:-	3	5
8188	NRG4	ORF1	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000567936	chr15:76298078:->chr15:76261565:-	3	5
8189	NRG4	ORF1	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000498750	chr15:76298078:->chr15:76261565:-	3	5

Table 15

8190	NRG4	ORF1	chr15:76298078:-:Tigger2>chr15:76261565:-:ENST00000567126	chr15:76298078:->chr15:76261565:-	3	5
8191	SLC39A11	ORF1	chr17:70713885:-:MLT1C>chr17:70709120:-:ENST00000581581	chr17:70713885:->chr17:70709120:-	3	5
8192	CA12	ORF2	chr15:63650004:-:L1MB5>chr15:63638908:-:ENST00000178638	chr15:63650004:->chr15:63638908:-	3	5
8193	CA12	ORF2	chr15:63650004:-:L1MB5>chr15:63638908:-:ENST00000344366	chr15:63650004:->chr15:63638908:-	3	5
8194	TFRC	ORF3	chr3:195797990:-:L2a>chr3:195796439:-:ENST00000420415	chr3:195797990:->chr3:195796439:-	3	4
8195	TFRC	ORF3	chr3:195797990:-:L2a>chr3:195796439:-:ENST00000360110	chr3:195797990:->chr3:195796439:-	3	4
8196	TFRC	ORF3	chr3:195797990:-:L2a>chr3:195796439:-:ENST00000392396	chr3:195797990:->chr3:195796439:-	3	4
8197	CFTR	ORF1	chr7:117326829:+:MSTD>chr7:117355812:+:ENST00000600166	chr7:117326829:+>chr7:117355812:+	3	4
8198	CD164	ORF1	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000413644	chr6:109692741:->chr6:109691670:-	3	4
8199	CD164	ORF1	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000275080	chr6:109692741:->chr6:109691670:-	3	4
8200	CD164	ORF1	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000310786	chr6:109692741:->chr6:109691670:-	3	4
8201	CD164	ORF1	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000512821	chr6:109692741:->chr6:109691670:-	3	4
8202	CD164	ORF1	chr6:109692741:-:AluSz>chr6:109691670:-:ENST00000504373	chr6:109692741:->chr6:109691670:-	3	4

1	2	3	4	5	6	7	8	9	10	11	12
chr1:154744451:->chr1:154709564:-	metafusion_1,metafusion_2,metafusion_3,metafusion_4,metafusion_5,metafusion_6,metafusion_7,metafusion_8,metafusion_9	chr1	154744451,154744451,154744451	154744451	ENST00000271915,ENST00000361147,ENST00000358505	-	chr1	154709564	154709585	-	TCGA-STAD,TCGA-STAD,TCGA-STAD,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-DLBC,CCLE-DLBC
chr1:53607987:->chr1:53602159:-	metafusion_10,metafusion_11	chr1	53607987,54	53607987	ENST00000371494,ENST00000371491	-	chr1	53602159	53602164	-	TCGA-LGG,TCGA-LGG
chr11:428166:->chr11:424187:-	metafusion_12,metafusion_13,metafusion_14,metafusion_15	chr11	428088	428166	ENST00000332826	-	chr11	424187	424193	-	CCLE-COAD,CCLE-LCML,CCLE-OV,CCLE-STAD
chr11:49186257:->chr11:49184464:-	metafusion_16,metafusion_17,metafusion_18,metafusion_19,metafusion_20,metafusion_21,metafusion_22,metafusion_23,metafusion_24,metafusion_25	chr11	49186257,49186257,49186257,49186257,49186257	49186257	ENST00000256999,ENST00000356696,ENST00000343844,ENST00000340334,ENST00000533034	-	chr11	49184464	49185698	-	TCGA-PRAD,TCGA-PRAD,TCGA-PRAD,TCGA-PRAD,TCGA-PRAD,CCLE-PRAD,CCLE-PRAD,CCLE-PRAD,CCLE-PRAD
chr11:57191455:->chr11:57191196:-	metafusion_26,metafusion_27,metafusion_28,metafusion_29,metafusion_30,metafusion_31,metafusion_32,metafusion_33,metafusion_34,metafusion_35,metafusion_36,metafusion_37,metafusion_38,metafusion_39,metafusion_40,metafusion_41,metafusion_42,metafusion_43,metafusion_44,metafusion_45,metafusion_46,metafusion_47,metafusion_48,metafusion_49,metafusion_50,metafusion_51,metafusion_52,metafusion_53,metafusion_54,metafusion_55,metafusion_56,metafusion_57,metafusion_58,metafusion_59,metafusion_60,metafusion_61,metafusion_62,metafusion_63,metafusion_64,metafusion_65,metafusion_66,metafusion_67,metafusion_68,metafusion_69,metafusion_70,metafusion_71,metafusion_72,metafusion_73,metafusion_74,metafusion_75,metafusion_76,metafusion_77,metafusion_78,metafusion_79,metafusion_80,metafusion_81,metafusion_82,metafusion_83,metafusion_84,metafusion_85,metafusion_86,metafusion_87,metafusion_88,metafusion_89,metafusion_90,metafusion_91,metafusion_92,metafusion_93,metafusion_94,metafusion_95,metafusion_96,metafusion_97,metafusion_98,metafusion_99,metafusion_100,metafusion_101,metafusion_102,metafusion_103,metafusion_104,metafusion_105,metafusion_106,metafusion_107,metafusion_108,metafusion_109,metafusion_110,metafusion_111,metafusion_112,metafusion_113,metafusion_114,metafusion_115,metafusion_116,metafusion_117,metafusion_118,metafusion_119,metafusion_120,metafusion_121,metafusion_122,metafusion_123,metafusion_124,metafusion_125,metafusion_126,metafusion_127,metafusion_128,metafusion_129,metafusion_130,metafusion_131,metafusio	chr11	57191455,57191455,57191455,57191455,57191455,57191455,57191455,57191455,57191455	57191455	ENST00000395123,ENST00000395124,ENST00000352187,ENST00000529554,ENST00000533524,ENST00000530005,ENST00000529113,ENST00000525474,ENST00000529112,ENST00000528187	-	chr11	57191196	57191202	-	CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LIHC,CCLE-
chr12:21427403:->chr12:21426319:-	metafusion_143,metafusion_144,metafusion_145,metafusion_146,metafusion_147,metafusion_148,metafusion_149,metafusion_150	chr12	21427403,21427403,21427403,21427403	21427403	ENST00000307378,ENST00000452078,ENST00000458504,ENST00000537524	-	chr12	21426319	21426370	-	TCGA-TGCT,TCGA-TGCT,TCGA-TGCT,TCGA-TGCT,CCLE-OV,CCLE-OV,CCLE-OV,CCLE-OV
chr12:46760647:->chr12:46760246:-	metafusion_151,metafusion_152,metafusion_153,metafusion_154	chr12	46760647	46760647	ENST00000256689	-	chr12	46760246	46760249	-	CCLE-BLCA,CCLE-CLL,CCLE-LUSC,CCLE-SARC
chr12:58023935:->chr12:58023079:-	metafusion_155,metafusion_156,metafusion_157,metafusion_158,metafusion_159,metafusion_160,metafusion_161,metafusion_162,metafusion_163,metafusion_164,metafusion_165,metafusion_166,metafusion_167,metafusion_168,metafusion_169,metafusion_170,metafusion_171,metafusion_172,metafusion_173,metafusion_174,metafusion_175,metafusion_176,metafusion_177,metafusion_178,metafusion_179,metafusion_180,metafusion_181,metafusion_182,metafusion_183,metafusion_184,metafusion_185,metafusion_186,metafusion_187,metafusion_188,metafusion_189,metafusion_190,metafusion_191,metafusion_192,metafusion_193,metafusion_194,metafusion_195,metafusion_196,metafusion_197,metafusion_198,metafusion_199,metafusion_200,metafusion_201,metafusion_202,metafusion_203,metafusion_204,metafusion_205,metafusion_206,metafusion_207,metafusion_208,metafusion_209,metafusion_210,metafusion_211,metafusion_212,metafusion_213,metafusion_214,metafusion_215,metafusion_216,metafusion_217,metafusion_218,metafusion_219,metafusion_220,metafusion_221,metafusion_222,metafusion_223,metafusion_224,metafusion_225,metafusion_226,metafusion_227,metafusion_228,metafusion_229,metafusion_230,metafusion_231,metafusion_232,metafusion_233,metafusion_234,metafusion_235,metafusion_236,metafusion_237,metafusion_238,metafusion_239,metafusion_240,metafusion_241,metafusion_242,metafusion_243,metafusion_244,metafusion_245,metafusion_246,metafusion_247,metafusion_248,metafusion_249,metafusion_250,metafusion_251,metafusion_252,metafusion_253,metafusion_254,metafusion_2	chr12	58023935,58023935,58023935,58023935,58023660,58023660,58023935	58023935	ENST00000341156,ENST00000418555,ENST00000552798,ENST00000549391,ENST00000449184,ENST00000550764,ENST00000552350,ENST00000548888	-	chr12	58023079	58023123	-	TCGA-GBM,TCGA-GBM,CCLE-LUAD,CCLE-LUAD,CCLE-OV,CCLE-OV,CCLE-SARC,CCLE-SARC,TCGA-BRCA,TCGA-BRCA,TCGA-BRCA,TCGA-ESCA,TCGA-ESCA,TCGA-ESCA,TCGA-GBM,TCGA-GBM,TCGA-GBM,TCGA-HNSC,TCGA-HNSC,TCGA-HNSC,TCGA-KIRC,TCGA-KIRC,TCGA-KIRC,TCGA-LGG,TCGA-LGG,TCGA-LGG,TCGA-LUSC,TCGA-LUSC,TCGA-LUSC,TCGA-SARC,TCGA-SARC,TCGA-SARC,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-GBM,CCLE-GBM,CCLE-GBM,CCLE-HNSC,CCLE-HNSC,CCLE-HNSC,CCLE-KIRC,CCLE-KIRC,CCLE-KIRC,CCLE-LAML,CCLE-LAML,CCLE-

chr12:63963004:->chr12:63961479:-	metafusion_375,metafusion_376,metafusion_377,metafusion_378,metafusion_379,metafusion_380,metafusion_381,metafusion_382,metafusion_383,metafusion_384,metafusion_385,metafusion_386,metafusion_387,metafusion_388,metafusion_389,metafusion_390,metafusion_391,metafusion_392,metafusion_393,metafusion_394,metafusion_395,metafusion_396,metafusion_397,metafusion_398,metafusion_399,metafusion_400,metafusion_401,metafusion_402,metafusion_403,metafusion_404,metafusion_405,metafusion_406,metafusion_407,metafusion_408,metafusion_409,metafusion_410,metafusion_411,metafusion_412,metafusion_413,metafusion_414,metafusion_415,metafusion_416,metafusion_417,metafusion_418,metafusion_419,metafusion_420,metafusion_421,metafusion_422,metafusion_423,metafusion_424,metafusion_425,metafusion_426,metafusion_427,metafusion_428,metafusion_429,metafusion_430,metafusion_431,metafusion_432,metafusion_433,metafusion_434,metafusion_435,metafusion_436,metafusion_437,metafusion_438,metafusion_439,metafusion_440,metafusion_441,metafusion_442,metafusion_443,metafusion_444,metafusion_445,metafusion_446,metafusion_447,metafusion_448,metafusion_449,metafusion_450,metafusion_451,metafusion_452,metafusion_453,metafusion_454	chr12	63963004,64	63963004	ENST00000324472,ENST00000413230	-	chr12	63961479	63962410	-	TCGA-ACC,TCGA-ACC,TCGA-BLCA,TCGA-BLCA,TCGA-BRCA,TCGA-BRCA,TCGA-CESC,TCGA-CESC,TCGA-ESCA,TCGA-ESCA,TCGA-GBM,TCGA-GBM,TCGA-KICH,TCGA-KICH,TCGA-KIRC,TCGA-KIRC,TCGA-KIRP,TCGA-KIRP,TCGA-LGG,TCGA-LGG,TCGA-LUSC,TCGA-LUSC,TCGA-PAAD,TCGA-PAAD,TCGA-PCPG,TCGA-PCPG,TCGA-PRAD,TCGA-PRAD,TCGA-SARC,TCGA-SARC,TCGA-SKCM,TCGA-SKCM,TCGA-TGCT,TCGA-TGCT,TCGA-THCA,TCGA-THCA,TCGA-THYM,TCGA-THYM,TCGA-UCEC,TCGA-UCEC,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-CLL,CCLE-CLL,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-GBM,CCLE-GBM,CCLE-KIRC,CCLE-KIRC,CCLE-LAML,CCLE-
chr12:63964538:->chr12:63961479:-	metafusion_455,metafusion_456,metafusion_457,metafusion_458	chr12	63964538,64	63964538	ENST00000324472,ENST00000413230	-	chr12	63961479	63962410	-	TCGA-PCPG,TCGA-PCPG,TCGA-THYM,TCGA-THYM
chr13:39952565:->chr13:39925574:-	metafusion_459	chr13	39952565	39952565	ENST00000379589	-	chr13	39925574	39925582	-	TCGA-KIRC
chr15:74476197:->chr15:74475850:-	metafusion_460,metafusion_461,metafusion_462,metafusion_463,metafusion_464,metafusion_465,metafusion_466,metafusion_467,metafusion_468,metafusion_469,metafusion_470,metafusion_471,metafusion_472,metafusion_473,metafusion_474,metafusion_475,metafusion_476,metafusion_477,metafusion_478,metafusion_479,metafusion_480,metafusion_481,metafusion_482,metafusion_483	chr15	74476197,74476197,74476197,74476197,74476197,74476197,74476197,74476197,74476193	74476197	ENST00000395105,ENST00000423167,ENST00000323940,ENST00000449139,ENST00000416286,ENST00000535552,ENST00000563965,ENST00000574278,ENST00000569936	-	chr15	74475850	74475884	-	CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM
chr16:47196451:->chr16:47196042:-	metafusion_484,metafusion_485,metafusion_486,metafusion_487,metafusion_488,metafusion_489,metafusion_490,metafusion_491,metafusion_492,metafusion_493,metafusion_494,metafusion_495,metafusion_496,metafusion_497,metafusion_498,metafusion_499,metafusion_500,metafusion_501,metafusion_502,metafusion_503,metafusion_504	chr16	47196451,47196451,47196451	47196451	ENST00000320640,ENST00000544001,ENST00000565262	-	chr16	47196042	47196087	-	TCGA-BRCA,TCGA-BRCA,TCGA-BRCA,TCGA-GBM,TCGA-GBM,TCGA-GBM,TCGA-LGG,TCGA-LGG,TCGA-LGG,TCGA-LUAD,TCGA-LUAD,TCGA-LUAD,TCGA-OV,TCGA-OV,TCGA-OV,TCGA-STAD,TCGA-STAD,TCGA-STAD,TCGA-THCA,TCGA-THCA,TCGA-THCA
chr17:19605918:->chr17:19600213:-	metafusion_505,metafusion_506,metafusion_507,metafusion_508,metafusion_509,metafusion_510	chr17	19605918,2	19605918	ENST00000325411,ENST00000350657	-	chr17	19600213	19600322	-	TCGA-KIRP,TCGA-KIRP,CCLE-ESCA,CCLE-ESCA,CCLE-LUSC,CCLE-LUSC
chr17:67077207:->chr17:67076168:-	metafusion_511	chr17	67077207	67077207	ENST00000284425	-	chr17	67076168	67076304	-	TCGA-LGG
chr17:67293332:->chr17:67291512:-	metafusion_512,metafusion_513,metafusion_514,metafusion_515,metafusion_516	chr17	67293332,67293332,67293332,67293332,67293332	67293332	ENST00000392676,ENST00000392677,ENST00000588877,ENST00000586995,ENST00000593153	-	chr17	67291512	67292074	-	CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD
chr17:67309233:->chr17:67306575:-	metafusion_517,metafusion_518,metafusion_519,metafusion_520,metafusion_521,metafusion_522,metafusion_523,metafusion_524,metafusion_525,metafusion_526,metafusion_527,metafusion_528,metafusion_529,metafusion_530,metafusion_531,metafusion_532,metafusion_533,metafusion_534,metafusion_535,metafusion_536,metafusion_537,metafusion_538,metafusion_539,metafusion_540,metafusion_541,metafusion_542,metafusion_543,metafusion_544	chr17	67309233,67309233,67309233,67309233,67309233,67309233,67309233	67309233	ENST00000392676,ENST00000392677,ENST00000588877,ENST00000593153,ENST00000593253,ENST00000587607,ENST00000592568	-	chr17	67306575	67306578	-	CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC

chr17:70732789:->chr17:70670711:-	metafusion_545,metafusion_546,metafusion_547,metafusion_548,metafusion_549,metafusion_550,metafusion_551,metafusion_552,metafusion_553,metafusion_554,metafusion_555,metafusion_556,metafusion_557,metafusion_558,metafusion_559,metafusion_560,metafusion_561,metafusion_562,metafusion_563,metafusion_564,metafusion_565,metafusion_566,metafusion_567,metafusion_568,metafusion_569,metafusion_570,metafusion_571,metafusion_572,metafusion_573,metafusion_574,metafusion_575,metafusion_576,metafusion_577,metafusion_578,metafusion_579,metafusion_580,metafusion_581,metafusion_582,metafusion_583,metafusion_584,metafusion_585,metafusion_586,metafusion_587,metafusion_588,metafusion_589,metafusion_590,metafusion_591,metafusion_592,metafusion_593,metafusion_594,metafusion_595,metafusion_596,metafusion_597,metafusion_598	chr17	70732789,70732789,70732789,70732789	70732789	ENST00000255559,ENST00000542342,ENST00000582769,ENST00000581581	-	chr17	70670711	70671026	-	TCGA-BLCA,TCGA-BLCA,TCGA-BRCA,TCGA-BRCA,TCGA-KIRC,TCGA-KIRC,TCGA-STAD,TCGA-STAD,TCGA-STAD,TCGA-THCA,TCGA-THCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-GBM,CCLE-GBM,CCLE-GBM,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LCML,CCLE-LCML,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-OV,CCLE-OV,CCLE-OV,CCLE-PAAD,CCLE-PAAD,CCLE-PAAD,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-STAD,CCLE-STAD,CCLE-STAD
chr2:114508002:->chr2:114506009:-	metafusion_599,metafusion_600,metafusion_601	chr2	114508002,114508002,114508002	114508002	ENST00000245680,ENST00000409106,ENST00000409342	-	chr2	114506009	114506043	-	CCLE-LUAD,CCLE-LUAD,CCLE-LUAD
chr2:230377499:->chr2:230370969:-	metafusion_602,metafusion_603,metafusion_604,metafusion_605,metafusion_606,metafusion_607,metafusion_608,metafusion_609,metafusion_610,metafusion_611,metafusion_612,metafusion_613,metafusion_614,metafusion_615,metafusion_616,metafusion_617,metafusion_618,metafusion_619,metafusion_620	chr2	230377499	230377499	ENST00000341772	-	chr2	230370969	230371170	-	TCGA-ACC,TCGA-GBM,TCGA-KIRC,TCGA-LGG,CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-GBM,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-LUAD,CCLE-OV,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr2:230411663:->chr2:230409543:-	metafusion_621,metafusion_622,metafusion_623,metafusion_624,metafusion_625,metafusion_626,metafusion_627,metafusion_628,metafusion_629,metafusion_630,metafusion_631,metafusion_632,metafusion_633,metafusion_634,metafusion_635,metafusion_636,metafusion_637,metafusion_638,metafusion_639,metafusion_640	chr2	230411663	230411663	ENST00000341772	-	chr2	230409543	230409549	-	TCGA-GBM,TCGA-STAD,CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-GBM,CCLE-HNSC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-LUAD,CCLE-MESO,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr2:25057354:->chr2:25056695:-	metafusion_641,metafusion_642,metafusion_643,metafusion_644,metafusion_645,metafusion_646,metafusion_647,metafusion_648,metafusion_649,metafusion_650,metafusion_651,metafusion_652,metafusion_653,metafusion_654,metafusion_655,metafusion_656,metafusion_657,metafusion_658,metafusion_659,metafusion_660,metafusion_661,metafusion_662,metafusion_663,metafusion_664,metafusion_665,metafusion_666,metafusion_667,metafusion_668,metafusion_669,metafusion_670,metafusion_671,metafusion_672,metafusion_673,metafusion_674,metafusion_675,metafusion_676,metafusion_677,metafusion_678,metafusion_679	chr2	25057354,25057354,25057354	25057354	ENST00000260600,ENST00000405392,ENST00000606682	-	chr2	25056695	25056754	-	CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-CLL,CCLE-CLL,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-HNSC,CCLE-HNSC,CCLE-HNSC,CCLE-LAML,CCLE-LAML,CCLE-PAAD,CCLE-PAAD,CCLE-PAAD,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-STAD,CCLE-STAD,CCLE-STAD,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC
chr2:25141182:->chr2:25112387:-	metafusion_680,metafusion_681,metafusion_682	chr2	25141182,25	25141182	ENST00000260600,ENST00000435135	-	chr2	25112387	25112419	-	CCLE-DLBC,CCLE-MESO,CCLE-THCA
chr22:46929524:->chr22:46887096:-	metafusion_683,metafusion_684,metafusion_685	chr22	46929524,46929524,46929524	46929524	ENST00000262738,ENST00000395964,ENST00000454637	-	chr22	46887096	46887130	-	CCLE-ESCA,CCLE-ESCA,CCLE-ESCA

chr3:124839443:->chr3:124838735:-	metafusion_686,metafusion_687,metafusion_688,metafusion_689,metafusion_690,metafusion_691,metafusion_692,metafusion_693,metafusion_694,metafusion_695,metafusion_696,metafusion_697,metafusion_698,metafusion_699,metafusion_700,metafusion_701,metafusion_702,metafusion_703,metafusion_704,metafusion_705,metafusion_706,metafusion_707,metafusion_708,metafusion_709,metafusion_710,metafusion_711,metafusion_712,metafusion_713,metafusion_714,metafusion_715,metafusion_716,metafusion_717,metafusion_718,metafusion_719,metafusion_720,metafusion_721,metafusion_722,metafusion_723,metafusion_724,metafusion_725,metafusion_726,metafusion_727,metafusion_728,metafusion_729,metafusion_730,metafusion_731,metafusion_732,metafusion_733,metafusion_734,metafusion_735,metafusion_736,metafusion_737,metafusion_738,metafusion_739,metafusion_740,metafusion_741,metafusion_742,metafusion_743,metafusion_744,metafusion_745,metafusion_746,metafusion_747,metafusion_748,metafusion_749,metafusion_750,metafusion_751,metafusion_752,metafusion_753,metafusion_754,metafusion_755,metafusion_756,metafusion_757,metafusion_758,metafusion_759,metafusion_760,metafusion_761,metafusion_762,metafusion_763,metafusion_764,metafusion_765,metafusion_766,metafusion_767,metafusion_768,metafusion_769,metafusion_770,metafusion_771,metafusion_772,metafusion_773,metafusion_774,metafusion_775,metafusion_776,metafusion_777,metafusion_778,metafusion_779,metafusion_780,metafusion_781,metafusion_782,metafusion_783,metafusion_784,metafusion_785,metafusion_7	chr3	124839443,124839443,124839443,124839443,124839443,124839443	124839443	ENST00000430155,ENST00000393469,ENST00000423114,ENST00000469902,ENST00000314584,ENST00000479826	-	chr3	124838735	124838831	-	TCGA-ESCA,TCGA-ESCA,TCGA-ESCA,TCGA-ESCA,TCGA-ESCA,TCGA-LUSC,TCGA-LUSC,TCGA-LUSC,TCGA-LUSC,TCGA-MESO,TCGA-MESO,TCGA-MESO,TCGA-MESO,TCGA-MESO,TCGA-STAD,TCGA-STAD,TCGA-STAD,TCGA-STAD,TCGA-STAD,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-ESCA,CCLE-
chr3:128363762:->chr3:128359896:-	metafusion_824,metafusion_825	chr3	128363762,1	128363762	ENST00000296255,ENST00000476931	-	chr3	128359896	128359904	-	CCLE-ESCA,CCLE-UCEC
chr3:130678185:+>chr3:130680470:+	metafusion_826,metafusion_827,metafusion_828,metafusion_829,metafusion_830,metafusion_831,metafusion_832,metafusion_833,metafusion_834,metafusion_835,metafusion_836,metafusion_837,metafusion_838,metafusion_839,metafusion_840	chr3	130678119,130678119,130678119,130678119,130678119,130678119,130678119,130678119,130678119,130678119,130678119,130678119,130678119,130678119,130678119,130678119	130678185	ENST00000505330,ENST00000504381,ENST00000507488,ENST00000393221,ENST00000533801,ENST00000510168,ENST00000508532,ENST00000504948,ENST00000513801,ENST00000328560,ENST00000428331,ENST00000359644,ENST00000422190,ENST00000504612,ENST00000515854	+	chr3	130680470	130681546	+	CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM
chr3:43591212:->chr3:43498923:-	metafusion_841,metafusion_842,metafusion_843,metafusion_844,metafusion_845,metafusion_846,metafusion_847,metafusion_848,metafusion_849,metafusion_850,metafusion_851,metafusion_852,metafusion_853,metafusion_854,metafusion_855	chr3	43591212,43591212,43591212,43591212,43591212,43591212	43591212	ENST00000292246,ENST00000350459,ENST00000396091,ENST00000414522,ENST00000451430,ENST00000448045	-	chr3	43498923	43499158	-	CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC
chr4:154669797:->chr4:154666879:-	metafusion_856,metafusion_857,metafusion_858,metafusion_859,metafusion_860,metafusion_861,metafusion_862,metafusion_863,metafusion_864	chr4	154669797,154669797,154669797	154669797	ENST00000347063,ENST00000274068,ENST00000503694	-	chr4	154666879	154667103	-	CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-OV,CCLE-OV,CCLE-OV,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM
chr4:154672590:->chr4:154666879:-	metafusion_865,metafusion_866,metafusion_867,metafusion_868	chr4	154672590,154672590,154672590,154672590	154672590	ENST00000347063,ENST00000513656,ENST00000503694,ENST00000507512	-	chr4	154666879	154667103	-	CCLE-OV,CCLE-OV,CCLE-SKCM,CCLE-SKCM
chr4:79851324:->chr4:79850039:-	metafusion_869,metafusion_870,metafusion_871,metafusion_872,metafusion_873	chr4	79851324,79851324,79851324,79851324,79851324,79851324	79851324	ENST00000342820,ENST00000511594,ENST00000512733,ENST00000395594,ENST00000380645	-	chr4	79850039	79850315	-	CCLE-KIRC,CCLE-KIRC,CCLE-KIRC,CCLE-KIRC,CCLE-KIRC,CCLE-KIRC
chr6:110777741:->chr6:110774810:-	metafusion_874,metafusion_875,metafusion_876,metafusion_877,metafusion_878,metafusion_879	chr6	110777741,110777741,110777741,110777741,110777741,110777741,110777741,110777741,110777741,110777741	110777741	ENST00000451557,ENST00000368919,ENST00000330550,ENST00000439654,ENST00000437378,ENST00000456137,ENST00000424139	-	chr6	110774810	110774932	-	CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML
chr6:110778103:->chr6:110774810:-	metafusion_880,metafusion_881,metafusion_882,metafusion_883,metafusion_884,metafusion_885,metafusion_886,metafusion_887,metafusion_888,metafusion_889,metafusion_890,metafusion_891	chr6	110777741,110778103,110777741,110778103,110777741,110777741,110777741,110777741,110777741,110777741	110778103	ENST00000368919,ENST00000330550,ENST00000439654,ENST00000434949,ENST00000437378,ENST00000456137,ENST00000424139	-	chr6	110774810	110774932	-	CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML
chr6:160819114:+>chr6:160826723:+	metafusion_892,metafusion_893,metafusion_894,metafusion_895	chr6	160819011,2	160819114	ENST00000275300,ENST00000392145	+	chr6	160826723	160827213	+	TCGA-HNSC,TCGA-HNSC,TCGA-PRAD,TCGA-PRAD
chr8:29927158:->chr8:29925140:-	metafusion_896,metafusion_897,metafusion_898,metafusion_899,metafusion_900,metafusion_901,metafusion_902	chr8	29927158,29927158,29927158,29927158,29927158,29927158,29927158	29927158	ENST00000256255,ENST00000521265,ENST00000545648,ENST00000536273,ENST00000523127,ENST00000518296,ENST00000522794	-	chr8	29925140	29925632	-	CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD

chr8:56663523:->chr8:56661447:-	metafusion_903,metafusion_904,metafusion_905,metafusion_906,metafusion_907,metafusion_908,metafusion_909,metafusion_910,metafusion_911,metafusion_912,metafusion_913,metafusion_914,metafusion_915,metafusion_916,metafusion_917,metafusion_918,metafusion_919,metafusion_920,metafusion_921,metafusion_922,metafusion_923,metafusion_924,metafusion_925,metafusion_926,metafusion_927,metafusion_928,metafusion_929,metafusion_930,metafusion_931,metafusion_932,metafusion_933,metafusion_934,metafusion_935,metafusion_936,metafusion_937,metafusion_938,metafusion_939,metafusion_940,metafusion_941,metafusion_942,metafusion_943,metafusion_944,metafusion_945,metafusion_946,metafusion_947,metafusion_948,metafusion_949,metafusion_950,metafusion_951,metafusion_952,metafusion_953,metafusion_954,metafusion_955,metafusion_956,metafusion_957,metafusion_958,metafusion_959,metafusion_960,metafusion_961,metafusion_962,metafusion_963,metafusion_964,metafusion_965,metafusion_966,metafusion_967,metafusion_968,metafusion_969,metafusion_970,metafusion_971,metafusion_972,metafusion_973,metafusion_974,metafusion_975,metafusion_976,metafusion_977,metafusion_978,metafusion_979,metafusion_980,metafusion_981,metafusion_982,metafusion_983,metafusion_984,metafusion_985,metafusion_986,metafusion_987,metafusion_988,metafusion_989,metafusion_990,metafusion_991,metafusion_992,metafusion_993,metafusion_994	chr8	56663523,56663523,56663523,56663523,56663523,56663523,56663523,56663523,56663523	56663523	ENST00000522470,ENST00000434581,ENST00000334667,ENST00000519784,ENST00000517576,ENST00000523073,ENST00000519780,ENST00000522090	-	chr8	56661447	56661448	-	TCGA-OV,TCGA-OV,TCGA-OV,TCGA-OV,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-GBM,CCLE-GBM,CCLE-GBM,CCLE-HNSC,CCLE-HNSC,CCLE-HNSC,CCLE-KIRC,CCLE-KIRC,CCLE-KIRC,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LIHC,CCLE-LIHC,CCLE-LIHC,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-
chrX:9716614:->chrX:9715942:-	metafusion_995,metafusion_996,metafusion_997,metafusion_998	chrX	9716614,9716614,9716614,9716614	9716614	ENST00000467482,ENST00000380929,ENST00000447366,ENST00000431126	-	chrX	9715942	9715945	-	TCGA-UVM,TCGA-UVM,TCGA-UVM,TCGA-UVM

1	2	3	4	5	6	7	8	9	10	11	12
chr1:154709520:->chr1:154705620:-	metafusion_1,metafusion_2,metafusion_3,metafusion_4,metafusion_5,metafusion_6,metafusion_7,metafusion_8,metafusion_9	chr1	154709403	154709520	-	chr1	154705620	154705620,154705620,154705620	-	ENST00000271915,ENST00000361147,ENST00000358505	TCGA-STAD,TCGA-STAD,TCGA-STAD,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC
chr1:53602097:->chr1:53600101:-	metafusion_10,metafusion_11	chr1	53601876	53602097	-	chr1	53600101	53600101,54	-	ENST00000371494,ENST00000371491	TCGA-LGG,TCGA-LGG
chr11:423942:->chr11:421198:-	metafusion_12,metafusion_13,metafusion_14,metafusion_15	chr11	423924	423942	-	chr11	421198	421198	-	ENST00000332826	CCLE-COAD,CCLE-LCML,CCLE-OV,CCLE-STAD
chr11:49184098:->chr11:49179595:-	metafusion_16,metafusion_17,metafusion_18,metafusion_19,metafusion_20	chr11	49182294	49184098	-	chr11	49179595	49179595,49179595,49179595,49179595,49179595	-	ENST00000256999,ENST00000356696,ENST00000343844,ENST00000340334,ENST00000533034	TCGA-PRAD,TCGA-PRAD,TCGA-PRAD,TCGA-PRAD,TCGA-PRAD
chr11:49184443:->chr11:49179595:-	metafusion_21,metafusion_22,metafusion_23,metafusion_24,metafusion_25	chr11	49182294	49184443	-	chr11	49179595	49179595,49179595,49179595,49179595,49179595	-	ENST00000256999,ENST00000356696,ENST00000343844,ENST00000340334,ENST00000533034	CCLE-PRAD,CCLE-PRAD,CCLE-PRAD,CCLE-PRAD,CCLE-PRAD
chr11:57190935:->chr11:57188846:-	metafusion_26,metafusion_27,metafusion_28,metafusion_29,metafusion_30,metafusion_31,metafusion_32,metafusion_33,metafusion_34,metafusion_35,metafusion_36,metafusion_37,metafusion_38,metafusion_39,metafusion_40,metafusion_41,metafusion_42,metafusion_43,metafusion_44,metafusion_45,metafusion_46,metafusion_47,metafusion_48,metafusion_49,metafusion_50,metafusion_51,metafusion_52,metafusion_53,metafusion_54,metafusion_55,metafusion_56,metafusion_57,metafusion_58,metafusion_59,metafusion_60,metafusion_61,metafusion_62,metafusion_63,metafusion_64,metafusion_65,metafusion_66,metafusion_67,metafusion_68,metafusion_69,metafusion_70,metafusion_71,metafusion_72,metafusion_73,metafusion_74,	chr11	57190890	57190935	-	chr11	57188846	57188846,57188846,57188846,57188846,57188846,57188846,57188846,57188846	-	ENST00000395123,ENST00000395124,ENST00000352187,ENST00000529554,ENST00000533524,ENST00000530005,ENST00000529113,ENST00000525474,ENST00000529112	CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LIHC,CCLE-LIHC,CCLE-LIHC,CCLE-LIHC,CCLE-LIHC,CCLE-LIHC,CCLE-LIHC,CCLE-LIHC,CCLE-
chr12:21426215:->chr12:21422701:-	metafusion_143,metafusion_144,metafusion_145,metafusion_146,metafusion_147,metafusion_148,metafusion_149,metafusion_150	chr12	21425846	21426215	-	chr12	21422701	21422701,21422701,21422701,21422701	-	ENST00000307378,ENST00000452078,ENST00000458504,ENST00000537524	TCGA-TGCT,TCGA-TGCT,TCGA-TGCT,TCGA-TGCT,CCLE-OV,CCLE-OV,CCLE-OV
chr12:46760160:->chr12:46758972:-	metafusion_151,metafusion_152,metafusion_153,metafusion_154	chr12	46759964	46760160	-	chr12	46758972	46758972,47	-	ENST00000256689,ENST00000551374	CCLE-BLCA,CCLE-CLL,CCLE-LUSC,CCLE-SARC
chr12:58023062:->chr12:58022045:-	metafusion_155,metafusion_156,metafusion_157,metafusion_158,metafusion_159,metafusion_160,metafusion_161,metafusion_162	chr12	58022983	58023062	-	chr12	58022045	58022045,58022045,58022045	-	ENST00000341156,ENST00000418555,ENST00000547741	TCGA-GBM,TCGA-GBM,CCLE-LUAD,CCLE-LUAD,CCLE-OV,CCLE-OV,CCLE-SARC,CCLE-SARC
chr12:58023062:->chr12:58022686:-	metafusion_163,metafusion_164,metafusion_165,metafusion_166,metafusion_167,metafusion_168,metafusion_169,metafusion_170,metafusion_171,metafusion_172,metafusion_173,metafusion_174,metafusion_175,metafusion_176,metafusion_177,metafusion_178,metafusion_179,metafusion_180,metafusion_181,metafusion_182,metafusion_183,metafusion_184,metafusion_185,metafusion_186,metafusion_187,metafusion_188,metafusion_189,metafusion_190,metafusion_191,metafusion_192,metafusion_193,metafusion_194,metafusion_195,metafusion_196,metafusion_197,metafusion_198,metafusion_199,metafusion_200,metafusion_201,metafusion_202,metafusion_203,metafusion_204,metafusion_205,metafusion_206,metafusion_207,metafusion_2	chr12	58022983	58023062	-	chr12	58022686	58022686,58022686,58022686	-	ENST00000341156,ENST00000418555,ENST00000449184	TCGA-BRCA,TCGA-BRCA,TCGA-BRCA,TCGA-ESCA,TCGA-ESCA,TCGA-ESCA,TCGA-GBM,TCGA-GBM,TCGA-GBM,TCGA-HNSC,TCGA-HNSC,TCGA-HNSC,TCGA-KIRC,TCGA-KIRC,TCGA-KIRC,TCGA-LGG,TCGA-LGG,TCGA-LGG,TCGA-LUSC,TCGA-LUSC,TCGA-LUSC,TCGA-SARC,TCGA-SARC,TCGA-SARC,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-GBM,CCLE-GBM,CCLE-GBM,CCLE-HNSC,CCLE-HNSC,CCLE-HNSC,CCLE-KIRC,CCLE-KIRC,CCLE-KIRC,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LIHC,CCLE-LIHC,CCLE-LIHC,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-MESO,CCLE-MESO,CCLE-MESO,CCLE-OV,CCLE-OV,CCLE-

chr12:58023062:->chr12:58022929:-	metafusion_247,metafusion_248,metafusion_249,metafusion_250,metafusion_251,metafusion_252,metafusion_253,metafusion_254,metafusion_255,metafusion_256,metafusion_257,metafusion_258,metafusion_259,metafusion_260,metafusion_261,metafusion_262,metafusion_263,metafusion_264,metafusion_265,metafusion_266,metafusion_267,metafusion_268,metafusion_269,metafusion_270,metafusion_271,metafusion_272,metafusion_273,metafusion_274,metafusion_275,metafusion_276,metafusion_277,metafusion_278,metafusion_279,metafusion_280,metafusion_281,metafusion_282,metafusion_283,metafusion_284,metafusion_285,metafusion_286,metafusion_287,metafusion_288,metafusion_289,metafusion_290,metafusion_291,metafusion_2	chr12	58022983	58023062	-	chr12	58022929	58022929,58022929,58022929,58022957	-	ENST00000341156,ENST00000418555,ENST00000552798,ENST00000549391	TCGA-BRCA,TCGA-BRCA,TCGA-BRCA,TCGA-BRCA,TCGA-ESCA,TCGA-ESCA,TCGA-ESCA,TCGA-ESCA,TCGA-GBM,TCGA-GBM,TCGA-GBM,TCGA-GBM,TCGA-HNSC,TCGA-HNSC,TCGA-HNSC,TCGA-HNSC,TCGA-KIRC,TCGA-KIRC,TCGA-KIRC,TCGA-KIRC,TCGA-KIRP,TCGA-KIRP,TCGA-KIRP,TCGA-KIRP,TCGA-LGG,TCGA-LGG,TCGA-LGG,TCGA-LGG,TCGA-LGG,TCGA-LUSC,TCGA-LUSC,TCGA-LUSC,TCGA-LUSC,TCGA-LUSC,TCGA-SARC,TCGA-SARC,TCGA-SARC,TCGA-SARC,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-GBM,CCLE-GBM,CCLE-GBM,CCLE-GBM,CCLE-HNSC,CCLE-
chr12:63961380:->chr12:63954442:-	metafusion_375,metafusion_376,metafusion_377,metafusion_378,metafusion_379,metafusion_380,metafusion_381,metafusion_382,metafusion_383,metafusion_384,metafusion_385,metafusion_386,metafusion_387,metafusion_388,metafusion_389,metafusion_390,metafusion_391,metafusion_392,metafusion_393,metafusion_394,metafusion_395,metafusion_396,metafusion_397,metafusion_398,metafusion_399,metafusion_400,metafusion_401,metafusion_402,metafusion_403,metafusion_404,metafusion_405,metafusion_406,metafusion_407,metafusion_408,metafusion_409,metafusion_410,metafusion_411,metafusion_412,metafusion_413,metafusion_414,metafusion_415,metafusion_416,metafusion_417,metafusion_418,metafusion_419,metafusion_4	chr12	63961130	63961380	-	chr12	63954442	63954442,64	-	ENST00000324472,ENST00000413230	TCGA-ACC,TCGA-ACC,TCGA-BLCA,TCGA-BLCA,TCGA-BRCA,TCGA-BRCA,TCGA-CESC,TCGA-CESC,TCGA-ESCA,TCGA-ESCA,TCGA-GBM,TCGA-GBM,TCGA-KICH,TCGA-KICH,TCGA-KIRC,TCGA-KIRC,TCGA-KIRP,TCGA-KIRP,TCGA-LGG,TCGA-LGG,TCGA-LUSC,TCGA-LUSC,TCGA-PAAD,TCGA-PAAD,TCGA-PCPG,TCGA-PCPG,TCGA-PRAD,TCGA-PRAD,TCGA-SARC,TCGA-SARC,TCGA-SKCM,TCGA-SKCM,TCGA-TGCT,TCGA-TGCT,TCGA-THCA,TCGA-THCA,TCGA-THYM,TCGA-THYM,TCGA-UCEC,TCGA-UCEC,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-CLL,CCLE-CLL,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-GBM,CCLE-GBM,CCLE-KIRC,CCLE-KIRC,CCLE-LAML,CCLE-LAML,CCLE-LCML,CCLE-LCML,CCLE-LIHC,CCLE-LIHC,CCLE-LUSC,CCLE-LUSC,CCLE-LUAD,CCLE-LUAD,CCLE-OV,CCLE-
chr13:39925507:->chr13:39918191:-	metafusion_459	chr13	39925460	39925507	-	chr13	39918191	39918191	-	ENST00000379589	TCGA-KIRC
chr15:74475786:->chr15:74474801:-	metafusion_460,metafusion_461,metafusion_462,metafusion_463,metafusion_464,metafusion_465,metafusion_466,metafusion_467,metafusion_468,metafusion_469,metafusion_470,metafusion_471,metafusion_472,metafusion_473,metafusion_474,metafusion_475,metafusion_476,metafusion_477,metafusion_478,metafusion_479,metafusion_480,metafusion_481,metafusion_482,metafusion_483	chr15	74475630	74475786	-	chr15	74474801	74474801,74474801,74474801,74474801,74474801,74474801,74474801,74474801	-	ENST00000395105,ENST00000423167,ENST00000323940,ENST00000449139,ENST00000416286,ENST00000535552,ENST00000563965,ENST00000574278,ENST00000572785	CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM
chr16:47195998:->chr16:47195743:-	metafusion_484,metafusion_485,metafusion_486,metafusion_487,metafusion_488,metafusion_489,metafusion_490,metafusion_491,metafusion_492,metafusion_493,metafusion_494,metafusion_495,metafusion_496,metafusion_497,metafusion_498,metafusion_499,metafusion_500,metafusion_501,metafusion_502,metafusion_503,metafusion_504	chr16	47195962	47195998	-	chr16	47195743	47195743,47195743,47195743	-	ENST00000320640,ENST00000544001,ENST00000565262	TCGA-BRCA,TCGA-BRCA,TCGA-BRCA,TCGA-BRCA,TCGA-GBM,TCGA-GBM,TCGA-LGG,TCGA-LGG,TCGA-LGG,TCGA-LGG,TCGA-LUAD,TCGA-LUAD,TCGA-LUAD,TCGA-OV,TCGA-OV,TCGA-OV,TCGA-STAD,TCGA-STAD,TCGA-STAD,TCGA-THCA,TCGA-THCA,TCGA-THCA
chr17:19600139:->chr17:19584983:-	metafusion_505,metafusion_506,metafusion_507,metafusion_508,metafusion_509,metafusion_510	chr17	19600058	19600139	-	chr17	19584983	19584983,2	-	ENST00000325411,ENST00000350657	TCGA-KIRP,TCGA-KIRP,CCLE-ESCA,CCLE-ESCA,CCLE-LUSC,CCLE-LUSC
chr17:67076099:->chr17:67075406:-	metafusion_511	chr17	67075867	67076099	-	chr17	67075406	67075406	-	ENST00000284425	TCGA-LGG
chr17:67291392:->chr17:67290854:-	metafusion_512,metafusion_513,metafusion_514,metafusion_515,metafusion_516	chr17	67291025	67291392	-	chr17	67290854	67290854,67290854,67290854,67290854	-	ENST00000392676,ENST00000392677,ENST00000588877,ENST00000586995,ENST00000593153	CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD

chr17:67306489:->chr17:67305564:-	metafusion_517,metafusion_518,metafusion_519,metafusion_520,metafusion_521,metafusion_522,metafusion_523,metafusion_524,metafusion_525,metafusion_526,metafusion_527,metafusion_528,metafusion_529,metafusion_530,metafusion_531,metafusion_532,metafusion_533,metafusion_534,metafusion_535,metafusion_536,metafusion_537,metafusion_538,metafusion_539,metafusion_540,metafusion_541,metafusion_542,metafusion_543,metafusion_544	chr17	67306287	67306489	-	chr17	67305564	67305564,67305564,67305564,67305564,67305564,67305564,67305564	-	ENST00000392676,ENST00000392677,ENST00000588877,ENST00000593153,ENST00000593253,ENST00000587607,ENST00000592568	CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC
chr17:70670643:->chr17:70645407:-	metafusion_545,metafusion_546,metafusion_547,metafusion_548,metafusion_549,metafusion_550,metafusion_551,metafusion_552,metafusion_553,metafusion_554,metafusion_555,metafusion_556,metafusion_557,metafusion_558,metafusion_559,metafusion_560,metafusion_561,metafusion_562,metafusion_563,metafusion_564,metafusion_565,metafusion_566,metafusion_567,metafusion_568,metafusion_569,metafusion_570,metafusion_571,metafusion_572,metafusion_573,metafusion_574,metafusion_575,metafusion_576,metafusion_577,metafusion_578,metafusion_579,metafusion_580,metafusion_581,metafusion_582,metafusion_583,metafusion_584,metafusion_585,metafusion_586,metafusion_587,metafusion_588,metafusion_589,metafusion_5	chr17	70670228	70670643	-	chr17	70645407	70645407,70645407,70645407	-	ENST00000255559,ENST00000542342,ENST00000582769	TCGA-BLCA,TCGA-BLCA,TCGA-BLCA,TCGA-BRCA,TCGA-BRCA,TCGA-KIRC,TCGA-KIRC,TCGA-KIRC,TCGA-STAD,TCGA-STAD,TCGA-THCA,TCGA-THCA,CCLE-BRCA,CCLE-BRCA,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-GBM,CCLE-GBM,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-OV,CCLE-OV,CCLE-OV,CCLE-PAAD,CCLE-PAAD,CCLE-PAAD,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-STAD,CCLE-STAD,CCLE-STAD
chr2:114505993:->chr2:114503916:-	metafusion_599,metafusion_600,metafusion_601	chr2	114505739	114505993	-	chr2	114503916	114503916,114503916,114503916	-	ENST00000245680,ENST00000409106,ENST00000409342	CCLE-LUAD,CCLE-LUAD,CCLE-LUAD
chr2:230370928:->chr2:230341969:-	metafusion_602,metafusion_603,metafusion_604,metafusion_605,metafusion_606,metafusion_607,metafusion_608,metafusion_609,metafusion_610,metafusion_611,metafusion_612,metafusion_613,metafusion_614,metafusion_615,metafusion_616,metafusion_617,metafusion_618,metafusion_619,metafusion_620	chr2	230370811	230370928	-	chr2	230341969	230341969	-	ENST00000341772	TCGA-ACC,TCGA-GBM,TCGA-KIRC,TCGA-LGG,CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-GBM,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-LUAD,CCLE-OV,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr2:230409481:->chr2:230377652:-	metafusion_621,metafusion_622,metafusion_623,metafusion_624,metafusion_625,metafusion_626,metafusion_627,metafusion_628,metafusion_629,metafusion_630,metafusion_631,metafusion_632,metafusion_633,metafusion_634,metafusion_635,metafusion_636,metafusion_637,metafusion_638,metafusion_639,metafusion_640	chr2	230409247	230409481	-	chr2	230377652	230377652	-	ENST00000341772	TCGA-GBM,TCGA-STAD,CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-GBM,CCLE-HNSC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-LUAD,CCLE-MESO,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr2:25056611:->chr2:25054618:-	metafusion_641,metafusion_642,metafusion_643,metafusion_644,metafusion_645,metafusion_646,metafusion_647,metafusion_648,metafusion_649,metafusion_650,metafusion_651,metafusion_652,metafusion_653,metafusion_654,metafusion_655,metafusion_656,metafusion_657,metafusion_658,metafusion_659,metafusion_660,metafusion_661,metafusion_662,metafusion_663,metafusion_664,metafusion_665,metafusion_666,metafusion_667,metafusion_668,metafusion_669,metafusion_670,metafusion_671,metafusion_672,metafusion_673,metafusion_674,metafusion_675,metafusion_676,metafusion_677,metafusion_678,metafusion_679	chr2	25056598	25056611	-	chr2	25054618	25054618,25054618,25054618	-	ENST00000260600,ENST00000405392,ENST00000606682	CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-HNSC,CCLE-HNSC,CCLE-HNSC,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-PAAD,CCLE-PAAD,CCLE-PAAD,CCLE-SARC,CCLE-SARC,CCLE-SARC,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-STAD,CCLE-STAD,CCLE-STAD,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC
chr2:25112189:->chr2:25095588:-	metafusion_680,metafusion_681,metafusion_682	chr2	25111889	25112189	-	chr2	25095588	25095588,25	-	ENST00000260600,ENST00000433852	CCLE-DLBC,CCLE-MESO,CCLE-THCA
chr22:46887031:->chr22:46860242:-	metafusion_683,metafusion_684,metafusion_685	chr22	46887006	46887031	-	chr22	46860242	46860242,46860242,46860242	-	ENST00000262738,ENST00000395964,ENST00000454637	CCLE-ESCA,CCLE-ESCA,CCLE-ESCA

chr3:124838710:->chr3:124837700:-	metafusion_686,metafusion_687,metafusion_688,metafusion_689,metafusion_690,metafusion_691,metafusion_692,metafusion_693,metafusion_694,metafusion_695,metafusion_696,metafusion_697,metafusion_698,metafusion_699,metafusion_700,metafusion_701,metafusion_702,metafusion_703,metafusion_704,metafusion_705,metafusion_706,metafusion_707,metafusion_708,metafusion_709,metafusion_710,metafusion_711,metafusion_712,metafusion_713,metafusion_714,metafusion_715,metafusion_716,metafusion_717,metafusion_718,metafusion_719,metafusion_720,metafusion_721,metafusion_722,metafusion_723,metafusion_724,metafusion_725,metafusion_726,metafusion_727,metafusion_728,metafusion_729,metafusion_730,metafusion_7	chr3	124838686	124838710	-	chr3	124837700	124837700,124837700,124837700,124837700,124837700,124837700,124837700	-	ENST00000430155,ENST00000393469,ENST00000423114,ENST00000469902,ENST00000314584,ENST00000479826	TCGA-ESCA,TCGA-ESCA,TCGA-ESCA,TCGA-ESCA,TCGA-ESCA,TCGA-LUSC,TCGA-LUSC,TCGA-LUSC,TCGA-LUSC,TCGA-LUSC,TCGA-MESO,TCGA-MESO,TCGA-MESO,TCGA-MESO,TCGA-MESO,TCGA-STAD,TCGA-STAD,TCGA-STAD,TCGA-STAD,TCGA-STAD,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-GBM,CCLE-GBM,CCLE-GBM,CCLE-GBM,CCLE-
chr3:128359849:->chr3:128356948:-	metafusion_824,metafusion_825	chr3	128359764	128359849	-	chr3	128356948	128356948	-	ENST00000296255	CCLE-ESCA,CCLE-UCEC
chr3:130680439:+>chr3:130682815:+	metafusion_826,metafusion_827,metafusion_828,metafusion_829,metafusion_830,metafusion_831,metafusion_832,metafusion_833,metafusion_834,metafusion_835,metafusion_836,metafusion_837,metafusion_838,metafusion_839,metafusion_840	chr3	130680060	130680439	+	chr3	130682815	130682939,130682939,130682939,130682939,130682939,130682939,130682939,130682939,130682939,130682939,130682939,130682939,130682939,130682939,130682939,130682939	+	ENST00000505330,ENST00000504381,ENST00000507488,ENST00000393221,ENST00000533801,ENST00000510168,ENST00000508532,ENST00000504948,ENST00000513801,ENST00000328560,ENST00000428331,ENST00000359644,ENST00000422190,ENST00000504612,ENST00000515854	CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM
chr3:43498855:->chr3:43474219:-	metafusion_841,metafusion_842,metafusion_843,metafusion_844,metafusion_845,metafusion_846,metafusion_847,metafusion_848,metafusion_849,metafusion_850,metafusion_851,metafusion_852,metafusion_853,metafusion_854,metafusion_855	chr3	43498772	43498855	-	chr3	43474219	43474219,43474219,43474219,43474219,43474219,43474219	-	ENST00000292246,ENST00000350459,ENST00000396091,ENST00000451430,ENST00000448045	CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC,CCLE-UCEC
chr4:154666821:->chr4:154644610:-	metafusion_856,metafusion_857,metafusion_858,metafusion_859,metafusion_860,metafusion_861,metafusion_862,metafusion_863,metafusion_864	chr4	154666742	154666821	-	chr4	154644610	154644610,154644610,154644610,154644610	-	ENST00000347063,ENST00000274068,ENST00000503694,ENST00000508248	CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-OV,CCLE-OV,CCLE-OV,CCLE-SKCM,CCLE-SKCM,CCLE-SKCM
chr4:154666821:->chr4:154649513:-	metafusion_865,metafusion_866,metafusion_867,metafusion_868	chr4	154666742	154666821	-	chr4	154649513	154649513,154649513,154649513	-	ENST00000347063,ENST00000513656,ENST00000508248	CCLE-OV,CCLE-OV,CCLE-SKCM,CCLE-SKCM
chr4:79849981:->chr4:79847872:-	metafusion_869,metafusion_870,metafusion_871,metafusion_872,metafusion_873	chr4	79849802	79849981	-	chr4	79847872	79847872,79847872,79847872,79847872,79847872	-	ENST00000342820,ENST00000511594,ENST00000512733,ENST00000395594,ENST00000380645	CCLE-KIRC,CCLE-KIRC,CCLE-KIRC,CCLE-KIRC,CCLE-KIRC
chr6:110774731:->chr6:110768193:-	metafusion_874,metafusion_875,metafusion_876,metafusion_877,metafusion_878,metafusion_879,metafusion_880,metafusion_881,metafusion_882,metafusion_883,metafusion_884,metafusion_885,metafusion_886,metafusion_887,metafusion_888,metafusion_889,metafusion_890,metafusion_891	chr6	110774634	110774731	-	chr6	110768193	110768193,110768193,110768193,110768193,110768193,110768193,110768193,110768193	-	ENST00000451557,ENST00000368919,ENST00000330550,ENST00000439654,ENST00000434949,ENST00000437378,ENST00000424139	CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML
chr6:160823515:+>chr6:160828073:+	metafusion_892,metafusion_893,metafusion_894,metafusion_895	chr6	160821713	160823515	+	chr6	160828073	160828227,2	+	ENST00000275300,ENST00000392145	TCGA-HNSC,TCGA-HNSC,TCGA-PRAD,TCGA-PRAD
chr8:29925108:->chr8:29924434:-	metafusion_896,metafusion_897,metafusion_898,metafusion_899,metafusion_900,metafusion_901,metafusion_902	chr8	29924904	29925108	-	chr8	29924434	29924434,29924434,29924434,29924434,29924434,29924434,29924434	-	ENST00000256255,ENST00000521265,ENST00000545648,ENST00000536273,ENST00000523127,ENST00000518296,ENST00000522794	CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD

chr8:56661201:->chr8:56657680:-	metafusion_903,metafusion_904,metafusion_905,metafusion_906,metafusion_907,metafusion_908,metafusion_909,metafusion_910,metafusion_911,metafusion_912,metafusion_913,metafusion_914,metafusion_915,metafusion_916,metafusion_917,metafusion_918,metafusion_919,metafusion_920,metafusion_921,metafusion_922,metafusion_923,metafusion_924,metafusion_925,metafusion_926,metafusion_927,metafusion_928,metafusion_929,metafusion_930,metafusion_931,metafusion_932,metafusion_933,metafusion_934,metafusion_935,metafusion_936,metafusion_937,metafusion_938,metafusion_939,metafusion_940,metafusion_941,metafusion_942,metafusion_943,metafusion_944,metafusion_945,metafusion_946,metafusion_947,metafusion_9	chr8	56661172	56661201	-	chr8	56657680	56657680,56657680,56657680,56657680	-	ENST00000434581,ENST00000523073,ENST00000519780,ENST00000522090	TCGA-OV,TCGA-OV,TCGA-OV,TCGA-OV,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BLCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-BRCA,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-CLL,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-COAD,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-DLBC,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-ESCA,CCLE-GBM,CCLE-GBM,CCLE-GBM,CCLE-GBM,CCLE-HNSC,CCLE-HNSC,CCLE-HNSC,CCLE-HNSC,CCLE-KIRC,CCLE-KIRC,CCLE-KIRC,CCLE-KIRC,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LAML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LCML,CCLE-LIHC,CCLE-LIHC,CCLE-LIHC,CCLE-LIHC,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-LUSC,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-LUAD,CCLE-MESO,CCLE-MESO,CCLE-MESO,CCLE-MESO,CCLE-OV,CCLE-OV,CCLE-OV,CCLE-OV,CCLE-PAAD,CCLE-PAAD,CCLE-
chrX:9715893:->chrX:9714193:-	metafusion_995,metafusion_996,metafusion_997,metafusion_998	chrX	9715737	9715893	-	chrX	9714193	9714193,9714193,9714193,9714193	-	ENST00000467482,ENST00000380929,ENST00000447366,ENST00000431126	TCGA-UVM,TCGA-UVM,TCGA-UVM,TCGA-UVM

SEQ ID	metaFusion_id	common_metafusion_id	ORF_transcript_name
9166	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-	metafusion_1	ORF1,ENST00000271915
9167	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-	metafusion_2	ORF1,ENST00000358505
9168	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-	metafusion_3	ORF1,ENST00000361147
9169	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-	metafusion_4	ORF1,ENST00000271915
9170	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-	metafusion_5	ORF1,ENST00000358505
9171	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-	metafusion_6	ORF1,ENST00000361147
9172	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-	metafusion_7	ORF1,ENST00000271915
9173	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-	metafusion_8	ORF1,ENST00000358505
9174	chr1:154709520:->chr1:154705620:- | chr1:154744451:->chr1:154709564:-	metafusion_9	ORF1,ENST00000361147
9175	chr1:53602097:->chr1:53600101:- | chr1:53607987:->chr1:53602159:-	metafusion_10	ORF1,ENST00000371494
9176	chr1:53602097:->chr1:53600101:- | chr1:53607987:->chr1:53602159:-	metafusion_11	ORF1,ENST00000371491
9177	chr11:423942:->chr11:421198:- | chr11:428166:->chr11:424187:-	metafusion_12	ORF1,ENST00000332826
9178	chr11:423942:->chr11:421198:- | chr11:428166:->chr11:424187:-	metafusion_13	ORF1,ENST00000332826
9179	chr11:423942:->chr11:421198:- | chr11:428166:->chr11:424187:-	metafusion_14	ORF1,ENST00000332826
9180	chr11:423942:->chr11:421198:- | chr11:428166:->chr11:424187:-	metafusion_15	ORF1,ENST00000332826
9181	chr11:49184098:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-	metafusion_16	ORF1,ENST00000256999
9182	chr11:49184098:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-	metafusion_17	ORF1,ENST00000340334
9183	chr11:49184098:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-	metafusion_18	ORF1,ENST00000343844
9184	chr11:49184098:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-	metafusion_19	ORF1,ENST00000356696
9185	chr11:49184098:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-	metafusion_20	ORF1,ENST00000533034
9186	chr11:49184443:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-	metafusion_21	ORF1,ENST00000256999
9187	chr11:49184443:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-	metafusion_22	ORF1,ENST00000340334
9188	chr11:49184443:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-	metafusion_23	ORF1,ENST00000343844
9189	chr11:49184443:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-	metafusion_24	ORF1,ENST00000356696
9190	chr11:49184443:->chr11:49179595:- | chr11:49186257:->chr11:49184464:-	metafusion_25	ORF1,ENST00000533034
9191	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_26	ORF1,ENST00000352187
9192	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_27	ORF1,ENST00000395123
9193	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_28	ORF1,ENST00000395124
9194	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_29	ORF1,ENST00000525474
9195	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_30	ORF1,ENST00000529112
9196	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_31	ORF1,ENST00000529113
9197	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_32	ORF1,ENST00000529554
9198	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_33	ORF1,ENST00000530005
9199	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_34	ORF1,ENST00000533524
9200	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_35	ORF1,ENST00000352187
9201	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_36	ORF1,ENST00000395123
9202	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_37	ORF1,ENST00000395124
9203	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_38	ORF1,ENST00000525474
9204	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_39	ORF1,ENST00000529112
9205	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_40	ORF1,ENST00000529113
9206	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_41	ORF1,ENST00000529554
9207	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_42	ORF1,ENST00000530005
9208	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_43	ORF1,ENST00000533524
9209	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_44	ORF1,ENST00000352187
9210	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_45	ORF1,ENST00000395123
9211	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_46	ORF1,ENST00000395124
9212	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_47	ORF1,ENST00000525474
9213	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_48	ORF1,ENST00000529112
9214	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_49	ORF1,ENST00000529113
9215	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_50	ORF1,ENST00000529554
9216	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_51	ORF1,ENST00000530005
9217	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_52	ORF1,ENST00000533524
9218	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_53	ORF1,ENST00000525474
9219	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_54	ORF1,ENST00000529112
9220	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_55	ORF1,ENST00000529113
9221	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_56	ORF1,ENST00000529554
9222	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_57	ORF1,ENST00000530005
9223	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_58	ORF1,ENST00000533524
9224	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_59	ORF1,ENST00000352187
9225	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_60	ORF1,ENST00000395123
9226	chr11:57190935:->chr11:57188846:- | chr11:57191455:->chr11:57191196:-	metafusion_61	ORF1,ENST00000395124

9227	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_62	ORF1,ENST00000352187
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9229	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_64	ORF1,ENST00000395124
9230	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_65	ORF1,ENST00000525474
9231	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_66	ORF1,ENST00000529112
9232	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_67	ORF1,ENST00000529113
9233	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_68	ORF1,ENST00000529554
9234	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_69	ORF1,ENST00000530005
9235	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_70	ORF1,ENST00000533524
9236	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_71	ORF1,ENST00000352187
9237	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_72	ORF1,ENST00000395123
9238	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_73	ORF1,ENST00000395124
9239	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_74	ORF1,ENST00000525474
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9242	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_77	ORF1,ENST00000529554
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9247	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_82	ORF1,ENST00000395124
9248	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_83	ORF1,ENST00000525474
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9255	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_90	ORF1,ENST00000395123
9256	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_91	ORF1,ENST00000395124
9257	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_92	ORF1,ENST00000525474
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9264	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_99	ORF1,ENST00000395123
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9266	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_101	ORF1,ENST00000525474
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9269	chr11:57190935:->chr11:57188846:-	chr11:57191455:->chr11:57191196:-	metafusion_104	ORF1,ENST00000529554
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9309	chr12:21426215:->chr12:21422701:-	chr12:21427403:->chr12:21426319:-	metafusion_144	ORF1,ENST00000452078
9310	chr12:21426215:->chr12:21422701:-	chr12:21427403:->chr12:21426319:-	metafusion_145	ORF1,ENST00000458504
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9312	chr12:21426215:->chr12:21422701:-	chr12:21427403:->chr12:21426319:-	metafusion_147	ORF1,ENST00000307378
9313	chr12:21426215:->chr12:21422701:-	chr12:21427403:->chr12:21426319:-	metafusion_148	ORF1,ENST00000452078
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9788	chr2:230409481:->chr2:230377652:-	chr2:230411663:->chr2:230409543:-	metafusion_623	ORF1,ENST00000341772
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9790	chr2:230409481:->chr2:230377652:-	chr2:230411663:->chr2:230409543:-	metafusion_625	ORF1,ENST00000341772
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9807	chr2:25056611:->chr2:25054618:- | chr2:25057354:->chr2:25056695:-	metafusion_642	ORF1,ENST00000405392
9808	chr2:25056611:->chr2:25054618:- | chr2:25057354:->chr2:25056695:-	metafusion_643	ORF1,ENST00000606682
9809	chr2:25056611:->chr2:25054618:- | chr2:25057354:->chr2:25056695:-	metafusion_644	ORF1,ENST00000260600
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9837	chr2:25056611:->chr2:25054618:- | chr2:25057354:->chr2:25056695:-	metafusion_672	ORF1,ENST00000405392
9838	chr2:25056611:->chr2:25054618:- | chr2:25057354:->chr2:25056695:-	metafusion_673	ORF1,ENST00000606682
9839	chr2:25056611:->chr2:25054618:- | chr2:25057354:->chr2:25056695:-	metafusion_674	ORF1,ENST00000260600
9840	chr2:25056611:->chr2:25054618:- | chr2:25057354:->chr2:25056695:-	metafusion_675	ORF1,ENST00000405392
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9843	chr2:25056611:->chr2:25054618:- | chr2:25057354:->chr2:25056695:-	metafusion_678	ORF1,ENST00000405392
9844	chr2:25056611:->chr2:25054618:- | chr2:25057354:->chr2:25056695:-	metafusion_679	ORF1,ENST00000606682
9845	chr2:25112189:->chr2:25095588:- | chr2:25141182:->chr2:25112387:-	metafusion_680	ORF1,ENST00000260600
9846	chr2:25112189:->chr2:25095588:- | chr2:25141182:->chr2:25112387:-	metafusion_681	ORF1,ENST00000260600
9847	chr2:25112189:->chr2:25095588:- | chr2:25141182:->chr2:25112387:-	metafusion_682	ORF1,ENST00000260600
9848	chr22:46887031:->chr22:46860242:- | chr22:46929524:->chr22:46887096:-	metafusion_683	ORF1,ENST00000262738
9849	chr22:46887031:->chr22:46860242:- | chr22:46929524:->chr22:46887096:-	metafusion_684	ORF1,ENST00000395964
9850	chr22:46887031:->chr22:46860242:- | chr22:46929524:->chr22:46887096:-	metafusion_685	ORF1,ENST00000454637
9851	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_686	ORF1,ENST00000314584
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9853	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_688	ORF1,ENST00000423114
9854	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_689	ORF1,ENST00000430155
9855	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_690	ORF1,ENST00000469902
9856	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_691	ORF1,ENST00000479826

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9858	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_693	ORF1,ENST00000393469
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9862	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_697	ORF1,ENST00000479826
9863	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_698	ORF1,ENST00000314584
9864	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_699	ORF1,ENST00000393469
9865	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_700	ORF1,ENST00000423114
9866	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_701	ORF1,ENST00000430155
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9871	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_706	ORF1,ENST00000423114
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9874	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_709	ORF1,ENST00000479826
9875	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_710	ORF1,ENST00000314584
9876	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_711	ORF1,ENST00000393469
9877	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_712	ORF1,ENST00000423114
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9880	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_715	ORF1,ENST00000479826
9881	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_716	ORF1,ENST00000314584
9882	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_717	ORF1,ENST00000393469
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9884	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_719	ORF1,ENST00000430155
9885	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_720	ORF1,ENST00000469902
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9890	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_725	ORF1,ENST00000430155
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9892	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_727	ORF1,ENST00000479826
9893	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_728	ORF1,ENST00000314584
9894	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_729	ORF1,ENST00000393469
9895	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_730	ORF1,ENST00000423114
9896	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_731	ORF1,ENST00000430155
9897	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_732	ORF1,ENST00000469902
9898	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_733	ORF1,ENST00000479826
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9900	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_735	ORF1,ENST00000393469
9901	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_736	ORF1,ENST00000423114
9902	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_737	ORF1,ENST00000430155
9903	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_738	ORF1,ENST00000469902
9904	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_739	ORF1,ENST00000479826
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9910	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_745	ORF1,ENST00000479826
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9915	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_750	ORF1,ENST00000469902
9916	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_751	ORF1,ENST00000479826
9917	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_752	ORF1,ENST00000314584
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9937	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_772	ORF1,ENST00000423114
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9980	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_815	ORF1,ENST00000430155
9981	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_816	ORF1,ENST00000469902
9982	chr3:124838710:->chr3:124837700:-	chr3:124839443:->chr3:124838735:-	metafusion_817	ORF1,ENST00000479826

9983	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_818	ORF1,ENST00000314584
9984	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_819	ORF1,ENST00000393469
9985	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_820	ORF1,ENST00000423114
9986	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_821	ORF1,ENST00000430155
9987	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_822	ORF1,ENST00000469902
9988	chr3:124838710:->chr3:124837700:- | chr3:124839443:->chr3:124838735:-	metafusion_823	ORF1,ENST00000479826
9989	chr3:128359849:->chr3:128356948:- | chr3:128363762:->chr3:128359896:-	metafusion_824	ORF1,ENST00000296255
9990	chr3:128359849:->chr3:128356948:- | chr3:128363762:->chr3:128359896:-	metafusion_825	ORF1,ENST00000296255
9991	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_826	ORF1,ENST00000328560
9992	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_827	ORF1,ENST00000359644
9993	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_828	ORF1,ENST00000393221
9994	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_829	ORF1,ENST00000422190
9995	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_830	ORF1,ENST00000428331
9996	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_831	ORF1,ENST00000504381
9997	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_832	ORF1,ENST00000504612
9998	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_833	ORF1,ENST00000504948
9999	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_834	ORF1,ENST00000505330
10000	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_835	ORF1,ENST00000507488
10001	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_836	ORF1,ENST00000508532
10002	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_837	ORF1,ENST00000510168
10003	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_838	ORF1,ENST00000513801
10004	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_839	ORF1,ENST00000515854
10005	chr3:130680439:+>chr3:130682815:+ | chr3:130678185:+>chr3:130680470:+	metafusion_840	ORF1,ENST00000533801
10006	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_841	ORF1,ENST00000292246
10007	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_842	ORF1,ENST00000350459
10008	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_843	ORF1,ENST00000396091
10009	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_844	ORF1,ENST00000448045
10010	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_845	ORF1,ENST00000451430
10011	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_846	ORF1,ENST00000292246
10012	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_847	ORF1,ENST00000350459
10013	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_848	ORF1,ENST00000396091
10014	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_849	ORF1,ENST00000448045
10015	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_850	ORF1,ENST00000451430
10016	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_851	ORF1,ENST00000292246
10017	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_852	ORF1,ENST00000350459
10018	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_853	ORF1,ENST00000396091
10019	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_854	ORF1,ENST00000448045
10020	chr3:43498855:->chr3:43474219:- | chr3:43591212:->chr3:43498923:-	metafusion_855	ORF1,ENST00000451430
10021	chr4:154666821:->chr4:154644610:- | chr4:154669797:->chr4:154666879:-	metafusion_856	ORF1,ENST00000274068
10022	chr4:154666821:->chr4:154644610:- | chr4:154669797:->chr4:154666879:-	metafusion_857	ORF1,ENST00000347063
10023	chr4:154666821:->chr4:154644610:- | chr4:154669797:->chr4:154666879:-	metafusion_858	ORF1,ENST00000503694
10024	chr4:154666821:->chr4:154644610:- | chr4:154669797:->chr4:154666879:-	metafusion_859	ORF1,ENST00000274068
10025	chr4:154666821:->chr4:154644610:- | chr4:154669797:->chr4:154666879:-	metafusion_860	ORF1,ENST00000347063
10026	chr4:154666821:->chr4:154644610:- | chr4:154669797:->chr4:154666879:-	metafusion_861	ORF1,ENST00000503694
10027	chr4:154666821:->chr4:154644610:- | chr4:154669797:->chr4:154666879:-	metafusion_862	ORF1,ENST00000274068
10028	chr4:154666821:->chr4:154644610:- | chr4:154669797:->chr4:154666879:-	metafusion_863	ORF1,ENST00000347063
10029	chr4:154666821:->chr4:154644610:- | chr4:154669797:->chr4:154666879:-	metafusion_864	ORF1,ENST00000503694
10030	chr4:154666821:->chr4:154649513:- | chr4:154672590:->chr4:154666879:-	metafusion_865	ORF1,ENST00000347063

10031	chr4:154666821:->chr4:154649513:- | chr4:154672590:->chr4:154666879:-	metafusion_866	ORF1,ENST00000513656
10032	chr4:154666821:->chr4:154649513:- | chr4:154672590:->chr4:154666879:-	metafusion_867	ORF1,ENST00000347063
10033	chr4:154666821:->chr4:154649513:- | chr4:154672590:->chr4:154666879:-	metafusion_868	ORF1,ENST00000513656
10034	chr4:79849981:->chr4:79847872:- | chr4:79851324:->chr4:79850039:-	metafusion_869	ORF1,ENST00000342820
10035	chr4:79849981:->chr4:79847872:- | chr4:79851324:->chr4:79850039:-	metafusion_870	ORF1,ENST00000380645
10036	chr4:79849981:->chr4:79847872:- | chr4:79851324:->chr4:79850039:-	metafusion_871	ORF1,ENST00000395594
10037	chr4:79849981:->chr4:79847872:- | chr4:79851324:->chr4:79850039:-	metafusion_872	ORF1,ENST00000511594
10038	chr4:79849981:->chr4:79847872:- | chr4:79851324:->chr4:79850039:-	metafusion_873	ORF1,ENST00000512733
10039	chr6:110774731:->chr6:110768193:- | chr6:110777741:->chr6:110774810:-	metafusion_874	ORF1,ENST00000330550
10040	chr6:110774731:->chr6:110768193:- | chr6:110777741:->chr6:110774810:-	metafusion_875	ORF1,ENST00000368919
10041	chr6:110774731:->chr6:110768193:- | chr6:110777741:->chr6:110774810:-	metafusion_876	ORF1,ENST00000424139
10042	chr6:110774731:->chr6:110768193:- | chr6:110777741:->chr6:110774810:-	metafusion_877	ORF1,ENST00000437378
10043	chr6:110774731:->chr6:110768193:- | chr6:110777741:->chr6:110774810:-	metafusion_878	ORF1,ENST00000439654
10044	chr6:110774731:->chr6:110768193:- | chr6:110777741:->chr6:110774810:-	metafusion_879	ORF1,ENST00000451557
10045	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_880	ORF1,ENST00000330550
10046	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_881	ORF1,ENST00000368919
10047	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_882	ORF1,ENST00000424139
10048	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_883	ORF1,ENST00000434949
10049	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_884	ORF1,ENST00000437378
10050	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_885	ORF1,ENST00000439654
10051	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_886	ORF1,ENST00000330550
10052	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_887	ORF1,ENST00000368919
10053	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_888	ORF1,ENST00000424139
10054	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_889	ORF1,ENST00000434949
10055	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_890	ORF1,ENST00000437378
10056	chr6:110774731:->chr6:110768193:- | chr6:110778103:->chr6:110774810:-	metafusion_891	ORF1,ENST00000439654
10057	chr6:160823515:+>chr6:160828073:+ | chr6:160819114:+>chr6:160826723:+	metafusion_892	ORF1,ENST00000275300
10058	chr6:160823515:+>chr6:160828073:+ | chr6:160819114:+>chr6:160826723:+	metafusion_893	ORF1,ENST00000392145
10059	chr6:160823515:+>chr6:160828073:+ | chr6:160819114:+>chr6:160826723:+	metafusion_894	ORF1,ENST00000275300
10060	chr6:160823515:+>chr6:160828073:+ | chr6:160819114:+>chr6:160826723:+	metafusion_895	ORF1,ENST00000392145
10061	chr8:29925108:->chr8:29924434:- | chr8:29927158:->chr8:29925140:-	metafusion_896	ORF1,ENST00000256255
10062	chr8:29925108:->chr8:29924434:- | chr8:29927158:->chr8:29925140:-	metafusion_897	ORF1,ENST00000518296
10063	chr8:29925108:->chr8:29924434:- | chr8:29927158:->chr8:29925140:-	metafusion_898	ORF1,ENST00000521265
10064	chr8:29925108:->chr8:29924434:- | chr8:29927158:->chr8:29925140:-	metafusion_899	ORF1,ENST00000522794
10065	chr8:29925108:->chr8:29924434:- | chr8:29927158:->chr8:29925140:-	metafusion_900	ORF1,ENST00000523127
10066	chr8:29925108:->chr8:29924434:- | chr8:29927158:->chr8:29925140:-	metafusion_901	ORF1,ENST00000536273
10067	chr8:29925108:->chr8:29924434:- | chr8:29927158:->chr8:29925140:-	metafusion_902	ORF1,ENST00000545648
10068	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_903	ORF1,ENST00000434581
10069	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_904	ORF1,ENST00000519780
10070	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_905	ORF1,ENST00000522090
10071	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_906	ORF1,ENST00000523073
10072	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_907	ORF1,ENST00000434581
10073	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_908	ORF1,ENST00000519780
10074	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_909	ORF1,ENST00000522090
10075	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_910	ORF1,ENST00000523073
10076	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_911	ORF1,ENST00000434581
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10078	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_913	ORF1,ENST00000522090
10079	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_914	ORF1,ENST00000523073
10080	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_915	ORF1,ENST00000434581
10081	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_916	ORF1,ENST00000519780
10082	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_917	ORF1,ENST00000522090
10083	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_918	ORF1,ENST00000523073
10084	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_919	ORF1,ENST00000434581
10085	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_920	ORF1,ENST00000519780
10086	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_921	ORF1,ENST00000522090
10087	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_922	ORF1,ENST00000523073
10088	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_923	ORF1,ENST00000434581
10089	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_924	ORF1,ENST00000519780

10090	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_925	ORF1,ENST00000522090
10091	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_926	ORF1,ENST00000523073
10092	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_927	ORF1,ENST00000434581
10093	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_928	ORF1,ENST00000519780
10094	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_929	ORF1,ENST00000522090
10095	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_930	ORF1,ENST00000523073
10096	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_931	ORF1,ENST00000434581
10097	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_932	ORF1,ENST00000519780
10098	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_933	ORF1,ENST00000522090
10099	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_934	ORF1,ENST00000523073
10100	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_935	ORF1,ENST00000434581
10101	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_936	ORF1,ENST00000519780
10102	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_937	ORF1,ENST00000522090
10103	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_938	ORF1,ENST00000523073
10104	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_939	ORF1,ENST00000434581
10105	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_940	ORF1,ENST00000519780
10106	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_941	ORF1,ENST00000522090
10107	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_942	ORF1,ENST00000523073
10108	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_943	ORF1,ENST00000434581
10109	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_944	ORF1,ENST00000519780
10110	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_945	ORF1,ENST00000522090
10111	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_946	ORF1,ENST00000523073
10112	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_947	ORF1,ENST00000434581
10113	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_948	ORF1,ENST00000519780
10114	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_949	ORF1,ENST00000522090
10115	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_950	ORF1,ENST00000523073
10116	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_951	ORF1,ENST00000434581
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10118	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_953	ORF1,ENST00000522090
10119	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_954	ORF1,ENST00000523073
10120	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_955	ORF1,ENST00000434581
10121	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_956	ORF1,ENST00000519780
10122	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_957	ORF1,ENST00000522090
10123	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_958	ORF1,ENST00000523073
10124	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_959	ORF1,ENST00000519780
10125	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_960	ORF1,ENST00000522090
10126	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_961	ORF1,ENST00000523073
10127	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_962	ORF1,ENST00000434581
10128	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_963	ORF1,ENST00000434581
10129	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_964	ORF1,ENST00000519780
10130	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_965	ORF1,ENST00000522090
10131	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_966	ORF1,ENST00000523073
10132	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_967	ORF1,ENST00000434581
10133	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_968	ORF1,ENST00000519780
10134	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_969	ORF1,ENST00000522090
10135	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_970	ORF1,ENST00000523073
10136	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_971	ORF1,ENST00000434581
10137	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_972	ORF1,ENST00000519780
10138	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_973	ORF1,ENST00000522090
10139	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_974	ORF1,ENST00000523073
10140	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_975	ORF1,ENST00000434581
10141	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_976	ORF1,ENST00000519780
10142	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_977	ORF1,ENST00000522090
10143	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_978	ORF1,ENST00000523073
10144	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_979	ORF1,ENST00000434581
10145	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_980	ORF1,ENST00000519780
10146	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_981	ORF1,ENST00000522090
10147	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_982	ORF1,ENST00000523073
10148	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_983	ORF1,ENST00000434581
10149	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_984	ORF1,ENST00000519780
10150	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_985	ORF1,ENST00000522090
10151	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_986	ORF1,ENST00000523073
10152	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_987	ORF1,ENST00000434581

10153	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_988	ORF1,ENST00000519780
10154	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_989	ORF1,ENST00000522090
10155	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_990	ORF1,ENST00000523073
10156	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_991	ORF1,ENST00000434581
10157	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_992	ORF1,ENST00000519780
10158	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_993	ORF1,ENST00000522090
10159	chr8:56661201:->chr8:56657680:- | chr8:56663523:->chr8:56661447:-	metafusion_994	ORF1,ENST00000523073
10160	chrX:9715893:->chrX:9714193:- | chrX:9716614:->chrX:9715942:-	metafusion_995	ORF1,ENST00000380929
10161	chrX:9715893:->chrX:9714193:- | chrX:9716614:->chrX:9715942:-	metafusion_996	ORF1,ENST00000431126
10162	chrX:9715893:->chrX:9714193:- | chrX:9716614:->chrX:9715942:-	metafusion_997	ORF1,ENST00000447366
10163	chrX:9715893:->chrX:9714193:- | chrX:9716614:->chrX:9715942:-	metafusion_998	ORF1,ENST00000467482

1	2	3	4	5	6	7	8	9	10	11	12	13
chr1:109325328:+>chr1:109330062:+	chr1	109325271	109325328	ENST00000370008	+	chr1	109330062	109330156	+	01	321	CCLE-LUSC
chr1:109446876:+>chr1:109452236:+	chr1	109446747,1	109446876	ENST00000406462,ENST00000264126	+	chr1	109452236	109452244	+	2	397	CCLE-COAD,CCLE-LUSC,CCLE-SARC
chr1:109816292:+>chr1:109893374:+	chr1	109816058	109816292	ENST00000271332	+	chr1	109893374	109893480	+	3	2914	CCLE-LUSC,CCLE-PAAD
chr1:112240119:+>chr1:112243637:+	chr1	112240063,112240063,112240063,112240063,112240063	112240119	ENST00000356415,ENST00000433097,ENST00000436150,ENST00000369709,ENST00000545460	+	chr1	112243637	112244225	+	4	61	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM
chr1:114123283:+>chr1:114124745:+	chr1	114123164,114123164,114123164,114123164,114123164	114123283	ENST00000369617,ENST00000307546,ENST00000369615,ENST00000369611	+	chr1	114124745	114125194	+	5	184	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr1:114137182:+>chr1:114153284:+	chr1	114137103,114137103,114137103,114137103,114137103	114137182	ENST00000369617,ENST00000307546,ENST00000369615,ENST00000369611	+	chr1	114153284	114153319	+	6	339	CCLE-BRCA,CCLE-ESCA,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr1:114196640:+>chr1:114198340:+	chr1	114196452,114196452,114196452,114196452,114196452	114196640	ENST00000369617,ENST00000307546,ENST00000369615,ENST00000369611	+	chr1	114198340	114198489	+	7-8	901,876	CCLE-LUSC
chr1:116202394:+>chr1:116205953:+	chr1	116202262,116202262,116202262	116202394	ENST00000355485,ENST00000310260,ENST00000369509	+	chr1	116205953	116206170	+	9	68	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr1:116206889:+>chr1:116207326:+	chr1	116206282,116206282,116206282,116206282,116206282	116206889	ENST00000355485,ENST00000369510,ENST00000310260,ENST00000369509	+	chr1	116207326	116207360	+	10-11	268,27	CCLE-LCLL,CCLE-LUSC
chr1:116228148:+>chr1:116232464:+	chr1	116227914,116227914,116227914,116227914,116227914	116228148	ENST00000355485,ENST00000369510,ENST00000310260,ENST00000369509	+	chr1	116232464	116232588	+	12-13	436,438	CCLE-COAD
chr1:116927464:+>chr1:116928351:+	chr1	116927405,116927405,116927405,116927405,116927405	116927464	ENST00000418797,ENST00000295598,ENST00000537345,ENST00000369494,ENST00000369496	+	chr1	116928351	116928466	+	14-16	61,3	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr1:116939356:+>chr20:50669324:-	chr1	116939220,116939220,116939220	116939356	ENST00000295598,ENST00000537345,ENST00000369496	+	chr20	50669324	50669654	-	17-19	657,626	CCLE-BRCA
chr1:120572529:->chr1:120570675:-	chr1	120572529,1	120572529	ENST00000256646,ENST00000602566	-	chr1	120570675	120570678	-	20-21	12,51	CCLE-LUSC
chr1:12123718:+>chr1:12132217:+	chr1	12123656,12	12123718	ENST00000263932,ENST00000514649	+	chr1	12132217	12132312	+	22-22	21	CCLE-DLBC,CCLE-LCLL
chr1:12175786:+>chr1:12181788:+	chr1	12175634,12	12175786	ENST00000263932,ENST00000417814	+	chr1	12181788	12182242	+	23-24	204,315	CCLE-DLBC,CCLE-LCLL
chr1:12262228:+>chr1:12262564:+	chr1	12262024	12262228	ENST00000376259	+	chr1	12262564	12262676	+	25-25	368	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr1:13839458:->chr1:13832360:-	chr1	13839458	13839458	ENST00000376085	-	chr1	13832360	13832493	-	26-26	210	CCLE-MM
chr1:13940900:+>chr1:13965666:+	chr1	13940795,13940795,13940795,13940795,13940795,13940795,13940795	13940900	ENST00000294489,ENST00000376057,ENST00000510906,ENST00000509009,ENST00000376061,ENST00000513143,ENST00000487038,ENST00000475043	+	chr1	13965666	13966007	+	27-30	153,234,116,225	CCLE-HNSC,CCLE-OV
chr1:13940906:+>chr1:13965666:+	chr1	13940795,13940795,13940795,13940795,13940795,13940795	13940906	ENST00000294489,ENST00000510906,ENST00000509009,ENST00000376061,ENST00000513143,ENST00000487038	+	chr1	13965666	13966007	+	31-34	155,236,118,227	CCLE-ESCA,CCLE-LUSC,CCLE-THCA
chr1:157745565:->chr1:157740791:-	chr1	157745565,157745565,157745565	157745565	ENST00000361516,ENST00000368181,ENST00000392274	-	chr1	157740791	157740984	-	35-35	17	CCLE-DLBC
chr1:157963518:+>chr1:158033547:+	chr1	157963467,157963467,157963467	157963518	ENST00000368173,ENST00000392272,ENST00000359209,ENST00000416935	+	chr1	158033547	158033806	+	36-36	17	CCLE-LGG,CCLE-SARC
chr1:158056536:+>chr1:158057068:+	chr1	158056386,158056386,158056386,158056482	158056536	ENST00000368173,ENST00000359209,ENST00000416935,ENST00000368172	+	chr1	158057068	158057101	+	37-39	220,120,18	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr1:159906189:->chr1:159905530:-	chr1	159906189,2	159906189	ENST00000361509,ENST00000368094	-	chr1	159905530	159905667	-	40-40	224	CCLE-LUSC
chr1:160681472:->chr1:160670007:-	chr1	160681472,2	160681472	ENST00000368046,ENST00000368045	-	chr1	160670007	160673189	-	41-41	27	CCLE-DLBC

chr1:161275898:->chr1:161251824:-	chr1	161275898,161275898,161275898,161275898	161275898	ENST00000463290,ENST00000533357,ENST00000360451,ENST00000491222,ENST00000336559	-	chr1	161251824	161252231	-	42-44	215,19,225	CCLE-LCLL
chr1:161275898:->chr1:161251827:-	chr1	161275898,161275898,161275898,161275898	161275898	ENST00000463290,ENST00000533357,ENST00000360451,ENST00000491222,ENST00000336559	-	chr1	161251827	161252231	-	45-47	215,19,225	CCLE-DLBC
chr1:161275898:->chr1:161252001:-	chr1	161275898,161275898,161275898,161275898	161275898	ENST00000463290,ENST00000533357,ENST00000360451,ENST00000491222,ENST00000336559	-	chr1	161252001	161252231	-	48-50	215,19,225	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-PAAD
chr1:161275898:->chr1:161274131:-	chr1	161275898,161275898,161275898,161275898	161275898	ENST00000463290,ENST00000533357,ENST00000360451,ENST00000491222,ENST00000336559	-	chr1	161274131	161274269	-	51-53	215,19,225	CCLE-DLBC,CCLE-LCLL
chr1:161483722:+>chr1:161569358:+	chr1	161483685,161483685,161483688	161483722	ENST00000367972,ENST00000271450,ENST00000459885	+	chr1	161569358	161569484	+	54-56	260,259,12	CCLE-SKCM
chr1:162688935:+>chr1:162715802:+	chr1	162688854,162688854,162688854,162688854	162688935	ENST00000446985,ENST00000415555,ENST00000367922,ENST00000367921	+	chr1	162715802	162721945	+	57-57	27	CCLE-SKCM
chr1:168059802:->chr1:168059333:-	chr1	168059802,168059802,168059802,168059802,168059802,168059802	168059802	ENST00000367838,ENST00000271357,ENST00000367836,ENST00000539777,ENST00000361697,ENST00000537209,ENST00000546300,ENST00000367835	-	chr1	168059333	168059474	-	58-62	323,287,421,401,269	CCLE-LUSC
chr1:17742976:->chr1:17741173:-	chr1	17742976,18	17742976	ENST00000375436,ENST00000375433	-	chr1	17741173	17741415	-	63-63	342	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr1:180849433:+>chr1:180864082:+	chr1	180849212,2	180849433	ENST00000367590,ENST00000367589	+	chr1	180864082	180866142	+	64-65	611,676	CCLE-COAD,CCLE-LUSC
chr1:196577345:->chr1:196536832:-	chr1	196577345,196577345,196577345,196577345	196577345	ENST00000367433,ENST00000367431,ENST00000609185,ENST00000294725	-	chr1	196536832	196536949	-	66-66	31	CCLE-LGG,CCLE-LUSC
chr1:197237612:+>chr1:197265983:+	chr1	197237543,197237543,197237543,197237543	197237612	ENST00000538660,ENST00000367400,ENST00000484075,ENST00000367399	+	chr1	197265983	197266132	+	67-67	23	CCLE-DLBC,CCLE-LGG,CCLE-LUSC
chr1:198608471:+>chr1:198641024:+	chr1	198608399,198608405,198608405,198608405,198608399,198608399,198608399,198608399,198608399,198608399	198608471	ENST00000367379,ENST00000598951,ENST00000352140,ENST00000367376,ENST00000594404,ENST00000530727,ENST00000442510,ENST00000367367,ENST00000348564,ENST00000367364,ENST00000413409,ENST00000529828,ENST00000418674	+	chr1	198641024	198641049	+	68-69	24,22	CCLE-DLBC,CCLE-LCLL
chr1:198698300:+>chr1:198699460:+	chr1	198698266,198698266,198698266,198698266,198698266,198698266	198698300	ENST00000352140,ENST00000367376,ENST00000594404,ENST00000530727,ENST00000442510,ENST00000367367,ENST00000348564,ENST00000529828	+	chr1	198699460	198699632	+	70-77	460,573,621,507,555,458,571,619	CCLE-DLBC,CCLE-LCLL
chr1:198698300:+>chr1:198699529:+	chr1	198698266,198698266,198698266,198698266,198698266,198698266	198698300	ENST00000352140,ENST00000367376,ENST00000594404,ENST00000530727,ENST00000442510,ENST00000367367,ENST00000348564,ENST00000529828	+	chr1	198699529	198699632	+	78-85	460,573,621,507,555,458,571,619	CCLE-DLBC
chr1:198704381:+>chr1:198708193:+	chr1	198704256,198704256,198704256,198704256,198704256,198704256	198704381	ENST00000352140,ENST00000367376,ENST00000594404,ENST00000442510,ENST00000367367,ENST00000348564,ENST00000529828	+	chr1	198708193	198709424	+	86-92	640,753,801,735,638,751,799	CCLE-DLBC,CCLE-LCLL

chr1:204944546:+>chr1:204944761:+	chr1	204944399,204944399,204944399,204944399,204944399,204944399,204944399,204944399,204944399,204944399,204944399,204944399,204944399,204944399,204944399	204944546	ENST00000338515,ENST00000338586,ENST00000339876,ENST00000360049,ENST00000367169,ENST00000367170,ENST00000367171,ENST00000367172,ENST00000539706,ENST00000403080,ENST00000404076,ENST00000401399,ENST00000404907,ENST00000513543,ENST00000430393,ENST00000367173	+	chr1	204944761	204944887	+	93-99	555,568,579,562,538	CCLE-LUSC
chr1:205886411:->chr1:205859514:-	chr1	205886411,205886411,205886411,205886411	205886411	ENST00000340781,ENST00000367135,ENST00000367134	-	chr1	205859514	205859552	-	100-100	776	CCLE-LCLL,CCLE-LUSC
chr1:207512762:+>chr1:207546114:+	chr1	207512742,207512742,207512742,207512742,207512742,207512742,207512742,207512742	207512762	ENST00000367064,ENST00000367063,ENST00000391921,ENST00000314754,ENST00000367062,ENST00000367065,ENST00000391920,ENST00000482390	+	chr1	207546114	207546199	+	101-102	296,36	CCLE-BRCA,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr1:207640257:+>chr1:207641784:+	chr1	207639871,207639871,207639871,207639871	207640257	ENST00000367057,ENST00000367058,ENST00000367059,ENST00000458541	+	chr1	207641784	207641809	+	103-103	148	CCLE-DLBC
chr1:207644844:+>chr1:207645199:+	chr1	207644768,207644768,207644768	207644844	ENST00000367057,ENST00000367058,ENST00000367059	+	chr1	207645199	207645272	+	104-104	523	CCLE-DLBC
chr1:210948690:->chr1:210886834:-	chr1	210948690,2	210948690	ENST00000271751,ENST00000367007	-	chr1	210886834	210886880	-	105-106	677,704	CCLE-LUSC
chr1:212588064:->chr1:212584410:-	chr1	212588064,2	212588064	ENST00000261455,ENST00000535273	-	chr1	212584410	212584509	-	107-107	12	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-STAD
chr1:214575028:->chr1:214572408:-	chr1	214575028	214575028	ENST00000366956	-	chr1	214572408	214572409	-	108-108	223	CCLE-ESCA
chr1:21548240:->chr1:21547996:-	chr1	21548240,21548240,21548240,21548240	21548240	ENST00000415912,ENST00000357071,ENST00000374893,ENST00000264205	-	chr1	21547996	21548104	-	109-112	709,696,700,712	CCLE-BRCA,CCLE-LIHC,CCLE-LUSC
chr1:21560051:->chr1:21558400:-	chr1	21560051,21560051,21560051,21560051,21560051	21560051	ENST00000415912,ENST00000357071,ENST00000374893,ENST00000436918,ENST00000264205	-	chr1	21558400	21558406	-	113-116	553,540,544,556	CCLE-CESC,CCLE-PAAD
chr1:216390729:->chr1:216390645:-	chr1	216390729,216390729,216390729	216390729	ENST00000307340,ENST00000366943,ENST00000366942	-	chr1	216390645	216390703	-	117-117	1052	CCLE-LUSC
chr1:223959941:+>chr1:223961283:+	chr1	223959883,2	223959941	ENST00000433674,ENST00000295006	+	chr1	223961283	223961409	+	118-119	693,615	CCLE-KIRC,CCLE-LUSC
chr1:224872545:+>chr1:224908832:+	chr1	224872498	224872545	ENST00000272133	+	chr1	224908832	224908933	+	120-120	66	CCLE-LGG,CCLE-SKCM
chr1:226036193:->chr1:226028888:-	chr1	226036193	226036193	ENST00000366835	-	chr1	226028888	226028980	-	121-121	750	CCLE-MM
chr1:226036193:->chr1:226035088:-	chr1	226036193	226036193	ENST00000366835	-	chr1	226035088	226035228	-	122-122	750	CCLE-LIHC
chr1:228511307:+>chr1:228511760:+	chr1	228511029,228511029,228511029,228511029,228511029	228511307	ENST00000284548,ENST00000570156,ENST00000366709,ENST00000366707,ENST00000422127	+	chr1	228511760	228512407	+	123-126	6174,5217,2851,2336	CCLE-CESC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC
chr1:241094017:->chr1:241039362:-	chr1	241094017,241094017,241094017,241094017,241094017,241094017,241094017	241094017	ENST00000331110,ENST00000366563,ENST00000366564,ENST00000366565,ENST00000446183,ENST00000366562,ENST00000407727	-	chr1	241039362	241039597	-	127-129	44,128,102	CCLE-LUSC
chr1:241518999:->chr1:241478935:-	chr1	241518999,241518999,241518999,241518999,241518999,241518999	241518999	ENST00000348120,ENST00000366563,ENST00000366564,ENST00000366565,ENST00000366562,ENST00000401882,ENST00000407727	-	chr1	241478935	241479306	-	130-130	26	CCLE-BRCA,CCLE-LUSC
chr1:241803184:->chr1:241776670:-	chr1	241803184,2	241803184	ENST00000366554,ENST00000331838	-	chr1	241776670	241776737	-	131-131	124	CCLE-LUSC
chr1:2434349:+>chr1:2435361:+	chr1	2433551,243	2434349	ENST00000449969,ENST00000288766	+	chr1	2435361	2435377	+	132-133	1126,441	CCLE-PAAD
chr1:2492153:+>chr1:2492884:+	chr1	2492063,2492063,2492063,2492063,2492063,2492063	2492153	ENST00000426449,ENST00000434817,ENST00000435221,ENST00000451778,ENST00000409119,ENST00000355716	+	chr1	2492884	2492927	+	134-134	183	CCLE-SKCM
chr1:2494335:+>chr1:2508457:+	chr1	2494304	2494335	ENST00000355716	+	chr1	2508457	2508463	+	135-135	242	CCLE-SKCM

chr1:25140710:+>chr1:25153084:+	chr1	25140585,25	25140710	ENST00000374379, ENST00000488683	+	chr1	25153084	25153121	+	136-136	102	CCLE-LUSC,CCLE-OV
chr1:25633220:+>chr1:25638826:+	chr1	25633087,25633087,25633087,25633087,25633087	25633220	ENST00000328664, ENST00000342055, ENST00000357542, ENST00000423810, ENST00000568195	+	chr1	25638826	25638959	+	137-137	357	CCLE-LCLL
chr1:25634307:+>chr1:25638826:+	chr1	25634138,26	25634307	ENST00000342055, ENST00000423810	+	chr1	25638826	25638959	+	138-138	414	CCLE-LCLL
chr1:27432376:->chr1:27430321:-	chr1	27432376,27432376,27432193	27432376	ENST00000263980, ENST00000545949, ENST00000374086	-	chr1	27430321	27430428	-	139-140	156,495	CCLE-DLBC
chr1:27480474:->chr1:27465146:-	chr1	27480474,27480474,27480474	27480474	ENST00000263980, ENST00000374086, ENST00000374084	-	chr1	27465146	27465478	-	141-141	117	CCLE-BLCA,CCLE-LUSC,CCLE-PRAD
chr1:27480474:->chr1:27465188:-	chr1	27480474,27480474,27480474	27480474	ENST00000263980, ENST00000374086, ENST00000374084	-	chr1	27465188	27465478	-	142-142	117	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr1:28290204:+>chr1:28292230:+	chr1	28290008	28290204	ENST00000373884	+	chr1	28292230	28292287	+	143-143	163	CCLE-LIHC,CCLE-LUSC
chr1:33547955:+>chr1:33548712:+	chr1	33547851,33547851,33547851,33547851,33547851	33547955	ENST00000358680, ENST00000294517, ENST00000398167, ENST00000373443, ENST00000373440, ENST00000373441	+	chr1	33548712	33548873	+	144-144	35	CCLE-BRCA
chr1:34291298:->chr1:34287530:-	chr1	34291298,34	34291298	ENST00000241312, ENST00000373381	-	chr1	34287530	34287620	-	145-146	370,33	CCLE-LGG
chr1:35369878:->chr1:35366461:-	chr1	35369878,35	35369878	ENST00000235180, ENST00000373347	-	chr1	35366461	35367016	-	147-147	369	CCLE-LUSC
chr1:36019951:->chr1:35991724:-	chr1	36019951,36019951,36019951,36019951,36019951,36019951,36019951	36019951	ENST00000325722, ENST00000426982, ENST00000440579, ENST00000482929, ENST00000478463, ENST00000470388, ENST00000469892, ENST00000494948	-	chr1	35991724	35991857	-	148-148	47	CCLE-ESCA,CCLE-LUSC,CCLE-OV,CCLE SKCM
chr1:36945034:->chr1:36941568:-	chr1	36945034,36945034,36945034,36945034,36945034,36945034,36945034,36945034,36945033	36945034	ENST00000373103, ENST00000373104, ENST00000373106, ENST00000361632, ENST00000331941, ENST00000338937, ENST00000418048, ENST00000440588, ENST00000533491	-	chr1	36941568	36941649	-	149-149	21	CCLE-LCLL
chr1:36945034:->chr1:36943278:-	chr1	36945034,36945034,36945034,36945034,36945034,36945034,36945034,36945034,36945033	36945034	ENST00000373103, ENST00000373104, ENST00000373106, ENST00000361632, ENST00000331941, ENST00000338937, ENST00000418048, ENST00000440588, ENST00000533491	-	chr1	36943278	36943318	-	150-150	21	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr1:37499595:->chr1:37486181:-	chr1	37499595,37	37499595	ENST00000373091, ENST00000373093	-	chr1	37486181	37486281	-	151-151	38	CCLE-LUSC
chr1:39696915:+>chr1:39702858:+	chr1	39696854,39696854,39696854,39696854,39696854,39696854,39696854,39696854,39696854	39696915	ENST00000545844, ENST00000567887, ENST00000372915, ENST00000361689, ENST00000317713, ENST00000539005, ENST00000524432, ENST00000564288, ENST00000494012, ENST00000536367	+	chr1	39702858	39703129	+	152-154	52,57,94	CCLE-LCLL
chr1:39785419:+>chr1:39786400:+	chr1	39785336,39785336,39785336,39785336,39785336,39785336,39785336,39785336,39785336	39785419	ENST00000545844, ENST00000567887, ENST00000372915, ENST00000361689, ENST00000317713, ENST00000539005, ENST00000524432, ENST00000564288, ENST00000530262, ENST00000372925	+	chr1	39786400	39786656	+	155-160	1306,1497,1343,1380,1348,482	CCLE-LUSC
chr1:39824936:+>chr1:39826227:+	chr1	39824813,39824813,39824813,39824813,39824813,39824813,39824813,39824813,39824813	39824936	ENST00000545844, ENST00000567887, ENST00000372915, ENST00000361689, ENST00000317713, ENST00000539005, ENST00000564288, ENST00000372925, ENST00000289893	+	chr1	39826227	39826340	+	161-166	4081,2521,4118,4086,2019,1153	CCLE-LUSC

chr1:41285932:+>chr1:41287805:+	chr1	41285837,41285837,41285837	41285932	ENST00000347132,ENST00000509682,ENST00000443478	+	chr1	41287805	41287831	+	167-168	347,243	CCLE-COAD,CCLE-LCLL,CCLE-LUSC
chr1:41288074:+>chr1:41292043:+	chr1	41287986,41287986,41287986	41288074	ENST00000347132,ENST00000509682,ENST00000443478	+	chr1	41292043	41292152	+	169-170	376,272	CCLE-LUSC
chr1:43766800:+>chr1:43766882:+	chr1	43766743,43766743,43766743	43766800	ENST00000372476,ENST00000538015,ENST00000441333	+	chr1	43766882	43766969	+	171-171	19	CCLE-OV
chr1:46032692:+>chr1:46381107:+	chr1	46032541,46032541,46032541,46032541,46032541	46032692	ENST00000372070,ENST00000434299,ENST00000481885,ENST00000351829,ENST00000471651	+	chr1	46381107	46381406	+	172-172	118	CCLE-LUSC
chr1:46425149:+>chr1:46426062:+	chr1	46425058,46425058,46425058	46425149	ENST00000372009,ENST00000361297,ENST00000372008	+	chr1	46426062	46426203	+	173-174	82,197	CCLE-BRCA
chr1:46476611:+>chr1:46480327:+	chr1	46476402,46	46476611	ENST00000361297,ENST00000372008	+	chr1	46480327	46483572	+	175-176	281,396	CCLE-LUSC
chr1:53716362:->chr1:53715532:-	chr1	53716362,53716362,53716362,53716362,53716362	53716362	ENST00000306052,ENST00000529670,ENST00000371454,ENST00000465675,ENST00000354412,ENST00000347547	-	chr1	53715532	53715761	-	177-181	892,688,722,445,109	CCLE-COAD,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr1:53746259:->chr1:53744116:-	chr1	53746259,53746259,53746259,53746259,53746259	53746259	ENST00000306052,ENST00000371454,ENST00000354412,ENST00000480045,ENST00000347547	-	chr1	53744116	53744258	-	182-182	165	CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-MM
chr1:53792545:->chr1:53757975:-	chr1	53792545,53792545,53792545,53792545,53792545	53792545	ENST00000306052,ENST00000371454,ENST00000354412,ENST00000480045,ENST00000347547	-	chr1	53757975	53758099	-	183-183	81	CCLE-ESCA,CCLE-LUSC,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr1:53792545:->chr1:53791209:-	chr1	53792545,53792545,53792545,53792545,53792545	53792545	ENST00000306052,ENST00000371454,ENST00000354412,ENST00000480045,ENST00000347547	-	chr1	53791209	53791216	-	184-184	81	CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr1:6154545:+>chr1:6154804:+	chr1	6154460,6154460,6154460,6154460,6154460,6154460,6154460,6154460,6154460,6154460	6154545	ENST00000378097,ENST00000378092,ENST00000389632,ENST00000428161,ENST00000602612,ENST00000341524,ENST00000352527,ENST00000164247,ENST00000378083,ENST00000458166	+	chr1	6154804	6154904	+	185-188	129,244,182,196	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr1:67672738:+>chr1:67673324:+	chr1	67672593,68	67672738	ENST00000347310,ENST00000371002	+	chr1	67673324	67673457	+	189-189	266	CCLE-DLBC
chr1:67721610:+>chr1:67731444:+	chr1	67721520,67721520,67721520	67721610	ENST00000347310,ENST00000425614,ENST00000395227	+	chr1	67731444	67731568	+	190-192	158,413,175	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr1:67721610:+>chr1:67734104:+	chr1	67721520,67721520,67721520	67721610	ENST00000347310,ENST00000425614,ENST00000395227	+	chr1	67734104	67734272	+	193-195	158,413,175	CCLE-LCLL
chr1:72163691:->chr1:72136431:-	chr1	72163691,72	72163691	ENST00000357731,ENST00000306821	-	chr1	72136431	72136573	-	196-197	222,94	CCLE-BLCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr1:8031023:+>chr1:8031711:+	chr1	8030954,8030954,8030954,8030954,8030954,8030954	8031023	ENST00000493373,ENST00000338639,ENST00000493678,ENST00000377493,ENST00000377491,ENST00000377488,ENST00000469225	+	chr1	8031711	8032022	+	198-200	68,107,87	CCLE-LUSC,CCLE-PAAD
chr1:84544054:+>chr1:84596237:+	chr1	84544009,85	84544054	ENST00000370689,ENST00000370688	+	chr1	84596237	84596418	+	201-201	15	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr1:85331068:->chr1:85263284:-	chr1	85331068,85	85331068	ENST00000440886,ENST00000370611	-	chr1	85263284	85263376	-	202-202	245	CCLE-HNSC
chr1:85462479:->chr1:85458992:-	chr1	85462479,85	85462479	ENST00000370608,ENST00000463065	-	chr1	85458992	85459302	-	203-203	25	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr1:85462479:->chr1:85459656:-	chr1	85462479,85	85462479	ENST00000370608,ENST00000463065	-	chr1	85459656	85461085	-	204-204	25	CCLE-DLBC
chr1:8930511:->chr1:8928603:-	chr1	8930511,893	8930511	ENST00000234590,ENST00000497492	-	chr1	8928603	8928730	-	205-205	80	CCLE-BLCA,CCLE-STAD

chr1:8930511:->chr1:8928636:-	chr1	8930511,893	8930511	ENST00000234590, ENST00000497492	-	chr1	8928636	8928730	-	206-206	80	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr1:90050348:+>chr1:90053872:+	chr1	90048210,90048210,90048210	90050348	ENST00000358200, ENST00000330947, ENST00000439853	+	chr1	90053872	90054017	+	207-207	713	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr1:90152170:+>chr1:90168176:+	chr1	90152033,90152033,90152033	90152170	ENST00000370454, ENST00000370453, ENST00000482063	+	chr1	90168176	90168323	+	208-208	46	CCLE-LUSC
chr1:9815172:->chr1:9814158:-	chr1	9815172,9815172,9815172	9815172	ENST00000377298, ENST00000361311, ENST00000377288	-	chr1	9814158	9814164	-	209-210	146,136	CCLE-DLBC,CCLE-LUSC
chr10:104164340:->chr10:104163794:-	chr10	104164340,1	104164340	ENST00000020673, ENST00000406432	-	chr10	104163794	104163824	-	211-211	900	CCLE-LGG,CCLE-LUSC
chr10:105809167:->chr10:105808704:-	chr10	105809167,1	105809167	ENST00000353479, ENST00000369733	-	chr10	105808704	105808745	-	212-212	742	CCLE-HNSC
chr10:124177484:+>chr10:124180728:+	chr10	124177416,124177416,124177416,124177416,124177416,124177416	124177484	ENST00000368990, ENST00000368988, ENST00000368989, ENST00000538022, ENST00000392799, ENST00000433307	+	chr10	124180728	124181097	+	213-213	227	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr10:13175581:+>chr10:13200398:+	chr10	13175502,13175502,13175502,13175502,13175502	13175581	ENST00000263036, ENST00000378764, ENST00000378757, ENST00000378748, ENST00000378752, ENST00000378747	+	chr10	13200398	13200423	+	214-215	537,531	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-KIRC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr10:13375817:->chr10:13373281:-	chr10	13375817,13375817,13375817	13375817	ENST00000327347, ENST00000378614, ENST00000545675, ENST00000537130	-	chr10	13373281	13373393	-	216-217	119,186	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr10:134464009:+>chr10:134488731:+	chr10	134463922,134463922,134463922	134464009	ENST00000368594, ENST00000368593, ENST00000342652	+	chr10	134488731	134488991	+	218-219	102,74	CCLE-LCLL
chr10:134563349:+>chr10:134570907:+	chr10	134563275,1	134563349	ENST00000368594, ENST00000368593	+	chr10	134570907	134571113	+	220-220	301	CCLE-LGG,CCLE-LUSC
chr10:15614210:->chr10:15610215:-	chr10	15614210	15614210	ENST00000378076	-	chr10	15610215	15610221	-	221-221	879	CCLE-LCLL,CCLE-LGG,CCLE-MM
chr10:15713602:->chr10:15712406:-	chr10	15713602	15713602	ENST00000378076	-	chr10	15712406	15712464	-	222-222	282	CCLE-COAD,CCLE-MM
chr10:16940995:->chr10:16938410:-	chr10	16940995	16940995	ENST00000377833	-	chr10	16938410	16939908	-	223-223	2866	CCLE-SKCM
chr10:17061832:->chr10:17043177:-	chr10	17061832	17061832	ENST00000377833	-	chr10	17043177	17043587	-	224-224	1389	CCLE-OV
chr10:18439904:+>chr10:18606833:+	chr10	18439812,18439812,18439812,18439812,18439812,18439812	18439904	ENST00000324631, ENST00000352115, ENST00000377328, ENST00000282343, ENST00000377331	+	chr10	18606833	18608535	+	225-226	43,71	CCLE-SARC
chr10:18807897:+>chr10:18808646:+	chr10	18807839,18807839,18807839,18807839,18807839,18807839,18807839,18807839	18807897	ENST00000324631, ENST00000352115, ENST00000282343, ENST00000377331, ENST00000396576, ENST00000377319, ENST00000377329, ENST00000377315	+	chr10	18808646	18810005	+	227-234	266,260,286,262,259,221,314,290	CCLE-LIHC,CCLE-LUSC
chr10:26785320:+>chr10:26785837:+	chr10	26785233,27	26785320	ENST00000376236, ENST00000356785	+	chr10	26785837	26786135	+	235-235	53	CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr10:26802589:+>chr10:26814371:+	chr10	26802468	26802589	ENST00000376236	+	chr10	26814371	26814430	+	236-236	271	CCLE-LCLL
chr10:27798859:+>chr10:27802892:+	chr10	27798804,27798804,27798804,27798804	27798859	ENST00000356940, ENST00000535776, ENST00000375802, ENST00000423465	+	chr10	27802892	27803663	+	237-238	41,125	CCLE-LIHC,CCLE-LUSC,CCLE-SKCM
chr10:27798859:+>chr10:27802895:+	chr10	27798804,27798804,27798804,27798804	27798859	ENST00000356940, ENST00000535776, ENST00000375802, ENST00000423465	+	chr10	27802895	27803663	+	239-240	41,125	CCLE-BRCA,CCLE-LUSC
chr10:27798859:+>chr10:27802984:+	chr10	27798804,27798804,27798804,27798804	27798859	ENST00000356940, ENST00000535776, ENST00000375802, ENST00000423465	+	chr10	27802984	27803663	+	241-242	41,125	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr10:27798859:+>chr10:27810851:+	chr10	27798804,27798804,27798804,27798804	27798859	ENST00000356940, ENST00000535776, ENST00000375802, ENST00000423465	+	chr10	27810851	27810972	+	243-244	41,125	CCLE-LUSC
chr10:27798859:+>chr10:27855761:+	chr10	27798804,27798804,27798804,27798804	27798859	ENST00000356940, ENST00000535776, ENST00000375802, ENST00000423465	+	chr10	27855761	27855937	+	245-246	41,125	CCLE-BRCA,CCLE-DLBC,CCLE-LUSC,CCLE-STAD

chr10:27798859:+>chr10:27867300:+	chr10	27798804,27798804,27798804,27798804	27798859	ENST00000356940,ENST00000535776,ENST00000375802,ENST00000423465	+	chr10	27867300	27867461	+	247-248	41,125	CCLE-ESCA
chr10:27798859:+>chr10:27872796:+	chr10	27798804,27798804,27798804,27798804	27798859	ENST00000356940,ENST00000535776,ENST00000375802,ENST00000423465	+	chr10	27872796	27872976	+	249-250	41,125	CCLE-LUSC
chr10:27826957:+>chr10:27855761:+	chr10	27826805,27826805,27826805	27826957	ENST00000356940,ENST00000535776,ENST00000375802	+	chr10	27855761	27855937	+	251-253	199,135,154	CCLE-LUSC
chr10:29769466:->chr10:29764370:-	chr10	29769466,29769466,29769466,29769466,29769461	29769466	ENST00000375400,ENST00000375398,ENST00000355867,ENST00000535393,ENST00000538146	-	chr10	29764370	29764574	-	254-257	706,1366,1792,584	CCLE-BRCA,CCLE-CESC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr10:29769466:->chr10:29764420:-	chr10	29769466,29769466,29769466,29769466,29769461	29769466	ENST00000375400,ENST00000375398,ENST00000355867,ENST00000535393,ENST00000538146	-	chr10	29764420	29764574	-	258-261	706,1366,1792,584	CCLE-CESC,CCLE-LUSC,CCLE-PAAD
chr10:33197296:->chr10:33120746:-	chr10	33197296,33197296,33197296,33197296,33197296	33197296	ENST00000423113,ENST00000396033,ENST00000302278,ENST00000374956,ENST00000488427	-	chr10	33120746	33121049	-	262-263	777,46	CCLE-COAD
chr10:33224420:->chr10:33222511:-	chr10	33224420,33224420,33224420,33224420,33224420,33224420,33224420,33224420,33224420,33224420	33224420	ENST00000423113,ENST00000396033,ENST00000302278,ENST00000374956,ENST00000480226,ENST00000488494,ENST00000534049,ENST00000437302,ENST00000475184,ENST00000528877,ENST00000417122,ENST00000414670	-	chr10	33222511	33223103	-	264-264	22	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr10:33224420:->chr10:33222611:-	chr10	33224420,33224420,33224420,33224420,33224420,33224420,33224420,33224420,33224420,33224420	33224420	ENST00000423113,ENST00000396033,ENST00000302278,ENST00000374956,ENST00000480226,ENST00000488494,ENST00000534049,ENST00000437302,ENST00000475184,ENST00000528877,ENST00000417122,ENST00000414670	-	chr10	33222611	33223103	-	265-265	22	CCLE-LUSC,CCLE-SARC
chr10:34606035:->chr10:34591357:-	chr10	34606035,34606035,34606035,34606035,34606035,34606035,34606035,34606035,34606035	34606035	ENST00000545260,ENST00000545693,ENST00000346874,ENST00000350537,ENST00000374788,ENST00000374789,ENST00000374790,ENST00000374794,ENST00000374776,ENST00000340077,ENST00000544292,ENST00000374773	-	chr10	34591357	34591486	-	266-274	934,964,949,978,1008,1024,991,1021,737	CCLE-COAD
chr10:53667330:+>chr10:53715594:+	chr10	53667267,53667267,53667267,53667267	53667330	ENST00000401604,ENST00000373985,ENST00000373980,ENST00000373976	+	chr10	53715594	53716101	+	275-278	254,227,239,112	CCLE-DLBC,CCLE-LGG,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr10:56287572:->chr10:56182421:-	chr10	56287572,56287572	56287572	ENST00000373965,ENST00000414778,ENST00000395438,ENST00000395440,ENST00000395442,ENST00000395445,ENST00000395446,ENST00000414367,ENST00000395432,ENST00000361849,ENST00000320301,ENST00000395430,ENST00000448885,ENST00000437009,ENST00000373955,ENST00000458638	-	chr10	56182421	56182455	-	279-280	52,57	CCLE-DLBC
chr10:6472772:->chr10:6440614:-	chr10	6472772,6472772,6472772	6472772	ENST00000263125,ENST00000397176,ENST00000539722	-	chr10	6440614	6440675	-	281-283	530,655,592	CCLE-LCLL
chr10:71258152:+>chr10:71271547:+	chr10	71258036,71	71258152	ENST00000373290,ENST00000452130	+	chr10	71271547	71271855	+	284-285	99,19	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-STAD,CCLE-THCA,CCLE-UCEC

chr10:71264241:+>chr10:71271547:+	chr10	71264194,71	71264241	ENST00000373290, ENST00000452130	+	chr10	71271547	71271855	+	286-287	115,206	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr10:71265996:+>chr10:71271547:+	chr10	71265880,71	71265996	ENST00000373290, ENST00000452130	+	chr10	71271547	71271855	+	288-289	154,245	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-STAD,CCLE-THCA
chr10:71631966:+>chr10:71640170:+	chr10	71631932,71631940,71631940,71631932,71631932,71631932,71631932,71631940,71631940,71631940,71631940,71631940,71631940,71631940	71631966	ENST00000356340, ENST00000398972, ENST00000398973, ENST00000398964, ENST00000398966, ENST00000398968, ENST00000398971, ENST00000398974, ENST00000479733, ENST00000354547, ENST00000357811, ENST00000398978, ENST00000517713, ENST00000520133, ENST00000522165	+	chr10	71640170	71640253	+	290-291	133	CCLE-BRCA
chr10:71634919:+>chr10:71640170:+	chr10	71634884,71634884,71634884,71634884,71634884,71634884,71634884,71634884,71634884,71634884	71634919	ENST00000356340, ENST00000398972, ENST00000398973, ENST00000398966, ENST00000398968, ENST00000398971, ENST00000479733, ENST00000354547, ENST00000357811, ENST00000398978, ENST00000517713, ENST00000522165	+	chr10	71640170	71640253	+	292-293	145	CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr10:72357956:->chr10:72357597:-	chr10	72357809,72	72357956	ENST00000373209, ENST00000441259	-	chr10	72357597	72357720	-	294-294	507	CCLE-DLBC
chr10:72358095:->chr10:72357597:-	chr10	72357809,72	72358095	ENST00000373209, ENST00000441259	-	chr10	72357597	72357720	-	295-295	460	CCLE-DLBC
chr10:72360120:->chr10:72357597:-	chr10	72360120,72	72360120	ENST00000373209, ENST00000441259	-	chr10	72357597	72357720	-	296-296	179	CCLE-DLBC
chr10:72972821:+>chr10:73034215:+	chr10	72972743,73	72972821	ENST00000335350, ENST00000373192	+	chr10	73034215	73034323	+	297-297	26	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr10:73464887:+>chr10:73466221:+	chr10	73464668,73464668,73464668,73464668	73464887	ENST00000299366, ENST00000224721, ENST00000466757, ENST00000442677	+	chr10	73466221	73466304	+	298-301	989,1029,576,795	CCLE-LIHC,CCLE-LUSC
chr10:75003601:->chr10:74977810:-	chr10	75003601	75003601	ENST00000372950	-	chr10	74977810	74978879	-	302-302	221	CCLE-DLBC,CCLE-LUSC
chr10:75802911:+>chr10:75823441:+	chr10	75802841,75802841,75802841	75802911	ENST00000211998, ENST00000372755, ENST00000417648	+	chr10	75823441	75823588	+	303-303	79	CCLE-LUSC
chr10:75802911:+>chr10:75823444:+	chr10	75802841,75802841,75802841	75802911	ENST00000211998, ENST00000372755, ENST00000417648	+	chr10	75823444	75823588	+	304-304	79	CCLE-LGG
chr10:75874657:+>chr10:75876667:+	chr10	75874553,75874553,75874553,75874553	75874657	ENST00000211998, ENST00000372755, ENST00000417648, ENST00000436396	+	chr10	75876667	75876750	+	305-308	758,279,1018,1086	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr10:82249070:+>chr10:82252292:+	chr10	82248990,82248990,82248990,82248990,82248990,82248990	82249070	ENST00000429989, ENST00000481124, ENST00000372164, ENST00000372158, ENST00000341863, ENST00000372156	+	chr10	82252292	82252583	+	309-309	27	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr10:85964361:+>chr10:85965458:+	chr10	85964283,85964283,85964283	85964361	ENST00000332904, ENST00000372117, ENST00000440770	+	chr10	85965458	85965469	+	310-311	46,287	CCLE-COAD
chr10:89527430:->chr10:89527069:-	chr10	89527430,89527430,89527430,89527430	89527430	ENST00000308448, ENST00000328142, ENST00000400215, ENST00000541004	-	chr10	89527069	89527330	-	312-313	189,277	CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM
chr10:95168544:->chr10:95165491:-	chr10	95168544,95168544,95168544,95168544,95168544	95168544	ENST00000358334, ENST00000359263, ENST00000371501, ENST00000371502, ENST00000371489	-	chr10	95165491	95165530	-	314-314	243	CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr10:95658508:+>chr10:95666009:+	chr10	95658328,96	95658508	ENST00000427197, ENST00000371408	+	chr10	95666009	95666303	+	315-316	118,119	CCLE-COAD,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD

chr10:98031109:->chr10:98016897:-	chr10	98031109,98031109,98031109,98031109,98031109,98031109	98031109	ENST00000224337,ENST00000371176,ENST00000413476,ENST00000427367,ENST00000467799,ENST00000495266	-	chr10	98016897	98016995	-	317-317	15	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-STAD
chr10:98031109:->chr10:98016955:-	chr10	98031109,98031109,98031109,98031109,98031109,98031109	98031109	ENST00000224337,ENST00000371176,ENST00000413476,ENST00000427367,ENST00000467799,ENST00000495266	-	chr10	98016955	98016995	-	318-318	15	CCLE-LCLL
chr10:98031109:->chr10:98016984:-	chr10	98031109,98031109,98031109,98031109,98031109,98031109	98031109	ENST00000224337,ENST00000371176,ENST00000413476,ENST00000427367,ENST00000467799,ENST00000495266	-	chr10	98016984	98016995	-	319-319	15	CCLE-LCLL
chr10:98362037:->chr10:98358300:-	chr10	98362037,98362037,98362037,98362037	98362037	ENST00000339364,ENST00000371110,ENST00000371109	-	chr10	98358300	98358597	-	320-322	786,385,608	CCLE-LCLL
chr10:99400934:+>chr10:99403832:+	chr10	99400500	99400934	ENST00000370631	+	chr10	99403832	99404130	+	323-323	145	CCLE-LUSC
chr11:1003804:+>chr11:1004067:+	chr11	1003722,1	1003804	ENST00000332231,ENST00000448903	+	chr11	1004067	1004188	+	324-325	735,736	CCLE-CESC,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr11:103033876:+>chr11:103033989:+	chr11	103033757,1	103033876	ENST00000375735,ENST00000398093	+	chr11	103033989	103034051	+	326-326	1537	CCLE-LGG,CCLE-LUSC,CCLE-STAD
chr11:103153814:+>chr11:103154850:+	chr11	103153737,103153737,103153746	103153814	ENST00000375735,ENST00000398093,ENST00000528670	+	chr11	103154850	103155101	+	327-329	3637,3630,23	CCLE-HNSC,CCLE-LGG,CCLE-LUSC
chr11:105483161:+>chr11:105590950:+	chr11	105483003,105483003,105483003,105483003,105483003,105483003,105483003,105483003,105483003,105483003	105483161	ENST00000527177,ENST00000393125,ENST00000531986,ENST00000282499,ENST00000393127,ENST00000527669,ENST00000525921,ENST00000428631,ENST00000531011,ENST00000525187,ENST00000530497	+	chr11	105590950	105591310	+	330-330	82	CCLE-LUSC
chr11:110134685:->chr11:110131688:-	chr11	110134685,110134685,110134685,110134685,110134685,110134685	110134685	ENST00000528498,ENST00000530749,ENST00000405097,ENST00000530301,ENST00000343115,ENST00000532118	-	chr11	110131688	110131728	-	331-333	144,123,155	CCLE-LUSC
chr11:113560487:->chr11:113519404:-	chr11	113560487,113560487,113560487,113560487,113560487,113560487	113560487	ENST00000540540,ENST00000299882,ENST00000538955,ENST00000545579,ENST00000544634,ENST00000544476	-	chr11	113519404	113520592	-	334-339	194,409,340,453,384,444	CCLE-BLCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr11:117064679:+>chr11:117064774:+	chr11	117064569,117064569,117064569,117064569,117064569,117064569	117064679	ENST00000324225,ENST00000278951,ENST00000431081,ENST00000532062	+	chr11	117064774	117065033	+	340-343	771,795,774,66	CCLE-LUSC,CCLE-SARC
chr11:117351158:->chr11:117350617:-	chr11	117351158,1	117351158	ENST00000527706,ENST00000321322	-	chr11	117350617	117350661	-	344-345	988,718	CCLE-CESC,CCLE-DLBC,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-OV
chr11:117988169:+>chr11:117996010:+	chr11	117988020,117988020,117988020,117988020,117988020,117988020	117988169	ENST00000534111,ENST00000522307,ENST00000523251,ENST00000437212,ENST00000522824,ENST00000524218	+	chr11	117996010	117996265	+	346-351	432,394,287,429,434,59	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD,CCLE-UCEC
chr11:117988169:+>chr11:117996015:+	chr11	117988020,117988020,117988020,117988020,117988020,117988020	117988169	ENST00000534111,ENST00000522307,ENST00000523251,ENST00000437212,ENST00000522824,ENST00000524218	+	chr11	117996015	117996265	+	352-357	432,394,287,429,434,59	CCLE-LUSC,CCLE-STAD
chr11:118213268:->chr11:118203091:-	chr11	118213268,118213268,118213268	118213268	ENST00000300692,ENST00000529594,ENST00000392884	-	chr11	118203091	118203440	-	358-358	18	CCLE-LCLL
chr11:118213268:->chr11:118203158:-	chr11	118213268,118213268,118213268	118213268	ENST00000300692,ENST00000529594,ENST00000392884	-	chr11	118203158	118203440	-	359-359	18	CCLE-LCLL
chr11:118213268:->chr11:118212471:-	chr11	118213268,118213268,118213268	118213268	ENST00000300692,ENST00000529594,ENST00000392884	-	chr11	118212471	118212483	-	360-360	18	CCLE-DLBC,CCLE-LCLL
chr11:118754701:+>chr11:118755028:+	chr11	118754651	118754701	ENST00000292174	+	chr11	118755028	118755037	+	361-361	17	CCLE-DLBC
chr11:118754701:+>chr11:118776642:+	chr11	118754651	118754701	ENST00000292174	+	chr11	118776642	118776922	+	362-362	17	CCLE-DLBC
chr11:119156276:+>chr11:119156897:+	chr11	119155899	119156276	ENST00000264033	+	chr11	119156897	119157019	+	363-363	647	CCLE-COAD,CCLE-LCLL,CCLE-LUSC

chr11:122953793:->chr11:122948480:-	chr11	122953793	122953793	ENST00000448775	-	chr11	122948480	122948538	-	364-364	226	CCLE-COAD,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr11:122953793:->chr11:122950789:-	chr11	122953793	122953793	ENST00000448775	-	chr11	122950789	122951034	-	365-365	226	CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr11:122968503:->chr11:122966630:-	chr11	122968503	122968503	ENST00000448775	-	chr11	122966630	122966661	-	366-366	62	CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr11:122968503:->chr11:122966634:-	chr11	122968503	122968503	ENST00000448775	-	chr11	122966634	122966661	-	367-367	62	CCLE-LUSC
chr11:12499496:+>chr11:12507403:+	chr11	12499394,12499394,12499394,12499394,12499394	12499496	ENST00000334956,ENST00000539723,ENST00000550549,ENST00000538608,ENST00000528916	+	chr11	12507403	12507793	+	368-371	133,97,173,80	CCLE-HNSC,CCLE-LGG
chr11:126343204:->chr11:126342252:-	chr11	126343204,126343204,126343204	126343204	ENST00000525144,ENST00000529097,ENST00000525704	-	chr11	126342252	126342479	-	372-372	197	CCLE-LUSC,CCLE-SKCM
chr11:128850448:->chr11:128850014:-	chr11	128850448,128850448,128850448,128850448	128850448	ENST00000310343,ENST00000392657,ENST00000524655,ENST00000527272	-	chr11	128850014	128850029	-	373-375	570,644,295	CCLE-LUSC
chr11:128993341:->chr11:128983520:-	chr11	128993341,128993341,128993341	128993341	ENST00000310343,ENST00000524655,ENST00000525234	-	chr11	128983520	128983609	-	376-378	60,134,108	CCLE-COAD,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr11:129939977:+>chr11:129947146:+	chr11	129939873,129939873,129939873,129939873,129939873,129939873,129939873	129939977	ENST00000533616,ENST00000530132,ENST00000533195,ENST00000534582,ENST00000528499,ENST00000263574,ENST00000345598,ENST00000338167	+	chr11	129947146	129947318	+	379-379	35	CCLE-KIRC
chr11:132398955:->chr11:132374602:-	chr11	132398955,132398955,132398955,132398955	132398955	ENST00000331898,ENST00000524381,ENST00000374778,ENST00000541867	-	chr11	132374602	132374785	-	380-382	134,175,168	CCLE-SARC
chr11:14316017:->chr11:14307227:-	chr11	14316017,14316017,14316017,14316017,14316017,14316017,14316017,14316017,14316017	14316017	ENST00000545643,ENST00000537760,ENST00000414023,ENST00000529237,ENST00000256196,ENST00000534746,ENST00000526063,ENST00000532814,ENST00000531807,ENST00000531421	-	chr11	14307227	14307556	-	383-387	142,136,117,59,101	CCLE-BRCA,CCLE-LUSC
chr11:14501115:->chr11:14500263:-	chr11	14501115,14501115,14501115,14501115	14501115	ENST00000249923,ENST00000439561,ENST00000534234	-	chr11	14500263	14500297	-	388-388	452	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr11:14504578:->chr11:14503856:-	chr11	14504578,14504578,14504578,14504578	14504578	ENST00000249923,ENST00000439561,ENST00000534234	-	chr11	14503856	14503864	-	389-389	319	CCLE-BRCA
chr11:17429939:->chr11:17428756:-	chr11	17429939,17429939,17429939,17429939	17429939	ENST00000389817,ENST00000302539,ENST00000527905	-	chr11	17428756	17428848	-	390-392	930,940,941	CCLE-LUSC
chr11:2411756:+>chr11:2412305:+	chr11	2411642,2411642,2411642,2411642,2411642,2411642,2411642	2411756	ENST00000263645,ENST00000533417,ENST00000527343,ENST00000464784,ENST00000493525,ENST00000381036,ENST00000492252	+	chr11	2412305	2412360	+	393-399	49,53,52,60,98,55,45	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr11:2610084:+>chr11:2628768:+	chr11	2609943,261	2610084	ENST00000155840,ENST00000335475	+	chr11	2628768	2628939	+	400-401	464,337	CCLE-COAD
chr11:27397846:->chr11:27397734:-	chr11	27397846,27	27397846	ENST00000379214,ENST00000389858	-	chr11	27397734	27397737	-	402-403	393,369	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr11:2924719:+>chr11:2927301:+	chr11	2924576,2924576,2924576,2924576,2924576	2924719	ENST00000347936,ENST00000312221,ENST00000449793,ENST00000380574,ENST00000485423	+	chr11	2927301	2928107	+	404-404	48	CCLE-COAD
chr11:2924719:+>chr11:2927330:+	chr11	2924576,2924576,2924576,2924576,2924576	2924719	ENST00000347936,ENST00000312221,ENST00000449793,ENST00000380574,ENST00000485423	+	chr11	2927330	2928107	+	405-405	48	CCLE-COAD,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM
chr11:3114757:->chr11:3114399:-	chr11	3114757,3114757,3114757,3114757,3114757,3114757,3114757	3114757	ENST00000478260,ENST00000263650,ENST00000389989,ENST00000534454,ENST00000525498,ENST00000542243,ENST00000348039	-	chr11	3114399	3114493	-	406-411	279,559,580,648,102,201	CCLE-BRCA,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM

chr11:36120011:+>chr11:36166026:+	chr11	36119877,36119877,36119877,36119877	36120011	ENST00000524419,ENST00000528989,ENST00000315571	+	chr11	36166026	36167571	+	412-413	102,151	CCLE-BRCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr11:428088:->chr11:424071:-	chr11	428088	428088	ENST00000332826	-	chr11	424071	424193	-	414-414	444	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr11:428166:->chr11:424187:-	chr11	428088	428166	ENST00000332826	-	chr11	424187	424193	-	415-415	418	CCLE-LCLL
chr11:428358:->chr11:424187:-	chr11	428358	428358	ENST00000332826	-	chr11	424187	424193	-	416-416	407	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-STAD,CCLE-THCA
chr11:428387:->chr11:424187:-	chr11	428358	428387	ENST00000332826	-	chr11	424187	424193	-	417-417	397	CCLE-COAD,CCLE-LCLL,CCLE-LUSC
chr11:44626979:+>chr11:44627218:+	chr11	44626905,44626905,44626905,44626905	44626979	ENST00000526958,ENST00000227155,ENST00000527737,ENST00000530601	+	chr11	44627218	44627394	+	418-421	176,93,112,153	CCLE-DLBC,CCLE-LCLL
chr11:46397181:+>chr11:46397288:+	chr11	46396982,46396982,46396982,46396982,46396982,46396982,46396982,46396982,46396982,46396982	46397181	ENST00000343674,ENST00000532868,ENST00000528615,ENST00000395574,ENST00000527911,ENST00000456247,ENST00000421244,ENST00000318201,ENST00000454345,ENST00000524869	+	chr11	46397288	46397299	+	422-430	652,635,613,636,824,414,640,602,191	CCLE-LUSC
chr11:46398762:+>chr11:46398845:+	chr11	46398623,46398623,46398623,46398623,46398623,46398623,46398623,46398623,46398623,46398623	46398762	ENST00000343674,ENST00000532868,ENST00000528615,ENST00000395574,ENST00000543978,ENST00000527911,ENST00000456247,ENST00000421244,ENST00000318201,ENST00000454345	+	chr11	46398845	46398847	+	431-439	796,779,757,780,132,968,558,784,746	CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr11:46920109:->chr11:46919867:-	chr11	46920109	46920109	ENST00000378623	-	chr11	46919867	46920036	-	440-440	265	CCLE-COAD,CCLE-LUSC
chr11:46920109:->chr11:46919899:-	chr11	46920109	46920109	ENST00000378623	-	chr11	46919899	46920036	-	441-441	265	CCLE-COAD,CCLE-LUSC
chr11:47346128:+>chr11:47347762:+	chr11	47346022,47346022,47346022,47346022,47346022,47346022,47346022,47346022,47346022,47346022	47346128	ENST00000342922,ENST00000311027,ENST00000349238,ENST00000402799,ENST00000406482,ENST00000407859,ENST00000395344,ENST00000395336,ENST00000402192,ENST00000405573	+	chr11	47347762	47347790	+	442-449	384,1468,1472,1492,1514,1515,1574,1535	CCLE-LUSC
chr11:47460283:->chr11:47460167:-	chr11	47460283,47460283,47460283,47460210	47460283	ENST00000298854,ENST00000352508,ENST00000524487,ENST00000529341	-	chr11	47460167	47460173	-	450-452	329,388,338	CCLE-SARC
chr11:57118372:+>chr11:57118510:+	chr11	57118236	57118372	ENST00000263314	+	chr11	57118510	57118664	+	453-453	280	CCLE-LGG
chr11:57450015:+>chr11:57452339:+	chr11	57449949,57449894,57450012	57450015	ENST00000527985,ENST00000287169,ENST00000529447	+	chr11	57452339	57452637	+	454-456	22,75,1	CCLE-STAD
chr11:58295054:->chr11:58282132:-	chr11	58294927,58294927,58294927	58295054	ENST00000395074,ENST00000528954,ENST00000528489	-	chr11	58282132	58282176	-	457-459	344,324,349	CCLE-DLBC
chr11:58317259:->chr11:58282132:-	chr11	58317259,58317259,58317259	58317259	ENST00000395074,ENST00000528954,ENST00000528489	-	chr11	58282132	58282176	-	460-462	247,227,252	CCLE-DLBC,CCLE-SKCM
chr11:58338029:->chr11:58337161:-	chr11	58338029,58338029,58338029	58338029	ENST00000530561,ENST00000395074,ENST00000528954,ENST00000528489	-	chr11	58337161	58337162	-	463-465	57,52,62	CCLE-DLBC,CCLE-SKCM
chr11:60781486:+>chr11:60782898:+	chr11	60781391,60781391,60781391	60781486	ENST00000313421,ENST00000344931,ENST00000452451	+	chr11	60782898	60783062	+	466-466	462	CCLE-DLBC,CCLE-LCLL
chr11:61290547:->chr11:61283471:-	chr11	61290547,61290547,61290547,61290547,61290547	61290547	ENST00000263846,ENST00000540677,ENST00000539008,ENST00000542836,ENST00000542670,ENST00000535826	-	chr11	61283471	61283640	-	467-472	369,413,577,488,652,444	CCLE-LUSC
chr11:61295387:->chr11:61292285:-	chr11	61295387,61295387,61295387,61295387,61295387	61295387	ENST00000263846,ENST00000540677,ENST00000539008,ENST00000542836,ENST00000542670,ENST00000535826	-	chr11	61292285	61292337	-	473-478	207,251,415,326,490,282	CCLE-BRCA,CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr11:61488362:+>chr11:61489954:+	chr11	61488151	61488362	ENST00000257215	+	chr11	61489954	61490056	+	479-479	102	CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC
chr11:62623853:+>chr11:62626953:+	chr11	62623742,62623742,62623742,62623742,62623742	62623853	ENST00000377892,ENST00000377890,ENST00000377891,ENST00000377889,ENST00000535296	+	chr11	62626953	62627181	+	480-480	37	CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-LUSC,CCLE-THCA

chr11:63607032:+>chr11:63619830:+	chr11	63606979,63606979,63606979,63606979,63606979,63606979,63606979,63606979	63607032	ENST00000315032, ENST00000377809, ENST00000402010, ENST00000413835, ENST00000508192, ENST00000361128, ENST00000350490, ENST00000502399	+	chr11	63619830	63620589	+	481-481	18	CCLE-LUSC
chr11:64508420:->chr11:64507864:-	chr11	64508420,64508420,64508420,64508420,64508420,64508420,64508420,64508344,64508344,64508344	64508420	ENST00000377494, ENST00000394432, ENST00000377497, ENST00000354024, ENST00000445445, ENST00000431822, ENST00000441258, ENST00000377486, ENST00000377487, ENST00000377489, ENST00000394430	-	chr11	64507864	64508144	-	482-482	123	CCLE-LCLL
chr11:65161896:+>chr11:65162940:+	chr11	65161730,65161730,65161730,65161730,65161730,65161730	65161896	ENST00000317568, ENST00000533782, ENST00000355991, ENST00000416776, ENST00000526201	+	chr11	65162940	65163025	+	483-486	159,193,151,137	CCLE-BRCA,CCLE-SKCM
chr11:65653001:->chr11:65652747:-	chr11	65652980,65653001,65653001,65653001	65653001	ENST00000338369, ENST00000357519, ENST00000531115, ENST00000533045	-	chr11	65652747	65652818	-	487-489	215,212,17	CCLE-HNSC,CCLE-LUSC
chr11:66046008:+>chr11:66049582:+	chr11	66045928,66045928,66045928,66045928	66046008	ENST00000528852, ENST00000311445, ENST00000534826, ENST00000528063	+	chr11	66049582	66049626	+	490-490	27	CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr11:66134935:->chr11:66134753:-	chr11	66134935,66134935,66134935,66134935,66134935,66134935	66134935	ENST00000311161, ENST00000357440, ENST00000540386, ENST00000544554, ENST00000546034	-	chr11	66134753	66134765	-	491-491	244	CCLE-DLBC,CCLE-ESCA,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr11:67051844:+>chr11:67052273:+	chr11	67051682	67051844	ENST00000308595	+	chr11	67052273	67052275	+	492-492	551	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr11:67782929:+>chr11:67785455:+	chr11	67782768,67782768,67782768,67782768,67782768	67782929	ENST00000539229, ENST00000316367, ENST00000007633, ENST00000342456	+	chr11	67785455	67785625	+	493-493	54	CCLE-LUSC
chr11:67782929:+>chr11:67785562:+	chr11	67782768,67782768,67782768,67782768,67782768	67782929	ENST00000539229, ENST00000316367, ENST00000007633, ENST00000342456	+	chr11	67785562	67785625	+	494-494	54	CCLE-BLCA
chr11:68157520:+>chr11:68168243:+	chr11	68157349	68157520	ENST00000294304	+	chr11	68168243	68168376	+	495-495	528	CCLE-LUSC
chr11:69995898:+>chr11:69998161:+	chr11	69995816,69995816,69995816,69995816,69995816,69995816,69995827	69995898	ENST00000355303, ENST00000398543, ENST00000538023, ENST00000316296, ENST00000530676, ENST00000531349, ENST00000531300	+	chr11	69998161	69998463	+	496-500	331,24,182,419,447	CCLE-BLCA,CCLE-PAAD
chr11:72385181:->chr11:72380117:-	chr11	72385181,72385181,72385181,72385181	72385181	ENST00000334456, ENST00000418754, ENST00000535701, ENST00000546038	-	chr11	72380117	72380291	-	501-501	23	CCLE-LGG,CCLE-LUSC
chr11:72412694:->chr11:72412229:-	chr11	72412694,72412694,72412694,72412694,72412694,72412694,72412694,72412694	72412694	ENST00000359373, ENST00000455638, ENST00000393605, ENST00000334211, ENST00000393609, ENST00000426523, ENST00000429686, ENST00000427971, ENST00000452383	-	chr11	72412229	72412362	-	502-506	767,55,461,522,527	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr11:72794740:->chr11:72748099:-	chr11	72794740,72794740,72794740,72794740	72794740	ENST00000409314, ENST00000409418, ENST00000422375	-	chr11	72748099	72748142	-	507-508	55,34	CCLE-LCLL,CCLE-LUSC,CCLE-SARC
chr11:72794740:->chr11:72790541:-	chr11	72794740,72794740,72794740,72794740	72794740	ENST00000409314, ENST00000409418, ENST00000422375	-	chr11	72790541	72790542	-	509-510	55,34	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr11:74716670:+>chr11:74729736:+	chr11	74716458,74716458,74716458,74716479	74716670	ENST00000294064, ENST00000531509, ENST00000544263, ENST00000545272	+	chr11	74729736	74729753	+	511-513	64,140,173	CCLE-HNSC
chr11:74716670:+>chr11:74731260:+	chr11	74716458,74716458,74716458,74716479	74716670	ENST00000294064, ENST00000531509, ENST00000544263, ENST00000545272	+	chr11	74731260	74731419	+	514-516	64,140,173	CCLE-LCLL

chr11:75001053:->chr11:74998952:-	chr11	75001053,75001053,75001053,75001053,75001053,75001053	75001053	ENST00000420843,ENST00000393505,ENST00000360025,ENST00000532525,ENST00000533609,ENST00000527385	-	chr11	74998952	74999206	-	517-520	17,12,31,34	CCLE-LUSC
chr11:77069943:->chr11:77069269:-	chr11	77069943,77069943,77069943,77069943,77069943,77069943	77069943	ENST00000356341,ENST00000530617,ENST00000278568,ENST00000528203,ENST00000527457	-	chr11	77069269	77069351	-	521-523	101,199,90	CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr11:78489647:->chr11:78484625:-	chr11	78489647	78489647	ENST00000278550	-	chr11	78484625	78484824	-	524-524	797	CCLE-LGG
chr11:85309701:->chr11:85264252:-	chr11	85309701,85	85309701	ENST00000376104,ENST00000543673	-	chr11	85264252	85264278	-	525-525	13	CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr11:85742511:->chr11:85737950:-	chr11	85742511,85742511,85742511,85742511,85742511,85742511,85742511,85742511,85742511,85742511	85742511	ENST00000532317,ENST00000526033,ENST00000393346,ENST00000528398,ENST00000356360,ENST00000531930,ENST00000532041,ENST00000525162,ENST00000528256	-	chr11	85737950	85738095	-	526-528	57,40,91	CCLE-LUSC,CCLE-SARC
chr11:85779693:->chr11:85745983:-	chr11	85779693,85779693,85779693,85779693,85779693,85779693,85779693,85779693,85779693,85779693	85779693	ENST00000532317,ENST00000526033,ENST00000393346,ENST00000356360,ENST00000534412,ENST00000531558,ENST00000531930,ENST00000532041,ENST00000528256	-	chr11	85745983	85746004	-	529-530	9,43	CCLE-LUSC
chr11:89896785:+>chr11:89901251:+	chr11	89896703,89896703,89896703,89896703	89896785	ENST00000534061,ENST00000321955,ENST00000525171	+	chr11	89901251	89901538	+	531-533	333,393,426	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr11:926088:+>chr11:946225:+	chr11	926022,926022,926022,926022,926022	926088	ENST00000534328,ENST00000332231,ENST00000448903,ENST00000528815	+	chr11	946225	946368	+	534-534	22	CCLE-DLBC,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SARC
chr11:9715833:+>chr11:9720756:+	chr11	9715693,9715693,9715693,9715693	9715833	ENST00000447399,ENST00000318950,ENST00000526358	+	chr11	9720756	9720874	+	535-535	80	CCLE-BLCA,CCLE-DLBC
chr12:10069299:->chr12:10036284:-	chr12	10069299,1	10069299	ENST00000339766,ENST00000455827	-	chr12	10036284	10036965	-	536-536	136	CCLE-LCLL
chr12:10069299:->chr12:10053474:-	chr12	10069299,1	10069299	ENST00000339766,ENST00000455827	-	chr12	10053474	10054829	-	537-537	136	CCLE-LCLL
chr12:10069299:->chr12:10054679:-	chr12	10069299,1	10069299	ENST00000339766,ENST00000455827	-	chr12	10054679	10054829	-	538-538	136	CCLE-LCLL
chr12:10069303:->chr12:10036284:-	chr12	10069299,1	10069303	ENST00000339766,ENST00000455827	-	chr12	10036284	10036965	-	539-539	135	CCLE-LCLL
chr12:10069303:->chr12:10053474:-	chr12	10069299,1	10069303	ENST00000339766,ENST00000455827	-	chr12	10053474	10054829	-	540-540	135	CCLE-LCLL
chr12:100717416:+>chr12:100718728:+	chr12	100717303,100717303,100717376	100717416	ENST00000549687,ENST00000360820,ENST00000548871	+	chr12	100718728	100718971	+	541-542	503,14	CCLE-STAD
chr12:10124286:+>chr12:10129175:+	chr12	10124176,10124196,10124196,10124196,10124196,10124196	10124286	ENST00000355690,ENST00000396507,ENST00000304361,ENST00000434319,ENST00000350667	+	chr12	10129175	10129316	+	543-544	30,4	CCLE-LCLL
chr12:105255069:->chr12:105253673:-	chr12	105255069	105255069	ENST00000258538	-	chr12	105253673	105253816	-	545-545	418	CCLE-PAAD
chr12:105582051:->chr12:105578472:-	chr12	105582051,105582051,105582051,105582051	105582051	ENST00000258530,ENST00000539978,ENST00000551662,ENST00000553109	-	chr12	105578472	105579481	-	546-549	75,550,544,501	CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr12:105582051:->chr12:105579197:-	chr12	105582051,105582051,105582051,105582051	105582051	ENST00000258530,ENST00000539978,ENST00000551662,ENST00000553109	-	chr12	105579197	105579481	-	550-553	75,550,544,501	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr12:105629737:->chr12:105623719:-	chr12	105629737,105629737,105629737,105629737	105629737	ENST00000258530,ENST00000547439,ENST00000551662,ENST00000553097	-	chr12	105623719	105623857	-	554-554	18	CCLE-LUSC
chr12:106641147:->chr12:106618557:-	chr12	106641147	106641147	ENST00000378026	-	chr12	106618557	106618624	-	555-555	161	CCLE-HNSC,CCLE-LGG,CCLE-SARC,CCLE-SKCM
chr12:110463628:+>chr12:110465019:+	chr12	110463547,1	110463628	ENST00000261739,ENST00000547639	+	chr12	110465019	110465144	+	556-557	294,148	CCLE-COAD,CCLE-LUSC

chr12:110468563:+>chr12:110470252:+	chr12	110468450,110468450,110468450	110468563	ENST00000261739,ENST00000547419,ENST00000551491	+	chr12	110470252	110470848	+	558-560	66,449,119	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr12:111098969:->chr12:111098701:-	chr12	111098969,111098969,111098969,111098969,111098969	111098969	ENST00000548312,ENST00000242607,ENST00000356742,ENST00000439744,ENST00000549442	-	chr12	111098701	111098773	-	561-562	102,82	CCLE-DLBC
chr12:111121030:->chr12:111109636:-	chr12	111121030,111121030,111121030,111121030,111121030,111121030	111121030	ENST00000548312,ENST00000242607,ENST00000356742,ENST00000549442,ENST00000547887,ENST00000546713	-	chr12	111109636	111109732	-	563-563	7	CCLE-LCLL
chr12:118682699:->chr12:118682166:-	chr12	118682699,118682699,118682699,118682699	118682699	ENST00000419821,ENST00000392533,ENST00000535570,ENST00000541186	-	chr12	118682166	118682167	-	564-564	64	CCLE-LUSC,CCLE-PAAD
chr12:118693253:->chr12:118685482:-	chr12	118693253,118693253,118693253,118693253,118693253,118693253	118693253	ENST00000419821,ENST00000392533,ENST00000535570,ENST00000541186,ENST00000541878,ENST00000542902	-	chr12	118685482	118685619	-	565-565	40	CCLE-DLBC
chr12:122861936:->chr12:122861310:-	chr12	122861936,122861936,122861936,122861936,122861936,122861936,122861936,122861936	122861936	ENST00000361654,ENST00000302528,ENST00000358808,ENST00000537178,ENST00000540338,ENST00000540304,ENST00000537004,ENST00000541108	-	chr12	122861310	122861316	-	566-566	219	CCLE-LUSC,CCLE-PAAD
chr12:130897164:->chr12:130895835:-	chr12	130897164,1	130897164	ENST00000261655,ENST00000536632	-	chr12	130895835	130896018	-	567-568	940,77	CCLE-LGG,CCLE-LUSC
chr12:132326345:+>chr12:132327173:+	chr12	132326169,132326169,132326169	132326345	ENST00000360564,ENST00000535291,ENST00000534865	+	chr12	132327173	132327336	+	569-571	210,294,135	CCLE-SKCM
chr12:21036536:+>chr12:21047126:+	chr12	21036352,21036352,21036352,21036352,21036352	21036536	ENST00000261196,ENST00000381545,ENST00000540229,ENST00000553473,ENST00000544370	+	chr12	21047126	21047183	+	572-573	384,56	CCLE-COAD,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr12:27156169:->chr12:27153727:-	chr12	27156169,27156169,27156169	27156169	ENST00000343028,ENST00000512808,ENST00000545600	-	chr12	27153727	27153818	-	574-576	82,87,61	CCLE-LUSC
chr12:2787033:+>chr12:2787463:+	chr12	2786899,2786899	2787033	ENST00000335762,ENST00000399655,ENST00000327702,ENST00000344100,ENST00000347598,ENST00000399591,ENST00000399595,ENST00000399597,ENST00000399601,ENST00000399606,ENST00000399621,ENST00000399629,ENST00000399637,ENST00000399638,ENST00000399641,ENST00000399644,ENST00000399649,ENST00000402845,ENST00000399603,ENST00000399617,ENST00000399634,ENST00000406454	+	chr12	2787463	2787563	+	577-595	1697,1745,1717,1725,1716,1703,1705,1738,1714,1722	CCLE-DLBC
chr12:30873745:->chr12:30873311:-	chr12	30873745,30873745,30873745,30873745,30873745,30873745	30873745	ENST00000433722,ENST00000298892,ENST00000251071,ENST00000308433,ENST00000417045,ENST00000537108	-	chr12	30873311	30873317	-	596-599	462,716,635,383	CCLE-LUSC,CCLE-PAAD
chr12:3753761:->chr12:3751674:-	chr12	3753761,3753761,3753761	3753761	ENST00000440314,ENST00000535292,ENST00000444507	-	chr12	3751674	3751680	-	600-601	388,44	CCLE-DLBC
chr12:38712260:+>chr12:38720028:+	chr12	38712063,39	38712260	ENST00000308742,ENST00000551464	+	chr12	38720028	38720122	+	602-602	123	CCLE-BLCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr12:41423021:+>chr12:41431679:+	chr12	41422865,41422865,41422865,41422916	41423021	ENST00000551295,ENST00000347616,ENST00000348761,ENST00000548481	+	chr12	41431679	41431986	+	603-605	35,993,982	CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC

chr12:41423021:+>chr12:41436436:+	chr12	41422865,41422865,41422865,41422916	41423021	ENST00000551295,ENST00000347616,ENST00000348761,ENST00000548481	+	chr12	41436436	41437961	+	606-608	35,993,982	CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM
chr12:44338145:+>chr12:44422639:+	chr12	44338013,44338013,44338013,44338013	44338145	ENST00000551577,ENST00000266534,ENST00000546868,ENST00000536799	+	chr12	44422639	44422681	+	609-610	66,136	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr12:44338145:+>chr12:44432005:+	chr12	44338013,44338013,44338013,44338013	44338145	ENST00000551577,ENST00000266534,ENST00000546868,ENST00000536799	+	chr12	44432005	44432502	+	611-612	66,136	CCLE-COAD
chr12:44605170:+>chr12:44605915:+	chr12	44605073,44605073,44605073,44605073	44605170	ENST00000551577,ENST00000266534,ENST00000550495,ENST00000536799	+	chr12	44605915	44606379	+	613-615	98,58,202	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr12:45695876:+>chr12:45716701:+	chr12	45695797,45695797,45695797,45695797,45695797	45695876	ENST00000425752,ENST00000423947,ENST00000435642,ENST00000320560,ENST00000441606	+	chr12	45716701	45716858	+	616-618	32,71,50	CCLE-LIHC
chr12:45695876:+>chr12:45716704:+	chr12	45695797,45695797,45695797,45695797,45695797	45695876	ENST00000425752,ENST00000423947,ENST00000435642,ENST00000320560,ENST00000441606	+	chr12	45716704	45716858	+	619-621	32,71,50	CCLE-KIRC,CCLE-LUSC
chr12:46760647:->chr12:46760246:-	chr12	46760647	46760647	ENST00000256689	-	chr12	46760246	46760249	-	622-622	187	CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC
chr12:50385781:->chr12:50380412:-	chr12	50385781,50385781,50385781,50385781,50385781,50385781,50385781	50385781	ENST00000548961,ENST00000427314,ENST00000312377,ENST00000434422,ENST00000454520,ENST00000551016,ENST00000547905	-	chr12	50380412	50380548	-	623-624	571,81	CCLE-LUSC
chr12:51663029:->chr12:51648950:-	chr12	51663029,51663029,51663029,51663029,51663029,51663029,51663029	51663029	ENST00000603798,ENST00000380103,ENST00000398453,ENST00000603864,ENST00000605426,ENST00000603838,ENST00000604188	-	chr12	51648950	51649120	-	625-625	11	CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr12:52312899:+>chr12:52324690:+	chr12	52312769,52312769,52312769,52312769	52312899	ENST00000388922,ENST00000550683,ENST00000419526,ENST00000552678	+	chr12	52324690	52324769	+	626-629	473,285,459,128	CCLE-COAD,CCLE-DLBC
chr12:52374983:+>chr12:52375503:+	chr12	52374753,52374753,52374753,52374753,52374753	52374983	ENST00000257963,ENST00000541224,ENST00000426655,ENST00000415850,ENST00000542485	+	chr12	52375503	52375656	+	630-631	270,218	CCLE-COAD,CCLE-LUSC
chr12:57589786:+>chr5:152839134:+	chr12	57589646	57589786	ENST00000243077	+	chr5	152839134	152839136	+	632-632	2900	CCLE-BRCA
chr12:6570104:+>chr12:6576217:+	chr12	6570021	6570104	ENST00000266556	+	chr12	6576217	6576346	+	633-633	430	CCLE-BLCA,CCLE-BRCA,CCLE-HNSC,CCLE-LCLL,CCLE-STAD
chr12:6884714:+>chr12:6886131:+	chr12	6884439,688	6884714	ENST00000441671,ENST00000203629	+	chr12	6886131	6886262	+	634-634	352	CCLE-DLBC,CCLE-LUSC
chr12:70065208:->chr12:70058411:-	chr12	70065208,70065208,70065208,70065208,70065208	70065208	ENST00000331471,ENST00000488961,ENST00000330891,ENST00000553096,ENST00000476098	-	chr12	70058411	70058433	-	635-637	260,153,366	CCLE-LUSC
chr12:7286364:+>chr12:7286642:+	chr12	7286169,7286169,7286169,7286169,7286169	7286364	ENST00000541953,ENST00000266546,ENST00000545663,ENST00000535452,ENST00000534830,ENST00000539982,ENST00000537408	+	chr12	7286642	7286757	+	638-641	90,127,139,110	CCLE-BLCA
chr12:81205244:->chr12:81197191:-	chr12	81205244	81205244	ENST00000552864	-	chr12	81197191	81197479	-	642-642	234	CCLE-LUSC
chr12:88926218:->chr12:88920316:-	chr12	88926218,88926218,88926218	88926218	ENST00000228280,ENST00000347404,ENST00000552044	-	chr12	88920316	88920376	-	643-644	13,64	CCLE-COAD,CCLE-SKCM
chr12:94796946:->chr12:94796110:-	chr12	94796946,94796946,94796946,94796946,94796946	94796946	ENST00000397809,ENST00000339839,ENST00000547232,ENST00000397807,ENST00000547575	-	chr12	94796110	94796393	-	645-646	106,139	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr12:94796946:->chr12:94796352:-	chr12	94796946,94796946,94796946,94796946,94796946	94796946	ENST00000397809,ENST00000339839,ENST00000547232,ENST00000397807,ENST00000547575	-	chr12	94796352	94796393	-	647-648	106,139	CCLE-LCLL,CCLE-LUSC

chr12:9822391:+>chr12:9832640:+	chr12	9822331,9822331,9822331,9822331,9822331,9822331,9822331,9822331,9822331,9822349	9822391	ENST00000261340,ENST00000290855,ENST00000325960,ENST00000492359,ENST00000444971,ENST00000479877,ENST00000543300,ENST00000545918,ENST00000261339,ENST00000466035	+	chr12	9832640	9832963	+	649-650	20,14	CCLE-DLBC
chr12:9885545:->chr12:9855036:-	chr12	9885545,989	9885545	ENST00000542530,ENST00000327839	-	chr12	9855036	9855213	-	651-652	105,57	CCLE-DLBC,CCLE-LCLL
chr13:108939207:+>chr13:108939342:+	chr13	108939151,1	108939207	ENST00000375887,ENST00000542136	+	chr13	108939342	108939631	+	653-653	160	CCLE-LCLL
chr13:113474264:+>chr13:113502272:+	chr13	113474214,113474214,113474214,113474214,113474214	113474264	ENST00000283558,ENST00000375630,ENST00000375645,ENST00000487903,ENST00000418678	+	chr13	113502272	113502415	+	654-655	241,216	CCLE-LUSC
chr13:113679072:+>chr13:113692117:+	chr13	113678958,113678958,113678958,113678958,113678958,113678958,113678958,113678958,113678958,113678978,113679012	113679072	ENST00000375608,ENST00000442652,ENST00000375604,ENST00000397030,ENST00000535094,ENST00000421756,ENST00000375601,ENST00000434480,ENST00000409954,ENST00000423482,ENST00000375597,ENST00000397024,ENST00000486806,ENST00000473345	+	chr13	113692117	113692497	+	656-665	96,149,122,98,63,125,92,90,31,20	CCLE-LUSC
chr13:113731525:+>chr13:113731768:+	chr13	113731366,113731366,113731366,113731366,113731366,113731366,113731366,113731366,113731366	113731525	ENST00000375608,ENST00000442652,ENST00000375604,ENST00000397030,ENST00000535094,ENST00000421756,ENST00000375601,ENST00000434480,ENST00000423482,ENST00000375597,ENST00000397017	+	chr13	113731768	113731848	+	666-673	557,610,583,559,586,553,551,214	CCLE-LUSC
chr13:21995200:->chr13:21992425:-	chr13	21995200,21995200,21995200,21995200,21995200	21995200	ENST00000400590,ENST00000320220,ENST00000382466,ENST00000542645,ENST00000415724,ENST00000422251	-	chr13	21992425	21992457	-	674-675	83,2	CCLE-LUSC,CCLE-STAD
chr13:42742954:+>chr13:42747840:+	chr13	42742815,42742815,42742815,42742815,42742815	42742954	ENST00000540693,ENST00000337343,ENST00000379274,ENST00000261491,ENST00000536612,ENST00000538674	+	chr13	42747840	42747902	+	676-678	455,319,210	CCLE-ESCA,CCLE-LUSC
chr13:42789803:+>chr13:42792143:+	chr13	42789711,42789711,42789711,42789711,42789711	42789803	ENST00000540693,ENST00000337343,ENST00000379274,ENST00000261491,ENST00000536612,ENST00000538674	+	chr13	42792143	42792172	+	679-681	1071,935,826	CCLE-OV
chr13:67205342:->chr13:67092232:-	chr13	67205342,67205342,67205342,67205342	67205342	ENST00000544246,ENST00000377865,ENST00000456367,ENST00000328454	-	chr13	67092232	67092523	-	682-683	1113,1079	CCLE-LUSC,CCLE-STAD
chr13:94482798:+>chr13:94530641:+	chr13	94482407	94482798	ENST00000377047	+	chr13	94530641	94530644	+	684-684	237	CCLE-BRCA,CCLE-CESC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr14:102568212:->chr14:102567508:-	chr14	102568212	102568212	ENST00000334701	-	chr14	102567508	102567614	-	685-685	122	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr14:102605587:->chr14:102601042:-	chr14	102605587,1	102605587	ENST00000334701,ENST00000557234	-	chr14	102601042	102602412	-	686-686	51	CCLE-BLCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SKCM
chr14:102605587:->chr14:102601070:-	chr14	102605587,1	102605587	ENST00000334701,ENST00000557234	-	chr14	102601070	102602412	-	687-687	51	CCLE-BLCA,CCLE-LCLL,CCLE-LUSC
chr14:106066411:->chr14:106059247:-	chr14	106066411,1	106066411	ENST00000577108,ENST00000390541	-	chr14	106059247	106059604	-	688-689	426,45	CCLE-DLBC,CCLE-MM
chr14:106926377:->chr14:106922347:-	chr14	106926188	106926377	ENST00000434710	-	chr14	106922347	106922916	-	690-690	55	CCLE-LCLL,CCLE-LUSC
chr14:107083240:->chr14:107071839:-	chr14	107083240	107083240	ENST00000455737	-	chr14	107071839	107072289	-	691-691	121	CCLE-LCLL
chr14:22111703:+>chr14:22164279:+	chr14	22111524	22111703	ENST00000390423	+	chr14	22164279	22165492	+	692-692	74	CCLE-SARC
chr14:23012183:+>chr14:23014756:+	chr14	23012122	23012183	ENST00000390534	+	chr14	23014756	23014793	+	693-693	21	CCLE-LCLL

chr14:52156653:+>chr14:52160286:+	chr14	52156555,52156555,52156555,52156555	52156653	ENST00000356218,ENST00000395718,ENST00000344768,ENST00000554778	+	chr14	52160286	52160365	+	694-694	33	CCLE-BRCA,CCLE-LUSC,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr14:52417483:+>chr14:52430525:+	chr14	52417368,52417368,52417397,52417397,52417397,52417397,52417397,52417397,52417368	52417483	ENST00000553432,ENST00000557376,ENST00000553560,ENST00000335281,ENST00000555472,ENST00000556766,ENST00000554736,ENST00000556752,ENST00000554875	+	chr14	52430525	52430590	+	695-698	29,60,58,68	CCLE-LCLL
chr14:57088420:+>chr14:57088781:+	chr14	57088249	57088420	ENST00000261556	+	chr14	57088781	57089083	+	699-699	466	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr14:57103316:+>chr14:57103766:+	chr14	57103226,57103226,57103234	57103316	ENST00000261556,ENST00000536419,ENST00000555046	+	chr14	57103766	57103949	+	700-702	157,623,28	CCLE-LUSC
chr14:61451521:+>chr14:61465038:+	chr14	61451448,61451448,61451448,61451448,61451448,61451448,61451448,61451448	61451521	ENST00000354886,ENST00000267488,ENST00000491344,ENST00000451406,ENST00000456840,ENST00000524402,ENST00000526105,ENST00000528350,ENST00000533744	+	chr14	61465038	61465618	+	703-708	98,84,103,49,80,52	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr14:61545645:+>chr14:61550144:+	chr14	61545528,61545528,61545528	61545645	ENST00000354886,ENST00000451406,ENST00000456840	+	chr14	61550144	61550493	+	709-711	464,469,446	CCLE-LUSC
chr14:64165287:->chr14:64158333:-	chr14	64165287	64165287	ENST00000247225	-	chr14	64158333	64158487	-	712-712	258	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LUSC,CCLE-OV
chr14:64165287:->chr14:64158470:-	chr14	64165287	64165287	ENST00000247225	-	chr14	64158470	64158487	-	713-713	258	CCLE-LUSC
chr14:64375945:+>chr14:64394320:+	chr14	64375867,64375867,64375867,64375867,64375867	64375945	ENST00000358025,ENST00000344113,ENST00000341472,ENST00000356081,ENST00000554584	+	chr14	64394320	64394330	+	714-714	26	CCLE-HNSC
chr14:64498075:+>chr14:64500121:+	chr14	64497734,64497734,64497734	64498075	ENST00000358025,ENST00000344113,ENST00000554584	+	chr14	64500121	64500422	+	715-715	2407	CCLE-DLBC
chr14:64548298:+>chr14:64549142:+	chr14	64548161,64548161,64548161,64548161,64548161,64548161	64548298	ENST00000357395,ENST00000358025,ENST00000344113,ENST00000554584,ENST00000555002,ENST00000394768	+	chr14	64549142	64549507	+	716-719	3828,3861,462,190	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SKCM,CCLE-STAD
chr14:64554574:+>chr14:64555808:+	chr14	64554389,64554389,64554389,64554389,64554389,64554389	64554574	ENST00000357395,ENST00000358025,ENST00000344113,ENST00000554584,ENST00000555002,ENST00000394768	+	chr14	64555808	64556114	+	720-723	3890,3923,524,275	CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-STAD
chr14:64560198:+>chr14:64562735:+	chr14	64560067,64560067,64560067,64560067,64560067,64560067	64560198	ENST00000357395,ENST00000358025,ENST00000344113,ENST00000554584,ENST00000555002,ENST00000394768	+	chr14	64562735	64562915	+	724-727	4036,4069,670,421	CCLE-LCLL
chr14:64593525:+>chr14:64593834:+	chr14	64593316,64593316,64593316,64593316,64593316,64593316	64593525	ENST00000357395,ENST00000358025,ENST00000344113,ENST00000554584,ENST00000555002,ENST00000394768	+	chr14	64593834	64593989	+	728-731	4639,4590,1273,1024	CCLE-BRCA,CCLE-LUSC
chr14:65417792:->chr14:65417382:-	chr14	65417661,65417792,65417657,65417657,65417792,65417792	65417792	ENST00000267512,ENST00000533601,ENST00000436278,ENST00000585059,ENST00000426039,ENST00000554593	-	chr14	65417382	65417512	-	732-734	108,62,96	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr14:67147903:+>chr14:67150420:+	chr14	67147825,67147825,67147825,67147825,67147825,67147825,67147825,67147825	67147903	ENST00000315266,ENST00000478722,ENST00000459628,ENST00000543237,ENST00000555668,ENST00000556633,ENST00000305960,ENST00000557654	+	chr14	67150420	67150708	+	735-735	47	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr14:67147903:+>chr14:67195783:+	chr14	67147825,67147825,67147825,67147825,67147825,67147825,67147825,67147825	67147903	ENST00000315266,ENST00000478722,ENST00000459628,ENST00000543237,ENST00000555668,ENST00000556633,ENST00000305960,ENST00000557654	+	chr14	67195783	67195977	+	736-736	47	CCLE-BLCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-SARC,CCLE-STAD

chr14:67147903:+>chr14:67195799:+	chr14	67147825,67147825,67147825,67147825,67147825,67147825,67147825,67147825	67147903	ENST00000315266, ENST00000478722, ENST00000459628, ENST00000543237, ENST00000555668, ENST00000556633, ENST00000305960, ENST00000557654	+	chr14	67195799	67195977	+	737-737	47	CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr14:67147903:+>chr14:67199916:+	chr14	67147825,67147825,67147825,67147825,67147825,67147825,67147825,67147825	67147903	ENST00000315266, ENST00000478722, ENST00000459628, ENST00000543237, ENST00000555668, ENST00000556633, ENST00000305960, ENST00000557654	+	chr14	67199916	67200093	+	738-738	47	CCLE-LUSC
chr14:67243239:+>chr14:67260048:+	chr14	67243182,67243182,67243182,67243182,67243182,67243182	67243239	ENST00000315266, ENST00000478722, ENST00000459628, ENST00000543237, ENST00000305960	+	chr14	67260048	67260824	+	739-739	67	CCLE-BRCA,CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD
chr14:69445669:-> chr14:69414143:-	chr14	69445669,69445669,69445669,69445669	69445669	ENST00000193403, ENST00000394419, ENST00000438964, ENST00000538545	-	chr14	69414143	69414294	-	740-740	35	CCLE-LUSC
chr14:73006802:+>chr14:73048076:+	chr14	73006749,73006749,73006749,73006749,73006749,73006749,73006749,73006749	73006802	ENST00000553525, ENST00000556437, ENST00000404301, ENST00000406236, ENST00000407322, ENST00000343854, ENST00000434263, ENST00000554782	+	chr14	73048076	73048273	+	741-744	437,474,405,335	CCLE-LCLL
chr14:75618735:-> chr14:75615913:-	chr14	75618735,76	75618735	ENST00000303575, ENST00000555873	-	chr14	75615913	75615918	-	745-745	112	CCLE-LUSC
chr14:81422194:+>chr14:81423539:+	chr14	81422025,81422025,81422025,81422025,81422025	81422194	ENST00000541158, ENST00000342443, ENST00000298171, ENST00000555326, ENST00000554263, ENST00000554435	+	chr14	81423539	81423807	+	746-746	56	CCLE-DLBC,CCLE-LUSC,CCLE-MM
chr14:81574796:+>chr14:81576681:+	chr14	81574719,81574719,81574719,81574719,81574719	81574796	ENST00000541158, ENST00000342443, ENST00000298171, ENST00000554263, ENST00000554435	+	chr14	81576681	81576936	+	747-747	230	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM
chr14:92792322:+>chr14:92801146:+	chr14	92792274,92792212,92792212,92792212,92792212	92792322	ENST00000393265, ENST00000531433, ENST00000532405, ENST00000298877, ENST00000351924	+	chr14	92801146	92801186	+	748-750	80,16,63	CCLE-LUSC,CCLE-SKCM
chr14:92922952:+>chr14:92923598:+	chr14	92922748,92922748,92922748,92922748,92922748,92922748	92922952	ENST00000393265, ENST00000531433, ENST00000532405, ENST00000298877, ENST00000351924, ENST00000525557	+	chr14	92923598	92923941	+	751-756	418,399,354,401,382,284	CCLE-DLBC,CCLE-LUSC,CCLE-SKCM
chr14:94203587:-> chr14:94196780:-	chr14	94203587,94203587,94203587,94203587	94203587	ENST00000393143, ENST00000393140, ENST00000316227, ENST00000477603	-	chr14	94196780	94196817	-	757-757	119	CCLE-LGG
chr15:23019800:-> chr15:23017129:-	chr15	23019800,23019800,23019800	23019800	ENST00000337451, ENST00000398014, ENST00000398013	-	chr15	23017129	23017187	-	758-758	65	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr15:23060815:-> chr15:23053780:-	chr15	23060815,23060815,23060815,23060815,23060815	23060815	ENST00000337435, ENST00000437912, ENST00000559448, ENST00000561183, ENST00000557930, ENST00000560069	-	chr15	23053780	23053852	-	759-762	53,30,105,69	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr15:25961873:-> chr15:25960675:-	chr15	25961873	25961873	ENST00000555815	-	chr15	25960675	25960802	-	763-763	593	CCLE-SARC
chr15:25966804:-> chr15:25964445:-	chr15	25966804,26	25966804	ENST00000356865, ENST00000555815	-	chr15	25964445	25964569	-	764-764	454	CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr15:26107795:-> chr15:26086910:-	chr15	26107795,26107795,26107795	26107795	ENST00000356865, ENST00000555815, ENST00000389967	-	chr15	26086910	26087116	-	765-765	149	CCLE-LCLL,CCLE-LUSC
chr15:27574035:+>chr15:27680112:+	chr15	27573953,27573953,27573953,27573964	27574035	ENST00000333743, ENST00000555083, ENST00000554696, ENST00000557596	+	chr15	27680112	27680300	+	766-768	133,191,24	CCLE-LUSC
chr15:30026478:-> chr15:30025718:-	chr15	30026478,30026478,30026478,30026478	30026478	ENST00000346128, ENST00000400011, ENST00000356107, ENST00000545208	-	chr15	30025718	30025766	-	769-770	509,505	CCLE-LUSC,CCLE-STAD

chr15:30092849:->chr15:30092286:-	chr15	30092849,30092849,30092849,30092849,30092849,30092849	30092849	ENST00000346128,ENST00000400011,ENST00000356107,ENST00000545208,ENST00000495972,ENST00000558447	-	chr15	30092286	30092356	-	771-773	32,121,28	CCLE-BLCA,CCLE-COAD,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr15:31318342:->chr15:31295757:-	chr15	31318342,31318342,31318342,31318342,31318342,31318342	31318342	ENST00000397795,ENST00000256552,ENST00000542188,ENST00000558768,ENST00000558445,ENST00000559177	-	chr15	31295757	31295758	-	774-778	1209,302,1187,1226,1111	CCLE-SKCM
chr15:31369108:->chr15:31365990:-	chr15	31369108,31369108,31369108,31369108,31369108,31369108,31369108,31369108	31369108	ENST00000397795,ENST00000256552,ENST00000542188,ENST00000558445,ENST00000559177,ENST00000560658,ENST00000559179	-	chr15	31365990	31367719	-	779-781	27,5,44	CCLE-SKCM
chr15:31369108:->chr15:31366147:-	chr15	31369108,31369108,31369108,31369108,31369108,31369108,31369108,31369108	31369108	ENST00000397795,ENST00000256552,ENST00000542188,ENST00000558445,ENST00000559177,ENST00000560658,ENST00000559179	-	chr15	31366147	31367719	-	782-784	27,5,44	CCLE-SKCM
chr15:31369108:->chr15:31367927:-	chr15	31369108,31369108,31369108,31369108,31369108,31369108,31369108,31369108	31369108	ENST00000397795,ENST00000256552,ENST00000542188,ENST00000558445,ENST00000559177,ENST00000560658,ENST00000559179	-	chr15	31367927	31368100	-	785-787	27,5,44	CCLE-SKCM
chr15:33149216:->chr15:33097143:-	chr15	33149216,33149216,33149216,33149216,33149216,33149216	33149216	ENST00000334528,ENST00000561249,ENST00000559047,ENST00000559610	-	chr15	33097143	33097772	-	788-791	1211,1309,1086,59	CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr15:33149216:->chr15:33097853:-	chr15	33149216,33149216,33149216,33149216,33149216,33149216	33149216	ENST00000334528,ENST00000561249,ENST00000559047,ENST00000559610	-	chr15	33097853	33097910	-	792-795	1211,1309,1086,59	CCLE-LUSC,CCLE-SKCM
chr15:33149216:->chr15:33104317:-	chr15	33149216,33149216,33149216,33149216,33149216,33149216	33149216	ENST00000334528,ENST00000561249,ENST00000559047,ENST00000559610	-	chr15	33104317	33104461	-	796-799	1211,1309,1086,59	CCLE-SKCM
chr15:33300215:->chr15:33269179:-	chr15	33300215,33300215,33300215,33300215	33300215	ENST00000334528,ENST00000561249,ENST00000559047	-	chr15	33269179	33269241	-	800-802	643,741,518	CCLE-SKCM
chr15:33357158:->chr15:33311132:-	chr15	33357158,33357158,33357158,33357138	33357158	ENST00000334528,ENST00000559047,ENST00000558197	-	chr15	33311132	33312230	-	803-804	720,497	CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr15:38852022:->chr15:38822531:-	chr15	38852022,38852022,38852022,38852022,38852022,38852022,38852022,38852022,38852022,38852022,38852022,38852022	38852022	ENST00000310803,ENST00000558432,ENST00000539159,ENST00000561180,ENST00000414708,ENST00000450598,ENST00000558164,ENST00000559830,ENST00000558418,ENST00000561117,ENST00000560929	-	chr15	38822531	38822662	-	805-808	87,73,124,25	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr15:41535937:+>chr15:41536881:+	chr15	41535865,41535865,41535865,41535865,41535865	41535937	ENST00000334660,ENST00000560784,ENST00000392151,ENST00000560397	+	chr15	41536881	41536911	+	809-809	46	CCLE-BRCA,CCLE-LUSC,CCLE-PAAD
chr15:45315547:+>chr15:45327940:+	chr15	45315482,45315482,45315482,45315482	45315547	ENST00000267814,ENST00000558789,ENST00000559230	+	chr15	45327940	45328464	+	810-810	22	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr15:45315547:+>chr15:45327948:+	chr15	45315482,45315482,45315482,45315482	45315547	ENST00000267814,ENST00000558789,ENST00000559230	+	chr15	45327948	45328464	+	811-811	22	CCLE-COAD,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM
chr15:45357587:+>chr15:45359279:+	chr15	45357469,45	45357587	ENST00000267814,ENST00000558580	+	chr15	45359279	45359565	+	812-813	181,16	CCLE-LUSC
chr15:45446198:+>chr15:45447645:+	chr15	45446149,45446149,45446149,45446149	45446198	ENST00000321429,ENST00000389037,ENST00000561166	+	chr15	45447645	45447787	+	814-815	1191,837	CCLE-COAD,CCLE-ESCA,CCLE-HNSC
chr15:45446198:+>chr15:45447651:+	chr15	45446149,45446149,45446149,45446149	45446198	ENST00000321429,ENST00000389037,ENST00000561166	+	chr15	45447651	45447787	+	816-817	1191,837	CCLE-ESCA
chr15:50518275:+>chr15:50519041:+	chr15	50518185,50518185,50518185,50518185	50518275	ENST00000267842,ENST00000380902,ENST00000544960	+	chr15	50519041	50519053	+	818-820	184,366,419	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC

chr15:56285709:->chr15:56280199:-	chr15	56285709,56	56285709	ENST00000435532, ENST00000502612	-	chr15	56280199	56280207	-	821-822	15,13	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr15:58902496:->chr15:58894130:-	chr15	58902496,59	58902496	ENST00000260408, ENST00000396140	-	chr15	58894130	58894306	-	823-824	374,675	CCLE-BRCA,CCLE-LUSC,CCLE-OV,CCLE-SARC
chr15:58902496:->chr15:58897094:-	chr15	58902496,59	58902496	ENST00000260408, ENST00000396140	-	chr15	58897094	58897238	-	825-826	374,675	CCLE-BRCA,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-SARC
chr15:58957296:->chr15:58942814:-	chr15	58957296	58957296	ENST00000260408	-	chr15	58942814	58942932	-	827-827	195	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-STAD
chr15:60678227:->chr15:60675371:-	chr15	60678227,60678227	60678227	ENST00000396024, ENST00000451270, ENST00000332680, ENST00000560014, ENST00000421017, ENST00000559818, ENST00000558132, ENST00000561022, ENST00000560367, ENST00000558503, ENST00000560389, ENST00000560165, ENST00000557906, ENST00000559350, ENST00000558558, ENST00000558986, ENST00000559467, ENST00000559956, ENST00000559780, ENST00000560468, ENST00000557904, ENST00000559370, ENST00000558169	-	chr15	60675371	60675627	-	828-830	34,16,44	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr15:60678227:->chr15:60677829:-	chr15	60678227,60678227	60678227	ENST00000396024, ENST00000451270, ENST00000332680, ENST00000560014, ENST00000421017, ENST00000559818, ENST00000558132, ENST00000561022, ENST00000560367, ENST00000558503, ENST00000560389, ENST00000560165, ENST00000557906, ENST00000559350, ENST00000558558, ENST00000558986, ENST00000559467, ENST00000559956, ENST00000559780, ENST00000560468, ENST00000557904, ENST00000559370, ENST00000558169	-	chr15	60677829	60677918	-	831-833	34,16,44	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr15:60678232:->chr15:60675371:-	chr15	60678227,60678227	60678232	ENST00000396024, ENST00000451270, ENST00000332680, ENST00000560014, ENST00000421017, ENST00000559818, ENST00000558132, ENST00000561022, ENST00000560367, ENST00000558503, ENST00000560389, ENST00000560165, ENST00000557906, ENST00000559350, ENST00000558558, ENST00000558986, ENST00000559467, ENST00000559956, ENST00000559780, ENST00000560468, ENST00000557904, ENST00000559370, ENST00000558169	-	chr15	60675371	60675627	-	834-836	32,14,42	CCLE-LUSC
chr15:63667857:->chr15:63650195:-	chr15	63667857,63667857,63667857	63667857	ENST00000178638, ENST00000344366, ENST00000422263	-	chr15	63650195	63650282	-	837-837	35	CCLE-KIRC
chr15:69682119:+>chr15:69682829:+	chr15	69681993,69681993,69681993,69681993	69682119	ENST00000395407, ENST00000558684, ENST00000561153, ENST00000340965	+	chr15	69682829	69682883	+	838-839	170,126	CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD

chr15:72252242:->chr15:72247962:-	chr15	72252242,72252242,72252242,72252242,72252242	72252242	ENST00000356056, ENST00000424560, ENST00000444904, ENST00000564571, ENST00000566885	-	chr15	72247962	72247995	-		840-842	322,708,727	CCLE-LUSC
chr15:74476197:->chr15:74475749:-	chr15	74476197,74476197,74476197,74476197,74476197,74476197,74476193	74476197	ENST00000395105, ENST00000423167, ENST00000323940, ENST00000449139, ENST00000416286, ENST00000535552, ENST00000563965, ENST00000574278, ENST00000569936	-	chr15	74475749	74475884	-		843-849	448,472,470,424,476,433,425	CCLE-ESCA,CCLE-LCLL,CCLE-LGG
chr15:74476197:->chr15:74475850:-	chr15	74476197,74476197,74476197,74476197,74476197,74476197,74476193	74476197	ENST00000395105, ENST00000423167, ENST00000323940, ENST00000449139, ENST00000416286, ENST00000535552, ENST00000563965, ENST00000574278, ENST00000569936	-	chr15	74475850	74475884	-		850-856	448,472,470,424,476,433,425	CCLE-LGG,CCLE-SKCM
chr15:74481456:->chr15:74478181:-	chr15	74481456,74481456,74481456,74481456,74481456,74481456,74481456,74481456	74481456	ENST00000395105, ENST00000423167, ENST00000323940, ENST00000449139, ENST00000416286, ENST00000535552, ENST00000563965, ENST00000574278, ENST00000572785, ENST00000569936	-	chr15	74478181	74478204	-		857-864	378,402,400,354,406,363,355,40	CCLE-ESCA,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC
chr15:74481456:->chr15:74478184:-	chr15	74481456,74481456,74481456,74481456,74481456,74481456,74481456,74481456	74481456	ENST00000395105, ENST00000423167, ENST00000323940, ENST00000449139, ENST00000416286, ENST00000535552, ENST00000563965, ENST00000574278, ENST00000572785, ENST00000569936	-	chr15	74478184	74478204	-		865-872	378,402,400,354,406,363,355,40	CCLE-LGG,CCLE-LUSC,CCLE-SARC
chr15:75305146:+>chr15:75305681:+	chr15	75305018,75305018,75305018,75305018,75305018,75305018,75305018,75305018,75305067,75305018,75305018,75305018,75305018,75305018	75305146	ENST00000568423, ENST00000425597, ENST00000562327, ENST00000568018, ENST00000562212, ENST00000567920, ENST00000562765, ENST00000566872, ENST00000564491, ENST00000361900, ENST00000545456, ENST00000568119, ENST00000565989, ENST00000564779, ENST00000567529	+	chr15	75305681	75305726	+		873-874	45,26	CCLE-LGG,CCLE-LUSC
chr15:76248273:->chr15:76238186:-	chr15	76248273,76248273,76248273	76248273	ENST00000566417, ENST00000394907, ENST00000563910	-	chr15	76238186	76238643	-		875-875	110	CCLE-BLCA,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr15:77310872:+>chr15:77314118:+	chr15	77310798,77310798,77310798,77310798,77310798,77310798,77310798,77310798,77310799	77310872	ENST00000558407, ENST00000559785, ENST00000558012, ENST00000267939, ENST00000379595, ENST00000559750, ENST00000560796, ENST00000559161, ENST00000559295, ENST00000559859, ENST00000559856	+	chr15	77314118	77314231	+		876-881	24,61,36,70,135,69	CCLE-DLBC,CCLE-LCLL
chr15:77323619:+>chr15:77324446:+	chr15	77323521,77323521,77323521,77323521,77323521	77323619	ENST00000559785, ENST00000558012, ENST00000267939, ENST00000379595, ENST00000559295, ENST00000559856	+	chr15	77324446	77324483	+		882-885	220,247,312,246	CCLE-DLBC
chr15:77329427:+>chr15:77335963:+	chr15	77329386,77329386,77329386,77329386	77329427	ENST00000558012, ENST00000267939, ENST00000379595, ENST00000559295, ENST00000558870	+	chr15	77335963	77336443	+		886-890	387,384,368,367,104	CCLE-DLBC,CCLE-LCLL
chr15:81171208:+>chr15:81171734:+	chr15	81171062,81171062,81171062	81171208	ENST00000220244, ENST00000356249, ENST00000394685	+	chr15	81171734	81171898	+		891-891	80	CCLE-BRCA,CCLE-LUSC
chr15:92459688:+>chr15:92501550:+	chr15	92459223,92	92459688	ENST00000318445, ENST00000424469	+	chr15	92501550	92501558	+		892-892	215	CCLE-ESCA
chr15:92694244:+>chr15:92755251:+	chr15	92694180,93	92694244	ENST00000318445, ENST00000424469	+	chr15	92755251	92757599	+		893-893	584	CCLE-LUSC

chr15:93173444:->chr15:93171199:-	chr15	93173444,93173444,93173444,93173444,93173444,93173444,93173444,93173444	93173444	ENST00000327355, ENST00000553393, ENST00000555748, ENST00000555064, ENST00000555696, ENST00000557480, ENST00000556824, ENST00000557398	-	chr15	93171199	93171401	-	894-896	17,14,158	CCLE-BRCA,CCLE-LUSC,CCLE-SKCM
chr16:10631785:->chr16:10627477:-	chr16	10631785,11	10631785	ENST00000359543, ENST00000536829	-	chr16	10627477	10627584	-	897-897	105	CCLE-BRCA
chr16:16170258:+>chr16:13908096:-	chr16	16170183,16170183,16170183,16170183,16170183,16170183,16170183,16170183	16170258	ENST00000399410, ENST00000345148, ENST00000346370, ENST00000349029, ENST00000351154, ENST00000399408, ENST00000572882	+	chr16	13908096	13908308	-	898-899	662,561	CCLE-BLCA
chr16:16196574:+>chr16:16197279:+	chr16	16196484,16196484,16196484,16196484,16196484,16196484,16196484,16196484	16196574	ENST00000399410, ENST00000345148, ENST00000346370, ENST00000349029, ENST00000351154, ENST00000399408, ENST00000572882, ENST00000572053	+	chr16	16197279	16197458	+	900-906	921,911,855,852,796,11,820	CCLE-LCLL,CCLE-LUSC
chr16:16225792:+>chr16:16226761:+	chr16	16225646,16225646,16225646,16225646,16225646,16225646,16225646,16225646	16225792	ENST00000399410, ENST00000345148, ENST00000346370, ENST00000349029, ENST00000351154, ENST00000399408, ENST00000572882	+	chr16	16226761	16226905	+	907-912	1332,1322,1266,1263,1207,1231	CCLE-LUSC
chr16:16295858:->chr16:16294954:-	chr16	16295858,16	16295858	ENST00000205557, ENST00000456970	-	chr16	16294954	16295123	-	913-913	392	CCLE-BRCA,CCLE-COAD,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD
chr16:2142955:->chr16:2142780:-	chr16	2142955,214	2142955	ENST00000262304, ENST00000423118	-	chr16	2142780	2142891	-	914-915	3717,3718	CCLE-LGG,CCLE-LUSC
chr16:23360231:+>chr16:23360529:+	chr16	23359921,23359913,23359921,23359921,23359921	23360231	ENST00000343070, ENST00000307331, ENST00000564275, ENST00000568085, ENST00000568923	+	chr16	23360529	23360770	+	916-917	103,148	CCLE-MM
chr16:23364395:+>chr16:23365549:+	chr16	23364122,23364122,23364122,23364122,23364122	23364395	ENST00000343070, ENST00000307331, ENST00000564275, ENST00000568085, ENST00000568923	+	chr16	23365549	23365616	+	918-919	195,24	CCLE-MM
chr16:27351594:+>chr16:27351902:+	chr16	27351525,27351525,27351525,27351525,27351525,27351525,27351525,27351525	27351594	ENST00000566117, ENST00000395762, ENST00000562142, ENST00000563926, ENST00000543915, ENST00000449195, ENST00000568746, ENST00000566318, ENST00000563002, ENST00000170630	+	chr16	27351902	27352054	+	920-920	23	CCLE-BRCA,CCLE-DLBC
chr16:27356341:+>chr16:27356893:+	chr16	27356190,27356190,27356190,27356190,27356190,27356190,27356190,27356229	27356341	ENST00000566117, ENST00000395762, ENST00000543915, ENST00000449195, ENST00000380922, ENST00000566318, ENST00000563002, ENST00000170630, ENST00000562968	+	chr16	27356893	27357008	+	921-923	120,105,38	CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LUSC
chr16:27356341:+>chr16:27357044:+	chr16	27356190,27356190,27356190,27356190,27356190,27356190,27356190,27356229	27356341	ENST00000566117, ENST00000395762, ENST00000543915, ENST00000449195, ENST00000380922, ENST00000566318, ENST00000563002, ENST00000170630, ENST00000562968	+	chr16	27357044	27357321	+	924-926	120,105,38	CCLE-DLBC
chr16:2867457:+>chr16:2875971:+	chr16	2867431,2867431,2867431,2867431,2867431	2867457	ENST00000455114, ENST00000450020, ENST00000005995, ENST00000570629, ENST00000570594, ENST00000574813	+	chr16	2875971	2876154	+	927-930	27,30,23	CCLE-ESCA
chr16:28946875:+>chr16:28947601:+	chr16	28946765,28946765,28946765	28946875	ENST00000538922, ENST00000324662, ENST00000567541	+	chr16	28947601	28947688	+	931-931	315	CCLE-DLBC,CCLE-LCLL

chr16:28998214:+>chr16:29000207:+	chr16	28998120,28998120,28998120,28998120,28998120,28998120,28998120,28998120	28998214	ENST00000395461, ENST00000564277, ENST00000395456, ENST00000454369, ENST00000360872, ENST00000354453, ENST00000566177, ENST00000570232	+	chr16	29000207	29000347	+	932-938	84,200,164,193,183,163,192	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr16:28998214:+>chr16:29000220:+	chr16	28998120,28998120,28998120,28998120,28998120,28998120,28998120,28998120	28998214	ENST00000395461, ENST00000564277, ENST00000395456, ENST00000454369, ENST00000360872, ENST00000354453, ENST00000566177, ENST00000570232	+	chr16	29000220	29000347	+	939-945	84,200,164,193,183,163,192	CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-SARC
chr16:30500707:+>chr16:30505185:+	chr16	30500575,31	30500707	ENST00000356798, ENST00000358164	+	chr16	30505185	30505229	+	946-947	404,321	CCLE-LCLL
chr16:30507522:+>chr16:30509357:+	chr16	30507418,31	30507522	ENST00000356798, ENST00000358164	+	chr16	30509357	30509357	+	948-949	536,453	CCLE-LCLL
chr16:30507887:+>chr16:30509127:+	chr16	30507757,31	30507887	ENST00000356798, ENST00000358164	+	chr16	30509127	30509281	+	950-951	610,527	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr16:30522457:+>chr16:30525008:+	chr16	30522371,30522371,30522371	30522457	ENST00000356798, ENST00000358164, ENST00000433423	+	chr16	30525008	30525031	+	952-954	162,928,844	CCLE-LCLL
chr16:4033233:->chr16:4032817:-	chr16	4033233,403	4033233	ENST00000576936, ENST00000294016	-	chr16	4032817	4032838	-	955-956	839,72	CCLE-SKCM
chr16:4057369:->chr16:4053508:-	chr16	4057369,406	4057369	ENST00000294016, ENST00000572288	-	chr16	4053508	4053544	-	957-958	156,628	CCLE-KIRC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-SARC
chr16:4163751:->chr16:4068626:-	chr16	4163751,4163751,4163751	4163751	ENST00000294016, ENST00000571467, ENST00000572288	-	chr16	4068626	4068807	-	959-961	92,564,59	CCLE-LUSC
chr16:47644831:+>chr16:47664912:+	chr16	47644737,47644737,47644737,47644737,47644737	47644831	ENST00000566044, ENST00000455779, ENST00000299167, ENST00000323584, ENST00000568439	+	chr16	47664912	47665086	+	962-964	479,486,67	CCLE-DLBC,CCLE-LUSC
chr16:47684832:+>chr16:47687610:+	chr16	47684742,47684742,47684742,47684742	47684832	ENST00000566044, ENST00000455779, ENST00000299167, ENST00000323584	+	chr16	47687610	47687764	+	965-966	650,657	CCLE-BRCA
chr16:47699943:+>chr16:47700429:+	chr16	47699853,47699853,47699853	47699943	ENST00000566044, ENST00000299167, ENST00000566275	+	chr16	47700429	47700682	+	967-969	802,809,116	CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-LUSC,CCLE-MM,CCLE-STAD
chr16:4937136:->chr16:4936556:-	chr16	4937136,4937136,4937136	4937136	ENST00000345988, ENST00000590782, ENST00000592772	-	chr16	4936556	4936585	-	970-972	869,867,290	CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr16:50642271:+>chr16:50643591:+	chr16	50642205	50642271	ENST00000268459	+	chr16	50643591	50643634	+	973-973	86	CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr16:50659491:+>chr16:50662053:+	chr16	50659396	50659491	ENST00000268459	+	chr16	50662053	50662283	+	974-974	154	CCLE-LUSC
chr16:50659491:+>chr16:50663373:+	chr16	50659396	50659491	ENST00000268459	+	chr16	50663373	50663449	+	975-975	154	CCLE-LUSC,CCLE-STAD
chr16:50659491:+>chr16:50663376:+	chr16	50659396	50659491	ENST00000268459	+	chr16	50663376	50663449	+	976-976	154	CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr16:55543264:+>chr16:55551277:+	chr16	55543094	55543264	ENST00000262134	+	chr16	55551277	55553009	+	977-977	57	CCLE-LCLL
chr16:55543264:+>chr16:55553476:+	chr16	55543094	55543264	ENST00000262134	+	chr16	55553476	55557837	+	978-978	57	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr16:55703608:+>chr16:55705469:+	chr16	55703477,55703477,55703477,55703477,55703477,55703477,55703477,55703477	55703608	ENST00000568943, ENST00000568529, ENST00000414754, ENST00000568655, ENST00000379906, ENST00000561820, ENST00000219833, ENST00000566163	+	chr16	55705469	55705731	+	979-979	135	CCLE-LGG
chr16:56902284:+>chr16:56903068:+	chr16	56902209,56902209,56902209,56902209	56902284	ENST00000566786, ENST00000438926, ENST00000563236, ENST00000262502	+	chr16	56903068	56903137	+	980-981	167,168	CCLE-OV
chr16:56938374:+>chr16:56939223:+	chr16	56938307,56938307,56938307,56938307	56938374	ENST00000566786, ENST00000438926, ENST00000563236, ENST00000262502	+	chr16	56939223	56939280	+	982-985	982,973,983,974	CCLE-OV
chr16:57149462:+>chr16:57150975:+	chr16	57149388,57149388,57149388,57149388,57149388	57149462	ENST00000290776, ENST00000537605, ENST00000535318, ENST00000565874, ENST00000567487	+	chr16	57150975	57151030	+	986-987	145,43	CCLE-KIRC,CCLE-LCLL,CCLE-LGG

chr16:57828911:->chr16:57813828:-	chr16	57828911,57828911,57828911,57828911,57828911,57828911,57828911,57828909,57828911	57828911	ENST00000379655, ENST00000445690, ENST00000541240, ENST00000566648, ENST00000565684, ENST00000567059, ENST00000563028, ENST00000564891	-	chr16	57813828	57814071	-	988-991	154,127,133,105	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr16:57828911:->chr16:57813863:-	chr16	57828911,57828911,57828911,57828911,57828911,57828911,57828911,57828909,57828911	57828911	ENST00000379655, ENST00000445690, ENST00000541240, ENST00000566648, ENST00000565684, ENST00000567059, ENST00000563028, ENST00000564891	-	chr16	57813863	57814071	-	992-995	154,127,133,105	CCLE-BLCA,CCLE-CESC,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr16:58768044:->chr16:58758957:-	chr16	58768044,58768044,58768044	58768044	ENST00000245206, ENST00000434819, ENST00000568368	-	chr16	58758957	58758969	-	996-996	29	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr16:62055056:->chr16:62051136:-	chr16	62055056,62055056,62055056,62055056,62055056,62055056	62055056	ENST00000577730, ENST00000585315, ENST00000299345, ENST00000577390, ENST00000584337, ENST00000583382	-	chr16	62051136	62051300	-	997-997	84	CCLE-BLCA,CCLE-DLBC,CCLE-LUSC,CCLE-SARC
chr16:64984670:->chr16:64978001:-	chr16	64984670,64984670,64984670	64984670	ENST00000394156, ENST00000268603, ENST00000566827	-	chr16	64978001	64978242	-	998-999	505,631	CCLE-BRCA,CCLE-LGG
chr16:76486666:+>chr16:76492947:+	chr16	76486405,76486405,76486405,76486405	76486666	ENST00000307431, ENST00000377504, ENST00000478060, ENST00000476707	+	chr16	76492947	76492964	+	1000-1003	395,443,447,371	CCLE-LGG
chr16:818565:+>chr16:821917:+	chr16	818379,818379,818379,818379,818379,818379	818565	ENST00000563941, ENST00000545450, ENST00000566549, ENST00000382862, ENST00000566269, ENST00000561896	+	chr16	821917	822204	+	1004-1007	602,594,298,316	CCLE-COAD,CCLE-LUSC
chr16:83251102:+>chr16:83265849:+	chr16	83250950,83250950,83250950	83251102	ENST00000566620, ENST00000268613, ENST00000428848	+	chr16	83265849	83266171	+	1008-1010	259,212,173	CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr16:83781855:+>chr16:83784217:+	chr16	83781713,83781713,83781713	83781855	ENST00000566620, ENST00000268613, ENST00000428848	+	chr16	83784217	83784505	+	1011-1013	607,560,521	CCLE-SKCM
chr16:84014732:+>chr16:84015607:+	chr16	84014635,84014635,84014635	84014732	ENST00000305202, ENST00000565691, ENST00000566836	+	chr16	84015607	84015728	+	1014-1016	153,70,44	CCLE-LUSC
chr16:84488590:+>chr16:84490308:+	chr16	84488424,84	84488590	ENST00000262429, ENST00000416219	+	chr16	84490308	84492114	+	1017-1017	715	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr16:84488590:+>chr16:84490583:+	chr16	84488424,84	84488590	ENST00000262429, ENST00000416219	+	chr16	84490583	84492114	+	1018-1018	715	CCLE-LUSC
chr16:87868020:->chr16:87867627:-	chr16	87868020,88	87868020	ENST00000565644, ENST00000261622	-	chr16	87867627	87867717	-	1019-1020	489,223	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr16:88717364:->chr16:88716100:-	chr16	88717364,88717364,88717364,88717364	88717364	ENST00000261623, ENST00000567174, ENST00000569359, ENST00000568278	-	chr16	88716100	88716137	-	1021-1021	19	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr16:88787574:->chr16:88787245:-	chr16	88787574	88787574	ENST00000301015	-	chr16	88787245	88787311	-	1022-1022	1889	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr16:89645404:+>chr16:89645543:+	chr16	89645265	89645404	ENST00000268720	+	chr16	89645543	89645712	+	1023-1023	165	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr16:89655216:+>chr16:89655555:+	chr16	89655083,89655083,89655083,89655212	89655216	ENST00000268720, ENST00000319518, ENST00000529800, ENST00000568977	+	chr16	89655555	89655711	+	1024-1027	1,73,353,428	CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-PAAD,CCLE-STAD
chr16:89703960:+>chr16:89710269:+	chr16	89703876,89703876,89703876	89703960	ENST00000421184, ENST00000393092, ENST00000261615	+	chr16	89710269	89710351	+	1028-1028	284	CCLE-LCLL
chr16:89930269:+>chr16:89930517:+	chr16	89930202,9	89930269	ENST00000393062, ENST00000378247	+	chr16	89930517	89930810	+	1029-1029	592	CCLE-LUSC,CCLE-PAAD
chr16:89934624:+>chr16:89935294:+	chr16	89934597	89934624	ENST00000378247	+	chr16	89935294	89935459	+	1030-1030	602	CCLE-COAD,CCLE-ESCA,CCLE-PAAD

chr17:1370536:->chr17:1369219:-	chr17	1370536,1370536,1370536,1370536,1370536,1370536	1370536	ENST00000359786,ENST00000438665,ENST00000575158,ENST00000361007,ENST00000545534	-	chr17	1369219	1369260	-	1031-1034	1031,1055,1020,1036	CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr17:1377904:->chr17:1376082:-	chr17	1377904,1377904,1377904,1377904,1377904	1377904	ENST00000359786,ENST00000438665,ENST00000575158,ENST00000361007,ENST00000545534	-	chr17	1376082	1376131	-	1035-1038	575,599,564,580	CCLE-COAD,CCLE-LUSC
chr17:15848897:+>chr17:15872903:+	chr17	15848563	15848897	ENST00000304222	+	chr17	15872903	15873203	+	1039-1039	111	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr17:1612793:->chr17:1593887:-	chr17	1612793	1612793	ENST00000330676	-	chr17	1593887	1593961	-	1040-1040	114	CCLE-BRCA
chr17:19608749:->chr17:19608433:-	chr17	19608749,19608749,19608749	19608749	ENST00000325411,ENST00000350657,ENST00000433844	-	chr17	19608433	19608434	-	1041-1042	339,303	CCLE-ESCA
chr17:25877734:+>chr17:25878287:+	chr17	25877594,26	25877734	ENST00000509603,ENST00000319524	+	chr17	25878287	25878323	+	1043-1043	124	CCLE-DLBC,CCLE-ESCA,CCLE-LUSC
chr17:27224544:->chr17:27220568:-	chr17	27224544,27224544,27224544,27224544,27224544	27224544	ENST00000394906,ENST00000394908,ENST00000580805,ENST00000585169,ENST00000586827	-	chr17	27220568	27220612	-	1044-1044	16	CCLE-DLBC
chr17:30932105:->chr17:30927669:-	chr17	30932105,30932105,30932105	30932105	ENST00000318217,ENST00000394649,ENST00000579584	-	chr17	30927669	30927958	-	1045-1046	954,866	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr17:30932105:->chr17:30928380:-	chr17	30932105,30932105,30932105	30932105	ENST00000318217,ENST00000394649,ENST00000579584	-	chr17	30928380	30928849	-	1047-1048	954,866	CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM
chr17:31048041:->chr17:31044816:-	chr17	31048041,31048041,31048041	31048041	ENST00000318217,ENST00000394649,ENST00000579584	-	chr17	31044816	31045107	-	1049-1050	637,549	CCLE-LUSC
chr17:31350879:->chr17:31349436:-	chr17	31350879,31	31350879	ENST00000225823,ENST00000359872	-	chr17	31349436	31349448	-	1051-1052	398,449	CCLE-LUSC
chr17:31618426:->chr17:31561582:-	chr17	31618426	31618426	ENST00000225823	-	chr17	31561582	31561928	-	1053-1053	236	CCLE-BLCA,CCLE-CESC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-UCEC
chr17:3474818:->chr17:3467952:-	chr17	3474818,3474818,3474818,3474818,3474818,3474818,3474818,3474818	3474818	ENST00000399759,ENST00000571088,ENST00000572705,ENST00000174621,ENST00000399756,ENST00000425167,ENST00000576351,ENST00000310522	-	chr17	3467952	3468357	-	1054-1058	780,722,793,772,782	CCLE-LUSC
chr17:3543561:+>chr17:3548878:+	chr17	3543501,3543501,3543501,3543501,3543557,3543501,3543501,3543501	3543561	ENST00000046640,ENST00000381870,ENST00000452111,ENST00000441220,ENST00000467663,ENST00000399306,ENST00000576979	+	chr17	3548878	3549173	+	1059-1060	20,1	CCLE-LUSC
chr17:37868701:+>chr17:37869016:+	chr17	37868575,37868575,37868575,37868575,37868575,37868575,37868575,37868575,37868575	37868701	ENST00000584601,ENST00000578199,ENST00000406381,ENST00000541774,ENST00000445658,ENST00000540147,ENST00000584450,ENST00000269571,ENST00000540042,ENST00000578502	+	chr17	37869016	37869373	+	1061-1065	106,382,352,367,124	CCLE-BRCA,CCLE-LUSC,CCLE-STAD
chr17:37868701:+>chr17:37869978:+	chr17	37868575,37868575,37868575,37868575,37868575,37868575,37868575,37868575,37868575	37868701	ENST00000584601,ENST00000578199,ENST00000406381,ENST00000541774,ENST00000445658,ENST00000540147,ENST00000584450,ENST00000269571,ENST00000540042,ENST00000578502	+	chr17	37869978	37870025	+	1066-1070	106,382,352,367,124	CCLE-BRCA
chr17:37872858:+>chr17:37873247:+	chr17	37872768,37872768,37872768,37872768,37872768,37872768,37872768,37872768,37872768	37872858	ENST00000584601,ENST00000578199,ENST00000406381,ENST00000541774,ENST00000445658,ENST00000540147,ENST00000584450,ENST00000269571,ENST00000540042,ENST00000582818	+	chr17	37873247	37873260	+	1071-1075	303,579,549,564,19	CCLE-BRCA

chr17:40278773:->chr17:40278069:-	chr17	40278773,40278773,40278773,40278648	40278773	ENST00000346213,ENST00000393860,ENST00000547517,ENST00000551338	-	chr17	40278069	40278165	-	1076-1078	178,211,109	CCLE-LCLL,CCLE-LUSC
chr17:40280279:->chr17:40280103:-	chr17	40280279,40280279,40280279,40280279,40280279,40280279	40280279	ENST00000592248,ENST00000592574,ENST00000346213,ENST00000393860,ENST00000547517,ENST00000551338	-	chr17	40280103	40280125	-	1079-1081	147,180,78	CCLE-ESCA,CCLE-LUSC
chr17:41369331:+>chr17:41400893:-	chr17	41369278,41369278,41369278,41369278,41369278	41369331	ENST00000588693,ENST00000588659,ENST00000541594,ENST00000536052,ENST00000331615	+	chr17	41400893	41401528	-	1082-1084	175,222,174	CCLE-LCLL
chr17:4428488:+>chr17:4429016:+	chr17	4428352	4428488	ENST00000329078	+	chr17	4429016	4429158	+	1085-1085	191	CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr17:45385003:+>chr17:45385251:+	chr17	45384837,45384837,45384837	45385003	ENST00000559488,ENST00000435993,ENST00000560629	+	chr17	45385251	45385526	+	1086-1088	720,767,756	CCLE-BLCA,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr17:45385003:+>chr17:45399834:+	chr17	45384837,45384837,45384837	45385003	ENST00000559488,ENST00000435993,ENST00000560629	+	chr17	45399834	45400461	+	1089-1091	720,767,756	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-THCA,CCLE-UCEC
chr17:48149546:+>chr17:48150324:+	chr17	48149350,48149350,48149350,48149524	48149546	ENST00000544892,ENST00000320031,ENST00000007722,ENST00000510809	+	chr17	48150324	48150544	+	1092-1094	385,160,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr17:48157739:+>chr17:48158059:+	chr17	48157626,48157626,48157681	48157739	ENST00000320031,ENST00000007722,ENST00000504417	+	chr17	48158059	48158150	+	1095-1096	940,2	CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr17:48674284:+>chr17:48674518:+	chr17	48674091,48674091	48674284	ENST00000360761,ENST00000354983,ENST00000352832,ENST00000442258,ENST00000416767,ENST00000502264,ENST00000503436,ENST00000503485,ENST00000503607,ENST00000504076,ENST00000505165,ENST00000506406,ENST00000507336,ENST00000507510,ENST00000507609,ENST00000507896,ENST00000510115,ENST00000510366,ENST00000511765,ENST00000511768,ENST00000512389,ENST00000513689,ENST00000513964,ENST00000514079,ENST00000514181,ENST00000514717,ENST00000515165,ENST00000515411,	+	chr17	48674518	48674573	+	1097-1098	1086,1063	CCLE-DLBC
chr17:48742606:+>chr17:48743541:+	chr17	48742514,48742514,48742514,48742514	48742606	ENST00000427699,ENST00000285238,ENST00000502426,ENST00000505699	+	chr17	48743541	48743550	+	1099-1100	495,477	CCLE-KIRC,CCLE-LUSC,CCLE-OV
chr17:48746889:+>chr17:48750082:+	chr17	48746713,49	48746889	ENST00000285238,ENST00000505699	+	chr17	48750082	48750246	+	1101-1101	747	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD,CCLE-THCA
chr17:48746889:+>chr17:48750120:+	chr17	48746713,49	48746889	ENST00000285238,ENST00000505699	+	chr17	48750120	48750246	+	1102-1102	747	CCLE-LUSC,CCLE-STAD
chr17:5126628:->chr17:5126455:-	chr17	5126628,513	5126628	ENST00000574081,ENST00000574297	-	chr17	5126455	5126532	-	1103-1103	48	CCLE-DLBC
chr17:5126649:->chr17:5126455:-	chr17	5126628,5126649,5126649,5126628	5126649	ENST00000574081,ENST00000399600,ENST00000571800,ENST00000574297	-	chr17	5126455	5126532	-	1104-1104	41	CCLE-DLBC,CCLE-LCLL
chr17:62594500:->chr17:62591300:-	chr17	62594500,62594500,62594500,62594500	62594500	ENST00000582081,ENST00000578386,ENST00000262435,ENST00000585301	-	chr17	62591300	62591302	-	1105-1106	53,66	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr17:62657947:->chr17:62610044:-	chr17	62657947,62657947,62657947,62657947	62657947	ENST00000582081,ENST00000578386,ENST00000262435,ENST00000585301	-	chr17	62610044	62610293	-	1107-1107	17	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC

chr17:63049620:->chr17:63017067:-	chr17	63049620,63	63049620	ENST00000439174, ENST00000541118	-	chr17	63017067	63017068	-	1108-1109	170,75	CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-LGG,CCLE-LUSC
chr17:66526142:+>chr17:66553633:+	chr17	66526061,66526061,66526061,66526061,66526061,66526061,66526061,66526061	66526142	ENST00000358598, ENST00000392711, ENST00000589228, ENST00000536854, ENST00000586397, ENST00000588188, ENST00000592800	+	chr17	66553633	66553809	+	1110-1111	324,128	CCLE-LUSC
chr17:67260876:->chr17:67260477:-	chr17	67260876,67260876,67260876,67260876	67260876	ENST00000392676, ENST00000392677, ENST00000588877, ENST00000586811	-	chr17	67260477	67260506	-	1112-1114	71,1106,1105	CCLE-LUSC
chr17:67293332:->chr17:67291342:-	chr17	67293332,67293332,67293332,67293332,67293332	67293332	ENST00000392676, ENST00000392677, ENST00000588877, ENST00000586995, ENST00000593153	-	chr17	67291342	67292074	-	1115-1116	478,149	CCLE-LUSC
chr17:67309233:->chr17:67306575:-	chr17	67309233,67309233,67309233,67309233,67309233,67309233,67309233	67309233	ENST00000392676, ENST00000392677, ENST00000588877, ENST00000593153, ENST00000593253, ENST00000587607, ENST00000592568	-	chr17	67306575	67306578	-	1117-1117	102	CCLE-LUSC
chr17:70732789:->chr17:70695344:-	chr17	70732789,70732789,70732789,70732789	70732789	ENST00000255559, ENST00000542342, ENST00000582769, ENST00000581581	-	chr17	70695344	70695535	-	1118-1121	47,223,230,139	CCLE-SKCM
chr17:70845773:->chr17:70814077:-	chr17	70845773,70845773,70845773,70845773,70845773,70845773,70845773,70845773	70845773	ENST00000255559, ENST00000542342, ENST00000582769, ENST00000581581, ENST00000579319, ENST00000583715, ENST00000579732, ENST00000580557	-	chr17	70814077	70814303	-	1122-1127	24,200,207,116,57,48	CCLE-BRCA,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr17:70845773:->chr17:70814543:-	chr17	70845773,70845773,70845773,70845773,70845773,70845773,70845773,70845773	70845773	ENST00000255559, ENST00000542342, ENST00000582769, ENST00000581581, ENST00000579319, ENST00000583715, ENST00000579732, ENST00000580557	-	chr17	70814543	70814900	-	1128-1133	24,200,207,116,57,48	CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr17:70845773:->chr17:70814616:-	chr17	70845773,70845773,70845773,70845773,70845773,70845773,70845773,70845773	70845773	ENST00000255559, ENST00000542342, ENST00000582769, ENST00000581581, ENST00000579319, ENST00000583715, ENST00000579732, ENST00000580557	-	chr17	70814616	70814900	-	1134-1139	24,200,207,116,57,48	CCLE-LCLL
chr17:70845773:->chr17:70827589:-	chr17	70845773,70845773,70845773,70845773,70845773,70845773,70845773,70845773	70845773	ENST00000255559, ENST00000542342, ENST00000582769, ENST00000581581, ENST00000579319, ENST00000583715, ENST00000579732, ENST00000580557	-	chr17	70827589	70827743	-	1140-1145	24,200,207,116,57,48	CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr17:71452045:->chr17:71451140:-	chr17	71452045,71	71452045	ENST00000392650, ENST00000388726	-	chr17	71451140	71451141	-	1146-1146	159	CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr17:72473669:+>chr17:72473988:+	chr17	72473575,72473575,72473575,72473575	72473669	ENST00000360141, ENST00000392625, ENST00000310828, ENST00000577511	+	chr17	72473988	72474092	+	1147-1149	79,96,209	CCLE-MM
chr17:72843447:->chr17:72843222:-	chr17	72843447,73	72843447	ENST00000293190, ENST00000347612	-	chr17	72843222	72843269	-	1150-1150	667	CCLE-DLBC,CCLE-LUSC
chr17:73725517:+>chr17:73726063:+	chr17	73725346,73725346,73725346,73725346,73725346	73725517	ENST00000579662, ENST00000339591, ENST00000200181, ENST00000450894, ENST00000449880	+	chr17	73726063	73726108	+	1151-1151	246	CCLE-BLCA,CCLE-COAD,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD
chr17:73733725:+>chr17:73734167:+	chr17	73733619,73733619,73733619,73733619,73733619	73733725	ENST00000579662, ENST00000339591, ENST00000200181, ENST00000450894, ENST00000449880	+	chr17	73734167	73734266	+	1152-1152	740	CCLE-ESCA,CCLE-LUSC
chr17:73835920:->chr17:73835763:-	chr17	73835920,73835920,73835920	73835920	ENST00000207549, ENST00000412096, ENST00000587105	-	chr17	73835763	73835827	-	1153-1154	351,92	CCLE-LCLL
chr17:73913813:->chr17:73913221:-	chr17	73913813,73913813,73913813,73913813,73913813	73913813	ENST00000586717, ENST00000319129, ENST00000389570, ENST00000592193, ENST00000588283	-	chr17	73913221	73913226	-	1155-1158	820,821,10,835	CCLE-LUSC,CCLE-SKCM

chr17:74472912:->chr17:74472151:-	chr17	74472912,74472912,74472912,74472912	74472912	ENST00000389760,ENST00000313080,ENST00000591885	-	chr17	74472151	74472289	-	1159-1160	400,371	CCLE-COAD,CCLE-DLBC
chr17:76676272:->chr17:76644957:-	chr17	76676272,76676272,76676272,76676272,76676272,76676272	76676272	ENST00000585509,ENST00000589297,ENST00000591455,ENST00000361101,ENST00000446868	-	chr17	76644957	76644998	-	1161-1163	372,371,313	CCLE-ESCA,CCLE-LUSC
chr17:76688499:->chr17:76684930:-	chr17	76688499,76688499,76688499,76688499,76688499,76688499	76688499	ENST00000585509,ENST00000589297,ENST00000591455,ENST00000361101,ENST00000446868	-	chr17	76684930	76685739	-	1164-1166	297,296,238	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM
chr17:7946202:+>chr17:7946342:+	chr17	7946099,7946099,7946099,7946099	7946202	ENST00000380183,ENST00000572022,ENST00000380173,ENST00000573359	+	chr17	7946342	7946385	+	1167-1167	225	CCLE-BRCA
chr17:80223562:->chr17:80216656:-	chr17	80223562,80223562,80223562,80223562	80223562	ENST00000398519,ENST00000314028,ENST00000392334,ENST00000403276	-	chr17	80216656	80216756	-	1168-1168	62	CCLE-LUSC
chr17:80223562:->chr17:80216658:-	chr17	80223562,80223562,80223562,80223562	80223562	ENST00000398519,ENST00000314028,ENST00000392334,ENST00000403276	-	chr17	80216658	80216756	-	1169-1169	62	CCLE-BRCA,CCLE-LGG,CCLE-LUSC
chr17:80656331:->chr17:80626107:-	chr17	80656331,81	80656331	ENST00000571995,ENST00000538809	-	chr17	80626107	80626786	-	1170-1170	47	CCLE-COAD
chr17:80730383:+>chr17:80733982:+	chr17	80730328,81	80730383	ENST00000355528,ENST00000539345	+	chr17	80733982	80734106	+	1171-1171	212	CCLE-LGG
chr17:9281869:->chr17:9156440:-	chr17	9281869,928	9281869	ENST00000306357,ENST00000574431	-	chr17	9156440	9156513	-	1172-1173	214,103	CCLE-LUSC
chr17:9739792:+>chr17:9742054:+	chr17	9739688	9739792	ENST00000262441	+	chr17	9742054	9742115	+	1174-1174	127	CCLE-LUSC
chr17:9765407:+>chr17:9769151:+	chr17	9765338,977	9765407	ENST00000574745,ENST00000262441	+	chr17	9769151	9769372	+	1175-1176	352,172	CCLE-LUSC
chr17:9791290:+>chr17:9795125:+	chr17	9791249,979	9791290	ENST00000574745,ENST00000262441	+	chr17	9795125	9795224	+	1177-1178	442,262	CCLE-LIHC,CCLE-LUSC
chr18:12493071:->chr18:12491865:-	chr18	12493071,12493071,12493071,12493071,12493071,12493071,12493071	12493071	ENST00000409402,ENST00000410092,ENST00000309836,ENST00000440472,ENST00000453447,ENST00000592156,ENST00000383356	-	chr18	12491865	12491871	-	1179-1183	237,396,199,276,87	CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr18:12635061:->chr18:12628847:-	chr18	12635061,12635061,12635061,12635061,12635061,12635061,12635061	12635061	ENST00000409402,ENST00000410092,ENST00000309836,ENST00000453447,ENST00000449797,ENST00000497844,ENST00000462226	-	chr18	12628847	12628869	-	1184-1186	124,4,22	CCLE-BLCA,CCLE-CESC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr18:158714:+>chr18:162725:+	chr18	158699,158699,158699,158699,158699	158714	ENST00000582707,ENST00000400266,ENST00000383589,ENST00000261601	+	chr18	162725	162798	+	1187-1187	5	CCLE-LUSC
chr18:18533539:->chr18:18529279:-	chr18	18533539,19	18533539	ENST00000399799,ENST00000578051	-	chr18	18529279	18529640	-	1188-1189	1353,98	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SKCM,CCLE-STAD
chr18:19353689:+>chr18:19354436:+	chr18	19353585	19353689	ENST00000261537	+	chr18	19354436	19354563	+	1190-1190	212	CCLE-LUSC,CCLE-SARC
chr18:19359646:+>chr18:19364603:+	chr18	19359442	19359646	ENST00000261537	+	chr18	19364603	19365382	+	1191-1191	302	CCLE-LGG,CCLE-LUSC
chr18:25543321:->chr18:25515291:-	chr18	25543321,26	25543321	ENST00000269141,ENST00000399380	-	chr18	25515291	25515511	-	1192-1193	838,807	CCLE-LUSC,CCLE-THCA
chr18:29625695:+>chr18:29667861:+	chr18	29625605	29625695	ENST00000217740	+	chr18	29667861	29668035	+	1194-1194	168	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-MM,CCLE-SKCM
chr18:29645972:+>chr18:29667861:+	chr18	29645865	29645972	ENST00000217740	+	chr18	29667861	29668035	+	1195-1195	204	CCLE-DLBC,CCLE-LCLL
chr18:3845232:->chr18:3840490:-	chr18	3845232,3845232,3845232,3845232	3845232	ENST00000400147,ENST00000539435,ENST00000400145	-	chr18	3840490	3840671	-	1196-1196	17	CCLE-OV,CCLE-SARC
chr18:3845232:->chr18:3840493:-	chr18	3845232,3845232,3845232,3845232	3845232	ENST00000400147,ENST00000539435,ENST00000400145	-	chr18	3840493	3840671	-	1197-1197	17	CCLE-OV,CCLE-SARC
chr18:60036717:+>chr18:60046490:+	chr18	60035934	60036717	ENST00000586569	+	chr18	60046490	60047005	+	1198-1198	522	CCLE-COAD
chr18:8706711:+>chr18:8708193:+	chr18	8705659	8706711	ENST00000306329	+	chr18	8708193	8708205	+	1199-1199	351	CCLE-ESCA
chr18:8720494:+>chr18:8720654:+	chr18	8720336,8720336,8720336,8720336	8720494	ENST00000306329,ENST00000517570,ENST00000400050,ENST00000359865	+	chr18	8720654	8720802	+	1200-1201	119,479	CCLE-CESC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD

chr18:8807058:+>chr18:8809351:+	chr18	8806891,8806891,8806891,8806891,8806891,8806891	8807058	ENST00000306329, ENST00000517570, ENST00000306285, ENST00000400050, ENST00000359865, ENST00000518815	+	chr18	8809351	8809360	+	1202-1205	868,827,1187,183	CCLE-BLCA,CCLE-ESCA,CCLE-LIHC,CCLE-LUSC
chr18:9914332:+>chr18:9927093:+	chr18	9914254,9914254,9914254	9914332	ENST00000400000, ENST00000340541, ENST00000585042	+	chr18	9927093	9927326	+	1206-1206	26	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr18:9914332:+>chr18:9983941:+	chr18	9914254,9914254,9914254	9914332	ENST00000400000, ENST00000340541, ENST00000585042	+	chr18	9983941	9984271	+	1207-1207	26	CCLE-HNSC
chr18:9950565:+>chr18:9953107:+	chr18	9950392,995	9950565	ENST00000400000, ENST00000340541	+	chr18	9953107	9953626	+	1208-1209	242,197	CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-PAAD
chr18:9950565:+>chr18:9983941:+	chr18	9950392,995	9950565	ENST00000400000, ENST00000340541	+	chr18	9983941	9984271	+	1210-1211	242,197	CCLE-BRCA,CCLE-DLBC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr19:11213462:+>chr19:11214539:+	chr19	11213340,11213340,11213340,11213340,11213340,11213340	11213462	ENST00000558518, ENST00000557933, ENST00000455727, ENST00000545707, ENST00000558013, ENST00000252444	+	chr19	11214539	11214666	+	1212-1213	104,189	CCLE-BLCA,CCLE-LCLL,CCLE-LUSC
chr19:11240346:+>chr19:11243593:+	chr19	11240189,11240127,11240189,11240189,11240189,11240189,11240189	11240346	ENST00000558518, ENST00000557933, ENST00000455727, ENST00000535915, ENST00000545707, ENST00000558013, ENST00000252444	+	chr19	11243593	11243901	+	1214-1219	681,869,849,671,808,934	CCLE-LUSC
chr19:12963209:+>chr19:12963292:+	chr19	12963142,12963142,12963142	12963209	ENST00000591495, ENST00000251472, ENST00000588379	+	chr19	12963292	12963350	+	1220-1222	355,359,313	CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-STAD
chr19:12963209:+>chr19:12963550:+	chr19	12963142,12963142,12963142	12963209	ENST00000591495, ENST00000251472, ENST00000588379	+	chr19	12963550	12963690	+	1223-1225	355,359,313	CCLE-LGG,CCLE-LUSC,CCLE-MM
chr19:12963209:+>chr19:12968988:+	chr19	12963142,12963142,12963142	12963209	ENST00000591495, ENST00000251472, ENST00000588379	+	chr19	12968988	12969133	+	1226-1228	355,359,313	CCLE-LUSC
chr19:13563690:->chr19:13534058:-	chr19	13563690,13563690,13563690	13563690	ENST00000360228, ENST00000573710, ENST00000574974	-	chr19	13534058	13534096	-	1229-1230	179,96	CCLE-LUSC
chr19:13879862:+>chr19:13882153:+	chr19	13879638,14	13879862	ENST00000319545, ENST00000040663	+	chr19	13882153	13882196	+	1231-1232	269,316	CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr19:14574965:+>chr19:14577528:+	chr19	14574872,14574872,14574872	14574965	ENST00000242783, ENST00000342216, ENST00000586237	+	chr19	14577528	14577626	+	1233-1235	583,577,63	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-STAD
chr19:14875245:->chr19:14874908:-	chr19	14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245	14875245	ENST00000315576, ENST00000346057, ENST00000353005, ENST00000353876, ENST00000392967, ENST00000596991, ENST00000392965, ENST00000594076, ENST00000594294, ENST00000595839, ENST00000601345, ENST00000392964, ENST00000595208, ENST00000392962	-	chr19	14874908	14875097	-	1236-1241	219,312,361,268,100,205	CCLE-LCLL,CCLE-LUSC
chr19:14875245:->chr19:14875035:-	chr19	14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245,14875245	14875245	ENST00000315576, ENST00000346057, ENST00000353005, ENST00000353876, ENST00000392967, ENST00000596991, ENST00000392965, ENST00000594076, ENST00000594294, ENST00000595839, ENST00000601345, ENST00000392964, ENST00000595208, ENST00000392962	-	chr19	14875035	14875097	-	1242-1247	219,312,361,268,100,205	CCLE-DLBC

chr19:14883154:->chr19:14882817:-	chr19	14883154,14883154,14883154,14883154,14883154,14883154,14883154,14883154,14883154,14883154,14883154,14883154,14883154	14883154	ENST00000315576, ENST00000346057, ENST00000353005, ENST00000353876, ENST00000392967, ENST00000596991, ENST00000392965, ENST00000594076, ENST00000594294, ENST00000595839, ENST00000601345, ENST00000595208, ENST00000392962	-	chr19	14882817	14882999	-	1248-1249	118,11	CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-SKCM,CCLE-STAD
chr19:16222835:+>chr19:16228170:+	chr19	16222712,16	16222835	ENST00000300935, ENST00000586682	+	chr19	16228170	16228315	+	1250-1250	41	CCLE-LUSC
chr19:17131141:->chr19:17125410:-	chr19	17131141,17131141,17131141	17131141	ENST00000443236, ENST00000291440, ENST00000388925	-	chr19	17125410	17125634	-	1251-1252	136,89	CCLE-OV
chr19:17581516:+>chr19:17594691:+	chr19	17581350,17581350,17581350,17581350,17581350	17581516	ENST00000600277, ENST00000442725, ENST00000252595, ENST00000599380, ENST00000600297	+	chr19	17594691	17594955	+	1253-1253	55	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr19:17743591:->chr19:17742810:-	chr19	17743591,17743591,17743591,17743591,17743591	17743591	ENST00000519716, ENST00000252773, ENST00000428389, ENST00000551649, ENST00000552293, ENST00000550896	-	chr19	17742810	17743019	-	1254-1257	1230,1142,1140	CCLE-LUSC,CCLE-SARC
chr19:17751320:->chr19:17751163:-	chr19	17751320,17751320,17751320,17751320,17751320	17751320	ENST00000519716, ENST00000252773, ENST00000428389, ENST00000551649, ENST00000552293, ENST00000550896	-	chr19	17751163	17751298	-	1258-1261	1017,929,927	CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr19:17766083:->chr19:17764129:-	chr19	17766083,17766083,17766083,17766083,17766083	17766083	ENST00000519716, ENST00000252773, ENST00000428389, ENST00000551649, ENST00000552293, ENST00000550896	-	chr19	17764129	17764154	-	1262-1264	552,464	CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr19:17785466:->chr19:17783379:-	chr19	17785466,17785466,17785466,17785466,17785466	17785466	ENST00000519716, ENST00000252773, ENST00000428389, ENST00000551649, ENST00000552293, ENST00000550896	-	chr19	17783379	17783419	-	1265-1267	138,5	CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr19:33462742:->chr19:33460477:-	chr19	33462742,33462742,33462742	33462742	ENST00000305768, ENST00000586984, ENST00000590597	-	chr19	33460477	33460915	-	1268-1268	13	CCLE-BRCA,CCLE-LUSC
chr19:35612149:+>chr19:35613392:+	chr19	35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126	35612149	ENST00000454903, ENST00000406242, ENST00000604404, ENST00000435734, ENST00000603181, ENST00000604255, ENST00000344013, ENST00000346446, ENST00000603449, ENST00000406988, ENST00000605550, ENST00000604804, ENST00000605552, ENST00000535103, ENST00000603524, ENST00000604621, ENST00000605677	+	chr19	35613392	35613610	+	1269-1270	89,32	CCLE-BLCA,CCLE-HNSC
chr19:35612149:+>chr19:35613490:+	chr19	35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126,35612126	35612149	ENST00000454903, ENST00000406242, ENST00000604404, ENST00000435734, ENST00000603181, ENST00000604255, ENST00000344013, ENST00000346446, ENST00000603449, ENST00000406988, ENST00000605550, ENST00000604804, ENST00000605552, ENST00000535103, ENST00000603524, ENST00000604621, ENST00000605677	+	chr19	35613490	35613610	+	1271-1272	89,32	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr19:3599847:->chr19:3598104:-	chr19	3599847,36	3599847	ENST00000375190, ENST00000411851	-	chr19	3598104	3598174	-	1273-1273	262	CCLE-LCLL
chr19:36350533:+>chr19:36350834:+	chr19	36350383,36350383,36350383,36350383	36350533	ENST00000592409, ENST00000347900, ENST00000360202, ENST00000262625	+	chr19	36350834	36350930	+	1274-1275	224,174	CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC

chr19:36350533:+>chr19:36441508:+	chr19	36350383,36350383,36350383,36350383	36350533	ENST00000592409,ENST00000347900,ENST00000360202,ENST00000262625	+	chr19	36441508	36441641	+	1276-1277	224,174	CCLE-DLBC
chr19:36369010:+>chr19:36369329:+	chr19	36368987,36368984,36368987,36368987	36369010	ENST00000537454,ENST00000221891,ENST00000586861,ENST00000588808	+	chr19	36369329	36369464	+	1278-1281	519,526,486,143	CCLE-CESC,CCLE-LUSC
chr19:38610522:+>chr19:38619267:+	chr19	38609946,39	38610522	ENST00000222345,ENST00000600919	+	chr19	38619267	38619547	+	1282-1283	956,17	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr19:38910500:->chr19:38910232:-	chr19	38910500,38910500,38910500,38910500,38910500,38910500,38910500,38910500	38910500	ENST00000586305,ENST00000293062,ENST00000426920,ENST00000433821,ENST00000454404,ENST00000587753,ENST00000589358,ENST00000589474,ENST00000587738	-	chr19	38910232	38910331	-	1284-1285	221,207	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr19:40743876:->chr19:40743134:-	chr19	40743876,40743876,40743876,40743876,40743876	40743876	ENST00000392038,ENST00000424901,ENST00000311278,ENST00000579047,ENST00000578615	-	chr19	40743134	40743270	-	1286-1288	133,215,277	CCLE-LUSC
chr19:40743876:->chr19:40743149:-	chr19	40743876,40743876,40743876,40743876,40743876	40743876	ENST00000392038,ENST00000424901,ENST00000311278,ENST00000579047,ENST00000578615	-	chr19	40743149	40743270	-	1289-1291	133,215,277	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-STAD
chr19:40743876:->chr19:40743152:-	chr19	40743876,40743876,40743876,40743876,40743876	40743876	ENST00000392038,ENST00000424901,ENST00000311278,ENST00000579047,ENST00000578615	-	chr19	40743152	40743270	-	1292-1294	133,215,277	CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM
chr19:40913813:->chr19:40913621:-	chr19	40913813,41	40913813	ENST00000291825,ENST00000324001	-	chr19	40913621	40913734	-	1295-1295	9	CCLE-LCLL
chr19:40913813:->chr19:40913626:-	chr19	40913813,41	40913813	ENST00000291825,ENST00000324001	-	chr19	40913626	40913734	-	1296-1296	9	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr19:41284296:+>chr19:41285260:+	chr19	41284281,41284281,41284281,41284281,41284283	41284296	ENST00000594800,ENST00000357052,ENST00000594136,ENST00000378307,ENST00000602173	+	chr19	41285260	41285321	+	1297-1298	5	CCLE-LCLL
chr19:41737203:+>chr19:41741943:+	chr19	41737088,42	41737203	ENST00000301178,ENST00000359092	+	chr19	41741943	41741954	+	1299-1299	261	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr19:41748920:+>chr19:41751964:+	chr19	41748788,41748788,41748788,41748788	41748920	ENST00000301178,ENST00000359092,ENST00000593513	+	chr19	41751964	41752066	+	1300-1302	481,472,213	CCLE-LUSC
chr19:41748920:+>chr19:41754379:+	chr19	41748788,41748788,41748788,41748788	41748920	ENST00000301178,ENST00000359092,ENST00000593513	+	chr19	41754379	41754383	+	1303-1305	481,472,213	CCLE-BRCA,CCLE-SARC
chr19:41749612:+>chr19:41751964:+	chr19	41749521,41749521,41749521,41749521	41749612	ENST00000301178,ENST00000359092,ENST00000593513	+	chr19	41751964	41752066	+	1306-1308	512,503,244	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr19:41749612:+>chr19:41754309:+	chr19	41749521,41749521,41749521,41749521	41749612	ENST00000301178,ENST00000359092,ENST00000593513	+	chr19	41754309	41754383	+	1309-1311	512,503,244	CCLE-SARC,CCLE-SKCM
chr19:42222301:+>chr19:42274707:+	chr19	42222047,42222047,42222047,42222047	42222301	ENST00000398599,ENST00000221992,ENST00000405816	+	chr19	42274707	42275202	+	1312-1313	497,496	CCLE-LUSC
chr19:42224127:+>chr19:42233104:+	chr19	42223849,42223849,42223849,42223849	42224127	ENST00000398599,ENST00000221992,ENST00000405816	+	chr19	42233104	42233196	+	1314-1315	590,589	CCLE-COAD,CCLE-LUSC
chr19:42225096:+>chr19:42233104:+	chr19	42224842,42224842,42224842,42224842	42225096	ENST00000398599,ENST00000221992,ENST00000405816	+	chr19	42233104	42233196	+	1316-1317	675,674	CCLE-BRCA,CCLE-COAD,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr19:42225096:+>chr19:42233130:+	chr19	42224842,42224842,42224842,42224842	42225096	ENST00000398599,ENST00000221992,ENST00000405816	+	chr19	42233130	42233196	+	1318-1319	675,674	CCLE-COAD,CCLE-LUSC
chr19:42225096:+>chr19:42233171:+	chr19	42224842,42224842,42224842,42224842	42225096	ENST00000398599,ENST00000221992,ENST00000405816	+	chr19	42233171	42233196	+	1320-1321	675,674	CCLE-LUSC
chr19:42225096:+>chr19:42274707:+	chr19	42224842,42224842,42224842,42224842	42225096	ENST00000398599,ENST00000221992,ENST00000405816	+	chr19	42274707	42275202	+	1322-1323	675,674	CCLE-LUSC,CCLE-PAAD,CCLE-STAD

chr19:42260820:+>chr19:42274777:+	chr19	42260508	42260820	ENST00000199764	+	chr19	42274777	42275202	+	1324-1324	125	CCLE-LUSC
chr19:42265435:+>chr19:42274707:+	chr19	42265157	42265435	ENST00000199764	+	chr19	42274707	42275202	+	1325-1325	234	CCLE-BRCA,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr19:42266131:+>chr19:42274707:+	chr19	42265877	42266131	ENST00000199764	+	chr19	42274707	42275202	+	1326-1326	319	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr19:42381453:+>chr19:42382530:+	chr19	42381375,42381375,42381375	42381453	ENST00000221972,ENST00000597454,ENST00000444740	+	chr19	42382530	42382578	+	1327-1327	26	CCLE-DLBC
chr19:44169468:->chr19:44165244:-	chr19	44169468,44169468,44169468,44169468,44169468,44169468,44169468,44169468	44169468	ENST00000339082,ENST00000601723,ENST00000340093,ENST00000221264,ENST00000599892,ENST00000602141,ENST00000593939	-	chr19	44165244	44165537	-	1328-1330	98,103,78	CCLE-LUSC
chr19:44169468:->chr19:44165476:-	chr19	44169468,44169468,44169468,44169468,44169468,44169468,44169468,44169468	44169468	ENST00000339082,ENST00000601723,ENST00000340093,ENST00000221264,ENST00000599892,ENST00000602141,ENST00000593939	-	chr19	44165476	44165537	-	1331-1333	98,103,78	CCLE-LUSC
chr19:45389476:+>chr19:45390331:+	chr19	45389390	45389476	ENST00000252483	+	chr19	45390331	45390617	+	1334-1334	449	CCLE-COAD
chr19:45389476:+>chr19:45390493:+	chr19	45389390	45389476	ENST00000252483	+	chr19	45390493	45390617	+	1335-1335	449	CCLE-BRCA,CCLE-COAD,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-UCEC
chr19:46172850:+>chr19:46173062:+	chr19	46172779,46172779,46172779,46172779	46172850	ENST00000590918,ENST00000263281,ENST00000304207,ENST00000585889	+	chr19	46173062	46173206	+	1336-1336	24	CCLE-DLBC
chr19:46280585:->chr19:46279972:-	chr19	46280585,46280585,46280585	46280585	ENST00000291270,ENST00000343373,ENST00000593574	-	chr19	46279972	46280017	-	1337-1339	392,382,41	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr19:46280600:->chr19:46279972:-	chr19	46280585,46280600,46280585,46280600,46280600,46280600,46280600,46280585	46280600	ENST00000291270,ENST00000600757,ENST00000343373,ENST00000447742,ENST00000458663,ENST00000354227,ENST00000593574	-	chr19	46279972	46280017	-	1340-1342	387,377,36	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr19:46351010:->chr19:46348904:-	chr19	46351010,46	46351010	ENST00000245934,ENST00000600237	-	chr19	46348904	46349183	-	1343-1343	225	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr19:46857246:+>chr19:46858941:+	chr19	46857005,46857005,46857202	46857246	ENST00000012443,ENST00000478046,ENST00000391919	+	chr19	46858941	46859016	+	1344-1346	15,121,120	CCLE-LUSC
chr19:47353391:->chr19:47350081:-	chr19	47353391	47353391	ENST00000601498	-	chr19	47350081	47350221	-	1347-1347	17	CCLE-BRCA
chr19:47354021:->chr19:47350081:-	chr19	47354021,47354021,47354021,47354021	47354021	ENST00000352203,ENST00000593442,ENST00000263270,ENST00000601649	-	chr19	47350081	47350221	-	1348-1348	1	CCLE-COAD
chr19:47440665:+>chr19:47451677:+	chr19	47440521	47440665	ENST00000404338	+	chr19	47451677	47452132	+	1349-1349	1275	CCLE-LUSC
chr19:48571048:->chr19:48567210:-	chr19	48571048,48571048,48571048,48571048,48571048,48571048,48571048,48571048	48571048	ENST00000599111,ENST00000354276,ENST00000413144,ENST00000599921,ENST00000599300,ENST00000595161,ENST00000601946	-	chr19	48567210	48567403	-	1350-1354	119,183,367,377,56	CCLE-BRCA,CCLE-LCLL,CCLE-LUSC
chr19:48571048:->chr19:48568293:-	chr19	48571048,48571048,48571048,48571048,48571048,48571048,48571048,48571048	48571048	ENST00000599111,ENST00000354276,ENST00000413144,ENST00000599921,ENST00000599300,ENST00000595161,ENST00000601946	-	chr19	48568293	48568582	-	1355-1359	119,183,367,377,56	CCLE-LIHC
chr19:49129619:+>chr19:49130278:+	chr19	49129217,49129148,49129217,49129325,49129148,49129217,49129217,49128923,49129217	49129619	ENST00000340932,ENST00000245222,ENST00000601712,ENST00000600537,ENST00000598088,ENST00000597434,ENST00000599748,ENST00000443164,ENST00000599029	+	chr19	49130278	49130413	+	1360-1363	134,232,111,170	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr19:49497180:+>chr19:49497762:+	chr19	49497169,49497169,49497169,49497169,49497169,49497169,49497169,49497169	49497180	ENST00000595090,ENST00000595811,ENST00000596247,ENST00000221413,ENST00000593570	+	chr19	49497762	49497831	+	1364-1364	4	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA

chr19:49502630:+>chr19:49503008:+	chr19	49502576,49502576,49502576,49502576	49502630	ENST00000595090, ENST00000596247, ENST00000221413, ENST00000593570	+	chr19	49503008	49503054	+	1365-1365	22	CCLE-ESCA,CCLE-LCLL,CCLE-LUSC
chr19:50270457:+>chr19:50276711:+	chr19	50270391,50270391,50270393	50270457	ENST00000354293, ENST00000359032, ENST00000597774	+	chr19	50276711	50276762	+	1366-1367	22	CCLE-LUSC
chr19:50361910:+>chr19:50362346:+	chr19	50361806,50361806,50361806,50361806,50361806,50361806,50361806,50361806	50361910	ENST00000600603, ENST00000601638, ENST00000221557, ENST00000391842, ENST00000599732, ENST00000601675, ENST00000601093	+	chr19	50362346	50362399	+	1368-1370	315,347,78	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr19:51914568:->chr19:51914197:-	chr19	51914353,51914353,51914353,51914353,51914353,51914353,51914353,51914353	51914568	ENST00000441969, ENST00000353836, ENST00000442846, ENST00000356298, ENST00000432469, ENST00000525998, ENST00000436984, ENST00000439889, ENST00000339313	-	chr19	51914197	51914203	-	1371-1378	531,626,441, 448,483,473, 568,383	CCLE-DLBC
chr19:51916966:->chr19:51914757:-	chr19	51916966,51916966,51916966,51916966,51916966,51916966,51916966,51916966	51916966	ENST00000441969, ENST00000353836, ENST00000442846, ENST00000356298, ENST00000432469, ENST00000525998, ENST00000436984, ENST00000439889, ENST00000339313	-	chr19	51914757	51914893	-	1379-1386	512,607,422, 429,464,454, 549,364	CCLE-DLBC
chr19:51916966:->chr19:51916513:-	chr19	51916966,51916966,51916966,51916966,51916966,51916966,51916966,51916966	51916966	ENST00000441969, ENST00000353836, ENST00000442846, ENST00000356298, ENST00000432469, ENST00000525998, ENST00000436984, ENST00000439889, ENST00000339313	-	chr19	51916513	51916624	-	1387-1394	512,607,422, 429,464,454, 549,364	CCLE-DLBC
chr19:54483261:+>chr19:54492493:+	chr19	54483121	54483261	ENST00000270458	+	chr19	54492493	54492550	+	1395-1395	169	CCLE-SARC
chr19:54501567:+>chr19:54515039:+	chr19	54501493,55	54501567	ENST00000252729, ENST00000346968	+	chr19	54515039	54515092	+	1396-1396	135	CCLE-LIHC,CCLE-MM
chr19:54503025:+>chr19:54515039:+	chr19	54502888	54503025	ENST00000252729	+	chr19	54515039	54515092	+	1397-1397	181	CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr19:54603039:->chr19:54602880:-	chr19	54603039,54603039,54603039,54603039,54603039	54603039	ENST00000356532, ENST00000359649, ENST00000358375, ENST00000284648, ENST00000391760	-	chr19	54602880	54602888	-	1398-1398	23	CCLE-LCLL
chr19:54604047:->chr19:54603271:-	chr19	54604047,54604047,54604047,54604047,54604047,54604047,54604047,54604047	54604047	ENST00000391761, ENST00000356532, ENST00000359649, ENST00000358375, ENST00000351806, ENST00000284648, ENST00000391760	-	chr19	54603271	54603406	-	1399-1399	12	CCLE-BLCA,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-OV
chr19:54781404:->chr19:54780833:-	chr19	54781404,54781404,54781404,54781404,54781404,54781404,54781404,54781404	54781404	ENST00000391748, ENST00000314446, ENST00000455108, ENST00000391746, ENST00000391749, ENST00000434421	-	chr19	54780833	54781044	-	1400-1403	337,453,452, 129	CCLE-LCLL
chr19:54868537:->chr19:54868431:-	chr19	54868537,54868537,54868537,54868537,54868537,54868537,54868537,54868529	54868537	ENST00000391743, ENST00000348231, ENST00000391742, ENST00000434277, ENST00000313038, ENST00000391741, ENST00000474878, ENST00000418556	-	chr19	54868431	54868492	-	1404-1410	133,144,150, 120,151,134	CCLE-LCLL
chr19:55250988:+>chr19:55283733:+	chr19	55250953,55	55250988	ENST00000342376, ENST00000434419	+	chr19	55283733	55283967	+	1411-1411	23	CCLE-DLBC
chr19:55282336:+>chr19:55283733:+	chr19	55282301,55	55282336	ENST00000336077, ENST00000291633	+	chr19	55283733	55283967	+	1412-1412	23	CCLE-DLBC
chr19:55316532:+>chr19:55317070:+	chr19	55316248,55316248,55316248,55316248,55316248	55316532	ENST00000396284, ENST00000359085, ENST00000345540, ENST00000357494, ENST00000396289	+	chr19	55317070	55317148	+	1413-1415	118,120,119	CCLE-DLBC
chr19:55536586:->chr19:55530969:-	chr19	55536586,56	55536586	ENST00000310373, ENST00000417454	-	chr19	55530969	55530972	-	1416-1416	221	CCLE-LCLL
chr19:56204403:+>chr19:56205444:+	chr19	56204317,56204320,56204317,56204317	56204403	ENST00000270460, ENST00000085079, ENST00000411543, ENST00000589704	+	chr19	56205444	56205609	+	1417-1420	507,395,421, 38	CCLE-COAD,CCLE-LUSC,CCLE-STAD

chr19:6465629:+>chr19:6466184:+	chr19	6465556,6465556,6465556,6465556	6465629	ENST00000598494,ENST00000600229,ENST00000356762,ENST00000308243	+	chr19	6466184	6466221	+	1421-1421	52	CCLE-STAD
chr19:6667124:->chr19:6661233:-	chr19	6667124,6667124,6667124	6667124	ENST00000245912,ENST00000326176,ENST00000599359	-	chr19	6661233	6661734	-	1422-1423	63,99	CCLE-DLBC,CCLE-LCLL
chr19:6741292:+>chr19:6741406:+	chr19	6741236,6741236,6741236,6741236	6741292	ENST00000313285,ENST00000600677,ENST00000313244,ENST00000596758	+	chr19	6741406	6741536	+	1424-1424	65	CCLE-PAAD
chr19:6741292:+>chr19:6742535:+	chr19	6741236,6741236,6741236,6741236	6741292	ENST00000313285,ENST00000600677,ENST00000313244,ENST00000596758	+	chr19	6742535	6742810	+	1425-1425	65	CCLE-COAD
chr19:734194:+>chr19:734701:+	chr19	734173,7342	734194	ENST00000264560,ENST00000338448	+	chr19	734701	734830	+	1426-1426	147	CCLE-LGG
chr19:844034:+>chr19:845796:+	chr19	843893,8439	844034	ENST00000234347,ENST00000544537	+	chr19	845796	845857	+	1427-1428	123,82	CCLE-LCLL
chr2:102632513:+>chr2:102634836:+	chr2	102632333,102632333,102632333,102632333	102632513	ENST00000332549,ENST00000393414,ENST00000457817,ENST00000441002	+	chr2	102634836	102634989	+	1429-1429	171	CCLE-DLBC
chr2:109287303:+>chr2:109287498:+	chr2	109287237,109287237,109287237,109287237,109287237,109287237,109287237,109287237	109287303	ENST00000544547,ENST00000428064,ENST00000332345,ENST00000393310,ENST00000410093,ENST00000409441,ENST00000338045,ENST00000542845	+	chr2	109287498	109287623	+	1430-1434	136,74,86,111,78	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr2:10952804:->chr2:10945033:-	chr2	10952804	10952804	ENST00000272227	-	chr2	10945033	10945150	-	1435-1435	6	CCLE-COAD,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SKCM
chr2:10952804:->chr2:10945097:-	chr2	10952804	10952804	ENST00000272227	-	chr2	10945097	10945150	-	1436-1436	6	CCLE-CESC,CCLE-LIHC,CCLE-LUSC,CCLE-MM
chr2:113956803:+>chr2:113966557:+	chr2	113956660,113956660,113956660	113956803	ENST00000245796,ENST00000441564,ENST00000409378	+	chr2	113966557	113966942	+	1437-1439	135,971,942	CCLE-BRCA,CCLE-COAD
chr2:11426665:->chr2:11418636:-	chr2	11426665,11426665,11426665	11426665	ENST00000315872,ENST00000261535,ENST00000431087	-	chr2	11418636	11418734	-	1440-1441	22,108	CCLE-COAD
chr2:11484122:->chr2:11428575:-	chr2	11484122,11	11484122	ENST00000315872,ENST00000261535	-	chr2	11428575	11428710	-	1442-1442	47	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:116101488:+>chr2:116244664:+	chr2	116101393,116101393,116101393,116101393,116101393,116101393,116101393,116101393	116101488	ENST00000436732,ENST00000410059,ENST00000409163,ENST00000393146,ENST00000393147,ENST00000310323,ENST00000429914,ENST00000419287	+	chr2	116244664	116246469	+	1443-1448	90,83,45,40,94,86	CCLE-LUSC
chr2:116283548:+>chr2:116308616:+	chr2	116283474,116283474,116283474,116283474,116283474,116283474	116283548	ENST00000410059,ENST00000409163,ENST00000393146,ENST00000393147,ENST00000310323,ENST00000419287	+	chr2	116308616	116308791	+	1449-1453	147,140,97,151,143	CCLE-LUSC
chr2:1168869:+>chr2:1175387:+	chr2	1168778	1168869	ENST00000308624	+	chr2	1175387	1176916	+	1454-1454	197	CCLE-DLBC
chr2:120005782:+>chr2:120011174:+	chr2	120005255,120005255,120005255,120005255,120005255,120005255,120005255,120005255	120005782	ENST00000450943,ENST00000354888,ENST00000393108,ENST00000393106,ENST00000393110,ENST00000393107,ENST00000409811,ENST00000425223	+	chr2	120011174	120011249	+	1455-1456	340,35	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SARC
chr2:1204916:+>chr2:1206110:+	chr2	1204789,12	1204916	ENST00000308624,ENST00000407292	+	chr2	1206110	1206703	+	1457-1458	112,239	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr2:1204916:+>chr2:1206115:+	chr2	1204789,12	1204916	ENST00000308624,ENST00000407292	+	chr2	1206115	1206703	+	1459-1460	112,239	CCLE-LUSC
chr2:1204916:+>chr2:1206143:+	chr2	1204789,12	1204916	ENST00000308624,ENST00000407292	+	chr2	1206143	1206703	+	1461-1462	112,239	CCLE-DLBC,CCLE-LUSC
chr2:1204916:+>chr2:1206202:+	chr2	1204789,12	1204916	ENST00000308624,ENST00000407292	+	chr2	1206202	1206703	+	1463-1464	112,239	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr2:120709705:+>chr2:120712417:+	chr2	120709549,1	120709705	ENST00000263708,ENST00000544261	+	chr2	120712417	120712439	+	1465-1466	237,604	CCLE-LCLL,CCLE-LUSC
chr2:120844816:+>chr2:120845830:+	chr2	120844747,120844747,120844747,120844747,120844747,120844747	120844816	ENST00000263713,ENST00000443902,ENST00000331393,ENST00000443124,ENST00000452780	+	chr2	120845830	120846179	+	1467-1467	291	CCLE-COAD,CCLE-LCLL,CCLE-LGG,CCLE-LUSC

chr2:130939103:->chr2:130937358:-	chr2	130939103,130939103,130939103,130939103	130939103	ENST00000351288,ENST00000453750,ENST00000409031,ENST00000431183	-	chr2	130937358	130937525	-	1468-1468	24	CCLE-LUSC
chr2:131840150:->chr2:131829742:-	chr2	131840150,1	131840150	ENST00000409185,ENST00000389915	-	chr2	131829742	131829995	-	1469-1469	23	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV
chr2:131840150:->chr2:131829868:-	chr2	131840150,1	131840150	ENST00000409185,ENST00000389915	-	chr2	131829868	131829995	-	1470-1470	23	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr2:149987467:+>chr2:150015589:+	chr2	149987463,149987463,149987463,149987463	149987467	ENST00000409642,ENST00000409876,ENST00000409029,ENST00000437627,ENST00000450639,ENST00000442722	+	chr2	150015589	150015990	+	1471-1471	1	CCLE-OV
chr2:159459616:+>chr2:159462759:+	chr2	159459582,159459582,159459582,159459582	159459616	ENST00000426248,ENST00000389757,ENST00000389759,ENST00000421462,ENST00000481115	+	chr2	159462759	159462872	+	1472-1473	93,26	CCLE-BRCA,CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:160918806:->chr2:160916282:-	chr2	160918806,2	160918806	ENST00000283243,ENST00000392771	-	chr2	160916282	160916507	-	1474-1474	36	CCLE-BRCA,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr2:162481076:+>chr2:162507555:+	chr2	162481029,162481029,162481029,162481029	162481076	ENST00000415876,ENST00000535165,ENST00000272716,ENST00000446997,ENST00000421911,ENST00000446228	+	chr2	162507555	162508496	+	1475-1475	16	CCLE-LUSC
chr2:162762397:+>chr2:162776190:+	chr2	162762152,162762152,162762152,162762152	162762397	ENST00000375514,ENST00000415876,ENST00000272716,ENST00000446997,ENST00000421911	+	chr2	162776190	162776798	+	1476-1478	665,635,646	CCLE-DLBC,CCLE-LUSC
chr2:163070448:->chr2:163068002:-	chr2	163070448,2	163070448	ENST00000188790,ENST00000443424	-	chr2	163068002	163068093	-	1479-1480	334,309	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr2:163099418:->chr2:163094158:-	chr2	163099418,163099418,163099418,163099418	163099418	ENST00000188790,ENST00000443424,ENST00000447386,ENST00000450031	-	chr2	163094158	163094737	-	1481-1482	9,3	CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr2:165969395:->chr2:165963542:-	chr2	165969395,165969395,165969395,165969395	165969395	ENST00000360093,ENST00000283254,ENST00000409101,ENST00000440431	-	chr2	165963542	165963717	-	1483-1486	1232,1281	CCLE-LUSC,CCLE-SARC
chr2:166221773:+>chr2:166222923:+	chr2	166221653,166221653,166221653,166221653	166221773	ENST00000357398,ENST00000375437,ENST00000283256,ENST00000375427	+	chr2	166222923	166222960	+	1487-1488	1173	CCLE-LUSC
chr2:167108275:->chr2:167100039:-	chr2	167108275,167108275,167108275,167108275	167108275	ENST00000409672,ENST00000303354,ENST00000375387,ENST00000409435	-	chr2	167100039	167100570	-	1489-1492	1146,1157,1158	CCLE-LUSC,CCLE-MM
chr2:169699627:+>chr2:169700350:+	chr2	169699502,169699502,169699502,169699502	169699627	ENST00000458381,ENST00000444448,ENST00000317647,ENST00000445023,ENST00000397206,ENST00000397209,ENST00000421711,ENST00000447264	+	chr2	169700350	169700598	+	1493-1495	132,210,182	CCLE-CESC,CCLE-COAD,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr2:179251866:+>chr2:179252451:+	chr2	179251788,179251788,179251788,179251788	179251866	ENST00000359685,ENST00000392505,ENST00000409045,ENST00000190611,ENST00000409631,ENST00000315022	+	chr2	179252451	179252748	+	1496-1500	722,743,682,718,687	CCLE-LCLL,CCLE-LUSC
chr2:182781154:+>chr2:182781327:+	chr2	182779943,182779943,182779943,182779943	182781154	ENST00000431877,ENST00000320370,ENST00000409001,ENST00000428267,ENST00000409136	+	chr2	182781327	182781388	+	1501-1503	929,776,438	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-SARC
chr2:187506315:+>chr2:187508334:+	chr2	187506113,187506113,187506113	187506315	ENST00000261023,ENST00000374907,ENST00000433736	+	chr2	187508334	187508586	+	1504-1506	386,350,340	CCLE-CESC,CCLE-COAD,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-STAD
chr2:189348219:+>chr2:189366059:+	chr2	189348158,189348158,189348158,189348158,189348158,189348158,189348158,189348158	189348219	ENST00000409843,ENST00000409830,ENST00000410051,ENST00000409927,ENST00000409805,ENST00000359135,ENST00000409580,ENST00000409637,ENST00000409609	+	chr2	189366059	189366213	+	1507-1507	30	CCLE-LUSC

chr2:189406045:+>chr2:189406556:+	chr2	189405908,189405908,189405908,189405908,189405908,189405908,189405908	189406045	ENST00000409843,ENST00000409830,ENST00000410051,ENST00000359135,ENST00000409580,ENST00000409637,ENST00000409609	+	chr2	189406556	189406849	+	1508-1508	133	CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr2:198460715:->chr2:198457216:-	chr2	198460715,2	198460715	ENST00000295049,ENST00000454447	-	chr2	198457216	198457217	-	1509-1510	93,411	CCLE-ESCA,CCLE-LUSC
chr2:201881714:->chr2:201881269:-	chr2	201881714,2	201881714	ENST00000418596,ENST00000452799	-	chr2	201881269	201881303	-	1511-1511	111	CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-STAD
chr2:203103163:->chr2:203058624:-	chr2	203103163,203103163,203103163,203103163,203103163,203103163,203103163	203103163	ENST00000392246,ENST00000392245,ENST00000409368,ENST00000392244,ENST00000409712,ENST00000409181,ENST00000409627	-	chr2	203058624	203058636	-	1512-1512	4	CCLE-LIHC
chr2:203242273:+>chr2:203247581:+	chr2	203242198,2	203242273	ENST00000374580,ENST00000374574	+	chr2	203247581	203247695	+	1513-1513	25	CCLE-LUSC
chr2:203332412:+>chr2:203369051:+	chr2	203332242,2	203332412	ENST00000374580,ENST00000374574	+	chr2	203369051	203369340	+	1514-1514	139	CCLE-COAD
chr2:207346032:+>chr2:207354839:+	chr2	207345956,207345956,207345956	207346032	ENST00000264377,ENST00000374416,ENST00000374415	+	chr2	207354839	207355065	+	1515-1515	169	CCLE-MM
chr2:208773238:->chr2:208751425:-	chr2	208773238,208773238,208773238,208773238	208773238	ENST00000427836,ENST00000447645,ENST00000389247,ENST00000457206	-	chr2	208751425	208751529	-	1516-1518	650,664,402	CCLE-BRCA,CCLE-HNSC
chr2:209324686:+>chr2:209436738:+	chr2	209324620	209324686	ENST00000272847	+	chr2	209436738	209436804	+	1519-1519	327	CCLE-CESC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-OV
chr2:211319831:->chr2:211306921:-	chr2	211319831,211319831,211319831,211319831,211319831,211319831	211319831	ENST00000443314,ENST00000441020,ENST00000450366,ENST00000233714,ENST00000431941,ENST00000448951	-	chr2	211306921	211306927	-	1520-1520	135	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr2:211336683:->chr2:211306921:-	chr2	211336683,211336683,211336683,211336683,211336683,211336683	211336683	ENST00000443314,ENST00000441020,ENST00000450366,ENST00000233714,ENST00000431941,ENST00000448951,ENST00000453956	-	chr2	211306921	211306927	-	1521-1521	66	CCLE-LUSC
chr2:233245741:+>chr2:233248914:+	chr2	233245550	233245741	ENST00000392027	+	chr2	233248914	233249128	+	1522-1522	397	CCLE-LUSC
chr2:233246077:+>chr2:233248914:+	chr2	233245961	233246077	ENST00000392027	+	chr2	233248914	233249128	+	1523-1523	436	CCLE-BLCA,CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr2:242265528:+>chr2:242265835:+	chr2	242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265519,242265408,242265408	242265528	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000428524,ENST00000445030,ENST00000407017,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000457335,ENST00000436795,ENST00000411484,ENST00000434955,ENST00000402092,ENST00000441533,ENST00000443492,ENST00000437066,ENST00000420786,ENST00000449239	+	chr2	242265835	242266221	+	1524-1526	54,43,3	CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL
chr2:242265528:+>chr2:242265894:+	chr2	242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265519,242265408,242265408	242265528	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000428524,ENST00000445030,ENST00000407017,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000457335,ENST00000436795,ENST00000411484,ENST00000434955,ENST00000402092,ENST00000441533,ENST00000443492,ENST00000437066,ENST00000420786,ENST00000449239	+	chr2	242265894	242266221	+	1527-1529	54,43,3	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC

chr2:242265528:+>chr2:242265899:+	chr2	242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265408,242265408,242265519,242265408,242265408,242265408,242265519,242265408,242265408,242265408	242265528	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000428524,ENST00000445030,ENST00000407017,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000457335,ENST00000436795,ENST00000411484,ENST00000434955,ENST00000402092,ENST00000441533,ENST00000443492,ENST00000437066,ENST00000420786,ENST00000449239	+	chr2	242265899	242266221	+	1530-1532	54,43,3	CCLE-LGG,CCLE-LUSC,CCLE-STAD
chr2:242265528:+>chr2:242265984:+	chr2	242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265408,242265408,242265519,242265408,242265408,242265408,242265519,242265408,242265408,242265408	242265528	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000428524,ENST00000445030,ENST00000407017,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000457335,ENST00000436795,ENST00000411484,ENST00000434955,ENST00000402092,ENST00000441533,ENST00000443492,ENST00000437066,ENST00000420786,ENST00000449239	+	chr2	242265984	242266221	+	1533-1535	54,43,3	CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL
chr2:242265528:+>chr2:242266043:+	chr2	242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265408,242265408,242265519,242265408,242265408,242265408,242265519,242265408,242265408,242265408	242265528	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000428524,ENST00000445030,ENST00000407017,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000457335,ENST00000436795,ENST00000411484,ENST00000434955,ENST00000402092,ENST00000441533,ENST00000443492,ENST00000437066,ENST00000420786,ENST00000449239	+	chr2	242266043	242266221	+	1536-1538	54,43,3	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr2:242265528:+>chr2:242266048:+	chr2	242265408,242265519,242265408,242265408,242265519,242265408,242265408,242265408,242265408,242265519,242265408,242265408,242265408,242265519,242265408,242265408,242265408	242265528	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000428524,ENST00000445030,ENST00000407017,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000457335,ENST00000436795,ENST00000411484,ENST00000434955,ENST00000402092,ENST00000441533,ENST00000443492,ENST00000437066,ENST00000420786,ENST00000449239	+	chr2	242266048	242266221	+	1539-1541	54,43,3	CCLE-LGG,CCLE-LUSC,CCLE-STAD
chr2:24245772:+>chr2:24245893:+	chr2	24245692,24	24245772	ENST00000406420,ENST00000338315	+	chr2	24245893	24245913	+	1542-1542	353	CCLE-LCLL
chr2:25057354:->chr2:25056695:-	chr2	25057354,25057354,25057354	25057354	ENST00000260600,ENST00000405392,ENST00000606682	-	chr2	25056695	25056754	-	1543-1545	288,655,348	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-STAD
chr2:25141182:->chr2:25112387:-	chr2	25141182,25	25141182	ENST00000260600,ENST00000435135	-	chr2	25112387	25112419	-	1546-1546	225	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD
chr2:25359467:+>chr2:25359627:+	chr2	25359392,25359392,25359392,25359392,25359392,25359392	25359467	ENST00000401432,ENST00000403714,ENST00000402191,ENST00000405108,ENST00000264719	+	chr2	25359627	25359778	+	1547-1550	399,372,485,520	CCLE-DLBC,CCLE-LUSC

chr2:25364302:+>chr2:25364915:+	chr2	25364235,25364235,25364235,25364235,25364235	25364302	ENST00000401432,ENST00000403714,ENST00000402191,ENST00000405108,ENST00000264719	+	chr2	25364915	25365029	+	1551-1554	475,492,605,640	CCLE-LUSC
chr2:25799707:->chr2:25799395:-	chr2	25799707,25799707,25799707,25799707,25799707,25799707,25799707,25799707,25799707	25799707	ENST00000496972,ENST00000404103,ENST00000405222,ENST00000406818,ENST00000407038,ENST00000407661,ENST00000407186,ENST00000288642,ENST00000545439	-	chr2	25799395	25799396	-	1555-1557	235,292,88	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr2:25875463:->chr2:25874126:-	chr2	25875463,25875463,25875463,25875463,25875463,25875463,25875463,25875463,25875463,25875463	25875463	ENST00000398951,ENST00000404103,ENST00000405222,ENST00000406818,ENST00000407038,ENST00000407661,ENST00000407186,ENST00000288642,ENST00000356599,ENST00000303659,ENST00000349996	-	chr2	25874126	25874240	-	1558-1558	22	CCLE-BRCA,CCLE-COAD
chr2:26686832:->chr2:26686605:-	chr2	26686832,26686832,26686832,26686832,26686832	26686832	ENST00000338581,ENST00000339598,ENST00000402415,ENST00000272371,ENST00000403946	-	chr2	26686605	26686788	-	1559-1561	1701,934,1011	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr2:29448327:->chr2:29447059:-	chr2	29448327	29448327	ENST00000389048	-	chr2	29447059	29447062	-	1562-1562	1057	CCLE-LGG
chr2:29473971:->chr2:29467498:-	chr2	29473971	29473971	ENST00000389048	-	chr2	29467498	29467618	-	1563-1563	734	CCLE-LGG
chr2:31472334:+>chr2:31477703:+	chr2	31472237,31	31472334	ENST00000541626,ENST00000322054	+	chr2	31477703	31477791	+	1564-1564	167	CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr2:36706837:+>chr2:36720304:+	chr2	36706640	36706837	ENST00000280527	+	chr2	36720304	36720412	+	1565-1565	457	CCLE-BRCA,CCLE-LUSC,CCLE-SARC
chr2:36706837:+>chr2:36725418:+	chr2	36706640	36706837	ENST00000280527	+	chr2	36725418	36725654	+	1566-1566	457	CCLE-LUSC
chr2:36706837:+>chr2:36730373:+	chr2	36706640	36706837	ENST00000280527	+	chr2	36730373	36730590	+	1567-1567	457	CCLE-LUSC
chr2:37494573:->chr2:37490325:-	chr2	37494573,37494573,37494573,37494573	37494573	ENST00000379066,ENST00000234179,ENST00000452104,ENST00000443977	-	chr2	37490325	37490545	-	1568-1570	628,163,75	CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr2:37494573:->chr2:37493514:-	chr2	37494573,37494573,37494573,37494573	37494573	ENST00000379066,ENST00000234179,ENST00000452104,ENST00000443977	-	chr2	37493514	37493632	-	1571-1573	628,163,75	CCLE-LUSC
chr2:37543380:->chr2:37522370:-	chr2	37543380,38	37543380	ENST00000379066,ENST00000234179	-	chr2	37522370	37522551	-	1574-1574	96	CCLE-DLBC,CCLE-LGG,CCLE-SARC,CCLE-SKCM
chr2:42671646:->chr2:42615796:-	chr2	42671074,43	42671646	ENST00000306078,ENST00000394973	-	chr2	42615796	42615932	-	1575-1576	235,246	CCLE-LUSC
chr2:42671646:->chr2:42640900:-	chr2	42671074,43	42671646	ENST00000306078,ENST00000394973	-	chr2	42640900	42641090	-	1577-1578	235,246	CCLE-LUSC
chr2:46070202:+>chr2:46087244:+	chr2	46070139	46070202	ENST00000306156	+	chr2	46087244	46087360	+	1579-1579	137	CCLE-DLBC,CCLE-LCLL,CCLE-SKCM
chr2:46313501:+>chr2:46321617:+	chr2	46313347	46313501	ENST00000306156	+	chr2	46321617	46321956	+	1580-1580	530	CCLE-DLBC,CCLE-KIRC,CCLE-LUSC,CCLE-OV
chr2:46803795:+>chr2:46807492:+	chr2	46803700,47	46803795	ENST00000238738,ENST00000482449	+	chr2	46807492	46807872	+	1581-1582	154,75	CCLE-BRCA,CCLE-DLBC,CCLE-SKCM
chr2:46803795:+>chr2:46807696:+	chr2	46803700,47	46803795	ENST00000238738,ENST00000482449	+	chr2	46807696	46807872	+	1583-1584	154,75	CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr2:46803795:+>chr2:46807745:+	chr2	46803700,47	46803795	ENST00000238738,ENST00000482449	+	chr2	46807745	46807872	+	1585-1586	154,75	CCLE-SKCM
chr2:46803795:+>chr2:46807748:+	chr2	46803700,47	46803795	ENST00000238738,ENST00000482449	+	chr2	46807748	46807872	+	1587-1588	154,75	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:47177665:+>chr2:47177797:+	chr2	47177502,47177502,47177502,47177502,47177502,47177560	47177665	ENST00000409245,ENST00000319190,ENST00000536057,ENST00000394850,ENST00000441914,ENST00000409825	+	chr2	47177797	47178114	+	1589-1592	116,82,36	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr2:47206046:+>chr2:47209857:+	chr2	47205931,47205931,47205931,47205931	47206046	ENST00000409245,ENST00000319190,ENST00000394850,ENST00000441914	+	chr2	47209857	47210136	+	1593-1595	254,22	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-UCEC
chr2:47277185:+>chr2:47278140:+	chr2	47277088,47277088,47277088,47277088	47277185	ENST00000409245,ENST00000319190,ENST00000394850,ENST00000263737	+	chr2	47278140	47278223	+	1596-1599	696,672,318,638	CCLE-DLBC

chr2:54870266:+>chr2:54870844:+	chr2	54870120,55	54870266	ENST00000356805, ENST00000333896	+	chr2	54870844	54871110	+	1600-1601	1322,1335	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:55645952:->chr2:55621376:-	chr2	55645952,55645952,55645952,55645952	55645952	ENST00000336838, ENST00000263630, ENST00000436346, ENST00000413716	-	chr2	55621376	55621743	-	1602-1602	54	CCLE-LUSC
chr2:63058293:+>chr2:63082850:+	chr2	63058154,63058154,63058154,63058154,63058154,63058154,63058154	63058293	ENST00000405015, ENST00000449820, ENST00000405482, ENST00000431489, ENST00000354487, ENST00000263991, ENST00000405289	+	chr2	63082850	63083845	+	1603-1604	211,91	CCLE-DLBC,CCLE-LUSC,CCLE-SKCM
chr2:63206470:+>chr2:63208065:+	chr2	63206323,63206323,63206323,63206323,63206323,63206323,63206323,63206326	63206470	ENST00000405015, ENST00000431489, ENST00000354487, ENST00000263991, ENST00000405289, ENST00000444311, ENST00000422032	+	chr2	63208065	63208228	+	1605-1608	904,869,64,129	CCLE-LUSC
chr2:63815331:->chr2:63798606:-	chr2	63815331,63815331,63815331,63815331,63815331	63815331	ENST00000272321, ENST00000409562, ENST00000417238, ENST00000418148, ENST00000431065	-	chr2	63798606	63798637	-	1609-1610	25,24	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:65543868:->chr2:65543085:-	chr2	65543868,65543868,65543868	65543868	ENST00000356388, ENST00000443619, ENST00000452315	-	chr2	65543085	65543091	-	1611-1613	211,193,196	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr2:69271945:+>chr2:69285971:+	chr2	69271874,69271874,69271874	69271945	ENST00000303714, ENST00000409829, ENST00000409349	+	chr2	69285971	69286613	+	1614-1614	98	CCLE-COAD,CCLE-LUSC
chr2:69302790:+>chr2:69303857:+	chr2	69302722,69302722,69302722,69302735	69302790	ENST00000303714, ENST00000409829, ENST00000409349, ENST00000482235	+	chr2	69303857	69303900	+	1615-1616	187,19	CCLE-LUSC
chr2:69304620:+>chr2:69316484:+	chr2	69304540,69304540,69304540,69304540	69304620	ENST00000303714, ENST00000409829, ENST00000409349, ENST00000482235	+	chr2	69316484	69316812	+	1617-1618	214,46	CCLE-LGG,CCLE-LUSC
chr2:69420547:+>chr2:69421525:+	chr2	69420467	69420547	ENST00000303714	+	chr2	69421525	69421700	+	1619-1619	478	CCLE-LUSC
chr2:69420547:+>chr2:69490927:+	chr2	69420467	69420547	ENST00000303714	+	chr2	69490927	69491870	+	1620-1620	478	CCLE-LGG
chr2:69723117:->chr2:69676163:-	chr2	69723117,7	69723117	ENST00000409085, ENST00000406297	-	chr2	69676163	69676473	-	1621-1621	788	CCLE-BRCA
chr2:69732701:->chr2:69676163:-	chr2	69732701,7	69732701	ENST00000409085, ENST00000406297	-	chr2	69676163	69676473	-	1622-1622	756	CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PRAD,CCLE-SKCM,CCLE-STAD
chr2:69741603:->chr2:69737628:-	chr2	69741603,69741603,69741603	69741603	ENST00000409068, ENST00000409085, ENST00000406297	-	chr2	69737628	69737822	-	1623-1623	592	CCLE-LUSC
chr2:70741991:->chr2:70730043:-	chr2	70741991,70741991,70741991,70741991,70741991,70741991	70741991	ENST00000295400, ENST00000445399, ENST00000418333, ENST00000450929, ENST00000444975, ENST00000394241	-	chr2	70730043	70730115	-	1624-1625	37,31	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-KIRC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr2:7170346:+>chr2:7215725:+	chr2	7170257,717	7170346	ENST00000320892, ENST00000432850	+	chr2	7215725	7215894	+	1626-1627	249,245	CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr2:7170346:+>chr2:7398547:+	chr2	7170257,717	7170346	ENST00000320892, ENST00000432850	+	chr2	7398547	7401293	+	1628-1629	249,245	CCLE-LUSC,CCLE-SKCM
chr2:85097349:->chr2:85070764:-	chr2	85097349,85097349,85097349	85097349	ENST00000335459, ENST00000409520, ENST00000409133	-	chr2	85070764	85070990	-	1630-1630	223	CCLE-COAD,CCLE-STAD
chr2:85097349:->chr2:85080534:-	chr2	85097349,85097349,85097349	85097349	ENST00000335459, ENST00000409520, ENST00000409133	-	chr2	85080534	85080726	-	1631-1631	223	CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr2:85806290:+>chr2:85807491:+	chr2	85806207,85806132,85806132	85806290	ENST00000432071, ENST00000263864, ENST00000409760	+	chr2	85807491	85807560	+	1632-1633	54,28	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr2:85806290:+>chr2:85807741:+	chr2	85806207,85806132,85806132	85806290	ENST00000432071, ENST00000263864, ENST00000409760	+	chr2	85807741	85807782	+	1634-1635	54,28	CCLE-LCLL
chr2:89161398:->chr2:89130914:-	chr2	89161398	89161398	ENST00000390242	-	chr2	89130914	89131042	-	1636-1636	13	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr2:89544399:->chr2:89130914:-	chr2	89544264	89544399	ENST00000468494	-	chr2	89130914	89131042	-	1637-1637	75	CCLE-DLBC
chr2:89544493:->chr2:89130914:-	chr2	89544264	89544493	ENST00000468494	-	chr2	89130914	89131042	-	1638-1638	43	CCLE-DLBC

chr2:99137194:+>chr2:99137675:+	chr2	99137150,99137150,99137150,99137150,99137150,99137150,99137150	99137194	ENST00000409016,ENST00000409851,ENST00000409463,ENST00000074304,ENST00000545415,ENST00000409540,ENST00000523221	+	chr2	99137675	99137701	+	1639-1639	50	CCLE-LUSC,CCLE-MM
chr20:17505493:->chr20:17498254:-	chr20	17505493,17505493,17505493,17505493	17505493	ENST00000377873,ENST00000377868,ENST00000544874,ENST00000536626	-	chr20	17498254	17498510	-	1640-1642	7,21,146	CCLE-BLCA,CCLE-BRCA,CCLE-LUSC,CCLE-SKCM
chr20:17539333:->chr20:17526760:-	chr20	17539333	17539333	ENST00000377868	-	chr20	17526760	17527063	-	1643-1643	0	CCLE-LUSC,CCLE-SKCM
chr20:17923754:->chr20:17923384:-	chr20	17923754,18	17923754	ENST00000377759,ENST00000377768	-	chr20	17923384	17923409	-	1644-1644	388	CCLE-CESC,CCLE-LUSC
chr20:24565629:+>chr20:24614241:+	chr20	24565492	24565629	ENST00000376862	+	chr20	24614241	24614387	+	1645-1645	206	CCLE-LGG,CCLE-MM,CCLE-SARC
chr20:2969120:+>chr20:2979977:+	chr20	2968984,2968984,2968984,2968984,2968984,2968984,2968984,2968984	2969120	ENST00000380393,ENST00000455631,ENST00000216877,ENST00000358719,ENST00000399903,ENST00000425918,ENST00000318266,ENST00000356147	+	chr20	2979977	2980649	+	1646-1649	257,237,246,102	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr20:2988066:+>chr20:2988828:+	chr20	2987990,2987990,2987990,2987990,2987990,2987990,2987990	2988066	ENST00000380393,ENST00000216877,ENST00000358719,ENST00000399903,ENST00000425918,ENST00000318266,ENST00000356147	+	chr20	2988828	2989258	+	1650-1653	313,293,302,158	CCLE-LUSC
chr20:2988066:+>chr20:2988846:+	chr20	2987990,2987990,2987990,2987990,2987990,2987990,2987990	2988066	ENST00000380393,ENST00000216877,ENST00000358719,ENST00000399903,ENST00000425918,ENST00000318266,ENST00000356147	+	chr20	2988846	2989258	+	1654-1657	313,293,302,158	CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr20:2988066:+>chr20:2988850:+	chr20	2987990,2987990,2987990,2987990,2987990,2987990,2987990	2988066	ENST00000380393,ENST00000216877,ENST00000358719,ENST00000399903,ENST00000425918,ENST00000318266,ENST00000356147	+	chr20	2988850	2989258	+	1658-1661	313,293,302,158	CCLE-ESCA,CCLE-LGG,CCLE-LUSC
chr20:3008487:+>chr20:3013475:+	chr20	3008353,3008353,3008353,3008353,3008353,3008353,3008353	3008487	ENST00000380393,ENST00000216877,ENST00000358719,ENST00000399903,ENST00000425918,ENST00000318266,ENST00000356147	+	chr20	3013475	3014259	+	1662-1665	651,631,640,496	CCLE-DLBC
chr20:30137924:+>chr20:30138371:+	chr20	30137867,30137867,30137867,30137867,30137867,30137867,30137867	30137924	ENST00000335574,ENST00000340852,ENST00000398174,ENST00000376127,ENST00000344042	+	chr20	30138371	30138534	+	1666-1667	241,199	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr20:30137924:+>chr20:30138541:+	chr20	30137867,30137867,30137867,30137867,30137867,30137867,30137867	30137924	ENST00000335574,ENST00000340852,ENST00000398174,ENST00000376127,ENST00000344042	+	chr20	30138541	30138785	+	1668-1669	241,199	CCLE-COAD,CCLE-DLBC,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr20:33001685:+>chr20:33009538:+	chr20	33001548,33001548,33001548,33001548	33001685	ENST00000374864,ENST00000535650,ENST00000262650	+	chr20	33009538	33009830	+	1670-1671	48,158	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr20:33842557:+>chr20:33843021:+	chr20	33842253	33842557	ENST00000246186	+	chr20	33843021	33843147	+	1672-1672	272	CCLE-LUSC
chr20:3584909:+>chr20:3586253:+	chr20	3584752,358	3584909	ENST00000262919,ENST00000446916	+	chr20	3586253	3586572	+	1673-1673	1267	CCLE-LUSC
chr20:36014577:+>chr20:36014814:+	chr20	36014478,36014478,36014478,36014478,36014478,36014478,36014478	36014577	ENST00000445403,ENST00000373578,ENST00000358208,ENST00000360723,ENST00000373567,ENST00000373558	+	chr20	36014814	36014853	+	1674-1674	116	CCLE-KIRC,CCLE-LGG,CCLE-LUSC
chr20:36775119:->chr20:36774762:-	chr20	36775119,36775119,36775119,36775119	36775119	ENST00000361475,ENST00000536701,ENST00000536724	-	chr20	36774762	36774849	-	1675-1677	205,286,226	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr20:43280216:->chr20:43279852:-	chr20	43280216,43280216,43280216,43280216,43280216,43280216,43280216	43280216	ENST00000372874,ENST00000536532,ENST00000537820,ENST00000539235	-	chr20	43279852	43279854	-	1678-1678	11	CCLE-LCLL,CCLE-LIHC

chr20:44751858:+>chr20:44752657:+	chr20	44751765,45	44751858	ENST00000372285, ENST00000372276	+	chr20	44752657	44752948	+	1679-1679	165	CCLE-DLBC,CCLE-LCLL
chr20:44856147:->chr20:44854970:-	chr20	44856147,45	44856147	ENST00000372262, ENST00000537909	-	chr20	44854970	44855218	-	1680-1680	223	CCLE-LUSC
chr20:47282821:->chr20:47281107:-	chr20	47282821,47	47282821	ENST00000371941, ENST00000396220	-	chr20	47281107	47281126	-	1681-1681	579	CCLE-BRCA,CCLE-LUSC
chr20:47361562:->chr20:47359650:-	chr20	47361562,47	47361562	ENST00000371941, ENST00000396220	-	chr20	47359650	47359814	-	1682-1682	138	CCLE-DLBC
chr20:47361562:->chr20:47360660:-	chr20	47361562,47	47361562	ENST00000371941, ENST00000396220	-	chr20	47360660	47360810	-	1683-1683	138	CCLE-DLBC
chr20:47361562:->chr20:47360733:-	chr20	47361562,47	47361562	ENST00000371941, ENST00000396220	-	chr20	47360733	47360810	-	1684-1684	138	CCLE-DLBC
chr20:48098451:->chr20:48092996:-	chr20	48098451	48098451	ENST00000371741	-	chr20	48092996	48093103	-	1685-1685	189	CCLE-BRCA,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-STAD
chr20:4854582:->chr20:4853699:-	chr20	4854582,4854582,4854582,4854582	4854582	ENST00000338244, ENST00000379333, ENST00000424750, ENST00000423430	-	chr20	4853699	4853700	-	1686-1688	367,253,124	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr20:56886178:+>chr20:56906418:+	chr20	56886099	56886178	ENST00000244040	+	chr20	56906418	56906522	+	1689-1689	38	CCLE-LUSC,CCLE-SKCM
chr20:56918855:+>chr20:56921961:+	chr20	56918774	56918855	ENST00000244040	+	chr20	56921961	56922057	+	1690-1690	66	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SKCM,CCLE-STAD
chr20:56918855:+>chr20:56922040:+	chr20	56918774	56918855	ENST00000244040	+	chr20	56922040	56922057	+	1691-1691	66	CCLE-BLCA,CCLE-BRCA,CCLE-KIRC,CCLE-LUSC
chr20:58577921:+>chr20:58579540:+	chr20	58577868,58577868,58577868	58577921	ENST00000348616, ENST00000350849, ENST00000456106	+	chr20	58579540	58579850	+	1692-1694	740,73,50	CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-OV,CCLE-PRAD
chr20:60847315:+>chr20:60847807:+	chr20	60847199,60847181,60847181	60847315	ENST00000439951, ENST00000313733, ENST00000358053	+	chr20	60847807	60847966	+	1695-1697	119,131,39	CCLE-LUSC
chr20:60859225:+>chr20:60861393:+	chr20	60859102,60859102,60859102	60859225	ENST00000439951, ENST00000313733, ENST00000358053	+	chr20	60861393	60861524	+	1698-1700	320,332,240	CCLE-LUSC
chr20:61300430:+>chr20:61301303:+	chr20	61300282,61300282,61300282	61300430	ENST00000217159, ENST00000370507, ENST00000451793	+	chr20	61301303	61301456	+	1701-1702	675,104	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr20:61300430:+>chr20:61301432:+	chr20	61300282,61300282,61300282	61300430	ENST00000217159, ENST00000370507, ENST00000451793	+	chr20	61301432	61301456	+	1703-1704	675,104	CCLE-KIRC,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr20:61300430:+>chr20:61303808:+	chr20	61300282,61300282,61300282	61300430	ENST00000217159, ENST00000370507, ENST00000451793	+	chr20	61303808	61303847	+	1705-1706	675,104	CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr20:61300430:+>chr20:61306199:+	chr20	61300282,61300282,61300282	61300430	ENST00000217159, ENST00000370507, ENST00000451793	+	chr20	61306199	61306347	+	1707-1708	675,104	CCLE-LUSC,CCLE-PAAD
chr20:61341273:+>chr20:61368272:+	chr20	61340560	61341273	ENST00000370501	+	chr20	61368272	61368472	+	1709-1709	238	CCLE-PAAD
chr20:61389708:+>chr20:61390721:+	chr20	61389618	61389708	ENST00000370501	+	chr20	61390721	61390729	+	1710-1710	335	CCLE-LUSC,CCLE-PAAD
chr20:742345:->chr20:734008:-	chr20	742345,7423	742345	ENST00000217254, ENST00000381944	-	chr20	734008	734246	-	1711-1711	399	CCLE-COAD
chr21:15524894:->chr21:15522497:-	chr21	15524894,16	15524894	ENST00000344577, ENST00000536861	-	chr21	15522497	15522511	-	1712-1713	393,372	CCLE-SARC
chr21:18937929:+>chr21:19005467:+	chr21	18937746,18937746,18937746,18937746,18937746	18937929	ENST00000284878, ENST00000400166, ENST00000400165, ENST00000306618, ENST00000400169	+	chr21	19005467	19005601	+	1714-1717	199,298,339,251	CCLE-LGG,CCLE-LIHC,CCLE-LUSC
chr21:22370936:+>chr21:22582860:+	chr21	22370882,22	22370936	ENST00000400546, ENST00000284894	+	chr21	22582860	22582990	+	1718-1718	18	CCLE-LUSC
chr21:22746333:+>chr21:22768365:+	chr21	22746183,22746183,22746183	22746333	ENST00000400546, ENST00000284894, ENST00000535285	+	chr21	22768365	22768746	+	1719-1721	398,256,423	CCLE-BRCA,CCLE-LCLL,CCLE-LGG,CCLE-SARC
chr21:22746333:+>chr21:22774169:+	chr21	22746183,22746183,22746183	22746333	ENST00000400546, ENST00000284894, ENST00000535285	+	chr21	22774169	22775162	+	1722-1724	398,256,423	CCLE-BRCA

chr21:27394156:->chr21:27377399:-	chr21	27394156,27394156,27394156,27394156,27394156,27394156,27394156,27394156,27394156,27394156	27394156	ENST00000346798,ENST00000354192,ENST00000348990,ENST00000357903,ENST00000358918,ENST00000359726,ENST00000448388,ENST00000440126,ENST00000439274,ENST00000448850,ENST00000415997	-	chr21	27377399	27377405	-	1725-1730	283,253,288,232,79,210	CCLE-STAD
chr21:27423316:->chr21:27403857:-	chr21	27423316,27423316,27423316,27423316,27423316,27423316,27423316,27423316,27423316,27423316	27423316	ENST00000346798,ENST00000354192,ENST00000348990,ENST00000357903,ENST00000358918,ENST00000359726,ENST00000448388,ENST00000440126,ENST00000439274,ENST00000448850,ENST00000415997	-	chr21	27403857	27404102	-	1731-1736	215,185,220,164,11,142	CCLE-LUSC,CCLE-SARC
chr21:34717666:+>chr21:34720868:+	chr21	34717552,34717552,34717552	34717666	ENST00000416947,ENST00000270139,ENST00000442357	+	chr21	34720868	34721132	+	1737-1738	193,262	CCLE-LUSC,CCLE-MM
chr21:42540502:+>chr21:42582450:+	chr21	42540191,42540191,42540191	42540502	ENST00000328735,ENST00000330333,ENST00000347667	+	chr21	42582450	42583005	+	1739-1739	104	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr21:42540502:+>chr21:42582453:+	chr21	42540191,42540191,42540191	42540502	ENST00000328735,ENST00000330333,ENST00000347667	+	chr21	42582453	42583005	+	1740-1740	104	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr21:42622828:+>chr21:42628789:+	chr21	42622679,43	42622828	ENST00000328735,ENST00000330333	+	chr21	42628789	42628810	+	1741-1741	378	CCLE-SKCM
chr21:45649937:->chr21:45638127:-	chr21	45649937,45649937,45649413,45649937	45649937	ENST00000344330,ENST00000407780,ENST00000400379,ENST00000400377	-	chr21	45638127	45638193	-	1742-1743	182,299	CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LUSC
chr21:45799080:+>chr21:45800717:+	chr21	45798880,45798880,45798880,45798880	45799080	ENST00000300482,ENST00000397928,ENST00000397932,ENST00000300481	+	chr21	45800717	45800725	+	1744-1744	405	CCLE-LCLL
chr21:45802703:+>chr21:45806617:+	chr21	45802601,45802601,45802601,45802601	45802703	ENST00000300482,ENST00000397928,ENST00000397932,ENST00000300481	+	chr21	45806617	45806790	+	1745-1745	439	CCLE-LCLL
chr21:47965874:+>chr21:47966273:+	chr21	47965794,47965794,47965794,47965794,47965794,47965794,47965794,47965794	47965874	ENST00000400274,ENST00000427143,ENST00000318711,ENST00000457905,ENST00000466639,ENST00000435722,ENST00000417564	+	chr21	47966273	47966456	+	1746-1750	734,799,794,798,755	CCLE-LCLL
chr22:21096516:->chr22:21090879:-	chr22	21096516,21	21096516	ENST00000255882,ENST00000572273	-	chr22	21090879	21090965	-	1751-1752	1247,1189	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr22:25019883:+>chr22:25023093:+	chr22	25019747,25019747,25019747,25019747,25019747,25019747,25019747,25019747	25019883	ENST00000248923,ENST00000412658,ENST00000400382,ENST00000400383,ENST00000400380,ENST00000406383,ENST00000425895	+	chr22	25023093	25023141	+	1753-1753	340	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-STAD
chr22:37705364:+>chr22:37706656:+	chr22	37705253	37705364	ENST00000248901	+	chr22	37706656	37706672	+	1754-1754	269	CCLE-DLBC
chr3:10426952:->chr3:10422619:-	chr3	10426952,10426952,10426952	10426952	ENST00000352432,ENST00000343816,ENST00000360273	-	chr3	10422619	10422694	-	1755-1755	333	CCLE-LUSC
chr3:105271429:+>chr3:105289274:+	chr3	105271312,105271312,105271312,105271312,105271312	105271429	ENST00000306107,ENST00000472644,ENST00000486979,ENST00000389927,ENST00000465413	+	chr3	105289274	105289475	+	1756-1760	276,554,541,503,315	CCLE-LUSC
chr3:113601679:+>chr3:113603390:+	chr3	113601599,1	113601679	ENST00000358160,ENST00000472384	+	chr3	113603390	113603397	+	1761-1762	148,18	CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr3:115738362:->chr3:115737835:-	chr3	115738362,115738362,115738362,115738362	115738362	ENST00000490035,ENST00000333617,ENST00000539563,ENST00000474851	-	chr3	115737835	115737991	-	1763-1766	205,155,168,171	CCLE-LGG

chr3:119962487:->chr3:119951917:-	chr3	119962487,119962487,119962487,119962487	119962487	ENST00000495912,ENST00000315843,ENST00000464295,ENST00000461057	-	chr3	119951917	119952009	-	1767-1767	77	CCLE-LGG,CCLE-LUSC
chr3:120840551:+>chr3:120866822:+	chr3	120840488,120840488,120840488,120840488,120840488,120840488	120840551	ENST00000273666,ENST00000471454,ENST00000472879,ENST00000492541,ENST00000497029,ENST00000471262	+	chr3	120866822	120867003	+	1768-1768	223	CCLE-LCLL,CCLE-LUSC,CCLE-PRAD
chr3:121774350:+>chr3:121778695:+	chr3	121774337,121774337,121774337	121774350	ENST00000493101,ENST00000264468,ENST00000330540	+	chr3	121778695	121778930	+	1769-1769	4	CCLE-DLBC,CCLE-LCLL
chr3:123038521:->chr3:123037265:-	chr3	123038521,123038521,123038521,123038521	123038521	ENST00000462833,ENST00000491190,ENST00000309879,ENST00000466617	-	chr3	123037265	123037408	-	1770-1773	385,311,402,752	CCLE-BRCA,CCLE-LUSC
chr3:125745178:->chr3:125743748:-	chr3	125745178,125745178,125745178,125745178,125745178,125745178,125745178	125745178	ENST00000360370,ENST00000346785,ENST00000383598,ENST00000315891,ENST00000508835,ENST00000514677,ENST00000513723,ENST00000512470	-	chr3	125743748	125743780	-	1774-1779	163,251,199,214,82,173	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr3:129288686:->chr3:129287437:-	chr3	129288686,1	129288686	ENST00000324093,ENST00000393239	-	chr3	129287437	129287691	-	1780-1780	1288	CCLE-LUSC,CCLE-STAD
chr3:133657273:->chr3:133655170:-	chr3	133657273,1	133657273	ENST00000310926,ENST00000493729	-	chr3	133655170	133655262	-	1781-1782	487,563	CCLE-HNSC,CCLE-LUSC
chr3:142048276:->chr3:142043853:-	chr3	142048276,142048276,142048276	142048276	ENST00000264951,ENST00000498077,ENST00000392981	-	chr3	142043853	142044261	-	1783-1785	1467,1468,934	CCLE-LUSC
chr3:1427481:+>chr3:1429246:+	chr3	1427295,1427295,1427295	1427481	ENST00000446702,ENST00000539053,ENST00000350110	+	chr3	1429246	1435255	+	1786-1787	901,829	CCLE-LUSC
chr3:146239331:->chr3:146237967:-	chr3	146239331,146239331,146239331,146239331,146239331,146239331	146239331	ENST00000342435,ENST00000487389,ENST00000448787,ENST00000483300,ENST00000462666,ENST00000486631,ENST00000472349	-	chr3	146237967	146238022	-	1788-1792	222,246,165,239,113	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr3:167413384:->chr3:167385000:-	chr3	167413384,167413384,167413384,167413384,167413384,167413384,167413384,167413384,167413384,167413384	167413384	ENST00000392750,ENST00000473645,ENST00000497056,ENST00000492396,ENST00000461494,ENST00000470131,ENST00000475915,ENST00000487947,ENST00000471885,ENST00000479121,ENST00000462725,ENST00000492139	-	chr3	167385000	167385018	-	1793-1795	68,131,112	CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr3:172428637:->chr3:172383082:-	chr3	172428637,172428637,172428637,172428637,172428637	172428637	ENST00000475381,ENST00000273512,ENST00000538775,ENST00000424772,ENST00000421723	-	chr3	172383082	172383900	-	1796-1798	46,78,69	CCLE-COAD,CCLE-LUSC
chr3:185251359:->chr3:185246276:-	chr3	185251359,185251359,185251359	185251359	ENST00000296252,ENST00000424591,ENST00000452897	-	chr3	185246276	185246363	-	1799-1800	175,3	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr3:195453443:+>chr3:195453990:+	chr3	195451551,195452544,195451551,195451580,195453241	195453443	ENST00000447234,ENST00000320736,ENST00000436408,ENST00000445522,ENST00000423938	+	chr3	195453990	195454272	+	1801-1804	656,485,621,68	CCLE-LUSC
chr3:195456610:+>chr3:195464079:+	chr3	195456519,195456519,195456519,195456519,195456519	195456610	ENST00000447234,ENST00000320736,ENST00000436408,ENST00000445522,ENST00000423938	+	chr3	195464079	195464193	+	1805-1808	687,516,652,99	CCLE-COAD
chr3:195456610:+>chr3:195522371:+	chr3	195456519,195456519,195456519,195456519,195456519	195456610	ENST00000447234,ENST00000320736,ENST00000436408,ENST00000445522,ENST00000423938	+	chr3	195522371	195522437	+	1809-1812	687,516,652,99	CCLE-ESCA
chr3:195785155:->chr3:195782660:-	chr3	195785155,195785155,195785155,195785155	195785155	ENST00000420415,ENST00000360110,ENST00000392396,ENST00000535031	-	chr3	195782660	195782661	-	1813-1815	277,478,559	CCLE-LCLL
chr3:195785155:->chr3:195782790:-	chr3	195785155,195785155,195785155,195785155	195785155	ENST00000420415,ENST00000360110,ENST00000392396,ENST00000535031	-	chr3	195782790	195782795	-	1816-1818	277,478,559	CCLE-LCLL

chr3:195785155:->chr3:195782922:-	chr3	195785155,195785155,195785155,195785155	195785155	ENST00000420415,ENST00000360110,ENST00000392396,ENST00000535031	-	chr3	195782922	195782923	-	1819-1821	277,478,559	CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-OV,CCLE-PAAD
chr3:195798267:->chr3:195798015:-	chr3	195798267,195798267,195798267	195798267	ENST00000420415,ENST00000360110,ENST00000392396	-	chr3	195798015	195798106	-	1822-1823	148,229	CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL
chr3:195798267:->chr3:195798058:-	chr3	195798267,195798267,195798267	195798267	ENST00000420415,ENST00000360110,ENST00000392396	-	chr3	195798058	195798106	-	1824-1825	148,229	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr3:195798874:->chr3:195798058:-	chr3	195798874,195798874,195798874	195798874	ENST00000420415,ENST00000360110,ENST00000392396	-	chr3	195798058	195798106	-	1826-1827	113,194	CCLE-ESCA,CCLE-LCLL
chr3:196381518:+>chr3:196385589:+	chr3	196381411	196381518	ENST00000328557	+	chr3	196385589	196385862	+	1828-1828	36	CCLE-DLBC,CCLE-LCLL,CCLE-MM,CCLE-SKCM
chr3:196537524:+>chr3:196538660:+	chr3	196537461	196537524	ENST00000327134	+	chr3	196538660	196538892	+	1829-1829	257	CCLE-COAD,CCLE-DLBC
chr3:196743060:->chr3:196742765:-	chr3	196743060	196743060	ENST00000296350	-	chr3	196742765	196742801	-	1830-1830	360	CCLE-SKCM
chr3:196802708:->chr3:196801113:-	chr3	196802708,196802708,196802708,196802708,196802708,196802708,196802708	196802708	ENST00000314062,ENST00000419354,ENST00000452595,ENST00000422288,ENST00000448528,ENST00000443183,ENST00000392382	-	chr3	196801113	196801267	-	1831-1834	563,646,679,628	CCLE-LUSC
chr3:196803457:->chr3:196800452:-	chr3	196803457,196803457,196803457	196803457	ENST00000346964,ENST00000357674,ENST00000450955	-	chr3	196800452	196800555	-	1835-1836	668,701	CCLE-ESCA
chr3:20019895:+>chr3:20024715:+	chr3	20019802,2	20019895	ENST00000273047,ENST00000422242	+	chr3	20024715	20024858	+	1837-1838	177,163	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr3:20019895:+>chr3:20044717:+	chr3	20019802,2	20019895	ENST00000273047,ENST00000422242	+	chr3	20044717	20044953	+	1839-1840	177,163	CCLE-COAD,CCLE-LCLL,CCLE-LGG,CCLE-LUSC
chr3:32180219:+>chr3:32180994:+	chr3	32180079,32180079,32180079,32180079	32180219	ENST00000429432,ENST00000282541,ENST00000428684,ENST00000431009	+	chr3	32180994	32181092	+	1841-1843	122,62,83	CCLE-DLBC,CCLE-LUSC,CCLE-SKCM
chr3:32201166:+>chr3:32206593:+	chr3	32201060	32201166	ENST00000282541	+	chr3	32206593	32206721	+	1844-1844	319	CCLE-LCLL,CCLE-LIHC,CCLE-STAD
chr3:33661095:->chr3:33659738:-	chr3	33661095,33661095,33661095,33661095,33661095,33661095,33661095,33661095,33661095	33661095	ENST00000468888,ENST00000399362,ENST00000539981,ENST00000359576,ENST00000480013,ENST00000461133,ENST00000313350,ENST00000487200,ENST00000333778,ENST00000485378	-	chr3	33659738	33659739	-	1845-1850	206,440,439,216,191,212	CCLE-DLBC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr3:36422246:+>chr3:36495761:+	chr3	36422136,36422136,36422136,36422136	36422246	ENST00000273183,ENST00000457375,ENST00000427486,ENST00000434649	+	chr3	36495761	36496043	+	1851-1851	37	CCLE-BRCA,CCLE-LGG
chr3:36485132:+>chr3:36495753:+	chr3	36484856,36484856,36484889	36485132	ENST00000273183,ENST00000457375,ENST00000434649	+	chr3	36495753	36496043	+	1852-1853	129,118	CCLE-LUSC
chr3:36485132:+>chr3:36495761:+	chr3	36484856,36484856,36484889	36485132	ENST00000273183,ENST00000457375,ENST00000434649	+	chr3	36495761	36496043	+	1854-1855	129,118	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr3:39453491:+>chr3:39480368:+	chr3	39453387,39453387,39453387	39453491	ENST00000301821,ENST00000458478,ENST00000443003	+	chr3	39480368	39480431	+	1856-1857	244,249	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr3:39453832:+>chr3:39697048:+	chr3	39453765,39	39453832	ENST00000301821,ENST00000443003	+	chr3	39697048	39698146	+	1858-1859	287,292	CCLE-LUSC,CCLE-MM
chr3:42906351:+>chr3:42938530:+	chr3	42905995,42905995,42905995,42905995,42905995,42905995,42905995	42906351	ENST00000442925,ENST00000422265,ENST00000497921,ENST00000273145,ENST00000492609,ENST00000494619,ENST00000493193	+	chr3	42938530	42939566	+	1860-1860	119	CCLE-OV
chr3:42906879:+>chr3:42926285:+	chr3	42905995,42905995,42905995	42906879	ENST00000442925,ENST00000422265,ENST00000273145	+	chr3	42926285	42926346	+	1861-1861	295	CCLE-BLCA
chr3:42906879:+>chr3:42938530:+	chr3	42905995,42905995,42905995	42906879	ENST00000442925,ENST00000422265,ENST00000273145	+	chr3	42938530	42939566	+	1862-1862	295	CCLE-OV

chr3:43591212:->chr3:43488892:-	chr3	43591212,43591212,43591212,43591212,43591212,43591212	43591212	ENST00000292246,ENST00000350459,ENST00000396091,ENST00000414522,ENST00000451430,ENST00000448045	-	chr3	43488892	43489022	-	1863-1867	533,599,409,488,127	CCLE-OV
chr3:43591212:->chr3:43498923:-	chr3	43591212,43591212,43591212,43591212,43591212,43591212	43591212	ENST00000292246,ENST00000350459,ENST00000396091,ENST00000414522,ENST00000451430,ENST00000448045	-	chr3	43498923	43499158	-	1868-1872	533,599,409,488,127	CCLE-BRCA,CCLE-CESC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr3:45132665:->chr3:45132083:-	chr3	45132665	45132665	ENST00000296129	-	chr3	45132083	45132111	-	1873-1873	664	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr3:45755571:+>chr3:45756665:+	chr3	45755538,45755538,45755538,45755538	45755571	ENST00000455997,ENST00000418611,ENST00000389061,ENST00000541314	+	chr3	45756665	45756694	+	1874-1876	192,89,131	CCLE-DLBC,CCLE-LCLL
chr3:49081823:->chr3:49080299:-	chr3	49081823,49081823,49081823	49081823	ENST00000395443,ENST00000357496,ENST00000424300	-	chr3	49080299	49080305	-	1877-1877	595	CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr3:50356387:->chr3:50349850:-	chr3	50356387,50356387,50356387,50356387	50356387	ENST00000447092,ENST00000357750,ENST00000395139,ENST00000442581	-	chr3	50349850	50350395	-	1878-1878	337	CCLE-LIHC,CCLE-LUSC,CCLE-OV
chr3:50356387:->chr3:50350067:-	chr3	50356387,50356387,50356387,50356387	50356387	ENST00000447092,ENST00000357750,ENST00000395139,ENST00000442581	-	chr3	50350067	50350395	-	1879-1879	337	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr3:50356387:->chr3:50350070:-	chr3	50356387,50356387,50356387,50356387	50356387	ENST00000447092,ENST00000357750,ENST00000395139,ENST00000442581	-	chr3	50350070	50350395	-	1880-1880	337	CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr3:50356387:->chr3:50350120:-	chr3	50356387,50356387,50356387,50356387	50356387	ENST00000447092,ENST00000357750,ENST00000395139,ENST00000442581	-	chr3	50350120	50350395	-	1881-1881	337	CCLE-CESC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC
chr3:50356387:->chr3:50350174:-	chr3	50356387,50356387,50356387,50356387	50356387	ENST00000447092,ENST00000357750,ENST00000395139,ENST00000442581	-	chr3	50350174	50350395	-	1882-1882	337	CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM
chr3:50382555:->chr3:50381909:-	chr3	50382555,50382555,50382555	50382555	ENST00000231749,ENST00000360165,ENST00000442887	-	chr3	50381909	50382048	-	1883-1884	67,24	CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-MM,CCLE-PAAD
chr3:52514311:+>chr3:52516658:+	chr3	52514200,52514200,52514200,52514200	52514311	ENST00000479054,ENST00000345716,ENST00000488380,ENST00000420808	+	chr3	52516658	52516710	+	1885-1885	509	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr3:53212553:+>chr3:53213269:+	chr3	53212439,53212439,53212439,53212439,53212439,53212439	53212553	ENST00000478843,ENST00000394729,ENST00000330452,ENST00000487897,ENST00000464818	+	chr3	53213269	53213340	+	1886-1886	38	CCLE-BRCA,CCLE-DLBC,CCLE-LUSC,CCLE-PRAD
chr3:53894255:+>chr3:53894666:+	chr3	53894157,54	53894255	ENST00000288167,ENST00000494338	+	chr3	53894666	53897334	+	1887-1888	315,299	CCLE-DLBC,CCLE-STAD
chr3:57743576:+>chr3:57806340:+	chr3	57743379,57743379,57743379,57743379,57743379,57743379	57743576	ENST00000295951,ENST00000295952,ENST00000383718,ENST00000428312,ENST00000449503	+	chr3	57806340	57806732	+	1889-1889	66	CCLE-LUSC,CCLE-OV,CCLE-STAD
chr3:57835543:+>chr3:57835762:+	chr3	57835481,57835481,57835481,57835481,57835481,57835481	57835543	ENST00000295951,ENST00000295952,ENST00000383718,ENST00000428312,ENST00000449503	+	chr3	57835762	57835912	+	1890-1890	173	CCLE-PAAD
chr3:57893733:+>chr3:57893895:+	chr3	57893611,57893611,57893611,57893611,57893611,57893611,57893611,57893611	57893733	ENST00000295951,ENST00000295952,ENST00000428312,ENST00000449503,ENST00000416658,ENST00000417128,ENST00000495364,ENST00000461354	+	chr3	57893895	57893961	+	1891-1896	58,507,486,524,108,132	CCLE-LUSC
chr3:65346874:->chr3:65316535:-	chr3	65346874,65346874,65346824,65346824,65346824,65346824,65346824,65346824	65346874	ENST00000330909,ENST00000402939,ENST00000463103,ENST00000483466,ENST00000460329,ENST00000497477,ENST00000472257	-	chr3	65316535	65316556	-	1897-1903	1115,998,1144,1211,1240,1239,1120	CCLE-LGG

chr3:65361420:->chr3:65359254:-	chr3	65361420,65361420,65361420,65361420,65361420,65361420	65361420	ENST00000330909, ENST00000402939, ENST00000463103, ENST00000483466, ENST00000460329, ENST00000472257	-	chr3	65359254	65359300	-	1904-1909	969,852,1065,1094,1093,974	CCLE-DLBC
chr3:78766425:->chr3:78765512:-	chr3	78766425,78766425,78766425,78766425	78766425	ENST00000436010, ENST00000464233, ENST00000495273, ENST00000467549	-	chr3	78765512	78765735	-	1910-1911	266,305	CCLE-BRCA,CCLE-LCLL,CCLE-LUSC,CCLE-OV
chr3:85008819:+>chr3:85088184:+	chr3	85008759,85	85008819	ENST00000383699, ENST00000407528	+	chr3	85088184	85088216	+	1912-1912	20	CCLE-BRCA,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr3:85008819:+>chr3:85088186:+	chr3	85008759,85	85008819	ENST00000383699, ENST00000407528	+	chr3	85088186	85088216	+	1913-1913	20	CCLE-SARC
chr3:9593958:->chr3:9522319:-	chr3	9593958	9593958	ENST00000287585	-	chr3	9522319	9522472	-	1914-1914	135	CCLE-LUSC
chr3:9953281:+>chr3:9955390:+	chr3	9953127,9953127,9953127,9953127	9953281	ENST00000421412, ENST00000295980, ENST00000383814, ENST00000454190	+	chr3	9955390	9955428	+	1915-1916	409,442	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr4:102117073:->chr4:102104428:-	chr4	102117073,102117073,102117073,102117073,102117073,102117073	102117073	ENST00000512215, ENST00000394854, ENST00000323055, ENST00000394853, ENST00000492351, ENST00000529324, ENST00000525819	-	chr4	102104428	102104622	-	1917-1919	4,36,86	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD
chr4:103747642:->chr4:103736490:-	chr4	103747642,103747642,103747642,103747642,103747642,103747642,103747642,103747642,103747642,103747642,103747642,103747642,103747642,103747642,103747642,103747642	103747642	ENST00000453744, ENST00000394801, ENST00000394803, ENST00000394804, ENST00000343106, ENST00000321805, ENST00000338145, ENST00000349311, ENST00000505307, ENST00000510129, ENST00000502563, ENST00000508238, ENST00000514755, ENST00000508974, ENST00000502690, ENST00000503418, ENST00000508249	-	chr4	103736490	103736496	-	1920-1920	8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr4:123748507:+>chr4:123760129:+	chr4	123747931,1	123748507	ENST00000264498, ENST00000608478	+	chr4	123760129	123760329	+	1921-1922	59,192	CCLE-BLCA,CCLE-BRCA,CCLE-KIRC,CCLE-LGG,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr4:129809834:->chr4:129808227:-	chr4	129809834,129809834,129809834,129809834,12980983 4	129809834	ENST00000281142, ENST00000434680, ENST00000439369, ENST00000503215	-	chr4	129808227	129808368	-	1923-1926	668,287,155,264	CCLE-DLBC
chr4:130003461:->chr4:129994432:-	chr4	130003461,130003461,130003461,130003461,130003461,130003461,130003461,130003461	130003461	ENST00000281142, ENST00000434680, ENST00000439369, ENST00000503215, ENST00000506368, ENST00000511426, ENST00000503401	-	chr4	129994432	129994478	-	1927-1928	34,11	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr4:130003461:->chr4:130001955:-	chr4	130003461,130003461,130003461,130003461,130003461,130003461,130003461,130003461	130003461	ENST00000281142, ENST00000434680, ENST00000439369, ENST00000503215, ENST00000506368, ENST00000511426, ENST00000503401	-	chr4	130001955	130002027	-	1929-1930	34,11	CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr4:130003461:->chr4:130001975:-	chr4	130003461,130003461,130003461,130003461,130003461,130003461,130003461,130003461	130003461	ENST00000281142, ENST00000434680, ENST00000439369, ENST00000503215, ENST00000506368, ENST00000511426, ENST00000503401	-	chr4	130001975	130002027	-	1931-1932	34,11	CCLE-LCLL
chr4:144940404:->chr4:144904919:-	chr4	144940404,144940404,144940404,144940404,144940404,144940404,144940404,144940404	144940404	ENST00000506679, ENST00000502664, ENST00000505583, ENST00000513128, ENST00000504951, ENST00000506516, ENST00000511198, ENST00000429670	-	chr4	144904919	144905050	-	1933-1933	12	CCLE-LCLL
chr4:145038007:->chr4:145019678:-	chr4	145038007,145038007,145038007,145038007,145038007,145038007,145038007,145038007	145038007	ENST00000360771, ENST00000324022, ENST00000535709, ENST00000512064, ENST00000503627, ENST00000504786, ENST00000512789	-	chr4	145019678	145019711	-	1934-1940	93,86,106,119,74,87,54	CCLE-LCLL

chr4:145061752:->chr4:144904919:-	chr4	145061752,145061752,145061752,145061752,14506175,145061752,145061752,14506175,145061752,145061752,14506175,145061752,145061752,145061752	145061752	ENST00000283126,ENST00000360771,ENST00000324022,ENST00000508337,ENST00000512064,ENST00000503627,ENST00000504786,ENST00000512789	-	chr4	144904919	144905050	-	1941-1941	12	CCLE-LCLL
chr4:145061752:->chr4:145019678:-	chr4	145061752,145061752,145061752,145061752,14506175,145061752,145061752,14506175,145061752,145061752,14506175,145061752,145061752,145061752	145061752	ENST00000283126,ENST00000360771,ENST00000324022,ENST00000508337,ENST00000512064,ENST00000503627,ENST00000504786,ENST00000512789	-	chr4	145019678	145019711	-	1942-1942	12	CCLE-LCLL
chr4:147227078:->chr4:147226085:-	chr4	147227078,147227078,147227078,147227078,14722707,147227078,147227078,14722707,147227078,147227078,14722707,147227078,147227078,147227078	147227078	ENST00000432059,ENST00000335472,ENST00000507030,ENST00000394062	-	chr4	147226085	147226119	-	1943-1944	185,172	CCLE-LUSC
chr4:151719233:->chr4:151703761:-	chr4	151719233,151719233,151719233,151719233,15171923,151719233,151719233,15171923,151719233,151719233,15171923,151719233,151719233,151719233	151719233	ENST00000535741,ENST00000510413,ENST00000357115,ENST00000509835,ENST00000507224	-	chr4	151703761	151703941	-	1945-1946	1860,513	CCLE-LUSC,CCLE-OV
chr4:154533552:+>chr4:154534436:+	chr4	154533404,154533404,154533404,154533404,15453340,154533404,154533404,15453340,154533404,154533404,15453340,154533404,154533404,154533404	154533552	ENST00000440693,ENST00000409663,ENST00000409959,ENST00000240487	+	chr4	154534436	154535020	+	1947-1950	1105,1189,1188,966	CCLE-DLBC,CCLE-LCLL
chr4:15724557:+>chr4:15775730:+	chr4	15724498,15724498,15724498,15724498,15724498,15724498,15724498,15724498	15724557	ENST00000265016,ENST00000382346,ENST00000505785,ENST00000514445,ENST00000514989	+	chr4	15775730	15775946	+	1951-1955	133,283,298,91,179	CCLE-LCLL,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr4:175749892:->chr4:175731230:-	chr4	175749892,2	175749892	ENST00000274093,ENST00000340217	-	chr4	175731230	175731401	-	1956-1956	23	CCLE-DLBC,CCLE-LUSC,CCLE-MM
chr4:183268082:+>chr4:183361029:+	chr4	183267804,183267804,183268082,183267804	183268082	ENST00000512480,ENST00000511685,ENST00000406950	+	chr4	183361029	183361180	+	1957-1957	170	CCLE-BRCA
chr4:183652292:+>chr4:183657537:+	chr4	183652031,2	183652292	ENST00000511685,ENST00000406950	+	chr4	183657537	183657650	+	1958-1958	989	CCLE-LGG
chr4:185138732:->chr4:185125278:-	chr4	185138732	185138732	ENST00000296741	-	chr4	185125278	185125443	-	1959-1959	80	CCLE-LIHC
chr4:187549308:->chr4:187543973:-	chr4	187549308	187549308	ENST00000441802	-	chr4	187543973	187544165	-	1960-1960	1603	CCLE-COAD
chr4:21698973:->chr4:21613077:-	chr4	21698973	21698973	ENST00000382148	-	chr4	21613077	21613149	-	1961-1961	29	CCLE-LGG
chr4:25270825:+>chr4:25281941:+	chr4	25270766,25	25270825	ENST00000512921,ENST00000264864	+	chr4	25281941	25282117	+	1962-1963	424,328	CCLE-LCLL
chr4:2886393:+>chr4:2888303:+	chr4	2886242,2886242,2886242,2886242,2886242,2886242,2886242,2886242,2886242,2886242,2886242,2886242,2886242,2886242,2886242,2886242	2886393	ENST00000264758,ENST00000446856,ENST00000398125,ENST00000513328,ENST00000503455,ENST00000355842,ENST00000398123,ENST00000398129	+	chr4	2888303	2888408	+	1964-1964	170	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr4:3475363:+>chr4:3476126:+	chr4	3475133,3475133,3475133,3475133	3475363	ENST00000389653,ENST00000340083,ENST00000507039	+	chr4	3476126	3476266	+	1965-1965	110	CCLE-BRCA
chr4:39409394:+>chr4:39414939:+	chr4	39408570	39409394	ENST00000257408	+	chr4	39414939	39415046	+	1966-1966	275	CCLE-LIHC
chr4:40339381:+>chr4:40343815:+	chr4	40339227	40339381	ENST00000310169	+	chr4	40343815	40343828	+	1967-1967	121	CCLE-LUSC
chr4:40351431:+>chr4:40351856:+	chr4	40350899	40351431	ENST00000310169	+	chr4	40351856	40351869	+	1968-1968	299	CCLE-BRCA,CCLE-LUSC
chr4:47163486:+>chr4:47168375:+	chr4	47163266,47	47163486	ENST00000295454,ENST00000538619	+	chr4	47168375	47168728	+	1969-1970	83,153	CCLE-LUSC
chr4:48073534:->chr4:48060000:-	chr4	48073534,48	48073534	ENST00000264316,ENST00000507351	-	chr4	48060000	48060437	-	1971-1972	160,505	CCLE-LUSC
chr4:5721100:+>chr4:5726215:+	chr4	5720975,5720975,5720975,5720975	5721100	ENST00000264956,ENST00000382674,ENST00000509451	+	chr4	5726215	5726409	+	1973-1973	100	CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM
chr4:5743541:+>chr4:5743914:+	chr4	5743443,5743443,5743443,5743443	5743541	ENST00000264956,ENST00000382674,ENST00000509451	+	chr4	5743914	5744118	+	1974-1974	267	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-THCA
chr4:5785491:+>chr4:5785935:+	chr4	5785279,579	5785491	ENST00000264956,ENST00000382674	+	chr4	5785935	5786322	+	1975-1975	592	CCLE-LUSC
chr4:5785491:+>chr4:5789128:+	chr4	5785279,579	5785491	ENST00000264956,ENST00000382674	+	chr4	5789128	5789420	+	1976-1976	592	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC

chr4:5785491:+>chr4:5794407:+	chr4	5785279,579	5785491	ENST00000264956, ENST00000382674	+	chr4	5794407	5795260	+	1977-1977	592	CCLE-SKCM
chr4:66467359:->chr4:66464265:-	chr4	66467359,66467359,66467359,66467359	66467359	ENST00000273854, ENST00000432638, ENST00000354839, ENST00000511294	-	chr4	66464265	66464664	-	1978-1978	303	CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr4:72897917:+>chr4:72934630:+	chr4	72897619,73	72897917	ENST00000308744, ENST00000344413	+	chr4	72934630	72934755	+	1979-1979	99	CCLE-OV
chr4:7533356:+>chr4:7625573:+	chr4	7533257,753	7533356	ENST00000507866, ENST00000329016	+	chr4	7625573	7625601	+	1980-1981	216,44	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-HNSC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr4:7533356:+>chr4:7625588:+	chr4	7533257,753	7533356	ENST00000507866, ENST00000329016	+	chr4	7625588	7625601	+	1982-1983	216,44	CCLE-LUSC
chr4:7533356:+>chr4:7636577:+	chr4	7533257,753	7533356	ENST00000507866, ENST00000329016	+	chr4	7636577	7636910	+	1984-1985	216,44	CCLE-OV,CCLE-SARC
chr4:76997111:+>chr4:77000080:+	chr4	76997043,76997043,76997043,76997043,76997043,76997043,76997043,76997043	76997111	ENST00000513353, ENST00000341029, ENST00000513122, ENST00000504914, ENST00000349321, ENST00000355810, ENST00000510423	+	chr4	77000080	77000246	+	1986-1986	23	CCLE-SKCM
chr4:78987170:+>chr4:78988689:+	chr4	78987139,78987139,78987139,78987139	78987170	ENST00000264899, ENST00000325942, ENST00000264895, ENST00000508909	+	chr4	78988689	78988800	+	1987-1987	36	CCLE-LIHC,CCLE-LUSC
chr4:78987170:+>chr4:78992465:+	chr4	78987139,78987139,78987139,78987139	78987170	ENST00000264899, ENST00000325942, ENST00000264895, ENST00000508909	+	chr4	78992465	78992521	+	1988-1988	36	CCLE-BLCA,CCLE-COAD,CCLE-LIHC,CCLE-LUSC
chr4:79240140:+>chr4:79251105:+	chr4	79239964,79239964,79239964,79239964,79239964	79240140	ENST00000264899, ENST00000325942, ENST00000264895, ENST00000502446, ENST00000508900	+	chr4	79251105	79251209	+	1989-1991	712,555,641	CCLE-BLCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr4:79258971:+>chr4:79264184:+	chr4	79258828,79258828,79258828	79258971	ENST00000325942, ENST00000264895, ENST00000508900	+	chr4	79264184	79264463	+	1992-1993	807,65	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-STAD
chr4:79258971:+>chr4:79264311:+	chr4	79258828,79258828,79258828	79258971	ENST00000325942, ENST00000264895, ENST00000508900	+	chr4	79264311	79264463	+	1994-1995	807,65	CCLE-COAD
chr4:79308855:+>chr4:79309817:+	chr4	79308529,79	79308855	ENST00000325942, ENST00000264895	+	chr4	79309817	79309977	+	1996-1996	1325	CCLE-COAD,CCLE-HNSC,CCLE-LUSC,CCLE-STAD
chr4:843680:->chr4:840510:-	chr4	843680,843680,843680	843680	ENST00000314167, ENST00000511163, ENST00000511980	-	chr4	840510	840541	-	1997-1999	1278,1199,434	CCLE-DLBC,CCLE-LUSC
chr4:875695:->chr4:873486:-	chr4	875695,8757	875695	ENST00000314167, ENST00000511163	-	chr4	873486	873576	-	2000-2001	553,474	CCLE-LUSC
chr4:88940723:+>chr4:88952237:+	chr4	88940610	88940723	ENST00000237596	+	chr4	88952237	88952506	+	2002-2002	236	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr4:93511437:+>chr4:93512232:+	chr4	93511282,94	93511437	ENST00000282020, ENST00000510992	+	chr4	93512232	93512557	+	2003-2003	81	CCLE-LUSC
chr4:96469885:->chr4:96436122:-	chr4	96469885,96469885,96469885,96469885	96469885	ENST00000453304, ENST00000513796, ENST00000506749, ENST00000504962	-	chr4	96436122	96436122	-	2004-2004	41	CCLE-LGG
chr4:9828044:->chr4:9800862:-	chr4	9828021,9828021,9828044	9828044	ENST00000264784, ENST00000506583, ENST00000309065	-	chr4	9800862	9800909	-	2005-2006	533,504	CCLE-COAD,CCLE-SARC,CCLE-STAD
chr4:9828044:->chr4:9800865:-	chr4	9828021,9828021,9828044	9828044	ENST00000264784, ENST00000506583, ENST00000309065	-	chr4	9800865	9800909	-	2007-2008	533,504	CCLE-LCLL
chr4:9889191:->chr4:9888526:-	chr4	9889191,9889191,9889191	9889191	ENST00000264784, ENST00000506583, ENST00000309065	-	chr4	9888526	9888598	-	2009-2010	430,401	CCLE-KIRC,CCLE-LUSC
chr4:9998405:->chr4:9995169:-	chr4	9998405,9998405,9998405,9998405	9998405	ENST00000264784, ENST00000506583, ENST00000309065, ENST00000513129	-	chr4	9995169	9995241	-	2011-2012	136,107	CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr5:107006190:->chr5:106764564:-	chr5	107006190,1	107006190	ENST00000333274, ENST00000509503	-	chr5	106764564	106764805	-	2013-2013	41	CCLE-CESC,CCLE-LUSC,CCLE-OV
chr5:112090722:+>chr5:112095824:+	chr5	112090588,112090588,112090588,112090588,112090588,112090588	112090722	ENST00000509732, ENST00000457016, ENST00000508624, ENST00000257430, ENST00000508376, ENST00000512211	+	chr5	112095824	112095874	+	2014-2014	45	CCLE-LCLL

chr5:127497492:+>chr5:127498715:+	chr5	127497352,127497352,127497352	127497492	ENST00000262461,ENST00000509205,ENST00000343225	+	chr5	127498715	127498750	+	2015-2015	872	CCLE-BRCA,CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr5:127497492:+>chr5:127498885:+	chr5	127497352,127497352,127497352	127497492	ENST00000262461,ENST00000509205,ENST00000343225	+	chr5	127498885	127498938	+	2016-2016	872	CCLE-COAD
chr5:130788747:->chr5:130786674:-	chr5	130788747,130788747,130788747,130788747,130788747,130788747,130788747,130788747	130788747	ENST00000509018,ENST00000307984,ENST00000514667,ENST00000507093,ENST00000296859,ENST00000512052,ENST00000308008,ENST00000515170	-	chr5	130786674	130786744	-	2017-2020	1116,1071,1066,781	CCLE-LUSC,CCLE-SARC
chr5:138163407:+>chr5:137988753:+	chr5	138163204,138163204,138163204,138163204	138163407	ENST00000355078,ENST00000302763,ENST00000518825,ENST00000523275	+	chr5	137988753	137988828	+	2021-2023	109,251,354	CCLE-OV
chr5:138713091:->chr5:138708570:-	chr5	138713091,1	138713091	ENST00000353963,ENST00000348729	-	chr5	138708570	138708571	-	2024-2025	520,516	CCLE-DLBC
chr5:140168269:+>chr5:140170924:+	chr5	140165876,1	140168269	ENST00000378133,ENST00000504120	+	chr5	140170924	140170926	+	2026-2026	798	CCLE-LUSC
chr5:140903710:->chr5:140835963:-	chr5	140903710,140903710,140903710,140903710,140903710,140903710,140903710,140903710	140903710	ENST00000389054,ENST00000520569,ENST00000253811,ENST00000389057,ENST00000398557,ENST00000398562,ENST00000398566,ENST00000448451,ENST00000518047	-	chr5	140835963	140836249	-	2027-2035	1196,1212,1208,1211,1221,1217,1220,1163,66	CCLE-CESC,CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr5:140903710:->chr5:140835966:-	chr5	140903710,140903710,140903710,140903710,140903710,140903710,140903710,140903710	140903710	ENST00000389054,ENST00000520569,ENST00000253811,ENST00000389057,ENST00000398557,ENST00000398562,ENST00000398566,ENST00000448451,ENST00000518047	-	chr5	140835966	140836249	-	2036-2044	1196,1212,1208,1211,1221,1217,1220,1163,66	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr5:141041251:->chr5:141039627:-	chr5	141041251,141041251,141041251	141041251	ENST00000508305,ENST00000239440,ENST00000513878	-	chr5	141039627	141039645	-	2045-2047	1039,870,701	CCLE-LUSC
chr5:141044489:->chr5:141044256:-	chr5	141044489,141044489,141044489	141044489	ENST00000508305,ENST00000239440,ENST00000513878	-	chr5	141044256	141044396	-	2048-2050	933,835,595	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr5:148207568:+>chr5:148257075:+	chr5	148206395	148207568	ENST00000305988	+	chr5	148257075	148257406	+	2051-2051	391	CCLE-HNSC,CCLE-LUSC,CCLE-PAAD
chr5:149784243:->chr5:149783719:-	chr5	149784243,149784243,149784243	149784243	ENST00000353334,ENST00000518797,ENST00000009530	-	chr5	149783719	149783779	-	2052-2053	208,203	CCLE-DLBC
chr5:150928856:->chr5:150928172:-	chr5	150928856	150928856	ENST00000261800	-	chr5	150928172	150928341	-	2054-2054	1596	CCLE-ESCA,CCLE-HNSC,CCLE-LUSC
chr5:150928856:->chr5:150928204:-	chr5	150928856	150928856	ENST00000261800	-	chr5	150928204	150928341	-	2055-2055	1596	CCLE-ESCA,CCLE-HNSC
chr5:150928856:->chr5:150928335:-	chr5	150928856	150928856	ENST00000261800	-	chr5	150928335	150928341	-	2056-2056	1596	CCLE-ESCA,CCLE-HNSC,CCLE-LUSC
chr5:155756589:+>chr5:155756747:+	chr5	155756587,155756587,155756587,155756587	155756589	ENST00000517913,ENST00000447401,ENST00000337851,ENST00000524347	+	chr5	155756747	155757050	+	2057-2057	1	CCLE-BRCA,CCLE-SKCM
chr5:155771687:+>chr5:155776819:+	chr5	155771499,155771499,155771499,155771499,155771499	155771687	ENST00000517913,ENST00000435422,ENST00000447401,ENST00000337851,ENST00000524347	+	chr5	155776819	155777256	+	2058-2059	64,63	CCLE-COAD,CCLE-LGG,CCLE-SARC,CCLE-SKCM
chr5:159344861:+>chr5:159412678:+	chr5	159343913	159344861	ENST00000306675	+	chr5	159412678	159412697	+	2060-2060	316	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr5:169931637:+>chr5:170046379:+	chr5	169931577,169931577,169931577,169931577	169931637	ENST00000328939,ENST00000390656,ENST00000411494,ENST00000434108	+	chr5	170046379	170046402	+	2061-2061	20	CCLE-CESC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-OV,CCLE-THCA
chr5:170149824:+>chr5:170152244:+	chr5	170149717,170149717,170149717,170149717,170149717,170149717,170149717,170149717	170149824	ENST00000377360,ENST00000328939,ENST00000390656,ENST00000520740,ENST00000411494,ENST00000434108	+	chr5	170152244	170152817	+	2062-2066	156,170,145,154,117	CCLE-KIRC,CCLE-OV,CCLE-SARC,CCLE-THCA
chr5:171614891:->chr5:171601575:-	chr5	171614891	171614891	ENST00000176763	-	chr5	171601575	171601830	-	2067-2067	52	CCLE-SKCM
chr5:177672943:->chr5:177672836:-	chr5	177672943	177672943	ENST00000390654	-	chr5	177672836	177672863	-	2068-2068	480	CCLE-LCLL

chr5:19721456:->chr5:19676077:-	chr5	19721456,19721456,19721456,19721456,19721456,19721456,19721456	19721456	ENST00000382275,ENST00000507958,ENST00000274170,ENST00000506372,ENST00000502796,ENST00000515257,ENST00000511273	-	chr5	19676077	19676085	-	2069-2070	214,16	CCLE-OV
chr5:31267808:+>chr5:31283197:+	chr5	31267746,31	31267808	ENST00000514738,ENST00000265071	+	chr5	31283197	31283370	+	2071-2072	76,21	CCLE-LIHC,CCLE-OV
chr5:40681962:+>chr5:40685833:+	chr5	40681096	40681962	ENST00000302472	+	chr5	40685833	40685891	+	2073-2073	289	CCLE-BLCA,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC
chr5:45645287:->chr5:45617521:-	chr5	45645287	45645287	ENST00000303230	-	chr5	45617521	45617659	-	2074-2074	283	CCLE-LUSC
chr5:45695771:->chr5:45687406:-	chr5	45695771	45695771	ENST00000303230	-	chr5	45687406	45687870	-	2075-2075	141	CCLE-LUSC
chr5:481680:->chr5:481291:-	chr5	481680,4817	481680	ENST00000264938,ENST00000514375	-	chr5	481291	481291	-	2076-2077	505,496	CCLE-COAD,CCLE-ESCA,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr5:55195960:+>chr5:55198124:+	chr5	55195744,55195744,55195744,55195744,55195744,55195744,55195744	55195960	ENST00000396836,ENST00000396834,ENST00000447346,ENST00000359040,ENST00000297015,ENST00000490985,ENST00000354961	+	chr5	55198124	55198137	+	2078-2080	356,337,214	CCLE-DLBC,CCLE-LUSC
chr5:66492380:->chr5:66488399:-	chr5	66492380	66492380	ENST00000256447	-	chr5	66488399	66488612	-	2081-2081	30	CCLE-DLBC,CCLE-LCLL
chr5:73200230:+>chr5:73201167:+	chr5	73200183,73200183,73200183,73200183,73200183,73200183,73200183	73200230	ENST00000296794,ENST00000287898,ENST00000513042,ENST00000545377,ENST00000437974,ENST00000426542,ENST00000296799,ENST00000512883	+	chr5	73201167	73201197	+	2082-2085	1074,1387,1343,307	CCLE-COAD,CCLE-LUSC
chr5:7414883:+>chr5:7482986:+	chr5	7414686	7414883	ENST00000338316	+	chr5	7482986	7483422	+	2086-2086	136	CCLE-SKCM
chr5:7521012:+>chr5:7573126:+	chr5	7520851	7521012	ENST00000338316	+	chr5	7573126	7573346	+	2087-2087	190	CCLE-BRCA,CCLE-LUSC,CCLE-SKCM
chr5:76115089:+>chr5:76124660:+	chr5	76115008	76115089	ENST00000296677	+	chr5	76124660	76124954	+	2088-2088	27	CCLE-LUSC
chr5:79410337:->chr5:79400584:-	chr5	79410337	79410337	ENST00000509193	-	chr5	79400584	79400683	-	2089-2089	456	CCLE-LCLL
chr5:79441913:->chr5:79400584:-	chr5	79441913,79441913,79441913,79441913	79441913	ENST00000507668,ENST00000509193,ENST00000512972,ENST00000512721	-	chr5	79400584	79400683	-	2090-2091	410,412	CCLE-DLBC
chr5:79441913:->chr5:79401228:-	chr5	79441913,79441913,79441913,79441913	79441913	ENST00000507668,ENST00000509193,ENST00000512972,ENST00000512721	-	chr5	79401228	79401257	-	2092-2093	410,412	CCLE-DLBC
chr5:90087163:+>chr5:90097364:+	chr5	90086690,9	90087163	ENST00000405460,ENST00000425867	+	chr5	90097364	90097412	+	2094-2095	500,4839	CCLE-LUSC
chr6:110777741:->chr6:110774810:-	chr6	110777741,110777741,110777741,110777741,110777741,110777741,110777741	110777741	ENST00000451557,ENST00000368919,ENST00000330550,ENST00000439654,ENST00000437378,ENST00000456137,ENST00000424139	-	chr6	110774810	110774932	-	2096-2099	94,177,134,143	CCLE-LCLL
chr6:110778103:->chr6:110774810:-	chr6	110777741,110778103,110777741,110778103,110777741,110777741,110777741	110778103	ENST00000368919,ENST00000330550,ENST00000439654,ENST00000434949,ENST00000437378,ENST00000456137,ENST00000424139	-	chr6	110774810	110774932	-	2100-2103	57,14,55,7	CCLE-LCLL
chr6:111498868:+>chr6:111499652:+	chr6	111498415,111498415,111498415	111498868	ENST00000368851,ENST00000439288,ENST00000419619	+	chr6	111499652	111499771	+	2104-2105	314,2	CCLE-BLCA
chr6:111527938:+>chr6:111577260:+	chr6	111527795,1	111527938	ENST00000368851,ENST00000368850	+	chr6	111577260	111577302	+	2106-2107	48,362	CCLE-CESC,CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-MM
chr6:111540245:+>chr6:111577260:+	chr6	111540017,1	111540245	ENST00000368851,ENST00000368850	+	chr6	111577260	111577302	+	2108-2109	124,438	CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-SARC
chr6:11566069:+>chr6:11574408:+	chr6	11565899,12	11566069	ENST00000543875,ENST00000379426	+	chr6	11574408	11574492	+	2110-2110	89	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr6:117638306:->chr6:117637731:-	chr6	117638306,1	117638306	ENST00000368507,ENST00000368508	-	chr6	117637731	117637746	-	2111-2112	2039,2045	CCLE-LGG
chr6:117674153:->chr6:117670415:-	chr6	117674153,1	117674153	ENST00000368507,ENST00000368508	-	chr6	117670415	117672988	-	2113-2114	1434,144	CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr6:117674153:->chr6:117672587:-	chr6	117674153,1	117674153	ENST00000368507,ENST00000368508	-	chr6	117672587	117672988	-	2115-2116	1434,144	CCLE-BRCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr6:124604288:+>chr6:124612630:+	chr6	124604151,124604151,124604151,124604151,124604151	124604288	ENST00000368416,ENST00000368417,ENST00000546092,ENST00000545433	+	chr6	124612630	124613119	+	2117-2118	64,49	CCLE-LCLL,CCLE-LUSC

chr6:124676493:+>chr6:124875588:+	chr6	124676413,124676413,124676413,124676413	124676493	ENST00000368416,ENST00000368417,ENST00000546092,ENST00000545433	+	chr6	124875588	124875696	+	2119-2120	91,76	CCLE-LUSC
chr6:128643184:->chr6:128614476:-	chr6	128643184,128643184,128643184,128643184,128643184,128643184,128643184,128642932	128643184	ENST00000368226,ENST00000368227,ENST00000532331,ENST00000368213,ENST00000368210,ENST00000368215,ENST00000368207,ENST00000490332,ENST00000525459	-	chr6	128614476	128614523	-	2121-2122	165,48	CCLE-BRCA,CCLE-COAD,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr6:128643184:->chr6:128614483:-	chr6	128643184,128643184,128643184,128643184,128643184,128643184,128643184,128642932	128643184	ENST00000368226,ENST00000368227,ENST00000532331,ENST00000368213,ENST00000368210,ENST00000368215,ENST00000368207,ENST00000490332,ENST00000525459	-	chr6	128614483	128614523	-	2123-2124	165,48	CCLE-BRCA,CCLE-CESC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr6:128643184:->chr6:128633358:-	chr6	128643184,128643184,128643184,128643184,128643184,128643184,128643184,128642932	128643184	ENST00000368226,ENST00000368227,ENST00000532331,ENST00000368213,ENST00000368210,ENST00000368215,ENST00000368207,ENST00000490332,ENST00000525459	-	chr6	128633358	128633631	-	2125-2126	165,48	CCLE-COAD
chr6:128718711:->chr6:128696545:-	chr6	128718711,128718711,128718711,128718711,128718711,128718711,128718711,128718711	128718711	ENST00000368226,ENST00000368227,ENST00000532331,ENST00000368213,ENST00000368210,ENST00000368215,ENST00000368207,ENST00000531050,ENST00000525459	-	chr6	128696545	128696719	-	2127-2128	74,17	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LUSC,CCLE-OV
chr6:134349519:->chr6:134331200:-	chr6	134349519	134349519	ENST00000275230	-	chr6	134331200	134331202	-	2129-2129	481	CCLE-LUSC
chr6:134528494:->chr6:134509600:-	chr6	134528494,1	134528494	ENST00000367858,ENST00000461976	-	chr6	134509600	134509638	-	2130-2131	120,89	CCLE-DLBC,CCLE-LCLL,CCLE-SKCM
chr6:138417491:->chr6:138345116:-	chr6	138417491	138417491	ENST00000421351	-	chr6	138345116	138345302	-	2132-2132	118	CCLE-COAD,CCLE-LIHC,CCLE-LUSC
chr6:143486320:+>chr6:143507807:+	chr6	143486219,143486219,143486219,143486219,143486219,143486219,143486219,143486219	143486320	ENST00000367601,ENST00000367598,ENST00000447498,ENST00000357847,ENST00000344492,ENST00000494282,ENST00000275235,ENST00000458219	+	chr6	143507807	143507924	+	2133-2136	81,133,45,129	CCLE-LCLL
chr6:147612308:+>chr6:147624636:+	chr6	147612230,147612230,147612230,147612230	147612308	ENST00000546097,ENST00000367481,ENST00000321680,ENST00000367480	+	chr6	147624636	147624658	+	2137-2137	305	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr6:147612308:+>chr6:147624639:+	chr6	147612230,147612230,147612230,147612230	147612308	ENST00000546097,ENST00000367481,ENST00000321680,ENST00000367480	+	chr6	147624639	147624658	+	2138-2138	305	CCLE-LCLL
chr6:147612308:+>chr6:147624674:+	chr6	147612230,147612230,147612230,147612230	147612308	ENST00000546097,ENST00000367481,ENST00000321680,ENST00000367480	+	chr6	147624674	147626061	+	2139-2139	305	CCLE-LCLL,CCLE-SKCM
chr6:147648412:+>chr6:147652592:+	chr6	147648261,147648261,147648261,147648261,147648309,147648337	147648412	ENST00000367481,ENST00000321680,ENST00000367480,ENST00000179882,ENST00000367475,ENST00000392291	+	chr6	147652592	147652692	+	2140-2143	25,364,693,35	CCLE-LCLL
chr6:154731477:->chr6:154684115:-	chr6	154731477,154731477,154731477	154731477	ENST00000607772,ENST00000433165,ENST00000479339	-	chr6	154684115	154684118	-	2144-2146	281,456,376	CCLE-LUSC
chr6:154743640:->chr6:154742278:-	chr6	154743640,154743640,154743640,154743640,154743640	154743640	ENST00000607772,ENST00000433165,ENST00000479339,ENST00000424998,ENST00000454664	-	chr6	154742278	154742447	-	2147-2150	140,315,235,77	CCLE-LUSC
chr6:15615498:->chr6:15610217:-	chr6	15615498,15615498,15615498,15615498,15615498	15615498	ENST00000344537,ENST00000355917,ENST00000515875,ENST00000338950,ENST00000511762	-	chr6	15610217	15610502	-	2151-2153	162,145,127	CCLE-LUSC

chr6:158296208:+>chr6:158297201:+	chr6	158296083	158296208	ENST00000392185	+	chr6	158297201	158297488	+	2154-2154	100	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr6:158296208:+>chr6:158297339:+	chr6	158296083	158296208	ENST00000392185	+	chr6	158297339	158297488	+	2155-2155	100	CCLE-LGG
chr6:159197440:->chr6:159196357:-	chr6	159197440,159197440,159197440	159197440	ENST00000337147,ENST00000367075,ENST00000392177	-	chr6	159196357	159196363	-	2156-2157	233,265	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr6:16145548:+>chr6:16150806:+	chr6	16145128,16	16145548	ENST00000356840,ENST00000349606	+	chr6	16150806	16150861	+	2158-2159	235,416	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr6:17543374:+>chr6:17549293:+	chr6	17543292,17543292,17543292,17543292,17543292	17543374	ENST00000229922,ENST00000489374,ENST00000378990,ENST00000493172,ENST00000465994	+	chr6	17549293	17549413	+	2160-2164	291,339,403,143,377	CCLE-BRCA
chr6:24551662:->chr6:24541573:-	chr6	24551662,24551662,24551662,24551662	24551662	ENST00000430948,ENST00000535378,ENST00000378214,ENST00000543707	-	chr6	24541573	24541734	-	2165-2167	1013,968,1004	CCLE-LUSC
chr6:24551662:->chr6:24544217:-	chr6	24551662,24551662,24551662,24551662	24551662	ENST00000430948,ENST00000535378,ENST00000378214,ENST00000543707	-	chr6	24544217	24544480	-	2168-2170	1013,968,1004	CCLE-LUSC
chr6:25500463:+>chr6:25505145:+	chr6	25500394	25500463	ENST00000329474	+	chr6	25505145	25505145	+	2171-2171	465	CCLE-LUSC
chr6:26408180:+>chr6:26408920:+	chr6	26407899,26407899,26407899,26408055	26408180	ENST00000476549,ENST00000289361,ENST00000425234,ENST00000414912	+	chr6	26408920	26409142	+	2172-2173	238,186	CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-MM
chr6:29912174:+>chr6:29915459:+	chr6	29911899,29911899,29911899,29911899	29912174	ENST00000396634,ENST00000376806,ENST00000376809,ENST00000376802	+	chr6	29915459	29916523	+	2174-2174	298	CCLE-DLBC
chr6:29912393:+>chr6:29915459:+	chr6	29912277,29912277,29912277	29912393	ENST00000396634,ENST00000376806,ENST00000376809	+	chr6	29915459	29916523	+	2175-2175	337	CCLE-LGG
chr6:29912393:+>chr6:29921085:+	chr6	29912277,29912277,29912277	29912393	ENST00000396634,ENST00000376806,ENST00000376809	+	chr6	29921085	29921207	+	2176-2176	337	CCLE-LCLL
chr6:29912868:+>chr6:29915459:+	chr6	29912836,29912836,29912836	29912868	ENST00000396634,ENST00000376806,ENST00000376809	+	chr6	29915459	29916523	+	2177-2178	348,354	CCLE-BRCA,CCLE-COAD,CCLE-LCLL,CCLE-LGG,CCLE-MM,CCLE-STAD
chr6:29912868:+>chr6:29921085:+	chr6	29912836,29912836,29912836	29912868	ENST00000396634,ENST00000376806,ENST00000376809	+	chr6	29921085	29921207	+	2179-2180	348,354	CCLE-LCLL
chr6:29913058:+>chr6:29915191:+	chr6	29913011,29913011,29913011	29913058	ENST00000396634,ENST00000376806,ENST00000376809	+	chr6	29915191	29916523	+	2181-2182	364,37	CCLE-LCLL,CCLE-LIHC
chr6:29913058:+>chr6:29921085:+	chr6	29913011,29913011,29913011	29913058	ENST00000396634,ENST00000376806,ENST00000376809	+	chr6	29921085	29921207	+	2183-2184	364,37	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr6:30459430:+>chr6:30460830:+	chr6	30459314	30459430	ENST00000376630	+	chr6	30460830	30461101	+	2185-2185	334	CCLE-LUSC
chr6:30459430:+>chr6:30461437:+	chr6	30459314	30459430	ENST00000376630	+	chr6	30461437	30461496	+	2186-2186	334	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr6:30707935:->chr6:30706031:-	chr6	30707935,30707935,30707935,30707935	30707935	ENST00000376389,ENST00000456573,ENST00000413165,ENST00000438162	-	chr6	30706031	30706063	-	2187-2189	193,241,178	CCLE-LCLL
chr6:3089891:+>chr6:3090892:+	chr6	3089815,3089815,3089815	3089891	ENST00000259808,ENST00000541791,ENST00000380409	+	chr6	3090892	3090994	+	2190-2191	259,305	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr6:31237270:->chr6:31097554:-	chr6	31237270,31	31237270	ENST00000376228,ENST00000383329	-	chr6	31097554	31097603	-	2192-2193	349,355	CCLE-PAAD
chr6:31324465:->chr6:31287800:-	chr6	31324465,31	31324465	ENST00000412585,ENST00000434333	-	chr6	31287800	31287812	-	2194-2195	125,114	CCLE-KIRC
chr6:31324719:->chr6:31280792:-	chr6	31324465,31	31324719	ENST00000412585,ENST00000434333	-	chr6	31280792	31280975	-	2196-2197	40,29	CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC
chr6:32163225:->chr6:32162260:-	chr6	32163214	32163225	ENST00000375023	-	chr6	32162260	32162401	-	2198-2198	2000	CCLE-LUSC
chr6:32497902:->chr6:32490454:-	chr6	32497902	32497902	ENST00000374975	-	chr6	32490454	32490932	-	2199-2199	33	CCLE-DLBC
chr6:32557420:->chr6:32526553:-	chr6	32557420	32557420	ENST00000360004	-	chr6	32526553	32526948	-	2200-2200	33	CCLE-DLBC,CCLE-SKCM

chr6:32729437:->chr6:32727041:-	chr6	32729437,32729437,32729437,32729437	32729437	ENST00000411527,ENST00000435145,ENST00000437316,ENST00000427449	-	chr6	32727041	32727139	-	2201-2202	121,12	CCLE-LCLL
chr6:33041248:->chr6:33038052:-	chr6	33041248,33041248,33041248	33041248	ENST00000419277,ENST00000428995,ENST00000453337	-	chr6	33038052	33038152	-	2203-2203	33	CCLE-DLBC,CCLE-LCLL
chr6:33041248:->chr6:33039528:-	chr6	33041248,33041248,33041248	33041248	ENST00000419277,ENST00000428995,ENST00000453337	-	chr6	33039528	33039547	-	2204-2204	33	CCLE-DLBC,CCLE-LCLL,CCLE-SKCM
chr6:35280549:+>chr6:35281909:+	chr6	35280403	35280549	ENST00000316637	+	chr6	35281909	35282204	+	2205-2205	269	CCLE-BRCA,CCLE-LCLL
chr6:35280549:+>chr6:35284963:+	chr6	35280403	35280549	ENST00000316637	+	chr6	35284963	35285174	+	2206-2206	269	CCLE-LCLL
chr6:37606313:->chr6:37598766:-	chr6	37606313,37606313,37606313	37606313	ENST00000297153,ENST00000434837,ENST00000505425	-	chr6	37598766	37598880	-	2207-2208	889,893	CCLE-LUSC
chr6:37611585:->chr6:37611085:-	chr6	37611585,37611585,37611585,37611585	37611585	ENST00000297153,ENST00000434837,ENST00000505425,ENST00000418178	-	chr6	37611085	37611347	-	2209-2211	845,849,155	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr6:43409698:+>chr6:43410196:+	chr6	43409600,43	43409698	ENST00000372530,ENST00000244533	+	chr6	43410196	43410317	+	2212-2213	714,742	CCLE-BLCA,CCLE-BRCA,CCLE-HNSC
chr6:44200743:+>chr6:44209921:+	chr6	44200544,44200544,44200544,44200544,44200544,44200544,44200544,44200544	44200743	ENST00000393844,ENST00000313248,ENST00000427851,ENST00000371740,ENST00000371755,ENST00000371731,ENST00000393841,ENST00000371713,ENST00000371724,ENST00000371708	+	chr6	44209921	44210213	+	2214-2215	498,419	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr6:46979743:->chr6:46979218:-	chr6	46979743,47	46979743	ENST00000371253,ENST00000283297	-	chr6	46979218	46979218	-	2216-2217	175,372	CCLE-LUSC
chr6:46988467:->chr6:46985755:-	chr6	46988467,46988467,46988467,46988467	46988467	ENST00000371253,ENST00000475745,ENST00000487323,ENST00000371243	-	chr6	46985755	46985997	-	2218-2220	157,203,127	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD,CCLE-UCEC
chr6:46989694:->chr6:46985755:-	chr6	46989694,46989694,46989694,46989694	46989694	ENST00000371253,ENST00000475745,ENST00000487323,ENST00000371243	-	chr6	46985755	46985997	-	2221-2223	138,184,108	CCLE-LUSC,CCLE-PAAD
chr6:46995440:->chr6:46995342:-	chr6	46995440,47	46995440	ENST00000371253,ENST00000371243	-	chr6	46995342	46995425	-	2224-2224	42	CCLE-LUSC
chr6:70462151:->chr6:70461513:-	chr6	70462151,70462151,70462151	70462151	ENST00000370577,ENST00000370570,ENST00000472827	-	chr6	70461513	70461519	-	2225-2226	135,62	CCLE-PAAD
chr6:71442214:+>chr6:71460666:+	chr6	71442081,71442081,71442081,71442081	71442214	ENST00000316999,ENST00000370452,ENST00000370455,ENST00000422334	+	chr6	71460666	71460966	+	2227-2227	84	CCLE-CESC,CCLE-LUSC,CCLE-SKCM
chr6:71464768:+>chr6:71466439:+	chr6	71464683,71464683,71464683,71464683	71464768	ENST00000316999,ENST00000370452,ENST00000370455,ENST00000422334	+	chr6	71466439	71468236	+	2228-2228	112	CCLE-LUSC
chr6:71483128:+>chr6:71507520:+	chr6	71483053,71483053,71483053,71483024,71483092	71483128	ENST00000316999,ENST00000370452,ENST00000370455,ENST00000445046,ENST00000439432	+	chr6	71507520	71507554	+	2229-2231	138,35,13	CCLE-LUSC
chr6:71501472:+>chr6:71507520:+	chr6	71501392,71501392,71501392	71501472	ENST00000370455,ENST00000445046,ENST00000439432	+	chr6	71507520	71507554	+	2232-2234	165,62,40	CCLE-LGG,CCLE-LUSC
chr6:72892852:+>chr6:72894791:+	chr6	72891987,72891987,72891987,72891987,72891987,72891987,72891987,72892455	72892852	ENST00000491071,ENST00000348717,ENST00000517960,ENST00000518273,ENST00000521978,ENST00000522291,ENST00000520567,ENST00000264839,ENST00000517433	+	chr6	72894791	72895923	+	2235-2237	559,133	CCLE-SKCM
chr6:73815090:+>chr6:73816526:+	chr6	73814980,73814980,73814980,73814980,73814980,73814980,73814980,73814980	73815090	ENST00000342056,ENST00000355194,ENST00000370398,ENST00000370392,ENST00000355635,ENST00000402622,ENST00000403813,ENST00000414165	+	chr6	73816526	73816627	+	2238-2239	343	CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SKCM

chr6:73879577:+>chr6:73886224:+	chr6	73879469,73879469,73879469,73879469,73879469,73879469	73879577	ENST00000342056,ENST00000355194,ENST00000370398,ENST00000355635,ENST00000402622,ENST00000403813	+	chr6	73886224	73886246	+	2240-2245	544,525,526,535,516	CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr6:73879577:+>chr6:73886227:+	chr6	73879469,73879469,73879469,73879469,73879469,73879469	73879577	ENST00000342056,ENST00000355194,ENST00000370398,ENST00000355635,ENST00000402622,ENST00000403813	+	chr6	73886227	73886246	+	2246-2251	544,525,526,535,516	CCLE-BRCA,CCLE-LUSC,CCLE-SKCM
chr6:74149932:->chr6:74143589:-	chr6	74149932,74	74149932	ENST00000370318,ENST00000370315	-	chr6	74143589	74143623	-	2252-2252	371	CCLE-BLCA,CCLE-COAD,CCLE-KIRC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr6:74227788:->chr6:74207125:-	chr6	74227753,74227753,74227753	74227788	ENST00000316292,ENST00000309268,ENST00000331523	-	chr6	74207125	74207176	-	2253-2253	409	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr6:74227873:->chr6:74188495:-	chr6	74227753,74227753,74227753	74227873	ENST00000316292,ENST00000309268,ENST00000331523	-	chr6	74188495	74188564	-	2254-2254	381	CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM
chr6:74228940:->chr6:74213929:-	chr6	74228655,74228655,74228655,74228840	74228940	ENST00000316292,ENST00000309268,ENST00000331523,ENST00000356303	-	chr6	74213929	74214155	-	2255-2255	112	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr6:74513024:+>chr6:74515720:+	chr6	74512943,74512943,74512943	74513024	ENST00000422508,ENST00000437994,ENST00000287097	+	chr6	74515720	74516247	+	2256-2257	909,986	CCLE-SKCM
chr6:74530287:+>chr6:74531296:+	chr6	74530185,74530185,74530185	74530287	ENST00000422508,ENST00000437994,ENST00000287097	+	chr6	74531296	74531600	+	2258-2260	1310,1370,1387	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr6:76527381:+>chr6:76529490:+	chr6	76527265,76527265,76527265,76527265	76527381	ENST00000369981,ENST00000369985,ENST00000369977,ENST00000369975	+	chr6	76529490	76529773	+	2261-2261	39	CCLE-BRCA,CCLE-LUSC
chr6:90009478:->chr6:90006869:-	chr6	90009478,9	90009478	ENST00000602399,ENST00000402938	-	chr6	90006869	90007054	-	2262-2263	73,98	CCLE-DLBC,CCLE-LUSC
chr6:91296483:->chr6:91288287:-	chr6	91296483,91296483,91296483,91296483	91296483	ENST00000369325,ENST00000369327,ENST00000369329,ENST00000369332	-	chr6	91288287	91288293	-	2264-2264	40	CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr7:100230624:->chr7:100230451:-	chr7	100230624,100230624,100230624,100230624,100230624	100230624	ENST00000223051,ENST00000431692,ENST00000490084,ENST00000462107	-	chr7	100230451	100230492	-	2265-2266	283,35	CCLE-LCLL
chr7:100230624:->chr7:100230459:-	chr7	100230624,100230624,100230624,100230624,100230624	100230624	ENST00000223051,ENST00000431692,ENST00000490084,ENST00000462107	-	chr7	100230459	100230492	-	2267-2268	283,35	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD
chr7:100419893:->chr7:100418333:-	chr7	100419893,1	100419893	ENST00000360620,ENST00000358173	-	chr7	100418333	100418501	-	2269-2269	269	CCLE-LUSC,CCLE-SKCM
chr7:106526737:+>chr7:106554983:+	chr7	106526580,106526580,106526580	106526737	ENST00000440650,ENST00000496166,ENST00000359195	+	chr7	106554983	106555311	+	2270-2270	1010	CCLE-LCLL
chr7:106793696:+>chr7:106796969:+	chr7	106793622	106793696	ENST00000265717	+	chr7	106796969	106797264	+	2271-2271	306	CCLE-DLBC,CCLE-LGG
chr7:117120201:+>chr7:117129284:+	chr7	117120149,117120149,117120149	117120201	ENST00000003084,ENST00000454343,ENST00000426809	+	chr7	117129284	117129510	+	2272-2272	17	CCLE-COAD
chr7:117149196:+>chr7:117157115:+	chr7	117149167,117149088,117149088,11714908	117149196	ENST00000446805,ENST00000003084,ENST00000454343,ENST00000426809	+	chr7	117157115	117157178	+	2273-2274	10,91	CCLE-COAD,CCLE-STAD
chr7:117235112:+>chr7:117237232:+	chr7	117234984,117234984,117234984	117235112	ENST00000003084,ENST00000454343,ENST00000426809	+	chr7	117237232	117237441	+	2275-2277	843,873,812	CCLE-DLBC
chr7:11871383:->chr7:11863278:-	chr7	11871383	11871383	ENST00000423059	-	chr7	11863278	11863419	-	2278-2278	63	CCLE-COAD,CCLE-LUSC,CCLE-PAAD
chr7:119915801:+>chr7:120120762:+	chr7	119914687	119915801	ENST00000331113	+	chr7	120120762	120120881	+	2279-2279	371	CCLE-LUSC
chr7:126173006:->chr7:126155822:-	chr7	126173006,126173006,126173006,126173006	126173006	ENST00000444921,ENST00000339582,ENST00000358373,ENST00000472701	-	chr7	126155822	126155995	-	2280-2280	810	CCLE-LUSC
chr7:137080344:->chr7:137053145:-	chr7	137080344,137080344,137080344,137080344	137080344	ENST00000453654,ENST00000288490,ENST00000424189,ENST00000446122	-	chr7	137053145	137053397	-	2281-2284	1040,1009,1027,696	CCLE-LUSC

chr7:137080344:->chr7:137053202:-	chr7	137080344,137080344,137080344,137080344	137080344	ENST00000453654,ENST00000288490,ENST00000424189,ENST00000446122	-	chr7	137053202	137053397	-	2285-2288	1040,1009,1027,696	CCLE-LUSC
chr7:142654914:->chr7:142654254:-	chr7	142654914	142654914	ENST00000355265	-	chr7	142654254	142654673	-	2289-2289	224	CCLE-LCLL
chr7:14880819:->chr7:14861824:-	chr7	14880819,14880819,14880819,14880819,14880819,14880819,14880819	14880819	ENST00000258767,ENST00000399322,ENST00000403951,ENST00000402815,ENST00000407950,ENST00000444700,ENST00000406247,ENST00000437998	-	chr7	14861824	14862198	-	2290-2290	23	CCLE-LUSC
chr7:154143413:+>chr7:154155530:+	chr7	154143299,154143299,154143299,154143299,154143299	154143413	ENST00000404039,ENST00000406326,ENST00000377770,ENST00000332007,ENST00000427557	+	chr7	154155530	154155572	+	2291-2293	119,55,57	CCLE-LUSC
chr7:157691365:->chr7:157654981:-	chr7	157691365,157691365,157691365,157691365,157691365	157691365	ENST00000389413,ENST00000409483,ENST00000389416,ENST00000389418,ENST00000404321	-	chr7	157654981	157655007	-	2294-2298	619,579,596,567,558	CCLE-LUSC
chr7:157873990:->chr7:157860368:-	chr7	157873990,157873990,157873990,157873990,157873990	157873990	ENST00000389413,ENST00000409483,ENST00000389416,ENST00000389418,ENST00000404321	-	chr7	157860368	157860389	-	2299-2303	597,557,574,545,536	CCLE-LUSC
chr7:157903521:->chr7:157893545:-	chr7	157903521,157903521,157903521,157903521	157903521	ENST00000409483,ENST00000389416,ENST00000389418,ENST00000404321	-	chr7	157893545	157893552	-	2304-2307	570,530,547,509	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-STAD
chr7:158282427:->chr7:158230258:-	chr7	158282427,158282427,158282427,158282427	158282427	ENST00000389413,ENST00000409483,ENST00000389418,ENST00000404321	-	chr7	158230258	158230787	-	2308-2309	77,54	CCLE-LUSC
chr7:158380250:->chr7:158229450:-	chr7	158380250,158380250,158380250,158380250	158380250	ENST00000389413,ENST00000409483,ENST00000389416,ENST00000389418	-	chr7	158229450	158230787	-	2310-2310	37	CCLE-LUSC
chr7:158586341:->chr7:158584050:-	chr7	158586341,2	158586341	ENST00000251527,ENST00000275418	-	chr7	158584050	158584934	-	2311-2312	242,212	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr7:20691246:+>chr7:20691550:+	chr7	20691043,20691046,20691046,20691046	20691246	ENST00000404938,ENST00000443026,ENST00000406935,ENST00000258738	+	chr7	20691550	20691575	+	2313-2314	512,67	CCLE-SKCM
chr7:20698299:+>chr7:20707892:+	chr7	20698129,20698129,20698129,20698129	20698299	ENST00000404938,ENST00000443026,ENST00000406935,ENST00000258738	+	chr7	20707892	20709366	+	2315-2316	569,124	CCLE-SKCM
chr7:23286546:+>chr7:23287188:+	chr7	23286477,23286477,23286477,23286477	23286546	ENST00000258733,ENST00000381990,ENST00000409458,ENST00000539136,ENST00000453162	+	chr7	23287188	23287205	+	2317-2317	23	CCLE-ESCA,CCLE-SARC,CCLE-SKCM
chr7:23300392:+>chr7:23301101:+	chr7	23300075,23300075,23300075,23300075	23300392	ENST00000258733,ENST00000381990,ENST00000539136,ENST00000453162	+	chr7	23301101	23301414	+	2318-2320	240,339,281	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr7:23458395:->chr7:23456034:-	chr7	23458395	23458395	ENST00000258729	-	chr7	23456034	23456141	-	2321-2321	95	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr7:2671912:+>chr7:2681888:+	chr7	2671790,267	2671912	ENST00000258796,ENST00000407643	+	chr7	2681888	2681893	+	2322-2322	41	CCLE-SKCM
chr7:2689622:+>chr7:2690099:+	chr7	2689547,2689547,2689547	2689622	ENST00000258796,ENST00000407643,ENST00000403167	+	chr7	2690099	2690223	+	2323-2325	258,290,119	CCLE-LUSC,CCLE-SKCM
chr7:2689622:+>chr7:2690139:+	chr7	2689547,2689547,2689547	2689622	ENST00000258796,ENST00000407643,ENST00000403167	+	chr7	2690139	2690223	+	2326-2328	258,290,119	CCLE-SKCM
chr7:2834562:->chr7:2819903:-	chr7	2834562,2834562,2834562	2834562	ENST00000275364,ENST00000407904,ENST00000544127	-	chr7	2819903	2819986	-	2329-2331	116,99,175	CCLE-BLCA,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr7:30363353:+>chr7:30451514:+	chr7	30363258	30363353	ENST00000323037	+	chr7	30451514	30451528	+	2332-2332	188	CCLE-LCLL

chr7:37250991:->chr7:37244092:-	chr7	37250991,37250991,37250991,37250991,37250991,37250925	37250991	ENST00000310758,ENST00000442504,ENST00000448602,ENST00000420636,ENST00000433246,ENST00000424212	-	chr7	37244092	37244705	-	2333-2336	100,362,103,142	CCLE-LCLL
chr7:38309092:->chr7:38308516:-	chr7	38309092	38309092	ENST00000390337	-	chr7	38308516	38308717	-	2337-2337	17	CCLE-LCLL
chr7:51203855:->chr7:51202958:-	chr7	51203855,51203855,51203855,51203855,51203855,51203855,51203855	51203855	ENST00000431948,ENST00000445054,ENST00000265136,ENST00000395542,ENST00000452534,ENST00000395540,ENST00000441453	-	chr7	51202958	51202959	-	2338-2342	147,344,319,211,238	CCLE-COAD,CCLE-LUSC,CCLE-OV,CCLE-SKCM,CCLE-STAD
chr7:5340293:+>chr7:5342024:+	chr7	5340053,5340053,5340053	5340293	ENST00000396872,ENST00000297195,ENST00000406453	+	chr7	5342024	5342186	+	2343-2344	469,483	CCLE-LIHC,CCLE-LUSC
chr7:6217454:->chr7:6214043:-	chr7	6217454	6217454	ENST00000350796	-	chr7	6214043	6214170	-	2345-2345	122	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr7:6470111:->chr7:6468287:-	chr7	6470111,6470111,6470111	6470111	ENST00000297056,ENST00000436575,ENST00000428902	-	chr7	6468287	6468415	-	2346-2348	268,309,182	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr7:6470111:->chr7:6468411:-	chr7	6470111,6470111,6470111	6470111	ENST00000297056,ENST00000436575,ENST00000428902	-	chr7	6468411	6468415	-	2349-2351	268,309,182	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr7:6472468:->chr7:6468411:-	chr7	6472468,6472468,6472468,6472468,6472468,6472468	6472468	ENST00000297056,ENST00000425398,ENST00000436575,ENST00000428902,ENST00000421761,ENST00000454738	-	chr7	6468411	6468415	-	2352-2357	226,123,180,267,53,140	CCLE-LCLL,CCLE-LUSC
chr7:6537695:->chr7:6527779:-	chr7	6537695,6537695,6537695	6537695	ENST00000452113,ENST00000435185,ENST00000457091	-	chr7	6527779	6528026	-	2358-2360	1188,1004,997	CCLE-LCLL
chr7:6620309:+>chr7:6620443:+	chr7	6620193,6620193,6620193,6620193,6620193,6620193	6620309	ENST00000405731,ENST00000396707,ENST00000396713,ENST00000335965,ENST00000396709,ENST00000483589,ENST00000396706	+	chr7	6620443	6620563	+	2361-2361	39	CCLE-LUSC
chr7:716866:->chr7:713647:-	chr7	716866,716866,716866,716866,716866,716866	716866	ENST00000544935,ENST00000537384,ENST00000406797,ENST00000403562,ENST00000360274,ENST00000430040,ENST00000414568,ENST00000417852	-	chr7	713647	713806	-	2362-2363	146,91	CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD
chr7:73133932:->chr7:73130615:-	chr7	73133932,73133932,73133932,73133932	73133932	ENST00000222812,ENST00000395156,ENST00000395154,ENST00000395155	-	chr7	73130615	73130662	-	2364-2364	10	CCLE-BLCA,CCLE-COAD,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr7:75616678:->chr7:75603302:-	chr7	75616678	75616678	ENST00000493111	-	chr7	75603302	75603832	-	2365-2365	306	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr7:79828698:+>chr7:79830387:+	chr7	79828541,79828541,79828541	79828698	ENST00000351004,ENST00000418742,ENST00000457358	+	chr7	79830387	79830430	+	2366-2367	153,101	CCLE-CESC,CCLE-LUSC
chr7:86521040:->chr7:86458061:-	chr7	86521040,86521040,86521040,86521040,86521040	86521040	ENST00000450689,ENST00000297222,ENST00000444627,ENST00000416314,ENST00000423294	-	chr7	86458061	86458483	-	2368-2372	843,770,939,1010,971	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LUSC,CCLE-PAAD
chr7:86521040:->chr7:86519013:-	chr7	86521040,86521040,86521040,86521040,86521040	86521040	ENST00000450689,ENST00000297222,ENST00000444627,ENST00000416314,ENST00000423294	-	chr7	86519013	86519072	-	2373-2377	843,770,939,1010,971	CCLE-COAD,CCLE-LUSC
chr7:87214828:->chr7:87210349:-	chr7	87214828,87	87214828	ENST00000265724,ENST00000543898	-	chr7	87210349	87210419	-	2378-2378	95	CCLE-LIHC

chr7:87607727:+>chr7:87635516:+	chr7	87607651,87607651,87607651,87607651,87607651,87607651,87607651,87607651	87607727	ENST00000398204,ENST00000439864,ENST00000412441,ENST00000398201,ENST00000265727,ENST00000315984,ENST00000398209,ENST00000398203	+	chr7	87635516	87638206	+	2379-2381	74,124,107	CCLE-BLCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SKCM,CCLE-STAD
chr7:87607727:+>chr7:87688542:+	chr7	87607651,87607651,87607651,87607651,87607651,87607651,87607651,87607651	87607727	ENST00000398204,ENST00000439864,ENST00000412441,ENST00000398201,ENST00000265727,ENST00000315984,ENST00000398209,ENST00000398203	+	chr7	87688542	87688727	+	2382-2384	74,124,107	CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr7:87607727:+>chr7:87710113:+	chr7	87607651,87607651,87607651,87607651,87607651,87607651,87607651,87607651	87607727	ENST00000398204,ENST00000439864,ENST00000412441,ENST00000398201,ENST00000265727,ENST00000315984,ENST00000398209,ENST00000398203	+	chr7	87710113	87712810	+	2385-2387	74,124,107	CCLE-MM
chr7:87765346:+>chr7:87767189:+	chr7	87765295,87765295,87765295,87765295,87765295,87765295	87765346	ENST00000398204,ENST00000398201,ENST00000265727,ENST00000315984,ENST00000398209,ENST00000398203	+	chr7	87767189	87767472	+	2388-2389	373,406	CCLE-OV
chr7:91863763:->chr7:91858213:-	chr7	91863763,91863763,91863763,91863763,91863763,91863763	91863763	ENST00000394507,ENST00000340022,ENST00000412043,ENST00000394505,ENST00000445516	-	chr7	91858213	91858616	-	2390-2391	329,91	CCLE-COAD,CCLE-LGG,CCLE-LUSC
chr7:94257514:->chr7:94256035:-	chr7	94257514,94257514,94257514,94257514,94257514,94257514	94257514	ENST00000265735,ENST00000445866,ENST00000437425,ENST00000447873,ENST00000428696,ENST00000415788	-	chr7	94256035	94256316	-	2392-2394	166,89,130	CCLE-LGG
chr7:98652413:->chr7:98651319:-	chr7	98652413,99	98652413	ENST00000361368,ENST00000361125	-	chr7	98651319	98651329	-	2395-2395	159	CCLE-COAD,CCLE-ESCA,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr7:99972056:+>chr7:99975210:+	chr7	99971667,99971667,99971667,99971667,99971667,99971667	99972056	ENST00000432297,ENST00000198536,ENST00000453419,ENST00000394000,ENST00000350573	+	chr7	99975210	99975379	+	2396-2396	151	CCLE-LCLL,CCLE-SKCM
chr8:104709524:+>chr8:104821508:+	chr8	104709314,1	104709524	ENST00000504942,ENST00000406091	+	chr8	104821508	104821527	+	2397-2397	129	CCLE-LUSC
chr8:104778647:+>chr8:104821508:+	chr8	104778455,1	104778647	ENST00000504942,ENST00000406091	+	chr8	104821508	104821527	+	2398-2398	193	CCLE-BRCA,CCLE-DLBC,CCLE-LUSC,CCLE-THCA
chr8:104778765:+>chr8:104786850:+	chr8	104778455,1	104778765	ENST00000504942,ENST00000406091	+	chr8	104786850	104787138	+	2399-2399	232	CCLE-LUSC
chr8:104930715:+>chr8:104932928:+	chr8	104930669,104930669,104930669,104930669,104930669,104930669	104930715	ENST00000504942,ENST00000406091,ENST00000515551,ENST00000262231,ENST00000507740,ENST00000408894,ENST00000436393	+	chr8	104932928	104932935	+	2400-2403	472,502,549,694	CCLE-DLBC,CCLE-LUSC
chr8:104955154:+>chr8:104963429:+	chr8	104955001,104955001,104955001,104955001,104955001,104955001	104955154	ENST00000504942,ENST00000406091,ENST00000262231,ENST00000507740,ENST00000408894,ENST00000436393	+	chr8	104963429	104963539	+	2404-2407	678,692,739,900	CCLE-LUSC
chr8:114110985:->chr8:114084069:-	chr8	114110985,114110985,114110985,114110985,114110985,114110985	114110985	ENST00000343508,ENST00000297405,ENST00000455883,ENST00000352409	-	chr8	114084069	114084744	-	2408-2409	305,265	CCLE-LCLL,CCLE-LUSC
chr8:11706555:->chr8:11706016:-	chr8	11706555,11706555,11706555,11706555,11706555,11706555,11706555,11706555,11706555,11706555,11706555,11706555,11706555	11706555	ENST00000434271,ENST00000353047,ENST00000530640,ENST00000531089,ENST00000453527,ENST00000345125,ENST00000533455,ENST00000534510,ENST00000534636,ENST00000533572,ENST00000530296,ENST00000526195	-	chr8	11706016	11706125	-	2410-2410	148	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr8:121587326:->chr8:121565279:-	chr8	121587326,1	121587326	ENST00000395601,ENST00000517992	-	chr8	121565279	121565393	-	2411-2411	378	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD

chr8:121823513:->chr8:121777809:-	chr8	121823513,1	121823513	ENST00000395601, ENST00000517992	-	chr8	121777809	121778038	-	2412-2412	190	CCLE-CESC,CCLE-LCLL,CCLE-SKCM
chr8:121823513:->chr8:121815085:-	chr8	121823513,1	121823513	ENST00000395601, ENST00000517992	-	chr8	121815085	121815232	-	2413-2413	190	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr8:133192404:->chr8:133192073:-	chr8	133192404,133192404,133192404	133192404	ENST00000388996, ENST00000521134, ENST00000519445	-	chr8	133192073	133192227	-	2414-2415	259,139	CCLE-LUSC
chr8:134274290:->chr8:134272167:-	chr8	134274290,134274290,134274290,13427429 0,134274290,134274290,13427429 0,134274290,134274290,13427429 0,134274290,134274290,13427429 0,134274290,134274290,13427429 0,134274290,134274290,134274290	134274290	ENST00000323851, ENST00000517599, ENST00000537882, ENST00000414097, ENST00000522476, ENST00000522377, ENST00000520230, ENST00000518480, ENST00000519228, ENST00000519580, ENST00000522890, ENST00000520943, ENST00000521544, ENST00000522738, ENST00000523892	-	chr8	134272167	134272238	-	2416-2422	125,42,27,162,108,73,119	CCLE-KIRC,CCLE-LGG
chr8:141675016:->chr8:141674529:-	chr8	141675016,141675016,141675016,14167501 6,141675016,141675016,14167501 6,141675016,141675016,14167501 6,141675016,141675016,14167501 6,141675016,141675016,141675016	141675016	ENST00000522684, ENST00000519654, ENST00000535192, ENST00000519465, ENST00000517887, ENST00000521059, ENST00000395218, ENST00000517712, ENST00000523539, ENST00000538769, ENST00000340930, ENST00000519419, ENST00000430260, ENST00000521986	-	chr8	141674529	141674530	-	2423-2434	683,654,936,982,995,650,610,1026,292,45,947	CCLE-ESCA
chr8:141727697:->chr8:141723228:-	chr8	141727697,141727697,141727697,14172769 7,141727697,141727697,14172769 7,141727697,141727697,14172769 7,141727697,141727697,14172769 7,141727697,141727697,141727697	141727697	ENST00000522684, ENST00000519654, ENST00000535192, ENST00000519465, ENST00000517887, ENST00000521059, ENST00000395218, ENST00000523539, ENST00000538769, ENST00000340930, ENST00000519419, ENST00000430260, ENST00000521986, ENST00000522424, ENST00000521562, ENST00000523388	-	chr8	141723228	141723366	-	2435-2442	412,386,714,382,342,758,24,725	CCLE-BLCA,CCLE-COAD,CCLE-LUSC
chr8:141762331:->chr8:141760508:-	chr8	141762331,141762331,141762331,14176233 1,141762331,141762331,14176233 1,141762331,141762331,14176233 1,141762331,141762331,14176233 1,141762331,141762331,141762331	141762331	ENST00000522684, ENST00000519654, ENST00000535192, ENST00000519465, ENST00000517887, ENST00000521059, ENST00000395218, ENST00000523539, ENST00000538769, ENST00000340930, ENST00000519419, ENST00000524202, ENST00000521986, ENST00000520151, ENST00000519024	-	chr8	141760508	141760780	-	2443-2451	170,144,472,140,107,100,516,285,483	CCLE-ESCA
chr8:141828376:->chr8:141819125:-	chr8	141828376,141828376,141828376,14182837 6,141828376,141828376,14182837 6,141828376,141828376,14182837 6,141828376,141828376,141828376	141828376	ENST00000522684, ENST00000519654, ENST00000535192, ENST00000517887, ENST00000521059, ENST00000395218, ENST00000340930, ENST00000519419, ENST00000524202	-	chr8	141819125	141819131	-	2452-2455	289,333,102,300	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr8:141840571:->chr8:141831770:-	chr8	141840571,141840571,141840571,14184057 1,141840571,141840571,14184057 1,141840571,141840571,14184057 1,141840571,141840571,14184057 1,141840571,141840571,141840571	141840571	ENST00000522684, ENST00000519654, ENST00000535192, ENST00000517887, ENST00000521059, ENST00000395218, ENST00000340930, ENST00000519419, ENST00000524202, ENST00000524357	-	chr8	141831770	141831811	-	2456-2460	216,110,260,29,227	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-LUSC,CCLE-OV

chr8:141856359:->chr8:141854119:-	chr8	141856359,141856359,141856359,141856359,141856359,141856359,141856359,141856359	141856359	ENST00000522684,ENST00000519654,ENST00000535192,ENST00000517887,ENST00000521059,ENST00000395218,ENST00000340930,ENST00000519419,ENST00000524202	-	chr8	141854119	141854856	-	2461-2464	197,241,10,208	CCLE-LUSC,CCLE-SARC
chr8:144102850:+>chr8:144113418:+	chr8	144102731,144102731,144102731,144102731,144102731,144102731,144102731,144102731,144102731	144102850	ENST00000292494,ENST00000429120,ENST00000521699,ENST00000520531,ENST00000520466,ENST00000521003,ENST00000522971,ENST00000519611,ENST00000519546,ENST00000523847,ENST00000522024	+	chr8	144113418	144113885	+	2465-2465	57	CCLE-LUSC
chr8:18871073:->chr8:18797800:-	chr8	18871073,19	18871073	ENST00000327040,ENST00000440756	-	chr8	18797800	18797904	-	2466-2466	7	CCLE-LUSC
chr8:18871073:->chr8:18797803:-	chr8	18871073,19	18871073	ENST00000327040,ENST00000440756	-	chr8	18797803	18797904	-	2467-2467	7	CCLE-CESC,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD,CCLE-UCEC
chr8:21608100:->chr8:21569989:-	chr8	21608100,21608100,21608100,21608100,21608100,21608100	21608100	ENST00000524240,ENST00000400782,ENST00000517328,ENST00000518077,ENST00000517892,ENST00000522071	-	chr8	21569989	21570568	-	2468-2470	264,159,131	CCLE-LGG
chr8:21608100:->chr8:21570169:-	chr8	21608100,21608100,21608100,21608100,21608100,21608100	21608100	ENST00000524240,ENST00000400782,ENST00000517328,ENST00000518077,ENST00000517892,ENST00000522071	-	chr8	21570169	21570568	-	2471-2473	264,159,131	CCLE-LGG
chr8:23054645:->chr8:23042040:-	chr8	23054645	23054645	ENST00000221132	-	chr8	23042040	23042623	-	2474-2474	362	CCLE-MM,CCLE-PAAD
chr8:25161843:+>chr8:25164075:+	chr8	25161771,25161771,25161771	25161843	ENST00000481100,ENST00000276440,ENST00000444569	+	chr8	25164075	25164208	+	2475-2476	349,121	CCLE-BRCA,CCLE-LIHC,CCLE-LUSC,CCLE-OV
chr8:25203127:+>chr8:25207139:+	chr8	25202991,25	25203127	ENST00000276440,ENST00000444569	+	chr8	25207139	25207438	+	2477-2478	918,69	CCLE-HNSC,CCLE-LUSC
chr8:31498245:+>chr8:31565788:+	chr8	31497501,31	31498245	ENST00000520407,ENST00000523534	+	chr8	31565788	31565962	+	2479-2480	248,101	CCLE-LGG,CCLE-LUSC,CCLE-SARC
chr8:31498245:+>chr8:31715264:+	chr8	31497501,31	31498245	ENST00000520407,ENST00000523534	+	chr8	31715264	31715533	+	2481-2482	248,101	CCLE-LUSC
chr8:38854679:+>chr8:38855393:+	chr8	38854583,38854583,38854583,38854583,38854583,38854583	38854679	ENST00000466936,ENST00000481513,ENST00000487273,ENST00000481873,ENST00000379917,ENST00000468065	+	chr8	38855393	38855448	+	2483-2483	32	CCLE-LUSC
chr8:38913291:+>chr8:38933666:+	chr8	38913096,38913096,38913096,38913096	38913291	ENST00000487273,ENST00000481873,ENST00000379917,ENST00000468065	+	chr8	38933666	38934081	+	2484-2484	530	CCLE-BRCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-PAAD
chr8:38928922:+>chr8:38933666:+	chr8	38928817,38928817,38928817,38928817	38928922	ENST00000487273,ENST00000481873,ENST00000379917,ENST00000468065	+	chr8	38933666	38934081	+	2485-2485	565	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr8:41542062:->chr8:41536250:-	chr8	41542062,41542062,41542062,41542062,41542062,41542062,41542062,41542062	41542062	ENST00000289734,ENST00000347528,ENST00000352337,ENST00000379758,ENST00000396942,ENST00000396945,ENST00000520299,ENST00000265709,ENST00000518061	-	chr8	41536250	41536291	-	2486-2489	1553,1512,164,834	CCLE-LCLL
chr8:41753873:->chr8:41676267:-	chr8	41753873	41753873	ENST00000265709	-	chr8	41676267	41676271	-	2490-2490	42	CCLE-LUSC
chr8:42302164:->chr8:42301587:-	chr8	42302164,42302164,42302164	42302164	ENST00000342228,ENST00000520262,ENST00000520179	-	chr8	42301587	42301896	-	2491-2491	243	CCLE-COAD,CCLE-LIHC,CCLE-LUSC
chr8:54793644:+>chr8:54841107:+	chr8	54793576	54793644	ENST00000276500	+	chr8	54841107	54841396	+	2492-2492	23	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr8:54963572:->chr8:54955778:-	chr8	54963572,54963572,54963571	54963572	ENST00000316963,ENST00000343231,ENST00000518546	-	chr8	54955778	54955779	-	2493-2494	197,213	CCLE-LUSC,CCLE-SKCM

chr8:63659688:+>chr8:63662899:+	chr8	63659491,64	63659688	ENST00000523211, ENST00000328472	+	chr8	63662899	63662903	+	2495-2495	157	CCLE-LCLL,CCLE-LGG,CCLE-LUSC
chr8:70673978:->chr8:70673727:-	chr8	70673978,70673978,70673978	70673978	ENST00000260126, ENST00000524945, ENST00000530307	-	chr8	70673727	70673852	-	2496-2496	346	CCLE-LUSC
chr8:71619388:+>chr8:71977592:+	chr8	71619168,72	71619388	ENST00000408926, ENST00000520030	+	chr8	71977592	71977785	+	2497-2497	164	CCLE-LUSC
chr8:81903714:->chr8:81901501:-	chr8	81903714	81903714	ENST00000220597	-	chr8	81901501	81901651	-	2498-2498	59	CCLE-LCLL,CCLE-SKCM
chr8:89058897:->chr8:89039641:-	chr8	89058897	89058897	ENST00000286614	-	chr8	89039641	89039741	-	2499-2499	496	CCLE-MM,CCLE-SKCM
chr8:89058897:->chr8:89058476:-	chr8	89058897	89058897	ENST00000286614	-	chr8	89058476	89058524	-	2500-2500	496	CCLE-BRCA,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr8:89068356:->chr8:89036941:-	chr8	89068356	89068356	ENST00000286614	-	chr8	89036941	89037128	-	2501-2501	457	CCLE-LUSC,CCLE-MM
chr8:89068356:->chr8:89039641:-	chr8	89068356	89068356	ENST00000286614	-	chr8	89039641	89039741	-	2502-2502	457	CCLE-LUSC
chr8:89339304:->chr8:89242379:-	chr8	89339304,89	89339304	ENST00000286614, ENST00000522726	-	chr8	89242379	89242502	-	2503-2504	44,61	CCLE-MM,CCLE-SKCM
chr8:94770804:+>chr8:94773236:+	chr8	94770711,94770711,94770776,94770711,94770711,94770711,94770711	94770804	ENST00000452276, ENST00000453321, ENST00000409623, ENST00000453906, ENST00000455946, ENST00000521517, ENST00000323130	+	chr8	94773236	94773256	+	2505-2509	135,125,32,9,133	CCLE-LUSC
chr8:95142854:->chr8:95116660:-	chr8	95142854,95	95142854	ENST00000027335, ENST00000450165	-	chr8	95116660	95116907	-	2510-2510	799	CCLE-COAD,CCLE-STAD
chr8:95158156:->chr8:95154720:-	chr8	95158156,95158156,95158156	95158156	ENST00000027335, ENST00000441892, ENST00000450165	-	chr8	95154720	95156745	-	2511-2512	722,508	CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr8:98817692:+>chr8:98819216:+	chr8	98817581,98817581,98817581	98817692	ENST00000445593, ENST00000521545, ENST00000517924	+	chr8	98819216	98819345	+	2513-2515	70,161,124	CCLE-BLCA,CCLE-BRCA,CCLE-HNSC,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr9:101907170:+>chr9:101907779:+	chr9	101907014,101907014,101907014,101907014,101907014	101907170	ENST00000374994, ENST00000374990, ENST00000549766, ENST00000552516, ENST00000550253	+	chr9	101907779	101907874	+	2516-2519	307,299,380,376	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr9:104448878:->chr9:104437867:-	chr9	104448878	104448878	ENST00000361820	-	chr9	104437867	104437922	-	2520-2520	434	CCLE-LUSC
chr9:108110732:+>chr9:108112859:+	chr9	108110639,108110639,108110639,108110639	108110732	ENST00000374720, ENST00000374723, ENST00000470972, ENST00000374724	+	chr9	108112859	108113070	+	2521-2521	166	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr9:114394023:+>chr9:114402573:+	chr9	114393688,114393688,114393688,114393688	114394023	ENST00000313525, ENST00000463589, ENST00000447096, ENST00000556107, ENST00000374294	+	chr9	114402573	114403331	+	2522-2522	112	CCLE-LUSC
chr9:117185594:->chr9:117183170:-	chr9	117185594,117185594,117185594	117185594	ENST00000265134, ENST00000374059, ENST00000362057	-	chr9	117183170	117183207	-	2523-2525	159,191,542	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr9:117228547:->chr9:117217653:-	chr9	117228547	117228547	ENST00000362057	-	chr9	117217653	117217656	-	2526-2526	321	CCLE-LUSC
chr9:117228547:->chr9:117227171:-	chr9	117228547	117228547	ENST00000362057	-	chr9	117227171	117227320	-	2527-2527	321	CCLE-SKCM
chr9:120053605:->chr9:120035333:-	chr9	120053605,120053605,120053605	120053605	ENST00000373996, ENST00000313400, ENST00000361209	-	chr9	120035333	120035641	-	2528-2528	210	CCLE-LGG
chr9:126125467:+>chr9:126127841:+	chr9	126125144,1	126125467	ENST00000359999, ENST00000373631	+	chr9	126127841	126128024	+	2529-2529	139	CCLE-LGG
chr9:126641230:->chr9:126637593:-	chr9	126641230,126641230,126641230,126641230	126641230	ENST00000373624, ENST00000373620, ENST00000394215, ENST00000373618	-	chr9	126637593	126638198	-	2530-2531	29,14	CCLE-LUSC,CCLE-SKCM
chr9:128094908:+>chr9:128096873:+	chr9	128094789,128094789,128094789,128094789,128094789,128094789,128094789,128094789	128094908	ENST00000394105, ENST00000265956, ENST00000394104, ENST00000470056, ENST00000394083, ENST00000495955, ENST00000467750, ENST00000297933, ENST00000312123, ENST00000431329, ENST00000436712	+	chr9	128096873	128097674	+	2532-2535	809,788,646,672	CCLE-ESCA,CCLE-LUSC

chr9:128230251:->chr9:128221992:-	chr9	128230251,128230251,128230251,128230251,128230251,128230251,128230251,128230251	128230251	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000373503,ENST00000265960,ENST00000394063,ENST00000373497,ENST00000497932,ENST00000420643	-	chr9	128221992	128222152	-	2536-2541	401,448,412,161,256,220	CCLE-LUSC
chr9:128305338:->chr9:128287571:-	chr9	128305338,128305338,128305338,128305338,128305338,128305338,128305338,128305338,128305338	128305338	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000373503,ENST00000265960,ENST00000394063,ENST00000373497,ENST00000497932,ENST00000420643,ENST00000394060,ENST00000427078	-	chr9	128287571	128287668	-	2542-2544	319,68,127	CCLE-BLCA,CCLE-BRCA,CCLE-KIRC,CCLE-LCLL,CCLE-PAAD
chr9:128321912:->chr9:128320445:-	chr9	128321912,128321912,128321912,128321912,128321912,128321912,128321912,128321912,128321912	128321912	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000373503,ENST00000265960,ENST00000394063,ENST00000497932,ENST00000420643,ENST00000394060,ENST00000427078	-	chr9	128320445	128320446	-	2545-2546	282,9	CCLE-LUSC,CCLE-OV
chr9:128419930:->chr9:128362206:-	chr9	128419930,128419930,128419930,128419930,128419930,128419930	128419930	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000265960,ENST00000394060,ENST00000468896	-	chr9	128362206	128362212	-	2547-2548	20,166	CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM
chr9:129740024:+>chr9:129768094:+	chr9	129739974,129739974,129739974,129739974,129739974,129739974	129740024	ENST00000424082,ENST00000259351,ENST00000394022,ENST00000394011,ENST00000319107,ENST00000373436,ENST00000373434	+	chr9	129768094	129768252	+	2549-2549	72	CCLE-LUSC
chr9:129831635:+>chr9:129841880:+	chr9	129831509,129831509,129831509,129831509,129831509	129831635	ENST00000424082,ENST00000259351,ENST00000394022,ENST00000373436,ENST00000373434	+	chr9	129841880	129842180	+	2550-2550	203	CCLE-LUSC
chr9:130271255:->chr9:130271068:-	chr9	130271255,1	130271255	ENST00000373314,ENST00000373312	-	chr9	130271068	130271144	-	2551-2552	439,426	CCLE-PAAD
chr9:130331099:->chr9:130298967:-	chr9	130331099	130331099	ENST00000373312	-	chr9	130298967	130299106	-	2553-2553	18	CCLE-ESCA,CCLE-LUSC,CCLE-OV
chr9:130341201:->chr9:130332655:-	chr9	130341201	130341201	ENST00000373314	-	chr9	130332655	130332697	-	2554-2554	5	CCLE-LIHC,CCLE-OV,CCLE-SKCM
chr9:130341201:->chr9:130334705:-	chr9	130341201	130341201	ENST00000373314	-	chr9	130334705	130334892	-	2555-2555	5	CCLE-STAD
chr9:130341201:->chr9:130334967:-	chr9	130341201	130341201	ENST00000373314	-	chr9	130334967	130335011	-	2556-2556	5	CCLE-LUSC
chr9:130341201:->chr9:130338877:-	chr9	130341201	130341201	ENST00000373314	-	chr9	130338877	130338896	-	2557-2557	5	CCLE-HNSC
chr9:130540875:->chr9:130540563:-	chr9	130540870	130540875	ENST00000314830	-	chr9	130540563	130540569	-	2558-2558	10	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr9:132872705:+>chr9:132884904:+	chr9	132872649,1	132872705	ENST00000372406,ENST00000372410	+	chr9	132884904	132885009	+	2559-2559	454	CCLE-ESCA
chr9:132963261:+>chr9:132963713:+	chr9	132963237,1	132963261	ENST00000372398,ENST00000458469	+	chr9	132963713	132963803	+	2560-2561	11,29	CCLE-COAD,CCLE-LUSC
chr9:135073996:+>chr9:135081127:+	chr9	135073353,135073353,135073353,135073353,135073353	135073996	ENST00000372179,ENST00000360670,ENST00000393228,ENST00000393229	+	chr9	135081127	135081279	+	2562-2562	285	CCLE-LCLL,CCLE-LUSC
chr9:14619637:->chr9:14546277:-	chr9	14619637	14619637	ENST00000380916	-	chr9	14546277	14546486	-	2563-2563	221	CCLE-LUSC
chr9:14639894:->chr9:14555734:-	chr9	14639894	14639894	ENST00000380916	-	chr9	14555734	14555841	-	2564-2564	207	CCLE-BLCA,CCLE-COAD,CCLE-SARC
chr9:14639894:->chr9:14629750:-	chr9	14639894	14639894	ENST00000380916	-	chr9	14629750	14629773	-	2565-2565	207	CCLE-LUSC
chr9:19305525:+>chr9:19309140:+	chr9	19305350,19305350,19305350,19305350	19305525	ENST00000434457,ENST00000602925,ENST00000380432,ENST00000494124	+	chr9	19309140	19309436	+	2566-2568	259,495,268	CCLE-COAD
chr9:215029:+>chr9:260162:+	chr9	214977,214977,214977	215029	ENST00000469197,ENST00000524396,ENST00000453981	+	chr9	260162	260252	+	2569-2569	17	CCLE-DLBC,CCLE-LCLL
chr9:304704:+>chr9:307780:+	chr9	304581,304581,304581,304581	304704	ENST00000453981,ENST00000432829,ENST00000483757,ENST00000469391	+	chr9	307780	308347	+	2570-2571	176,108	CCLE-DLBC,CCLE-LCLL
chr9:304704:+>chr9:308190:+	chr9	304581,304581,304581,304581	304704	ENST00000453981,ENST00000432829,ENST00000483757,ENST00000469391	+	chr9	308190	308347	+	2572-2573	176,108	CCLE-DLBC,CCLE-LCLL

chr9:33120417:->chr9:33104779:-	chr9	33120417,33	33120417	ENST00000379731, ENST00000541851	-	chr9	33104779	33104818	-	2574-2575	25,278	CCLE-LUSC
chr9:36052320:+>chr9:36056977:+	chr9	36052262	36052320	ENST00000377966	+	chr9	36056977	36057125	+	2576-2576	53	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr9:36112473:+>chr9:36113541:+	chr9	36112302	36112473	ENST00000377966	+	chr9	36113541	36113585	+	2577-2577	686	CCLE-BRCA,CCLE-SKCM
chr9:36112473:+>chr9:36113676:+	chr9	36112302	36112473	ENST00000377966	+	chr9	36113676	36113873	+	2578-2578	686	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr9:37948632:->chr9:37899947:-	chr9	37948632	37948632	ENST00000377707	-	chr9	37899947	37899955	-	2579-2579	448	CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-OV
chr9:379935:+>chr9:380035:+	chr9	379771,379771,379771,379771,379771	379935	ENST00000453981, ENST00000432829, ENST00000469391, ENST00000382331, ENST00000382329	+	chr9	380035	380206	+	2580-2583	868,335,170,800	CCLE-DLBC
chr9:379935:+>chr9:380279:+	chr9	379771,379771,379771,379771,379771	379935	ENST00000453981, ENST00000432829, ENST00000469391, ENST00000382331, ENST00000382329	+	chr9	380279	380820	+	2584-2587	868,335,170,800	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr9:38016008:->chr9:37977384:-	chr9	38016008,38016008,38016008	38016008	ENST00000540557, ENST00000377707, ENST00000377700	-	chr9	37977384	37977487	-	2588-2588	279	CCLE-BLCA
chr9:77376612:->chr9:77370714:-	chr9	77376612,77376612,77376612,77376612,77376612	77376612	ENST00000361255, ENST00000449912, ENST00000360774, ENST00000451710, ENST00000376864	-	chr9	77370714	77370794	-	2589-2591	1590,1595	CCLE-LIHC
chr9:93641235:+>chr9:93648125:+	chr9	93641046,93641046,93641046,93641046	93641235	ENST00000375751, ENST00000375754, ENST00000375747, ENST00000375746	+	chr9	93648125	93648408	+	2592-2593	504,527	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-OV
chr9:93641235:+>chr9:93648128:+	chr9	93641046,93641046,93641046,93641046	93641235	ENST00000375751, ENST00000375754, ENST00000375747, ENST00000375746	+	chr9	93648128	93648408	+	2594-2595	504,527	CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC
chr9:96031028:+>chr9:96041646:+	chr9	96030909,96030909,96030909,96030909,96030909,96030909,96030909	96031028	ENST00000427277, ENST00000297954, ENST00000349097, ENST00000395477, ENST00000432730, ENST00000411624, ENST00000448251	+	chr9	96041646	96042892	+	2596-2600	956,1344,948,1340,141	CCLE-DLBC,CCLE-MM
chrX:100608182:->chrX:100606114:-	chrX	100608182,1	100608182	ENST00000372880, ENST00000308731	-	chrX	100606114	100606281	-	2601-2602	460,636	CCLE-LCLL
chrX:100611040:->chrX:100610486:-	chrX	100611040	100611040	ENST00000308731	-	chrX	100610486	100610688	-	2603-2603	522	CCLE-DLBC,CCLE-LCLL
chrX:106172113:+>chrX:106179585:+	chrX	106171459,106171459,106171459	106172113	ENST00000541806, ENST00000540876, ENST00000336803	+	chrX	106179585	106179638	+	2604-2604	218	CCLE-PAAD
chrX:115593943:->chrX:115438074:-	chrX	115593943	115593943	ENST00000371894	-	chrX	115438074	115438973	-	2605-2605	25	CCLE-LUSC
chrX:123587187:->chrX:123559261:-	chrX	123587187,1	123587187	ENST00000371130, ENST00000422452	-	chrX	123559261	123559264	-	2606-2607	1368,1361	CCLE-LUSC
chrX:123621059:->chrX:123617935:-	chrX	123621059	123621059	ENST00000422452	-	chrX	123617935	123618682	-	2608-2608	1238	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PRAD,CCLE-SARC,CCLE-STAD
chrX:123630866:->chrX:123617935:-	chrX	123630866,1	123630866	ENST00000371130, ENST00000422452	-	chrX	123617935	123618682	-	2609-2609	1231	CCLE-BLCA,CCLE-BRCA,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PRAD,CCLE-SARC,CCLE-STAD
chrX:123630866:->chrX:123629356:-	chrX	123630866,1	123630866	ENST00000371130, ENST00000422452	-	chrX	123629356	123629505	-	2610-2610	1231	CCLE-BRCA,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-MM
chrX:13956626:->chrX:13907677:-	chrX	13956626	13956626	ENST00000454189	-	chrX	13907677	13907696	-	2611-2611	1	CCLE-LUSC,CCLE-SKCM
chrX:14550494:+>chrX:14583790:+	chrX	14550361,14550361,14550361	14550494	ENST00000218075, ENST00000355020, ENST00000415367	+	chrX	14583790	14584640	+	2612-2613	51,67	CCLE-COAD,CCLE-LUSC,CCLE-STAD
chrX:149867773:+>chrX:149874008:+	chrX	149867668,149867668,149867668,149867668,149867668,149867668,149867668,149867681,149867681	149867773	ENST00000485376, ENST00000542156, ENST00000370390, ENST00000490316, ENST00000451863, ENST00000544228, ENST00000445323, ENST00000436701, ENST00000438018	+	chrX	149874008	149874262	+	2614-2615	31,84	CCLE-LGG,CCLE-LUSC,CCLE-MM

chrX:149867773:+>chrX:149874091:+	chrX	149867668,149867668,149867668,149867668,149867668,149867668,149867668,149867681,149867681	149867773	ENST00000485376,ENST00000542156,ENST00000370390,ENST00000490316,ENST00000451863,ENST00000544228,ENST00000445323,ENST00000436701,ENST00000438018	+	chrX	149874091	149874262	+	2616-2617	31,84	CCLE-DLBC
chrX:149945917:->chrX:149945443:-	chrX	149945917,149945917,149945917,149945917,149945867	149945917	ENST00000370377,ENST00000355149,ENST00000437787,ENST00000466436,ENST00000418547	-	chrX	149945443	149945882	-	2618-2622	141,178,105,129,106	CCLE-LUSC
chrX:149962164:->chrX:149956544:-	chrX	149962164,149962164,149962164,149962164	149962164	ENST00000370377,ENST00000355149,ENST00000466436,ENST00000418547	-	chrX	149956544	149956551	-	2623-2626	128,165,116,93	CCLE-LUSC
chrX:149999704:->chrX:149996841:-	chrX	149999704,149999704,149999704,149999704,149999704,149999704	149999704	ENST00000370377,ENST00000355149,ENST00000437787,ENST00000466436,ENST00000418547,ENST00000320893	-	chrX	149996841	149997009	-	2627-2628	6,43	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chrX:149999704:->chrX:149996865:-	chrX	149999704,149999704,149999704,149999704,149999704,149999704	149999704	ENST00000370377,ENST00000355149,ENST00000437787,ENST00000466436,ENST00000418547,ENST00000320893	-	chrX	149996865	149997009	-	2629-2630	6,43	CCLE-LUSC
chrX:151129755:->chrX:151128644:-	chrX	151129755,2	151129755	ENST00000370328,ENST00000370325	-	chrX	151128644	151128706	-	2631-2631	215	CCLE-BRCA,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD
chrX:152830561:+>chrX:152831204:+	chrX	152830379,152830379,152830379,152830379,152830379,152830379	152830561	ENST00000349466,ENST00000370186,ENST00000393842,ENST00000359149,ENST00000263519,ENST00000370181	+	chrX	152831204	152831321	+	2632-2633	1100,1114	CCLE-LUSC
chrX:153178154:->chrX:153177017:-	chrX	153178154,153178154,153178154,153178154,153178154,153178154	153178154	ENST00000393721,ENST00000370028,ENST00000350060,ENST00000420383,ENST00000370016,ENST00000537206,ENST00000442172	-	chrX	153177017	153177084	-	2634-2639	493,554,514,336,491,29	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chrX:153178478:->chrX:153177017:-	chrX	153178478,153178478,153178478,153178478,153178478,153178478	153178478	ENST00000393721,ENST00000370028,ENST00000350060,ENST00000420383,ENST00000370016,ENST00000537206	-	chrX	153177017	153177084	-	2640-2644	458,519,479,301,456	CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-SARC
chrX:154057810:->chrX:154055768:-	chrX	154057810	154057810	ENST00000369529	-	chrX	154055768	154055985	-	2645-2645	90	CCLE-LCLL
chrX:18936799:->chrX:18933789:-	chrX	18936799	18936799	ENST00000379942	-	chrX	18933789	18933795	-	2646-2646	712	CCLE-LCLL
chrX:19037717:->chrX:19035956:-	chrX	19037717,19037717,19037717,19037717,19037717,19037717,19037717,19037717,19037717	19037717	ENST00000354791,ENST00000379873,ENST00000379876,ENST00000379878,ENST00000357991,ENST00000357544,ENST00000360279,ENST00000379869,ENST00000356606,ENST00000340581	-	chrX	19035956	19036091	-	2647-2654	233,214,236,222,220,212,206	CCLE-SARC
chrX:33229399:->chrX:33096464:-	chrX	33229399,33229399,33229399	33229399	ENST00000357033,ENST00000420596,ENST00000448370	-	chrX	33096464	33097155	-	2655-2655	10	CCLE-SARC,CCLE-SKCM
chrX:37642853:+>chrX:37649221:+	chrX	37642743,38	37642853	ENST00000378588,ENST00000545017	+	chrX	37649221	37649346	+	2656-2657	84,52	CCLE-LCLL
chrX:46618140:->chrX:46611715:-	chrX	46618140	46618140	ENST00000328306	-	chrX	46611715	46612381	-	2658-2658	108	CCLE-DLBC
chrX:49853541:+>chrX:49854209:+	chrX	49853355,49853355,49853355,49853355	49853541	ENST00000376088,ENST00000376091,ENST00000376108,ENST00000307367	+	chrX	49854209	49854217	+	2659-2660	581,511	CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chrX:64196205:->chrX:64166838:-	chrX	64196205,64	64196205	ENST00000447788,ENST00000374839	-	chrX	64166838	64167323	-	2661-2661	17	CCLE-CESC
chrX:64887720:+>chrX:64901556:+	chrX	64887709	64887720	ENST00000360270	+	chrX	64901556	64901628	+	2662-2662	4	CCLE-LCLL
chrX:64936763:+>chrX:64986593:+	chrX	64936701,65	64936763	ENST00000609672,ENST00000360270	+	chrX	64986593	64986775	+	2663-2664	21,32	CCLE-SARC
chrX:69176982:+>chrX:69218690:+	chrX	69176877,69176877,69176877,69176877	69176982	ENST00000374552,ENST00000374553,ENST00000524573,ENST00000503592	+	chrX	69218690	69218818	+	2665-2666	35,167	CCLE-ESCA,CCLE-LIHC,CCLE-LUSC
chrX:8667739:->chrX:8613799:-	chrX	8667739	8667739	ENST00000262648	-	chrX	8613799	8613983	-	2667-2667	85	CCLE-LUSC

SEQ ID	Fusion_id	orf_chimeric_id_tx
10164	chr1:109325328:+>chr1:109330062:+	ORF1,chr1:109325328:+:ENST00000370008>chr1:109330062:+:MER107
10165	chr1:109446876:+>chr1:109452236:+	ORF1,chr1:109446876:+:ENST00000406462>chr1:109452236:+:L1ME3E/ORF1,chr1:109446876:+:ENST00000264126>chr1:109452236:+:L1ME3E
10166	chr1:109816292:+>chr1:109893374:+	ORF1,chr1:109816292:+:ENST00000271332>chr1:109893374:+:L2a
10167	chr1:112240119:+>chr1:112243637:+	ORF1,chr1:112240119:+:ENST00000356415>chr1:112243637:+:L2a/ORF1,chr1:112240119:+:ENST00000433097>chr1:112243637:+:L2a/ORF1,chr1:112240119:+:ENST00000436150>chr1:112243637:+:L2a/ORF1,chr1:112240119:+:ENST00000369709>chr1:112243637:+:L2a/ORF1,chr1:112240119:+:ENST00000545460>chr1:112243637:+:L2a
10168	chr1:114123283:+>chr1:114124745:+	ORF1,chr1:114123283:+:ENST00000369617>chr1:114124745:+:L1ME3C/ORF1,chr1:114123283:+:ENST00000307546>chr1:114124745:+:L1ME3C/ORF1,chr1:114123283:+:ENST00000369615>chr1:114124745:+:L1ME3C/ORF1,chr1:114123283:+:ENST00000369611>chr1:114124745:+:L1ME3C
10169	chr1:114137182:+>chr1:114153284:+	ORF1,chr1:114137182:+:ENST00000369617>chr1:114153284:+:L2/ORF1,chr1:114137182:+:ENST00000307546>chr1:114153284:+:L2/ORF1,chr1:114137182:+:ENST00000369615>chr1:114153284:+:L2/ORF1,chr1:114137182:+:ENST00000369611>chr1:114153284:+:L2
10170	chr1:114196640:+>chr1:114198340:+	ORF1,chr1:114196640:+:ENST00000369617>chr1:114198340:+:MIRb
10171	chr1:114196640:+>chr1:114198340:+	ORF1,chr1:114196640:+:ENST00000307546>chr1:114198340:+:MIRb/ORF1,chr1:114196640:+:ENST00000369615>chr1:114198340:+:MIRb/ORF1,chr1:114196640:+:ENST00000369611>chr1:114198340:+:MIRb
10172	chr1:116202394:+>chr1:116205953:+	ORF1,chr1:116202394:+:ENST00000355485>chr1:116205953:+:Tigger15a/ORF1,chr1:116202394:+:ENST00000310260>chr1:116205953:+:Tigger15a/ORF1,chr1:116202394:+:ENST00000369509>chr1:116205953:+:Tigger15a
10173	chr1:116206889:+>chr1:116207326:+	ORF1,chr1:116206889:+:ENST00000369510>chr1:116207326:+:MER94
10174	chr1:116206889:+>chr1:116207326:+	ORF1,chr1:116206889:+:ENST00000355485>chr1:116207326:+:MER94/ORF1,chr1:116206889:+:ENST00000310260>chr1:116207326:+:MER94/ORF1,chr1:116206889:+:ENST00000369509>chr1:116207326:+:MER94
10175	chr1:116228148:+>chr1:116232464:+	ORF1,chr1:116228148:+:ENST00000369510>chr1:116232464:+:AluSz
10176	chr1:116228148:+>chr1:116232464:+	ORF1,chr1:116228148:+:ENST00000355485>chr1:116232464:+:AluSz/ORF1,chr1:116228148:+:ENST00000310260>chr1:116232464:+:AluSz/ORF1,chr1:116228148:+:ENST00000369509>chr1:116232464:+:AluSz
10177	chr1:116927464:+>chr1:116928351:+	ORF1,chr1:116927464:+:ENST00000537345>chr1:116928351:+:MER21A
10178	chr1:116927464:+>chr1:116928351:+	ORF1,chr1:116927464:+:ENST00000418797>chr1:116928351:+:MER21A/ORF1,chr1:116927464:+:ENST00000369494>chr1:116928351:+:MER21A/ORF1,chr1:116927464:+:ENST00000369496>chr1:116928351:+:MER21A
10179	chr1:116927464:+>chr1:116928351:+	ORF1,chr1:116927464:+:ENST00000295598>chr1:116928351:+:MER21A
10180	chr1:116939356:+>chr20:50669324:-	ORF1,chr1:116939356:+:ENST00000537345>chr20:50669324:-:Zaphod
10181	chr1:116939356:+>chr20:50669324:-	ORF1,chr1:116939356:+:ENST00000369496>chr20:50669324:-:Zaphod

10182	chr1:116939356:+>chr20:50669324:-	ORF1,chr1:116939356:+:ENST00000295598>chr20:50669324:-:Zaphod
10183	chr1:120572529:->chr1:120570675:-	ORF1,chr1:120572529:-:ENST00000602566>chr1:120570675:-:L1PA8
10184	chr1:120572529:->chr1:120570675:-	ORF1,chr1:120572529:-:ENST00000256646>chr1:120570675:-:L1PA8
10185	chr1:12123718:+>chr1:12132217:+	ORF1,chr1:12123718:+:ENST00000263932>chr1:12132217:+:MIR/ORF1,chr1:12123718:+:ENST00000514649>chr1:12132217:+:MIR
10186	chr1:12175786:+>chr1:12181788:+	ORF1,chr1:12175786:+:ENST00000417814>chr1:12181788:+:L1ME1
10187	chr1:12175786:+>chr1:12181788:+	ORF1,chr1:12175786:+:ENST00000263932>chr1:12181788:+:L1ME1
10188	chr1:12262228:+>chr1:12262564:+	ORF1,chr1:12262228:+:ENST00000376259>chr1:12262564:+:L2c
10189	chr1:13839458:->chr1:13832360:-	ORF1,chr1:13839458:-:ENST00000376085>chr1:13832360:-:L2a
10190	chr1:13940900:+>chr1:13965666:+	ORF1,chr1:13940900:+:ENST00000509009>chr1:13965666:+:MLT1F
10191	chr1:13940900:+>chr1:13965666:+	ORF1,chr1:13940900:+:ENST00000294489>chr1:13965666:+:MLT1F/ORF1,chr1:13940900:+:ENST00000376057>chr1:13965666:+:MLT1F
10192	chr1:13940900:+>chr1:13965666:+	ORF1,chr1:13940900:+:ENST00000376061>chr1:13965666:+:MLT1F/ORF1,chr1:13940900:+:ENST00000513143>chr1:13965666:+:MLT1F/ORF1,chr1:13940900:+:ENST00000487038>chr1:13965666:+:MLT1F/ORF1,chr1:13940900:+:ENST00000475043>chr1:13965666:+:MLT1F
10193	chr1:13940900:+>chr1:13965666:+	ORF1,chr1:13940900:+:ENST00000510906>chr1:13965666:+:MLT1F
10194	chr1:13940906:+>chr1:13965666:+	ORF1,chr1:13940906:+:ENST00000509009>chr1:13965666:+:MLT1F
10195	chr1:13940906:+>chr1:13965666:+	ORF1,chr1:13940906:+:ENST00000294489>chr1:13965666:+:MLT1F
10196	chr1:13940906:+>chr1:13965666:+	ORF1,chr1:13940906:+:ENST00000376061>chr1:13965666:+:MLT1F/ORF1,chr1:13940906:+:ENST00000513143>chr1:13965666:+:MLT1F/ORF1,chr1:13940906:+:ENST00000487038>chr1:13965666:+:MLT1F
10197	chr1:13940906:+>chr1:13965666:+	ORF1,chr1:13940906:+:ENST00000510906>chr1:13965666:+:MLT1F
10198	chr1:157745565:->chr1:157740791:-	ORF1,chr1:157745565:-:ENST00000361516>chr1:157740791:-:MLT1A0/ORF1,chr1:157745565:-:ENST00000368181>chr1:157740791:-:MLT1A0/ORF1,chr1:157745565:-:ENST00000392274>chr1:157740791:-:MLT1A0
10199	chr1:157963518:+>chr1:158033547:+	ORF1,chr1:157963518:+:ENST00000368173>chr1:158033547:+:L2b/ORF1,chr1:157963518:+:ENST00000392272>chr1:158033547:+:L2b/ORF1,chr1:157963518:+:ENST00000359209>chr1:158033547:+:L2b/ORF1,chr1:157963518:+:ENST00000416935>chr1:158033547:+:L2b

10200	chr1:158056536:+>chr1:158057068:+	ORF1,chr1:158056536:+:ENST00000368173>chr1:158057068:+:MER46C/ORF1,chr1:158056536:+:ENST00000359209>chr1:158057068:+:MER46C
10201	chr1:158056536:+>chr1:158057068:+	ORF1,chr1:158056536:+:ENST00000416935>chr1:158057068:+:MER46C
10202	chr1:158056536:+>chr1:158057068:+	ORF1,chr1:158056536:+:ENST00000368172>chr1:158057068:+:MER46C
10203	chr1:159906189:->chr1:159905530:-	ORF1,chr1:159906189:-:ENST00000361509>chr1:159905530:-:MIRb/ORF1,chr1:159906189:-:ENST00000368094>chr1:159905530:-:MIRb
10204	chr1:160681472:->chr1:160670007:-	ORF1,chr1:160681472:-:ENST00000368046>chr1:160670007:-:HERVK11-int/ORF1,chr1:160681472:-:ENST00000368045>chr1:160670007:-:HERVK11-int
10205	chr1:161275898:->chr1:161251824:-	ORF1,chr1:161275898:-:ENST00000463290>chr1:161251824:-:SVA_D/ORF1,chr1:161275898:-:ENST00000533357>chr1:161251824:-:SVA_D/ORF1,chr1:161275898:-:ENST00000336559>chr1:161251824:-:SVA_D
10206	chr1:161275898:->chr1:161251824:-	ORF1,chr1:161275898:-:ENST00000491222>chr1:161251824:-:SVA_D
10207	chr1:161275898:->chr1:161251824:-	ORF1,chr1:161275898:-:ENST00000360451>chr1:161251824:-:SVA_D
10208	chr1:161275898:->chr1:161251827:-	ORF1,chr1:161275898:-:ENST00000463290>chr1:161251827:-:SVA_D/ORF1,chr1:161275898:-:ENST00000533357>chr1:161251827:-:SVA_D/ORF1,chr1:161275898:-:ENST00000336559>chr1:161251827:-:SVA_D
10209	chr1:161275898:->chr1:161251827:-	ORF1,chr1:161275898:-:ENST00000491222>chr1:161251827:-:SVA_D
10210	chr1:161275898:->chr1:161251827:-	ORF1,chr1:161275898:-:ENST00000360451>chr1:161251827:-:SVA_D
10211	chr1:161275898:->chr1:161252001:-	ORF1,chr1:161275898:-:ENST00000463290>chr1:161252001:-:SVA_D/ORF1,chr1:161275898:-:ENST00000533357>chr1:161252001:-:SVA_D/ORF1,chr1:161275898:-:ENST00000336559>chr1:161252001:-:SVA_D
10212	chr1:161275898:->chr1:161252001:-	ORF1,chr1:161275898:-:ENST00000491222>chr1:161252001:-:SVA_D
10213	chr1:161275898:->chr1:161252001:-	ORF1,chr1:161275898:-:ENST00000360451>chr1:161252001:-:SVA_D
10214	chr1:161275898:->chr1:161274131:-	ORF1,chr1:161275898:-:ENST00000463290>chr1:161274131:-:MIRc/ORF1,chr1:161275898:-:ENST00000533357>chr1:161274131:-:MIRc/ORF1,chr1:161275898:-:ENST00000336559>chr1:161274131:-:MIRc

10215	chr1:161275898:->chr1:161274131:-	ORF1,chr1:161275898:-:ENST00000491222>chr1:161274131:-:MIRc
10216	chr1:161275898:->chr1:161274131:-	ORF1,chr1:161275898:-:ENST00000360451>chr1:161274131:-:MIRc
10217	chr1:161483722:+>chr1:161569358:+	ORF1,chr1:161483722:+:ENST00000271450>chr1:161569358:+:MER57-int
10218	chr1:161483722:+>chr1:161569358:+	ORF1,chr1:161483722:+:ENST00000367972>chr1:161569358:+:MER57-int
10219	chr1:161483722:+>chr1:161569358:+	ORF1,chr1:161483722:+:ENST00000459885>chr1:161569358:+:MER57-int
10220	chr1:162688935:+>chr1:162715802:+	ORF1,chr1:162688935:+:ENST00000446985>chr1:162715802:+:L1PA6/ORF1,chr1:162688935:+:ENST00000415555>chr1:162715802:+:L1PA6/ORF1,chr1:162688935:+:ENST00000367922>chr1:162715802:+:L1PA6/ORF1,chr1:162688935:+:ENST00000367921>chr1:162715802:+:L1PA6
10221	chr1:168059802:->chr1:168059333:-	ORF1,chr1:168059802:-:ENST00000539777>chr1:168059333:-:MIRb
10222	chr1:168059802:->chr1:168059333:-	ORF1,chr1:168059802:-:ENST00000546300>chr1:168059333:-:MIRb
10223	chr1:168059802:->chr1:168059333:-	ORF1,chr1:168059802:-:ENST00000537209>chr1:168059333:-:MIRb
10224	chr1:168059802:->chr1:168059333:-	ORF1,chr1:168059802:-:ENST00000367838>chr1:168059333:-:MIRb/ORF1,chr1:168059802:-:ENST00000271357>chr1:168059333:-:MIRb/ORF1,chr1:168059802:-:ENST00000361697>chr1:168059333:-:MIRb/ORF1,chr1:168059802:-:ENST00000367835>chr1:168059333:-:MIRb
10225	chr1:168059802:->chr1:168059333:-	ORF1,chr1:168059802:-:ENST00000367836>chr1:168059333:-:MIRb
10226	chr1:177429776:->chr1:177411173:-	ORF1,chr1:17742976:-:ENST00000375436>chr1:17741173:-:AluJb/ORF1,chr1:17742976:-:ENST00000375433>chr1:17741173:-:AluJb
10227	chr1:180849433:+>chr1:180864082:+	ORF1,chr1:180849433:+:ENST00000367589>chr1:180864082:+:ERV3-16A3_I-int
10228	chr1:180849433:+>chr1:180864082:+	ORF1,chr1:180849433:+:ENST00000367590>chr1:180864082:+:ERV3-16A3_I-int
10229	chr1:196577345:->chr1:196536832:-	ORF1,chr1:196577345:-:ENST00000367433>chr1:196536832:-:L2a/ORF1,chr1:196577345:-:ENST00000367431>chr1:196536832:-:L2a/ORF1,chr1:196577345:-:ENST00000609185>chr1:196536832:-:L2a/ORF1,chr1:196577345:-:ENST00000294725>chr1:196536832:-:L2a

10230	chr1:197237612:+>chr1:197265983:+	ORF1,chr1:197237612:+:ENST00000538660>chr1:197265983:+:THE1B/ORF1,chr1:197237612:+:ENST00000367400>chr1:197265983:+:THE1B/ORF1,chr1:197237612:+:ENST00000484075>chr1:197265983:+:THE1B/ORF1,chr1:197237612:+:ENST00000367399>chr1:197265983:+:THE1B
10231	chr1:198608471:+>chr1:198641024:+	ORF1,chr1:198608471:+:ENST00000367379>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000530727>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000442510>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000367367>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000348564>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000367364>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000413409>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000529828>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000418674>chr1:198641024:+:L2c
10232	chr1:198608471:+>chr1:198641024:+	ORF1,chr1:198608471:+:ENST00000598951>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000352140>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000367376>chr1:198641024:+:L2c/ORF1,chr1:198608471:+:ENST00000594404>chr1:198641024:+:L2c
10233	chr1:198698300:+>chr1:198699460:+	ORF1,chr1:198698300:+:ENST00000348564>chr1:198699460:+:L2a
10234	chr1:198698300:+>chr1:198699460:+	ORF1,chr1:198698300:+:ENST00000529828>chr1:198699460:+:L2a
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10237	chr1:198698300:+>chr1:198699460:+	ORF1,chr1:198698300:+:ENST00000367367>chr1:198699460:+:L2a
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10241	chr1:198698300:+>chr1:198699529:+	ORF1,chr1:198698300:+:ENST00000348564>chr1:198699529:+:L2a
10242	chr1:198698300:+>chr1:198699529:+	ORF1,chr1:198698300:+:ENST00000529828>chr1:198699529:+:L2a
10243	chr1:198698300:+>chr1:198699529:+	ORF1,chr1:198698300:+:ENST00000442510>chr1:198699529:+:L2a
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10249	chr1:198704381:+>chr1:198708193:+	ORF1,chr1:198704381:+:ENST00000348564>chr1:198708193:+:L1M1
10250	chr1:198704381:+>chr1:198708193:+	ORF1,chr1:198704381:+:ENST00000529828>chr1:198708193:+:L1M1
10251	chr1:198704381:+>chr1:198708193:+	ORF1,chr1:198704381:+:ENST00000442510>chr1:198708193:+:L1M1
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10253	chr1:198704381:+>chr1:198708193:+	ORF1,chr1:198704381:+:ENST00000594404>chr1:198708193:+:L1M1
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10255	chr1:198704381:+>chr1:198708193:+	ORF1,chr1:198704381:+:ENST00000367376>chr1:198708193:+:L1M1
10256	chr1:204944546:+>chr1:204944761:+	ORF1,chr1:204944546:+:ENST00000430393>chr1:204944761:+:CT-rich
10257	chr1:204944546:+>chr1:204944761:+	ORF1,chr1:204944546:+:ENST00000367171>chr1:204944761:+:CT-rich
10258	chr1:204944546:+>chr1:204944761:+	ORF1,chr1:204944546:+:ENST00000360049>chr1:204944761:+:CT-rich/ORF1,chr1:204944546:+:ENST00000539706>chr1:204944761:+:CT-rich/ORF1,chr1:204944546:+:ENST00000404907>chr1:204944761:+:CT-rich/ORF1,chr1:204944546:+:ENST00000513543>chr1:204944761:+:CT-rich
10259	chr1:204944546:+>chr1:204944761:+	ORF1,chr1:204944546:+:ENST00000404076>chr1:204944761:+:CT-rich
10260	chr1:204944546:+>chr1:204944761:+	ORF1,chr1:204944546:+:ENST00000338515>chr1:204944761:+:CT-rich/ORF1,chr1:204944546:+:ENST00000338586>chr1:204944761:+:CT-rich/ORF1,chr1:204944546:+:ENST00000367169>chr1:204944761:+:CT-rich/ORF1,chr1:204944546:+:ENST00000367170>chr1:204944761:+:CT-rich/ORF1,chr1:204944546:+:ENST00000367172>chr1:204944761:+:CT-rich
10261	chr1:204944546:+>chr1:204944761:+	ORF1,chr1:204944546:+:ENST00000339876>chr1:204944761:+:CT-rich/ORF1,chr1:204944546:+:ENST00000403080>chr1:204944761:+:CT-rich/ORF1,chr1:204944546:+:ENST00000401399>chr1:204944761:+:CT-rich
10262	chr1:204944546:+>chr1:204944761:+	ORF1,chr1:204944546:+:ENST00000367173>chr1:204944761:+:CT-rich
10263	chr1:205886411:->chr1:205859514:-	ORF1,chr1:205886411:-:ENST00000340781>chr1:205859514:-:LTR7B/ORF1,chr1:205886411:-:ENST00000367135>chr1:205859514:-:LTR7B/ORF1,chr1:205886411:-:ENST00000367134>chr1:205859514:-:LTR7B
10264	chr1:207512762:+>chr1:207546114:+	ORF1,chr1:207512762:+:ENST00000391921>chr1:207546114:+:MLT1H

10265	chr1:207512762:+>chr1:207546114:+	ORF1,chr1:207512762:+:ENST00000367064>chr1:207546114:+:MLT1H/ORF1,chr1:207512762:+:ENST00000367063>chr1:207546114:+:MLT1H/ORF1,chr1:207512762:+:ENST00000314754>chr1:207546114:+:MLT1H/ORF1,chr1:207512762:+:ENST00000367062>chr1:207546114:+:MLT1H/ORF1,chr1:207512762:+:ENST00000367065>chr1:207546114:+:MLT1H/ORF1,chr1:207512762:+:ENST00000391920>chr1:207546114:+:MLT1H/ORF1,chr1:207512762:+:ENST00000482390>chr1:207546114:+:MLT1H
10266	chr1:207640257:+>chr1:207641784:+	ORF1,chr1:207640257:+:ENST00000367057>chr1:207641784:+:MER30/ORF1,chr1:207640257:+:ENST00000367058>chr1:207641784:+:MER30/ORF1,chr1:207640257:+:ENST00000367059>chr1:207641784:+:MER30/ORF1,chr1:207640257:+:ENST00000458541>chr1:207641784:+:MER30
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10297	chr1:2492153:+>chr1:2492884:+	ORF1,chr1:2492153:+:ENST00000426449>chr1:2492884:+:C-rich/ORF1,chr1:2492153:+:ENST00000434817>chr1:2492884:+:C-rich/ORF1,chr1:2492153:+:ENST00000435221>chr1:2492884:+:C-rich/ORF1,chr1:2492153:+:ENST00000451778>chr1:2492884:+:C-rich/ORF1,chr1:2492153:+:ENST00000409119>chr1:2492884:+:C-rich/ORF1,chr1:2492153:+:ENST00000355716>chr1:2492884:+:C-rich
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10307	chr1:33547955:+>chr1:33548712:+	ORF1,chr1:33547955:+:ENST00000358680>chr1:33548712:+:L2c/ORF1,chr1:33547955:+:ENST00000294517>chr1:33548712:+:L2c/ORF1,chr1:33547955:+:ENST00000398167>chr1:33548712:+:L2c/ORF1,chr1:33547955:+:ENST00000373443>chr1:33548712:+:L2c/ORF1,chr1:33547955:+:ENST00000373440>chr1:33548712:+:L2c/ORF1,chr1:33547955:+:ENST00000373441>chr1:33548712:+:L2c
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10446	chr10:6472772:->chr10:6440614:-	ORF1,chr10:6472772:-:ENST00000397176>chr10:6440614:-:L2b
10447	chr10:71258152:+>chr10:71271547:+	ORF1,chr10:71258152:+:ENST00000452130>chr10:71271547:+:L1PA7
10448	chr10:71258152:+>chr10:71271547:+	ORF1,chr10:71258152:+:ENST00000373290>chr10:71271547:+:L1PA7
10449	chr10:71264241:+>chr10:71271547:+	ORF1,chr10:71264241:+:ENST00000452130>chr10:71271547:+:L1PA7
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10456	chr10:71634919:+>chr10:71640170:+	ORF1,chr10:71634919:+:ENST00000398972>chr10:71640170:+:C-rich/ORF1,chr10:71634919:+:ENST00000398973>chr10:71640170:+:C-rich/ORF1,chr10:71634919:+:ENST00000479733>chr10:71640170:+:C-rich/ORF1,chr10:71634919:+:ENST00000354547>chr10:71640170:+:C-rich/ORF1,chr10:71634919:+:ENST00000357811>chr10:71640170:+:C-rich/ORF1,chr10:71634919:+:ENST00000398978>chr10:71640170:+:C-rich/ORF1,chr10:71634919:+:ENST00000517713>chr10:71640170:+:C-rich/ORF1,chr10:71634919:+:ENST00000522165>chr10:71640170:+:C-rich
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10459	chr10:72360120:->chr10:72357597:-	ORF1,chr10:72360120:-:ENST00000373209>chr10:72357597:-:MER30/ORF1,chr10:72360120:-:ENST00000441259>chr10:72357597:-:MER30
10460	chr10:72972821:+>chr10:73034215:+	ORF1,chr10:72972821:+:ENST00000335350>chr10:73034215:+:L3/ORF1,chr10:72972821:+:ENST00000373192>chr10:73034215:+:L3
10461	chr10:73464887:+>chr10:73466221:+	ORF1,chr10:73464887:+:ENST00000224721>chr10:73466221:+:MIRb
10462	chr10:73464887:+>chr10:73466221:+	ORF1,chr10:73464887:+:ENST00000299366>chr10:73466221:+:MIRb
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10465	chr10:75003601:->chr10:74977810:-	ORF1,chr10:75003601:-:ENST00000372950>chr10:74977810:-:MLT1F2-int
10466	chr10:75802911:+>chr10:75823441:+	ORF1,chr10:75802911:+:ENST00000211998>chr10:75823441:+:L1ME3D/ORF1,chr10:75802911:+:ENST00000372755>chr10:75823441:+:L1ME3D/ORF1,chr10:75802911:+:ENST00000417648>chr10:75823441:+:L1ME3D
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10468	chr10:75874657:+>chr10:75876667:+	ORF1,chr10:75874657:+:ENST00000436396>chr10:75876667:+:Charlie4z
10469	chr10:75874657:+>chr10:75876667:+	ORF1,chr10:75874657:+:ENST00000417648>chr10:75876667:+:Charlie4z
10470	chr10:75874657:+>chr10:75876667:+	ORF1,chr10:75874657:+:ENST00000372755>chr10:75876667:+:Charlie4z
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10474	chr10:85964361:+>chr10:85965458:+	ORF1,chr10:85964361:+:ENST00000332904>chr10:85965458:+:MIRb/ORF1,chr10:85964361:+:ENST00000372117>chr10:85965458:+:MIRb
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10478	chr10:95658508:+>chr10:95666009:+	ORF1,chr10:95658508:+:ENST00000371408>chr10:95666009:+:MLT1G1
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10483	chr10:98362037:->chr10:98358300:-	ORF1,chr10:98362037:-:ENST00000339364>chr10:98358300:-:L2c
10484	chr10:98362037:->chr10:98358300:-	ORF1,chr10:98362037:-:ENST00000371109>chr10:98358300:-:L2c

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10486	chr10:99400934:+>chr10:99403832:+	ORF1,chr10:99400934:+:ENST00000370631>chr10:99403832:+:AluSx1
10487	chr11:1003804:+>chr11:1004067:+	ORF1,chr11:1003804:+:ENST00000448903>chr11:1004067:+:L1MB3
10488	chr11:1003804:+>chr11:1004067:+	ORF1,chr11:1003804:+:ENST00000332231>chr11:1004067:+:L1MB3
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10490	chr11:103153814:+>chr11:103154850:+	ORF1,chr11:103153814:+:ENST00000398093>chr11:103154850:+:MER31A
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10493	chr11:105483161:+>chr11:105590950:+	ORF1,chr11:105483161:+:ENST00000527177>chr11:105590950:+:Charlie8/ORF1,chr11:105483161:+:ENST00000393125>chr11:105590950:+:Charlie8/ORF1,chr11:105483161:+:ENST00000531986>chr11:105590950:+:Charlie8/ORF1,chr11:105483161:+:ENST00000282499>chr11:105590950:+:Charlie8/ORF1,chr11:105483161:+:ENST00000393127>chr11:105590950:+:Charlie8/ORF1,chr11:105483161:+:ENST00000527669>chr11:105590950:+:Charlie8/ORF1,chr11:105483161:+:ENST00000525921>chr11:105590950:+:Charlie8/ORF1,chr11:105483161:+:ENST00000428631>chr11:105590950:+:Charlie8/ORF1,chr11:105483161:+:ENST00000531011>chr11:105590950:+:Charlie8/ORF1,chr11:105483161:+:ENST00000525187>chr11:105590950:+:Charlie8/ORF1,chr11:105483161:+:ENST00000530497>chr11:105590950:+:Charlie8
10494	chr11:110134685:->chr11:110131688:-	ORF1,chr11:110134685:-:ENST00000532118>chr11:110131688:-:MER2
10495	chr11:110134685:->chr11:110131688:-	ORF1,chr11:110134685:-:ENST00000530301>chr11:110131688:-:MER2
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10497	chr11:113560487:->chr11:113519404:-	ORF1,chr11:113560487:-:ENST00000540540>chr11:113519404:-:LTR12C
10498	chr11:113560487:->chr11:113519404:-	ORF1,chr11:113560487:-:ENST00000538955>chr11:113519404:-:LTR12C

10499	chr11:113560487:->chr11:113519404:-	ORF1,chr11:113560487:-:ENST00000544476>chr11:113519404:-:LTR12C
10500	chr11:113560487:->chr11:113519404:-	ORF1,chr11:113560487:-:ENST00000299882>chr11:113519404:-:LTR12C
10501	chr11:113560487:->chr11:113519404:-	ORF1,chr11:113560487:-:ENST00000544634>chr11:113519404:-:LTR12C
10502	chr11:113560487:->chr11:113519404:-	ORF1,chr11:113560487:-:ENST00000545579>chr11:113519404:-:LTR12C
10503	chr11:117064679:+>chr11:117064774:+	ORF1,chr11:117064679:+:ENST00000431081>chr11:117064774:+:AluJr
10504	chr11:117064679:+>chr11:117064774:+	ORF1,chr11:117064679:+:ENST00000278951>chr11:117064774:+:AluJr
10505	chr11:117064679:+>chr11:117064774:+	ORF1,chr11:117064679:+:ENST00000324225>chr11:117064774:+:AluJr
10506	chr11:117064679:+>chr11:117064774:+	ORF1,chr11:117064679:+:ENST00000532062>chr11:117064774:+:AluJr
10507	chr11:117351158:->chr11:117350617:-	ORF1,chr11:117351158:-:ENST00000321322>chr11:117350617:-:AluSx
10508	chr11:117351158:->chr11:117350617:-	ORF1,chr11:117351158:-:ENST00000527706>chr11:117350617:-:AluSx
10509	chr11:117988169:+>chr11:117996010:+	ORF1,chr11:117988169:+:ENST00000534111>chr11:117996010:+:LTR16D
10510	chr11:117988169:+>chr11:117996010:+	ORF1,chr11:117988169:+:ENST00000523251>chr11:117996010:+:LTR16D
10511	chr11:117988169:+>chr11:117996010:+	ORF1,chr11:117988169:+:ENST00000522307>chr11:117996010:+:LTR16D
10512	chr11:117988169:+>chr11:117996010:+	ORF1,chr11:117988169:+:ENST00000522824>chr11:117996010:+:LTR16D

10513	chr11:117988169:+>chr11:117996010:+	ORF1,chr11:117988169:+:ENST00000437212>chr11:117996010:+:LTR16D
10514	chr11:117988169:+>chr11:117996010:+	ORF1,chr11:117988169:+:ENST00000524218>chr11:117996010:+:LTR16D
10515	chr11:117988169:+>chr11:117996015:+	ORF1,chr11:117988169:+:ENST00000534111>chr11:117996015:+:LTR16D
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10519	chr11:117988169:+>chr11:117996015:+	ORF1,chr11:117988169:+:ENST00000437212>chr11:117996015:+:LTR16D
10520	chr11:117988169:+>chr11:117996015:+	ORF1,chr11:117988169:+:ENST00000524218>chr11:117996015:+:LTR16D
10521	chr11:118213268:->chr11:118203091:-	ORF1,chr11:118213268:-:ENST00000300692>chr11:118203091:-:SVA_D/ORF1,chr11:118213268:-:ENST00000529594>chr11:118203091:-:SVA_D/ORF1,chr11:118213268:-:ENST00000392884>chr11:118203091:-:SVA_D
10522	chr11:118213268:->chr11:118203158:-	ORF1,chr11:118213268:-:ENST00000300692>chr11:118203158:-:SVA_D/ORF1,chr11:118213268:-:ENST00000529594>chr11:118203158:-:SVA_D/ORF1,chr11:118213268:-:ENST00000392884>chr11:118203158:-:SVA_D
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10524	chr11:118754701:+>chr11:118755028:+	ORF1,chr11:118754701:+:ENST00000292174>chr11:118755028:+:MIRc
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10566	chr11:27397846:->chr11:27397734:-	ORF1,chr11:27397846:-:ENST00000389858>chr11:27397734:-:AluSp
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10576	chr11:36120011:+>chr11:36166026:+	ORF1,chr11:36120011:+:ENST00000315571>chr11:36166026:+:SVA_D
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10586	chr11:46397181:+>chr11:46397288:+	ORF1,chr11:46397181:+:ENST00000456247>chr11:46397288:+:MIRb

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10592	chr11:46397181:+>chr11:46397288:+	ORF1,chr11:46397181:+:ENST00000395574>chr11:46397288:+:MIRb
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10603	chr11:46920109:->chr11:46919867:-	ORF1,chr11:46920109:-:ENST00000378623>chr11:46919867:-:AluSz
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10607	chr11:47346128:+>chr11:47347762:+	ORF1,chr11:47346128:+:ENST00000402799>chr11:47347762:+:MIRb/ORF1,chr11:47346128:+:ENST00000406482>chr11:47347762:+:MIRb
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10610	chr11:47346128:+>chr11:47347762:+	ORF1,chr11:47346128:+:ENST00000342922>chr11:47347762:+:MIRb
10611	chr11:47346128:+>chr11:47347762:+	ORF1,chr11:47346128:+:ENST00000311027>chr11:47347762:+:MIRb/ORF1,chr11:47346128:+:ENST00000395336>chr11:47347762:+:MIRb
10612	chr11:47346128:+>chr11:47347762:+	ORF1,chr11:47346128:+:ENST00000349238>chr11:47347762:+:MIRb
10613	chr11:47460283:->chr11:47460167:-	ORF1,chr11:47460283:-:ENST00000352508>chr11:47460167:-:AluSx1/ORF1,chr11:47460283:-:ENST00000529341>chr11:47460167:-:AluSx1
10614	chr11:47460283:->chr11:47460167:-	ORF1,chr11:47460283:-:ENST00000298854>chr11:47460167:-:AluSx1
10615	chr11:47460283:->chr11:47460167:-	ORF1,chr11:47460283:-:ENST00000524487>chr11:47460167:-:AluSx1
10616	chr11:57118372:+>chr11:57118510:+	ORF1,chr11:57118372:+:ENST00000263314>chr11:57118510:+:L3
10617	chr11:57450015:+>chr11:57452339:+	ORF1,chr11:57450015:+:ENST00000527985>chr11:57452339:+:AluSx1
10618	chr11:57450015:+>chr11:57452339:+	ORF1,chr11:57450015:+:ENST00000287169>chr11:57452339:+:AluSx1
10619	chr11:57450015:+>chr11:57452339:+	ORF1,chr11:57450015:+:ENST00000529447>chr11:57452339:+:AluSx1
10620	chr11:58295054:->chr11:58282132:-	ORF1,chr11:58295054:-:ENST00000395074>chr11:58282132:-:Tigger1
10621	chr11:58295054:->chr11:58282132:-	ORF1,chr11:58295054:-:ENST00000528489>chr11:58282132:-:Tigger1

10622	chr11:58295054:->chr11:58282132:-	ORF1,chr11:58295054:-:ENST00000528954>chr11:58282132:-:Tigger1
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11132	chr16:47699943:+>chr16:47700429:+	ORF1,chr16:47699943:+:ENST00000566275>chr16:47700429:+:L2b
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11134	chr16:4937136:->chr16:4936556:-	ORF1,chr16:4937136:-:ENST00000590782>chr16:4936556:-:L1MC
11135	chr16:4937136:->chr16:4936556:-	ORF1,chr16:4937136:-:ENST00000592772>chr16:4936556:-:L1MC
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11137	chr16:50659491:+>chr16:50662053:+	ORF1,chr16:50659491:+:ENST00000268459>chr16:50662053:+:MER102b
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11148	chr16:56938374:+>chr16:56939223:+	ORF1,chr16:56938374:+:ENST00000563236>chr16:56939223:+:AluSp
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11181	chr16:84488590:+>chr16:84490583:+	ORF1,chr16:84488590:+:ENST00000262429>chr16:84490583:+:L1HS/ORF1,chr16:84488590:+:ENST00000416219>chr16:84490583:+:L1HS
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11183	chr16:87868020:->chr16:87867627:-	ORF1,chr16:87868020:-:ENST00000565644>chr16:87867627:-:AluSz
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11192	chr16:89930269:+>chr16:89930517:+	ORF1,chr16:89930269:+:ENST00000393062>chr16:89930517:+:L1MEc/ORF1,chr16:89930269:+:ENST00000378247>chr16:89930517:+:L1MEc
11193	chr16:89934624:+>chr16:89935294:+	ORF1,chr16:89934624:+:ENST00000378247>chr16:89935294:+:FRAM
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11203	chr17:1612793:->chr17:1593887:-	ORF1,chr17:1612793:-:ENST00000330676>chr17:1593887:-:SVA_F
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11362	chr18:8706711:+>chr18:8708193:+	ORF1,chr18:8706711:+:ENST00000306329>chr18:8708193:+:L2c
11363	chr18:8720494:+>chr18:8720654:+	ORF1,chr18:8720494:+:ENST00000517570>chr18:8720654:+:MER58C/ORF1,chr18:8720494:+:ENST00000400050>chr18:8720654:+:MER58C/ORF1,chr18:8720494:+:ENST00000359865>chr18:8720654:+:MER58C
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11377	chr19:11240346:+>chr19:11243593:+	ORF1,chr19:11240346:+:ENST00000455727>chr19:11243593:+:AluJo
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11486	chr19:42225096:+>chr19:42274707:+	ORF1,chr19:42225096:+:ENST00000398599>chr19:42274707:+:MER65-int
11487	chr19:42260820:+>chr19:42274777:+	ORF1,chr19:42260820:+:ENST00000199764>chr19:42274777:+:MER65-int
11488	chr19:42265435:+>chr19:42274707:+	ORF1,chr19:42265435:+:ENST00000199764>chr19:42274707:+:MER65-int
11489	chr19:42266131:+>chr19:42274707:+	ORF1,chr19:42266131:+:ENST00000199764>chr19:42274707:+:MER65-int
11490	chr19:42381453:+>chr19:42382530:+	ORF1,chr19:42381453:+:ENST00000221972>chr19:42382530:+:MIR/ORF1,chr19:42381453:+:ENST00000597454>chr19:42382530:+:MIR/ORF1,chr19:42381453:+:ENST00000444740>chr19:42382530:+:MIR
11491	chr19:44169468:->chr19:44165244:-	ORF1,chr19:44169468:-:ENST00000593939>chr19:44165244:-:L1MEg
11492	chr19:44169468:->chr19:44165244:-	ORF1,chr19:44169468:-:ENST00000339082>chr19:44165244:-:L1MEg/ORF1,chr19:44169468:-:ENST00000601723>chr19:44165244:-:L1MEg/ORF1,chr19:44169468:-:ENST00000340093>chr19:44165244:-:L1MEg/ORF1,chr19:44169468:-:ENST00000221264>chr19:44165244:-:L1MEg
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11497	chr19:45389476:+>chr19:45390331:+	ORF1,chr19:45389476:+:ENST00000252483>chr19:45390331:+:AluSx
11498	chr19:45389476:+>chr19:45390493:+	ORF1,chr19:45389476:+:ENST00000252483>chr19:45390493:+:AluSx
11499	chr19:46172850:+>chr19:46173062:+	ORF1,chr19:46172850:+:ENST00000590918>chr19:46173062:+:AluSx1/ORF1,chr19:46172850:+:ENST00000263281>chr19:46173062:+:AluSx1/ORF1,chr19:46172850:+:ENST00000304207>chr19:46173062:+:AluSx1/ORF1,chr19:46172850:+:ENST00000585889>chr19:46173062:+:AluSx1
11500	chr19:46280585:->chr19:46279972:-	ORF1,chr19:46280585:-:ENST00000343373>chr19:46279972:-:AluJb
11501	chr19:46280585:->chr19:46279972:-	ORF1,chr19:46280585:-:ENST00000291270>chr19:46279972:-:AluJb
11502	chr19:46280585:->chr19:46279972:-	ORF1,chr19:46280585:-:ENST00000593574>chr19:46279972:-:AluJb
11503	chr19:46280600:->chr19:46279972:-	ORF1,chr19:46280600:-:ENST00000600757>chr19:46279972:-:AluJb/ORF1,chr19:46280600:-:ENST00000343373>chr19:46279972:-:AluJb
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11505	chr19:46280600:->chr19:46279972:-	ORF1,chr19:46280600:-:ENST00000593574>chr19:46279972:-:AluJb
11506	chr19:46351010:->chr19:46348904:-	ORF1,chr19:46351010:-:ENST00000245934>chr19:46348904:-:L1MA3/ORF1,chr19:46351010:-:ENST00000600237>chr19:46348904:-:L1MA3
11507	chr19:46857246:+>chr19:46858941:+	ORF1,chr19:46857246:+:ENST00000391919>chr19:46858941:+:MIR
11508	chr19:46857246:+>chr19:46858941:+	ORF1,chr19:46857246:+:ENST00000012443>chr19:46858941:+:MIR
11509	chr19:46857246:+>chr19:46858941:+	ORF1,chr19:46857246:+:ENST00000478046>chr19:46858941:+:MIR
11510	chr19:47353391:->chr19:47350081:-	ORF1,chr19:47353391:-:ENST00000601498>chr19:47350081:-:AluSx1

11511	chr19:47354021:->chr19:47350081:-	ORF1,chr19:47354021:-:ENST00000352203>chr19:47350081:-:AluSx1/ORF1,chr19:47354021:-:ENST00000593442>chr19:47350081:-:AluSx1/ORF1,chr19:47354021:-:ENST00000263270>chr19:47350081:-:AluSx1/ORF1,chr19:47354021:-:ENST00000601649>chr19:47350081:-:AluSx1
11512	chr19:47440665:+>chr19:47451677:+	ORF1,chr19:47440665:+:ENST00000404338>chr19:47451677:+:L1ME1
11513	chr19:48571048:->chr19:48567210:-	ORF1,chr19:48571048:-:ENST00000599300>chr19:48567210:-:MER41C
11514	chr19:48571048:->chr19:48567210:-	ORF1,chr19:48571048:-:ENST00000601946>chr19:48567210:-:MER41C
11515	chr19:48571048:->chr19:48567210:-	ORF1,chr19:48571048:-:ENST00000354276>chr19:48567210:-:MER41C/ORF1,chr19:48571048:-:ENST00000413144>chr19:48567210:-:MER41C/ORF1,chr19:48571048:-:ENST00000599921>chr19:48567210:-:MER41C
11516	chr19:48571048:->chr19:48567210:-	ORF1,chr19:48571048:-:ENST00000599111>chr19:48567210:-:MER41C
11517	chr19:48571048:->chr19:48567210:-	ORF1,chr19:48571048:-:ENST00000595161>chr19:48567210:-:MER41C
11518	chr19:48571048:->chr19:48568293:-	ORF1,chr19:48571048:-:ENST00000599300>chr19:48568293:-:MER4B
11519	chr19:48571048:->chr19:48568293:-	ORF1,chr19:48571048:-:ENST00000601946>chr19:48568293:-:MER4B
11520	chr19:48571048:->chr19:48568293:-	ORF1,chr19:48571048:-:ENST00000354276>chr19:48568293:-:MER4B/ORF1,chr19:48571048:-:ENST00000413144>chr19:48568293:-:MER4B/ORF1,chr19:48571048:-:ENST00000599921>chr19:48568293:-:MER4B
11521	chr19:48571048:->chr19:48568293:-	ORF1,chr19:48571048:-:ENST00000599111>chr19:48568293:-:MER4B
11522	chr19:48571048:->chr19:48568293:-	ORF1,chr19:48571048:-:ENST00000595161>chr19:48568293:-:MER4B
11523	chr19:49129619:+>chr19:49130278:+	ORF1,chr19:49129619:+:ENST00000340932>chr19:49130278:+:AluSq2/ORF1,chr19:49129619:+:ENST00000601712>chr19:49130278:+:AluSq2/ORF1,chr19:49129619:+:ENST00000597434>chr19:49130278:+:AluSq2/ORF1,chr19:49129619:+:ENST00000599748>chr19:49130278:+:AluSq2/ORF1,chr19:49129619:+:ENST00000599029>chr19:49130278:+:AluSq2
11524	chr19:49129619:+>chr19:49130278:+	ORF1,chr19:49129619:+:ENST00000443164>chr19:49130278:+:AluSq2
11525	chr19:49129619:+>chr19:49130278:+	ORF1,chr19:49129619:+:ENST00000600537>chr19:49130278:+:AluSq2

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11527	chr19:49497180:+>chr19:49497762:+	ORF1,chr19:49497180:+:ENST00000595090>chr19:49497762:+:L2a/ORF1,chr19:49497180:+:ENST00000595811>chr19:49497762:+:L2a/ORF1,chr19:49497180:+:ENST00000596247>chr19:49497762:+:L2a/ORF1,chr19:49497180:+:ENST00000221413>chr19:49497762:+:L2a/ORF1,chr19:49497180:+:ENST00000593570>chr19:49497762:+:L2a
11528	chr19:49502630:+>chr19:49503008:+	ORF1,chr19:49502630:+:ENST00000595090>chr19:49503008:+:L2b/ORF1,chr19:49502630:+:ENST00000596247>chr19:49503008:+:L2b/ORF1,chr19:49502630:+:ENST00000221413>chr19:49503008:+:L2b/ORF1,chr19:49502630:+:ENST00000593570>chr19:49503008:+:L2b
11529	chr19:50270457:+>chr19:50276711:+	ORF1,chr19:50270457:+:ENST00000354293>chr19:50276711:+:L2c/ORF1,chr19:50270457:+:ENST00000359032>chr19:50276711:+:L2c
11530	chr19:50270457:+>chr19:50276711:+	ORF1,chr19:50270457:+:ENST00000597774>chr19:50276711:+:L2c
11531	chr19:50361910:+>chr19:50362346:+	ORF1,chr19:50361910:+:ENST00000600603>chr19:50362346:+:MIR3/ORF1,chr19:50361910:+:ENST00000601638>chr19:50362346:+:MIR3/ORF1,chr19:50361910:+:ENST00000221557>chr19:50362346:+:MIR3
11532	chr19:50361910:+>chr19:50362346:+	ORF1,chr19:50361910:+:ENST00000391842>chr19:50362346:+:MIR3/ORF1,chr19:50361910:+:ENST00000599732>chr19:50362346:+:MIR3/ORF1,chr19:50361910:+:ENST00000601675>chr19:50362346:+:MIR3
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11537	chr19:51914568:->chr19:51914197:-	ORF1,chr19:51914568:-:ENST00000432469>chr19:51914197:-:AluSx1
11538	chr19:51914568:->chr19:51914197:-	ORF1,chr19:51914568:-:ENST00000436984>chr19:51914197:-:AluSx1
11539	chr19:51914568:->chr19:51914197:-	ORF1,chr19:51914568:-:ENST00000441969>chr19:51914197:-:AluSx1
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11558	chr19:54483261:+>chr19:54492493:+	ORF1,chr19:54483261:+:ENST00000270458>chr19:54492493:+:AluJr4
11559	chr19:54501567:+>chr19:54515039:+	ORF1,chr19:54501567:+:ENST00000252729>chr19:54515039:+:L2c/ORF1,chr19:54501567:+:ENST00000346968>chr19:54515039:+:L2c
11560	chr19:54503025:+>chr19:54515039:+	ORF1,chr19:54503025:+:ENST00000252729>chr19:54515039:+:L2c
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11567	chr19:54868537:->chr19:54868431:-	ORF1,chr19:54868537:-:ENST00000391743>chr19:54868431:-:MIRb
11568	chr19:54868537:->chr19:54868431:-	ORF1,chr19:54868537:-:ENST00000313038>chr19:54868431:-:MIRb
11569	chr19:54868537:->chr19:54868431:-	ORF1,chr19:54868537:-:ENST00000434277>chr19:54868431:-:MIRb

11570	chr19:54868537:->chr19:54868431:-	ORF1,chr19:54868537:-:ENST00000474878>chr19:54868431:-:MIRb
11571	chr19:54868537:->chr19:54868431:-	ORF1,chr19:54868537:-:ENST00000391741>chr19:54868431:-:MIRb
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11573	chr19:54868537:->chr19:54868431:-	ORF1,chr19:54868537:-:ENST00000348231>chr19:54868431:-:MIRb
11574	chr19:55250988:+>chr19:55283733:+	ORF1,chr19:55250988:+:ENST00000342376>chr19:55283733:+:MLT1D/ORF1,chr19:55250988:+:ENST00000434419>chr19:55283733:+:MLT1D
11575	chr19:55282336:+>chr19:55283733:+	ORF1,chr19:55282336:+:ENST00000336077>chr19:55283733:+:MLT1D/ORF1,chr19:55282336:+:ENST00000291633>chr19:55283733:+:MLT1D
11576	chr19:55316532:+>chr19:55317070:+	ORF1,chr19:55316532:+:ENST00000396284>chr19:55317070:+:MLT1D
11577	chr19:55316532:+>chr19:55317070:+	ORF1,chr19:55316532:+:ENST00000359085>chr19:55317070:+:MLT1D/ORF1,chr19:55316532:+:ENST00000345540>chr19:55317070:+:MLT1D/ORF1,chr19:55316532:+:ENST00000357494>chr19:55317070:+:MLT1D
11578	chr19:55316532:+>chr19:55317070:+	ORF1,chr19:55316532:+:ENST00000396289>chr19:55317070:+:MLT1D
11579	chr19:55536586:->chr19:55530969:-	ORF1,chr19:55536586:-:ENST00000310373>chr19:55530969:-:L1M4/ORF1,chr19:55536586:-:ENST00000417454>chr19:55530969:-:L1M4
11580	chr19:56204403:+>chr19:56205444:+	ORF1,chr19:56204403:+:ENST00000411543>chr19:56205444:+:AluSp
11581	chr19:56204403:+>chr19:56205444:+	ORF1,chr19:56204403:+:ENST00000085079>chr19:56205444:+:AluSp
11582	chr19:56204403:+>chr19:56205444:+	ORF1,chr19:56204403:+:ENST00000270460>chr19:56205444:+:AluSp
11583	chr19:56204403:+>chr19:56205444:+	ORF1,chr19:56204403:+:ENST00000589704>chr19:56205444:+:AluSp
11584	chr19:6465629:+>chr19:6466184:+	ORF1,chr19:6465629:+:ENST00000598494>chr19:6466184:+:AluSx3/ORF1,chr19:6465629:+:ENST00000600229>chr19:6466184:+:AluSx3/ORF1,chr19:6465629:+:ENST00000356762>chr19:6466184:+:AluSx3/ORF1,chr19:6465629:+:ENST00000308243>chr19:6466184:+:AluSx3
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11586	chr19:6667124:->chr19:6661233:-	ORF1,chr19:6667124:-:ENST00000599359>chr19:6661233:-:LTR6A

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11588	chr19:6741292:+>chr19:6742535:+	ORF1,chr19:6741292:+:ENST00000313285>chr19:6742535:+:AluJr/ORF1,chr19:6741292:+:ENST00000600677>chr19:6742535:+:AluJr/ORF1,chr19:6741292:+:ENST00000313244>chr19:6742535:+:AluJr/ORF1,chr19:6741292:+:ENST00000596758>chr19:6742535:+:AluJr
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11593	chr2:109287303:+>chr2:109287498:+	ORF1,chr2:109287303:+:ENST00000542845>chr2:109287498:+:AluSq
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11602	chr2:113956803:+>chr2:113966557:+	ORF1,chr2:113956803:+:ENST00000441564>chr2:113966557:+:L4
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11652	chr2:167108275:->chr2:167100039:-	ORF1,chr2:167108275:-:ENST00000409672>chr2:167100039:-:L2c
11653	chr2:167108275:->chr2:167100039:-	ORF1,chr2:167108275:-:ENST00000409435>chr2:167100039:-:L2c

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11656	chr2:169699627:+>chr2:169700350:+	ORF1,chr2:169699627:+:ENST00000445023>chr2:169700350:+:L1ME3E/ORF1,chr2:169699627:+:ENST00000397206>chr2:169700350:+:L1ME3E/ORF1,chr2:169699627:+:ENST00000447264>chr2:169700350:+:L1ME3E
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11737	chr2:37543380:-:>chr2:37522370:-	ORF1,chr2:37543380:-:ENST00000379066>chr2:37522370:-:L2a/ORF1,chr2:37543380:-:ENST00000234179>chr2:37522370:-:L2a
11738	chr2:42671646:-:>chr2:42615796:-	ORF1,chr2:42671646:-:ENST00000394973>chr2:42615796:-:MLT1B
11739	chr2:42671646:-:>chr2:42615796:-	ORF1,chr2:42671646:-:ENST00000306078>chr2:42615796:-:MLT1B
11740	chr2:42671646:-:>chr2:42640900:-	ORF1,chr2:42671646:-:ENST00000394973>chr2:42640900:-:THE1C
11741	chr2:42671646:-:>chr2:42640900:-	ORF1,chr2:42671646:-:ENST00000306078>chr2:42640900:-:THE1C
11742	chr2:46070202:+>chr2:46087244:+	ORF1,chr2:46070202:+:ENST00000306156>chr2:46087244:+:L2a
11743	chr2:46313501:+>chr2:46321617:+	ORF1,chr2:46313501:+:ENST00000306156>chr2:46321617:+:L1PA11
11744	chr2:46803795:+>chr2:46807492:+	ORF1,chr2:46803795:+:ENST00000238738>chr2:46807492:+:L2a
11745	chr2:46803795:+>chr2:46807492:+	ORF1,chr2:46803795:+:ENST00000482449>chr2:46807492:+:L2a

11746	chr2:46803795:+>chr2:46807696:+	ORF1,chr2:46803795:+:ENST00000238738>chr2:46807696:+:L2a
11747	chr2:46803795:+>chr2:46807696:+	ORF1,chr2:46803795:+:ENST00000482449>chr2:46807696:+:L2a
11748	chr2:46803795:+>chr2:46807745:+	ORF1,chr2:46803795:+:ENST00000238738>chr2:46807745:+:L2a
11749	chr2:46803795:+>chr2:46807745:+	ORF1,chr2:46803795:+:ENST00000482449>chr2:46807745:+:L2a
11750	chr2:46803795:+>chr2:46807748:+	ORF1,chr2:46803795:+:ENST00000238738>chr2:46807748:+:L2a
11751	chr2:46803795:+>chr2:46807748:+	ORF1,chr2:46803795:+:ENST00000482449>chr2:46807748:+:L2a
11752	chr2:47177665:+>chr2:47177797:+	ORF1,chr2:47177665:+:ENST00000319190>chr2:47177797:+:MER33/ORF1,chr2:47177665:+:ENST00000536057>chr2:47177797:+:MER33/ORF1,chr2:47177665:+:ENST00000394850>chr2:47177797:+:MER33
11753	chr2:47177665:+>chr2:47177797:+	ORF1,chr2:47177665:+:ENST00000409245>chr2:47177797:+:MER33
11754	chr2:47177665:+>chr2:47177797:+	ORF1,chr2:47177665:+:ENST00000441914>chr2:47177797:+:MER33
11755	chr2:47177665:+>chr2:47177797:+	ORF1,chr2:47177665:+:ENST00000409825>chr2:47177797:+:MER33
11756	chr2:47206046:+>chr2:47209857:+	ORF1,chr2:47206046:+:ENST00000319190>chr2:47209857:+:AluJo/ORF1,chr2:47206046:+:ENST00000394850>chr2:47209857:+:AluJo
11757	chr2:47206046:+>chr2:47209857:+	ORF1,chr2:47206046:+:ENST00000409245>chr2:47209857:+:AluJo
11758	chr2:47206046:+>chr2:47209857:+	ORF1,chr2:47206046:+:ENST00000441914>chr2:47209857:+:AluJo
11759	chr2:47277185:+>chr2:47278140:+	ORF1,chr2:47277185:+:ENST00000394850>chr2:47278140:+:MER124
11760	chr2:47277185:+>chr2:47278140:+	ORF1,chr2:47277185:+:ENST00000319190>chr2:47278140:+:MER124
11761	chr2:47277185:+>chr2:47278140:+	ORF1,chr2:47277185:+:ENST00000263737>chr2:47278140:+:MER124
11762	chr2:47277185:+>chr2:47278140:+	ORF1,chr2:47277185:+:ENST00000409245>chr2:47278140:+:MER124
11763	chr2:54870266:+>chr2:54870844:+	ORF1,chr2:54870266:+:ENST00000333896>chr2:54870844:+:AluSz6
11764	chr2:54870266:+>chr2:54870844:+	ORF1,chr2:54870266:+:ENST00000356805>chr2:54870844:+:AluSz6

11765	chr2:55645952:-:chr2:55621376:-	ORF1,chr2:55645952:-:ENST00000336838>chr2:55621376:-:L1PA4/ORF1,chr2:55645952:-:ENST00000263630>chr2:55621376:-:L1PA4/ORF1,chr2:55645952:-:ENST00000436346>chr2:55621376:-:L1PA4/ORF1,chr2:55645952:-:ENST00000413716>chr2:55621376:-:L1PA4
11766	chr2:63058293:+:chr2:63082850:+	ORF1,chr2:63058293:+:ENST00000405015>chr2:63082850:+:MER52A/ORF1,chr2:63058293:+:ENST00000405482>chr2:63082850:+:MER52A/ORF1,chr2:63058293:+:ENST00000431489>chr2:63082850:+:MER52A/ORF1,chr2:63058293:+:ENST00000354487>chr2:63082850:+:MER52A/ORF1,chr2:63058293:+:ENST00000263991>chr2:63082850:+:MER52A/ORF1,chr2:63058293:+:ENST00000405289>chr2:63082850:+:MER52A
11767	chr2:63058293:+:chr2:63082850:+	ORF1,chr2:63058293:+:ENST00000449820>chr2:63082850:+:MER52A
11768	chr2:63206470:+:chr2:63208065:+	ORF1,chr2:63206470:+:ENST00000263991>chr2:63208065:+:AluJr
11769	chr2:63206470:+:chr2:63208065:+	ORF1,chr2:63206470:+:ENST00000405015>chr2:63208065:+:AluJr/ORF1,chr2:63206470:+:ENST00000431489>chr2:63208065:+:AluJr/ORF1,chr2:63206470:+:ENST00000354487>chr2:63208065:+:AluJr/ORF1,chr2:63206470:+:ENST00000405289>chr2:63208065:+:AluJr
11770	chr2:63206470:+:chr2:63208065:+	ORF1,chr2:63206470:+:ENST00000422032>chr2:63208065:+:AluJr
11771	chr2:63206470:+:chr2:63208065:+	ORF1,chr2:63206470:+:ENST00000444311>chr2:63208065:+:AluJr
11772	chr2:63815331:-:chr2:63798606:-	ORF1,chr2:63815331:-:ENST00000272321>chr2:63798606:-:L1MEf/ORF1,chr2:63815331:-:ENST00000409562>chr2:63798606:-:L1MEf/ORF1,chr2:63815331:-:ENST00000417238>chr2:63798606:-:L1MEf/ORF1,chr2:63815331:-:ENST00000431065>chr2:63798606:-:L1MEf
11773	chr2:63815331:-:chr2:63798606:-	ORF1,chr2:63815331:-:ENST00000418148>chr2:63798606:-:L1MEf
11774	chr2:65543868:-:chr2:65543085:-	ORF1,chr2:65543868:-:ENST00000452315>chr2:65543085:-:AluY
11775	chr2:65543868:-:chr2:65543085:-	ORF1,chr2:65543868:-:ENST00000443619>chr2:65543085:-:AluY
11776	chr2:65543868:-:chr2:65543085:-	ORF1,chr2:65543868:-:ENST00000356388>chr2:65543085:-:AluY
11777	chr2:69271945:+:chr2:69285971:+	ORF1,chr2:69271945:+:ENST00000303714>chr2:69285971:+:Tigger1/ORF1,chr2:69271945:+:ENST00000409829>chr2:69285971:+:Tigger1/ORF1,chr2:69271945:+:ENST00000409349>chr2:69285971:+:Tigger1
11778	chr2:69302790:+:chr2:69303857:+	ORF1,chr2:69302790:+:ENST00000303714>chr2:69303857:+:L1ME4a/ORF1,chr2:69302790:+:ENST00000409829>chr2:69303857:+:L1ME4a/ORF1,chr2:69302790:+:ENST00000409349>chr2:69303857:+:L1ME4a
11779	chr2:69302790:+:chr2:69303857:+	ORF1,chr2:69302790:+:ENST00000482235>chr2:69303857:+:L1ME4a
11780	chr2:69304620:+:chr2:69316484:+	ORF1,chr2:69304620:+:ENST00000303714>chr2:69316484:+:L4/ORF1,chr2:69304620:+:ENST00000409829>chr2:69316484:+:L4/ORF1,chr2:69304620:+:ENST00000409349>chr2:69316484:+:L4

11781	chr2:69304620:+>chr2:69316484:+	ORF1,chr2:69304620:+:ENST00000482235>chr2:69316484:+:L4
11782	chr2:69420547:+>chr2:69421525:+	ORF1,chr2:69420547:+:ENST00000303714>chr2:69421525:+:MIRb
11783	chr2:69420547:+>chr2:69490927:+	ORF1,chr2:69420547:+:ENST00000303714>chr2:69490927:+:ERV3-16A3_I-int
11784	chr2:69723117:->chr2:69676163:-	ORF1,chr2:69723117:-:ENST00000409085>chr2:69676163:-:LTR7/ORF1,chr2:69723117:-:ENST00000406297>chr2:69676163:-:LTR7
11785	chr2:69732701:->chr2:69676163:-	ORF1,chr2:69732701:-:ENST00000409085>chr2:69676163:-:LTR7/ORF1,chr2:69732701:-:ENST00000406297>chr2:69676163:-:LTR7
11786	chr2:69741603:->chr2:69737628:-	ORF1,chr2:69741603:-:ENST00000409068>chr2:69737628:-:L1PREC2/ORF1,chr2:69741603:-:ENST00000409085>chr2:69737628:-:L1PREC2/ORF1,chr2:69741603:-:ENST00000406297>chr2:69737628:-:L1PREC2
11787	chr2:70741991:->chr2:70730043:-	ORF1,chr2:70741991:-:ENST00000450929>chr2:70730043:-:MIR/ORF1,chr2:70741991:-:ENST00000444975>chr2:70730043:-:MIR
11788	chr2:70741991:->chr2:70730043:-	ORF1,chr2:70741991:-:ENST00000295400>chr2:70730043:-:MIR/ORF1,chr2:70741991:-:ENST00000445399>chr2:70730043:-:MIR/ORF1,chr2:70741991:-:ENST00000418333>chr2:70730043:-:MIR/ORF1,chr2:70741991:-:ENST00000394241>chr2:70730043:-:MIR
11789	chr2:7170346:+>chr2:7215725:+	ORF1,chr2:7170346:+:ENST00000320892>chr2:7215725:+:MSTC
11790	chr2:7170346:+>chr2:7215725:+	ORF1,chr2:7170346:+:ENST00000432850>chr2:7215725:+:MSTC
11791	chr2:7170346:+>chr2:7398547:+	ORF1,chr2:7170346:+:ENST00000320892>chr2:7398547:+:L1PA15-16
11792	chr2:7170346:+>chr2:7398547:+	ORF1,chr2:7170346:+:ENST00000432850>chr2:7398547:+:L1PA15-16
11793	chr2:85097349:->chr2:85070764:-	ORF1,chr2:85097349:-:ENST00000335459>chr2:85070764:-:MLT1A1/ORF1,chr2:85097349:-:ENST00000409520>chr2:85070764:-:MLT1A1/ORF1,chr2:85097349:-:ENST00000409133>chr2:85070764:-:MLT1A1
11794	chr2:85097349:->chr2:85080534:-	ORF1,chr2:85097349:-:ENST00000335459>chr2:85080534:-:THE1C/ORF1,chr2:85097349:-:ENST00000409520>chr2:85080534:-:THE1C/ORF1,chr2:85097349:-:ENST00000409133>chr2:85080534:-:THE1C
11795	chr2:85806290:+>chr2:85807491:+	ORF1,chr2:85806290:+:ENST00000263864>chr2:85807491:+:MER115/ORF1,chr2:85806290:+:ENST00000409760>chr2:85807491:+:MER115
11796	chr2:85806290:+>chr2:85807491:+	ORF1,chr2:85806290:+:ENST00000432071>chr2:85807491:+:MER115
11797	chr2:85806290:+>chr2:85807741:+	ORF1,chr2:85806290:+:ENST00000263864>chr2:85807741:+:MER115/ORF1,chr2:85806290:+:ENST00000409760>chr2:85807741:+:MER115

11798	chr2:85806290:+>chr2:85807741:+	ORF1,chr2:85806290:+:ENST00000432071>chr2:85807741:+:MER115
11799	chr2:89161398:->chr2:89130914:-	ORF1,chr2:89161398:-:ENST00000390242>chr2:89130914:-:LTR33A
11800	chr2:89544399:->chr2:89130914:-	ORF1,chr2:89544399:-:ENST00000468494>chr2:89130914:-:LTR33A
11801	chr2:89544493:->chr2:89130914:-	ORF1,chr2:89544493:-:ENST00000468494>chr2:89130914:-:LTR33A
11802	chr2:99137194:+>chr2:99137675:+	ORF1,chr2:99137194:+:ENST00000409016>chr2:99137675:+:MIRc/ORF1,chr2:99137194:+:ENST00000409851>chr2:99137675:+:MIRc/ORF1,chr2:99137194:+:ENST00000409463>chr2:99137675:+:MIRc/ORF1,chr2:99137194:+:ENST00000074304>chr2:99137675:+:MIRc/ORF1,chr2:99137194:+:ENST00000545415>chr2:99137675:+:MIRc/ORF1,chr2:99137194:+:ENST00000409540>chr2:99137675:+:MIRc/ORF1,chr2:99137194:+:ENST00000523221>chr2:99137675:+:MIRc
11803	chr20:17505493:->chr20:17498254:-	ORF1,chr20:17505493:-:ENST00000544874>chr20:17498254:-:MER33/ORF1,chr20:17505493:-:ENST00000536626>chr20:17498254:-:MER33
11804	chr20:17505493:->chr20:17498254:-	ORF1,chr20:17505493:-:ENST00000377868>chr20:17498254:-:MER33
11805	chr20:17505493:->chr20:17498254:-	ORF1,chr20:17505493:-:ENST00000377873>chr20:17498254:-:MER33
11806	chr20:17539333:->chr20:17526760:-	ORF1,chr20:17539333:-:ENST00000377868>chr20:17526760:-:THE1D
11807	chr20:17923754:->chr20:17923384:-	ORF1,chr20:17923754:-:ENST00000377759>chr20:17923384:-:L4/ORF1,chr20:17923754:-:ENST00000377768>chr20:17923384:-:L4
11808	chr20:24565629:+>chr20:24614241:+	ORF1,chr20:24565629:+:ENST00000376862>chr20:24614241:+:MER5A
11809	chr20:2969120:+>chr20:2979977:+	ORF1,chr20:2969120:+:ENST00000425918>chr20:2979977:+:L1ME3D
11810	chr20:2969120:+>chr20:2979977:+	ORF1,chr20:2969120:+:ENST00000455631>chr20:2979977:+:L1ME3D/ORF1,chr20:2969120:+:ENST00000216877>chr20:2979977:+:L1ME3D/ORF1,chr20:2969120:+:ENST00000318266>chr20:2979977:+:L1ME3D/ORF1,chr20:2969120:+:ENST00000356147>chr20:2979977:+:L1ME3D
11811	chr20:2969120:+>chr20:2979977:+	ORF1,chr20:2969120:+:ENST00000380393>chr20:2979977:+:L1ME3D/ORF1,chr20:2969120:+:ENST00000399903>chr20:2979977:+:L1ME3D
11812	chr20:2969120:+>chr20:2979977:+	ORF1,chr20:2969120:+:ENST00000358719>chr20:2979977:+:L1ME3D

11813	chr20:2988066:+>chr20:2988828:+	ORF1,chr20:2988066:+:ENST00000425918>chr20:2988828:+:L1MB3
11814	chr20:2988066:+>chr20:2988828:+	ORF1,chr20:2988066:+:ENST00000216877>chr20:2988828:+:L1MB3/ORF1,chr20:2988066:+:ENST00000318266>chr20:2988828:+:L1MB3/ORF1,chr20:2988066:+:ENST00000356147>chr20:2988828:+:L1MB3
11815	chr20:2988066:+>chr20:2988828:+	ORF1,chr20:2988066:+:ENST00000380393>chr20:2988828:+:L1MB3/ORF1,chr20:2988066:+:ENST00000399903>chr20:2988828:+:L1MB3
11816	chr20:2988066:+>chr20:2988828:+	ORF1,chr20:2988066:+:ENST00000358719>chr20:2988828:+:L1MB3
11817	chr20:2988066:+>chr20:2988846:+	ORF1,chr20:2988066:+:ENST00000425918>chr20:2988846:+:L1MB3
11818	chr20:2988066:+>chr20:2988846:+	ORF1,chr20:2988066:+:ENST00000216877>chr20:2988846:+:L1MB3/ORF1,chr20:2988066:+:ENST00000318266>chr20:2988846:+:L1MB3/ORF1,chr20:2988066:+:ENST00000356147>chr20:2988846:+:L1MB3
11819	chr20:2988066:+>chr20:2988846:+	ORF1,chr20:2988066:+:ENST00000380393>chr20:2988846:+:L1MB3/ORF1,chr20:2988066:+:ENST00000399903>chr20:2988846:+:L1MB3
11820	chr20:2988066:+>chr20:2988846:+	ORF1,chr20:2988066:+:ENST00000358719>chr20:2988846:+:L1MB3
11821	chr20:2988066:+>chr20:2988850:+	ORF1,chr20:2988066:+:ENST00000425918>chr20:2988850:+:L1MB3
11822	chr20:2988066:+>chr20:2988850:+	ORF1,chr20:2988066:+:ENST00000216877>chr20:2988850:+:L1MB3/ORF1,chr20:2988066:+:ENST00000318266>chr20:2988850:+:L1MB3/ORF1,chr20:2988066:+:ENST00000356147>chr20:2988850:+:L1MB3
11823	chr20:2988066:+>chr20:2988850:+	ORF1,chr20:2988066:+:ENST00000380393>chr20:2988850:+:L1MB3/ORF1,chr20:2988066:+:ENST00000399903>chr20:2988850:+:L1MB3
11824	chr20:2988066:+>chr20:2988850:+	ORF1,chr20:2988066:+:ENST00000358719>chr20:2988850:+:L1MB3
11825	chr20:3008487:+>chr20:3013475:+	ORF1,chr20:3008487:+:ENST00000425918>chr20:3013475:+:L2
11826	chr20:3008487:+>chr20:3013475:+	ORF1,chr20:3008487:+:ENST00000216877>chr20:3013475:+:L2/ORF1,chr20:3008487:+:ENST00000318266>chr20:3013475:+:L2/ORF1,chr20:3008487:+:ENST00000356147>chr20:3013475:+:L2
11827	chr20:3008487:+>chr20:3013475:+	ORF1,chr20:3008487:+:ENST00000380393>chr20:3013475:+:L2/ORF1,chr20:3008487:+:ENST00000399903>chr20:3013475:+:L2
11828	chr20:3008487:+>chr20:3013475:+	ORF1,chr20:3008487:+:ENST00000358719>chr20:3013475:+:L2
11829	chr20:30137924:+>chr20:30138371:+	ORF1,chr20:30137924:+:ENST00000335574>chr20:30138371:+:Tigger4b/ORF1,chr20:30137924:+:ENST00000340852>chr20:30138371:+:Tigger4b/ORF1,chr20:30137924:+:ENST00000398174>chr20:30138371:+:Tigger4b
11830	chr20:30137924:+>chr20:30138371:+	ORF1,chr20:30137924:+:ENST00000376127>chr20:30138371:+:Tigger4b/ORF1,chr20:30137924:+:ENST00000344042>chr20:30138371:+:Tigger4b
11831	chr20:30137924:+>chr20:30138541:+	ORF1,chr20:30137924:+:ENST00000335574>chr20:30138541:+:AluJr4/ORF1,chr20:30137924:+:ENST00000340852>chr20:30138541:+:AluJr4/ORF1,chr20:30137924:+:ENST00000398174>chr20:30138541:+:AluJr4

11832	chr20:30137924:+>chr20:30138541:+	ORF1,chr20:30137924:+:ENST00000376127>chr20:30138541:+:AluJr4/ORF1,chr20:30137924:+:ENST00000344042>chr20:30138541:+:AluJr4
11833	chr20:33001685:+>chr20:33009538:+	ORF1,chr20:33001685:+:ENST00000535650>chr20:33009538:+:AluJb
11834	chr20:33001685:+>chr20:33009538:+	ORF1,chr20:33001685:+:ENST00000374864>chr20:33009538:+:AluJb/ORF1,chr20:33001685:+:ENST00000262650>chr20:33009538:+:AluJb
11835	chr20:33842557:+>chr20:33843021:+	ORF1,chr20:33842557:+:ENST00000246186>chr20:33843021:+:AluSq2
11836	chr20:3584909:+>chr20:3586253:+	ORF1,chr20:3584909:+:ENST00000262919>chr20:3586253:+:L1PA11/ORF1,chr20:3584909:+:ENST00000446916>chr20:3586253:+:L1PA11
11837	chr20:36014577:+>chr20:36014814:+	ORF1,chr20:36014577:+:ENST00000445403>chr20:36014814:+:CT-rich/ORF1,chr20:36014577:+:ENST00000373578>chr20:36014814:+:CT-rich/ORF1,chr20:36014577:+:ENST00000358208>chr20:36014814:+:CT-rich/ORF1,chr20:36014577:+:ENST00000360723>chr20:36014814:+:CT-rich/ORF1,chr20:36014577:+:ENST00000373567>chr20:36014814:+:CT-rich/ORF1,chr20:36014577:+:ENST00000373558>chr20:36014814:+:CT-rich
11838	chr20:36775119:->chr20:36774762:-	ORF1,chr20:36775119:-:ENST00000536701>chr20:36774762:-:MIRb
11839	chr20:36775119:->chr20:36774762:-	ORF1,chr20:36775119:-:ENST00000361475>chr20:36774762:-:MIRb
11840	chr20:36775119:->chr20:36774762:-	ORF1,chr20:36775119:-:ENST00000536724>chr20:36774762:-:MIRb
11841	chr20:43280216:->chr20:43279852:-	ORF1,chr20:43280216:-:ENST00000372874>chr20:43279852:-:MIRb/ORF1,chr20:43280216:-:ENST00000536532>chr20:43279852:-:MIRb/ORF1,chr20:43280216:-:ENST00000537820>chr20:43279852:-:MIRb/ORF1,chr20:43280216:-:ENST00000539235>chr20:43279852:-:MIRb
11842	chr20:44751858:+>chr20:44752657:+	ORF1,chr20:44751858:+:ENST00000372285>chr20:44752657:+:AluSx1/ORF1,chr20:44751858:+:ENST00000372276>chr20:44752657:+:AluSx1
11843	chr20:44856147:->chr20:44854970:-	ORF1,chr20:44856147:-:ENST00000372262>chr20:44854970:-:AluJr/ORF1,chr20:44856147:-:ENST00000537909>chr20:44854970:-:AluJr
11844	chr20:47282821:->chr20:47281107:-	ORF1,chr20:47282821:-:ENST00000371941>chr20:47281107:-:L2a/ORF1,chr20:47282821:-:ENST00000396220>chr20:47281107:-:L2a
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11846	chr20:47361562:->chr20:47360660:-	ORF1,chr20:47361562:-:ENST00000371941>chr20:47360660:-:MER20/ORF1,chr20:47361562:-:ENST00000396220>chr20:47360660:-:MER20

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11849	chr20:48545 82:->chr20:4853 699:-	ORF1,chr20:4854582:-:ENST00000338244>chr20:4853699:-:AluSx1/ORF1,chr20:4854582:-:ENST00000379333>chr20:4853699:-:AluSx1
11850	chr20:48545 82:->chr20:4853 699:-	ORF1,chr20:4854582:-:ENST00000424750>chr20:4853699:-:AluSx1
11851	chr20:48545 82:->chr20:4853 699:-	ORF1,chr20:4854582:-:ENST00000423430>chr20:4853699:-:AluSx1
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11853	chr20:56918855:+>chr20:56921961:+	ORF1,chr20:56918855:+:ENST00000244040>chr20:56921961:+:L2c
11854	chr20:56918855:+>chr20:56922040:+	ORF1,chr20:56918855:+:ENST00000244040>chr20:56922040:+:L2c
11855	chr20:58577921:+>chr20:58579540:+	ORF1,chr20:58577921:+:ENST00000348616>chr20:58579540:+:AluY
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11858	chr20:60847315:+>chr20:60847807:+	ORF1,chr20:60847315:+:ENST00000358053>chr20:60847807:+:AluJr
11859	chr20:60847315:+>chr20:60847807:+	ORF1,chr20:60847315:+:ENST00000313733>chr20:60847807:+:AluJr
11860	chr20:60847315:+>chr20:60847807:+	ORF1,chr20:60847315:+:ENST00000439951>chr20:60847807:+:AluJr
11861	chr20:60859225:+>chr20:60861393:+	ORF1,chr20:60859225:+:ENST00000358053>chr20:60861393:+:AluSx1
11862	chr20:60859225:+>chr20:60861393:+	ORF1,chr20:60859225:+:ENST00000313733>chr20:60861393:+:AluSx1
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11864	chr20:61300430:+>chr20:61301303:+	ORF1,chr20:61300430:+:ENST00000217159>chr20:61301303:+:Tigger7/ORF1,chr20:61300430:+:ENST00000370507>chr20:61301303:+:Tigger7
11865	chr20:61300430:+>chr20:61301303:+	ORF1,chr20:61300430:+:ENST00000451793>chr20:61301303:+:Tigger7
11866	chr20:61300430:+>chr20:61301432:+	ORF1,chr20:61300430:+:ENST00000217159>chr20:61301432:+:Tigger7/ORF1,chr20:61300430:+:ENST00000370507>chr20:61301432:+:Tigger7
11867	chr20:61300430:+>chr20:61301432:+	ORF1,chr20:61300430:+:ENST00000451793>chr20:61301432:+:Tigger7
11868	chr20:61300430:+>chr20:61303808:+	ORF1,chr20:61300430:+:ENST00000217159>chr20:61303808:+:MER2/ORF1,chr20:61300430:+:ENST00000370507>chr20:61303808:+:MER2
11869	chr20:61300430:+>chr20:61303808:+	ORF1,chr20:61300430:+:ENST00000451793>chr20:61303808:+:MER2
11870	chr20:61300430:+>chr20:61306199:+	ORF1,chr20:61300430:+:ENST00000217159>chr20:61306199:+:MLT1A/ORF1,chr20:61300430:+:ENST00000370507>chr20:61306199:+:MLT1A
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11872	chr20:61341273:+>chr20:61368272:+	ORF1,chr20:61341273:+:ENST00000370501>chr20:61368272:+:THE1D
11873	chr20:61389708:+>chr20:61390721:+	ORF1,chr20:61389708:+:ENST00000370501>chr20:61390721:+:L3
11874	chr20:742345:->chr20:734008:-	ORF1,chr20:742345:-:ENST00000217254>chr20:734008:-:MLT1J/ORF1,chr20:742345:-:ENST00000381944>chr20:734008:-:MLT1J
11875	chr21:15524894:->chr21:15522497:-	ORF1,chr21:15524894:-:ENST00000344577>chr21:15522497:-:THE1C-int
11876	chr21:15524894:->chr21:15522497:-	ORF1,chr21:15524894:-:ENST00000536861>chr21:15522497:-:THE1C-int
11877	chr21:18937929:+>chr21:19005467:+	ORF1,chr21:18937929:+:ENST00000400165>chr21:19005467:+:LTR48
11878	chr21:18937929:+>chr21:19005467:+	ORF1,chr21:18937929:+:ENST00000306618>chr21:19005467:+:LTR48
11879	chr21:18937929:+>chr21:19005467:+	ORF1,chr21:18937929:+:ENST00000284878>chr21:19005467:+:LTR48/ORF1,chr21:18937929:+:ENST00000400169>chr21:19005467:+:LTR48
11880	chr21:18937929:+>chr21:19005467:+	ORF1,chr21:18937929:+:ENST00000400166>chr21:19005467:+:LTR48
11881	chr21:22370936:+>chr21:22582860:+	ORF1,chr21:22370936:+:ENST00000400546>chr21:22582860:+:L4/ORF1,chr21:22370936:+:ENST00000284894>chr21:22582860:+:L4

11882	chr21:22746333:+>chr21:22768365:+	ORF1,chr21:22746333:+:ENST00000400546>chr21:22768365:+:L1PB1
11883	chr21:22746333:+>chr21:22768365:+	ORF1,chr21:22746333:+:ENST00000284894>chr21:22768365:+:L1PB1
11884	chr21:22746333:+>chr21:22768365:+	ORF1,chr21:22746333:+:ENST00000535285>chr21:22768365:+:L1PB1
11885	chr21:22746333:+>chr21:22774169:+	ORF1,chr21:22746333:+:ENST00000400546>chr21:22774169:+:MER11A
11886	chr21:22746333:+>chr21:22774169:+	ORF1,chr21:22746333:+:ENST00000284894>chr21:22774169:+:MER11A
11887	chr21:22746333:+>chr21:22774169:+	ORF1,chr21:22746333:+:ENST00000535285>chr21:22774169:+:MER11A
11888	chr21:27394156:->chr21:27377399:-	ORF1,chr21:27394156:-:ENST00000440126>chr21:27377399:-:L1PA6
11889	chr21:27394156:->chr21:27377399:-	ORF1,chr21:27394156:-:ENST00000448388>chr21:27377399:-:L1PA6
11890	chr21:27394156:->chr21:27377399:-	ORF1,chr21:27394156:-:ENST00000346798>chr21:27377399:-:L1PA6/ORF1,chr21:27394156:-:ENST00000348990>chr21:27377399:-:L1PA6/ORF1,chr21:27394156:-:ENST00000357903>chr21:27377399:-:L1PA6/ORF1,chr21:27394156:-:ENST00000358918>chr21:27377399:-:L1PA6/ORF1,chr21:27394156:-:ENST00000359726>chr21:27377399:-:L1PA6
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11892	chr21:27394156:->chr21:27377399:-	ORF1,chr21:27394156:-:ENST00000415997>chr21:27377399:-:L1PA6
11893	chr21:27394156:->chr21:27377399:-	ORF1,chr21:27394156:-:ENST00000448850>chr21:27377399:-:L1PA6
11894	chr21:27423316:->chr21:27403857:-	ORF1,chr21:27423316:-:ENST00000440126>chr21:27403857:-:THE1A
11895	chr21:27423316:->chr21:27403857:-	ORF1,chr21:27423316:-:ENST00000448388>chr21:27403857:-:THE1A
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11897	chr21:27423316:->chr21:27403857:-	ORF1,chr21:27423316:-:ENST00000354192>chr21:27403857:-:THE1A/ORF1,chr21:27423316:-:ENST00000439274>chr21:27403857:-:THE1A
11898	chr21:27423316:->chr21:27403857:-	ORF1,chr21:27423316:-:ENST00000415997>chr21:27403857:-:THE1A
11899	chr21:27423316:->chr21:27403857:-	ORF1,chr21:27423316:-:ENST00000448850>chr21:27403857:-:THE1A
11900	chr21:34717666:+>chr21:34720868:+	ORF1,chr21:34717666:+:ENST00000416947>chr21:34720868:+:AluSx
11901	chr21:34717666:+>chr21:34720868:+	ORF1,chr21:34717666:+:ENST00000270139>chr21:34720868:+:AluSx/ORF1,chr21:34717666:+:ENST00000442357>chr21:34720868:+:AluSx
11902	chr21:42540502:+>chr21:42582450:+	ORF1,chr21:42540502:+:ENST00000328735>chr21:42582450:+:MER49/ORF1,chr21:42540502:+:ENST00000330333>chr21:42582450:+:MER49/ORF1,chr21:42540502:+:ENST00000347667>chr21:42582450:+:MER49
11903	chr21:42540502:+>chr21:42582453:+	ORF1,chr21:42540502:+:ENST00000328735>chr21:42582453:+:MER49/ORF1,chr21:42540502:+:ENST00000330333>chr21:42582453:+:MER49/ORF1,chr21:42540502:+:ENST00000347667>chr21:42582453:+:MER49
11904	chr21:42622828:+>chr21:42628789:+	ORF1,chr21:42622828:+:ENST00000328735>chr21:42628789:+:MER4E/ORF1,chr21:42622828:+:ENST00000330333>chr21:42628789:+:MER4E
11905	chr21:45649937:->chr21:45638127:-	ORF1,chr21:45649937:-:ENST00000400377>chr21:45638127:-:LTR38C
11906	chr21:45649937:->chr21:45638127:-	ORF1,chr21:45649937:-:ENST00000344330>chr21:45638127:-:LTR38C/ORF1,chr21:45649937:-:ENST00000407780>chr21:45638127:-:LTR38C/ORF1,chr21:45649937:-:ENST00000400379>chr21:45638127:-:LTR38C
11907	chr21:45799080:+>chr21:45800717:+	ORF1,chr21:45799080:+:ENST00000300482>chr21:45800717:+:MIRc/ORF1,chr21:45799080:+:ENST00000397928>chr21:45800717:+:MIRc/ORF1,chr21:45799080:+:ENST00000397932>chr21:45800717:+:MIRc/ORF1,chr21:45799080:+:ENST00000300481>chr21:45800717:+:MIRc
11908	chr21:45802703:+>chr21:45806617:+	ORF1,chr21:45802703:+:ENST00000300482>chr21:45806617:+:L1MB3/ORF1,chr21:45802703:+:ENST00000397928>chr21:45806617:+:L1MB3/ORF1,chr21:45802703:+:ENST00000397932>chr21:45806617:+:L1MB3/ORF1,chr21:45802703:+:ENST00000300481>chr21:45806617:+:L1MB3
11909	chr21:47965874:+>chr21:47966273:+	ORF1,chr21:47965874:+:ENST00000427143>chr21:47966273:+:MER20
11910	chr21:47965874:+>chr21:47966273:+	ORF1,chr21:47965874:+:ENST00000318711>chr21:47966273:+:MER20
11911	chr21:47965874:+>chr21:47966273:+	ORF1,chr21:47965874:+:ENST00000400274>chr21:47966273:+:MER20
11912	chr21:47965874:+>chr21:47966273:+	ORF1,chr21:47965874:+:ENST00000457905>chr21:47966273:+:MER20/ORF1,chr21:47965874:+:ENST00000435722>chr21:47966273:+:MER20/ORF1,chr21:47965874:+:ENST00000417564>chr21:47966273:+:MER20
11913	chr21:47965874:+>chr21:47966273:+	ORF1,chr21:47965874:+:ENST00000466639>chr21:47966273:+:MER20

11914	chr22:21096516:->chr22:21090879:-	ORF1,chr22:21096516:-:ENST00000255882>chr22:21090879:-:L2b
11915	chr22:21096516:->chr22:21090879:-	ORF1,chr22:21096516:-:ENST00000572273>chr22:21090879:-:L2b
11916	chr22:25019883:+>chr22:25023093:+	ORF1,chr22:25019883:+:ENST00000248923>chr22:25023093:+:L2b/ORF1,chr22:25019883:+:ENST00000412658>chr22:25023093:+:L2b/ORF1,chr22:25019883:+:ENST00000400382>chr22:25023093:+:L2b/ORF1,chr22:25019883:+:ENST00000400383>chr22:25023093:+:L2b/ORF1,chr22:25019883:+:ENST00000400380>chr22:25023093:+:L2b/ORF1,chr22:25019883:+:ENST00000406383>chr22:25023093:+:L2b/ORF1,chr22:25019883:+:ENST00000425895>chr22:25023093:+:L2b
11917	chr22:37705364:+>chr22:37706656:+	ORF1,chr22:37705364:+:ENST00000248901>chr22:37706656:+:MIR
11918	chr3:10426952:->chr3:10422619:-	ORF1,chr3:10426952:-:ENST00000352432>chr3:10422619:-:MIRc/ORF1,chr3:10426952:-:ENST00000343816>chr3:10422619:-:MIRc/ORF1,chr3:10426952:-:ENST00000360273>chr3:10422619:-:MIRc
11919	chr3:105271429:+>chr3:105289274:+	ORF1,chr3:105271429:+:ENST00000389927>chr3:105289274:+:L1MEg2
11920	chr3:105271429:+>chr3:105289274:+	ORF1,chr3:105271429:+:ENST00000306107>chr3:105289274:+:L1MEg2
11921	chr3:105271429:+>chr3:105289274:+	ORF1,chr3:105271429:+:ENST00000472644>chr3:105289274:+:L1MEg2
11922	chr3:105271429:+>chr3:105289274:+	ORF1,chr3:105271429:+:ENST00000486979>chr3:105289274:+:L1MEg2
11923	chr3:105271429:+>chr3:105289274:+	ORF1,chr3:105271429:+:ENST00000465413>chr3:105289274:+:L1MEg2
11924	chr3:113601679:+>chr3:113603390:+	ORF1,chr3:113601679:+:ENST00000472384>chr3:113603390:+:L1M4c
11925	chr3:113601679:+>chr3:113603390:+	ORF1,chr3:113601679:+:ENST00000358160>chr3:113603390:+:L1M4c
11926	chr3:115738362:->chr3:115737835:-	ORF1,chr3:115738362:-:ENST00000474851>chr3:115737835:-:L4
11927	chr3:115738362:->chr3:115737835:-	ORF1,chr3:115738362:-:ENST00000333617>chr3:115737835:-:L4
11928	chr3:115738362:->chr3:115737835:-	ORF1,chr3:115738362:-:ENST00000539563>chr3:115737835:-:L4
11929	chr3:115738362:->chr3:115737835:-	ORF1,chr3:115738362:-:ENST00000490035>chr3:115737835:-:L4

11930	chr3:119962487:->chr3:119951917:-	ORF1,chr3:119962487:-:ENST00000495912>chr3:119951917:-:L1ME1/ORF1,chr3:119962487:-:ENST00000315843>chr3:119951917:-:L1ME1/ORF1,chr3:119962487:-:ENST00000464295>chr3:119951917:-:L1ME1/ORF1,chr3:119962487:-:ENST00000461057>chr3:119951917:-:L1ME1
11931	chr3:120840551:+>chr3:120866822:+	ORF1,chr3:120840551:+:ENST00000273666>chr3:120866822:+:MLT2B4/ORF1,chr3:120840551:+:ENST00000471454>chr3:120866822:+:MLT2B4/ORF1,chr3:120840551:+:ENST00000472879>chr3:120866822:+:MLT2B4/ORF1,chr3:120840551:+:ENST00000492541>chr3:120866822:+:MLT2B4/ORF1,chr3:120840551:+:ENST00000497029>chr3:120866822:+:MLT2B4/ORF1,chr3:120840551:+:ENST00000471262>chr3:120866822:+:MLT2B4
11932	chr3:121774350:+>chr3:121778695:+	ORF1,chr3:121774350:+:ENST00000493101>chr3:121778695:+:MLT1B/ORF1,chr3:121774350:+:ENST00000264468>chr3:121778695:+:MLT1B/ORF1,chr3:121774350:+:ENST00000330540>chr3:121778695:+:MLT1B
11933	chr3:123038521:->chr3:123037265:-	ORF1,chr3:123038521:-:ENST00000491190>chr3:123037265:-:MIRb
11934	chr3:123038521:->chr3:123037265:-	ORF1,chr3:123038521:-:ENST00000466617>chr3:123037265:-:MIRb
11935	chr3:123038521:->chr3:123037265:-	ORF1,chr3:123038521:-:ENST00000309879>chr3:123037265:-:MIRb
11936	chr3:123038521:->chr3:123037265:-	ORF1,chr3:123038521:-:ENST00000462833>chr3:123037265:-:MIRb
11937	chr3:125745178:->chr3:125743748:-	ORF1,chr3:125745178:-:ENST00000346785>chr3:125743748:-:L2a
11938	chr3:125745178:->chr3:125743748:-	ORF1,chr3:125745178:-:ENST00000513723>chr3:125743748:-:L2a
11939	chr3:125745178:->chr3:125743748:-	ORF1,chr3:125745178:-:ENST00000360370>chr3:125743748:-:L2a/ORF1,chr3:125745178:-:ENST00000315891>chr3:125743748:-:L2a/ORF1,chr3:125745178:-:ENST00000512470>chr3:125743748:-:L2a
11940	chr3:125745178:->chr3:125743748:-	ORF1,chr3:125745178:-:ENST00000514677>chr3:125743748:-:L2a
11941	chr3:125745178:->chr3:125743748:-	ORF1,chr3:125745178:-:ENST00000508835>chr3:125743748:-:L2a
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11966	chr3:195453443:+>chr3:195453990:+	ORF1,chr3:195453443:+:ENST00000445522>chr3:195453990:+:AluSx1
11967	chr3:195453443:+>chr3:195453990:+	ORF1,chr3:195453443:+:ENST00000423938>chr3:195453990:+:AluSx1
11968	chr3:195456610:+>chr3:195464079:+	ORF1,chr3:195456610:+:ENST00000447234>chr3:195464079:+:L2c/ORF1,chr3:195456610:+:ENST00000436408>chr3:195464079:+:L2c
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11974	chr3:195456610:+>chr3:195522371:+	ORF1,chr3:195456610:+:ENST00000445522>chr3:195522371:+:L1MEd
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11983	chr3:195785155:->chr3:195782922:-	ORF1,chr3:195785155:-:ENST00000420415>chr3:195782922:-:FRAM
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11985	chr3:195798267:->chr3:195798015:-	ORF1,chr3:195798267:-:ENST00000420415>chr3:195798015:-:L2a
11986	chr3:195798267:->chr3:195798015:-	ORF1,chr3:195798267:-:ENST00000360110>chr3:195798015:-:L2a/ORF1,chr3:195798267:-:ENST00000392396>chr3:195798015:-:L2a

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11990	chr3:195798874:->chr3:195798058:-	ORF1,chr3:195798874:-:ENST00000360110>chr3:195798058:-:L2a/ORF1,chr3:195798874:-:ENST00000392396>chr3:195798058:-:L2a
11991	chr3:196381518:+>chr3:196385589:+	ORF1,chr3:196381518:+:ENST00000328557>chr3:196385589:+:AluSx
11992	chr3:196537524:+>chr3:196538660:+	ORF1,chr3:196537524:+:ENST00000327134>chr3:196538660:+:L1ME3C
11993	chr3:196743060:->chr3:196742765:-	ORF1,chr3:196743060:-:ENST00000296350>chr3:196742765:-:L2
11994	chr3:196802708:->chr3:196801113:-	ORF1,chr3:196802708:-:ENST00000452595>chr3:196801113:-:L3/ORF1,chr3:196802708:-:ENST00000443183>chr3:196801113:-:L3
11995	chr3:196802708:->chr3:196801113:-	ORF1,chr3:196802708:-:ENST00000392382>chr3:196801113:-:L3
11996	chr3:196802708:->chr3:196801113:-	ORF1,chr3:196802708:-:ENST00000419354>chr3:196801113:-:L3/ORF1,chr3:196802708:-:ENST00000448528>chr3:196801113:-:L3
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12001	chr3:20019895:+>chr3:20024715:+	ORF1,chr3:20019895:+:ENST00000422242>chr3:20024715:+:AluSx

12002	chr3:20019895:+>chr3:20044717:+	ORF1,chr3:20019895:+:ENST00000273047>chr3:20044717:+:Tigger3b
12003	chr3:20019895:+>chr3:20044717:+	ORF1,chr3:20019895:+:ENST00000422242>chr3:20044717:+:Tigger3b
12004	chr3:32180219:+>chr3:32180994:+	ORF1,chr3:32180219:+:ENST00000282541>chr3:32180994:+:Charlie4a
12005	chr3:32180219:+>chr3:32180994:+	ORF1,chr3:32180219:+:ENST00000428684>chr3:32180994:+:Charlie4a
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12007	chr3:32201166:+>chr3:32206593:+	ORF1,chr3:32201166:+:ENST00000282541>chr3:32206593:+:AluSg
12008	chr3:33661095:-> chr3:33659738:-	ORF1,chr3:33661095:-:ENST00000480013>chr3:33659738:-:AluSp/ORF1,chr3:33661095:-:ENST00000461133>chr3:33659738:-:AluSp
12009	chr3:33661095:-> chr3:33659738:-	ORF1,chr3:33661095:-:ENST00000468888>chr3:33659738:-:AluSp
12010	chr3:33661095:-> chr3:33659738:-	ORF1,chr3:33661095:-:ENST00000399362>chr3:33659738:-:AluSp/ORF1,chr3:33661095:-:ENST00000359576>chr3:33659738:-:AluSp
12011	chr3:33661095:-> chr3:33659738:-	ORF1,chr3:33661095:-:ENST00000333778>chr3:33659738:-:AluSp
12012	chr3:33661095:-> chr3:33659738:-	ORF1,chr3:33661095:-:ENST00000539981>chr3:33659738:-:AluSp
12013	chr3:33661095:-> chr3:33659738:-	ORF1,chr3:33661095:-:ENST00000313350>chr3:33659738:-:AluSp/ORF1,chr3:33661095:-:ENST00000487200>chr3:33659738:-:AluSp/ORF1,chr3:33661095:-:ENST00000485378>chr3:33659738:-:AluSp
12014	chr3:36422246:+>chr3:36495761:+	ORF1,chr3:36422246:+:ENST00000273183>chr3:36495761:+:LTR12C/ORF1,chr3:36422246:+:ENST00000457375>chr3:36495761:+:LTR12C/ORF1,chr3:36422246:+:ENST00000427486>chr3:36495761:+:LTR12C/ORF1,chr3:36422246:+:ENST00000434649>chr3:36495761:+:LTR12C
12015	chr3:36485132:+>chr3:36495753:+	ORF1,chr3:36485132:+:ENST00000273183>chr3:36495753:+:LTR12C/ORF1,chr3:36485132:+:ENST00000457375>chr3:36495753:+:LTR12C
12016	chr3:36485132:+>chr3:36495753:+	ORF1,chr3:36485132:+:ENST00000434649>chr3:36495753:+:LTR12C
12017	chr3:36485132:+>chr3:36495761:+	ORF1,chr3:36485132:+:ENST00000273183>chr3:36495761:+:LTR12C/ORF1,chr3:36485132:+:ENST00000457375>chr3:36495761:+:LTR12C
12018	chr3:36485132:+>chr3:36495761:+	ORF1,chr3:36485132:+:ENST00000434649>chr3:36495761:+:LTR12C

12019	chr3:39453491:+>chr3:39480368:+	ORF1,chr3:39453491:+:ENST00000301821>chr3:39480368:+:AluSz6/ORF1,chr3:39453491:+:ENST00000458478>chr3:39480368:+:AluSz6
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12021	chr3:39453832:+>chr3:39697048:+	ORF1,chr3:39453832:+:ENST00000301821>chr3:39697048:+:SVA_B
12022	chr3:39453832:+>chr3:39697048:+	ORF1,chr3:39453832:+:ENST00000443003>chr3:39697048:+:SVA_B
12023	chr3:42906351:+>chr3:42938530:+	ORF1,chr3:42906351:+:ENST00000442925>chr3:42938530:+:MER50-int/ORF1,chr3:42906351:+:ENST00000422265>chr3:42938530:+:MER50-int/ORF1,chr3:42906351:+:ENST00000497921>chr3:42938530:+:MER50-int/ORF1,chr3:42906351:+:ENST00000273145>chr3:42938530:+:MER50-int/ORF1,chr3:42906351:+:ENST00000492609>chr3:42938530:+:MER50-int/ORF1,chr3:42906351:+:ENST00000494619>chr3:42938530:+:MER50-int/ORF1,chr3:42906351:+:ENST00000493193>chr3:42938530:+:MER50-int
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12028	chr3:43591212:->chr3:43488892:-	ORF1,chr3:43591212:-:ENST00000350459>chr3:43488892:-:L1MC4a
12029	chr3:43591212:->chr3:43488892:-	ORF1,chr3:43591212:-:ENST00000451430>chr3:43488892:-:L1MC4a
12030	chr3:43591212:->chr3:43488892:-	ORF1,chr3:43591212:-:ENST00000448045>chr3:43488892:-:L1MC4a
12031	chr3:43591212:->chr3:43498923:-	ORF1,chr3:43591212:-:ENST00000396091>chr3:43498923:-:THE1D
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12033	chr3:43591212:->chr3:43498923:-	ORF1,chr3:43591212:-:ENST00000350459>chr3:43498923:-:THE1D

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12036	chr3:45132665:-:>chr3:45132083:-	ORF1,chr3:45132665:-:ENST00000296129>chr3:45132083:-:MIRb
12037	chr3:45755571:+>chr3:45756665:+	ORF1,chr3:45755571:+:ENST00000389061>chr3:45756665:+:Tigger3a
12038	chr3:45755571:+>chr3:45756665:+	ORF1,chr3:45755571:+:ENST00000455997>chr3:45756665:+:Tigger3a/ORF1,chr3:45755571:+:ENST00000418611>chr3:45756665:+:Tigger3a
12039	chr3:45755571:+>chr3:45756665:+	ORF1,chr3:45755571:+:ENST00000541314>chr3:45756665:+:Tigger3a
12040	chr3:49081823:-:>chr3:49080299:-	ORF1,chr3:49081823:-:ENST00000395443>chr3:49080299:-:AluSx1/ORF1,chr3:49081823:-:ENST00000357496>chr3:49080299:-:AluSx1/ORF1,chr3:49081823:-:ENST00000424300>chr3:49080299:-:AluSx1
12041	chr3:50356387:-:>chr3:50349850:-	ORF1,chr3:50356387:-:ENST00000447092>chr3:50349850:-:SVA_D/ORF1,chr3:50356387:-:ENST00000357750>chr3:50349850:-:SVA_D/ORF1,chr3:50356387:-:ENST00000395139>chr3:50349850:-:SVA_D/ORF1,chr3:50356387:-:ENST00000442581>chr3:50349850:-:SVA_D
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12113	chr4:154533552:+>chr4:154534436:+	ORF1,chr4:154533552:+:ENST00000240487>chr4:154534436:+:HAL1b
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12116	chr4:15724557:+>chr4:15775730:+	ORF1,chr4:15724557:+:ENST00000382346>chr4:15775730:+:MLT1B
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12121	chr4:183652292:+>chr4:183657537:+	ORF1,chr4:183652292:+:ENST00000511685>chr4:183657537:+:MamSINE1/ORF1,chr4:183652292:+:ENST00000406950>chr4:183657537:+:MamSINE1
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12126	chr4:25270825:+>chr4:25281941:+	ORF1,chr4:25270825:+:ENST00000512921>chr4:25281941:+:MLT1J2
12127	chr4:2886393:+>chr4:2888303:+	ORF1,chr4:2886393:+:ENST00000264758>chr4:2888303:+:L2a/ORF1,chr4:2886393:+:ENST00000446856>chr4:2888303:+:L2a/ORF1,chr4:2886393:+:ENST00000398125>chr4:2888303:+:L2a/ORF1,chr4:2886393:+:ENST00000513328>chr4:2888303:+:L2a/ORF1,chr4:2886393:+:ENST00000503455>chr4:2888303:+:L2a/ORF1,chr4:2886393:+:ENST00000355842>chr4:2888303:+:L2a/ORF1,chr4:2886393:+:ENST00000398123>chr4:2888303:+:L2a/ORF1,chr4:2886393:+:ENST00000398129>chr4:2888303:+:L2a
12128	chr4:3475363:+>chr4:3476126:+	ORF1,chr4:3475363:+:ENST00000389653>chr4:3476126:+:AluJb/ORF1,chr4:3475363:+:ENST00000340083>chr4:3476126:+:AluJb/ORF1,chr4:3475363:+:ENST00000507039>chr4:3476126:+:AluJb
12129	chr4:39409394:+>chr4:39414939:+	ORF1,chr4:39409394:+:ENST00000257408>chr4:39414939:+:Charlie21a
12130	chr4:40339381:+>chr4:40343815:+	ORF1,chr4:40339381:+:ENST00000310169>chr4:40343815:+:MER51A
12131	chr4:40351431:+>chr4:40351856:+	ORF1,chr4:40351431:+:ENST00000310169>chr4:40351856:+:MER5A
12132	chr4:47163486:+>chr4:47168375:+	ORF1,chr4:47163486:+:ENST00000538619>chr4:47168375:+:Tigger2
12133	chr4:47163486:+>chr4:47168375:+	ORF1,chr4:47163486:+:ENST00000295454>chr4:47168375:+:Tigger2

12134	chr4:48073534:->chr4:48060000:-	ORF1,chr4:48073534:-:ENST00000507351>chr4:48060000:-:Charlie4a
12135	chr4:48073534:->chr4:48060000:-	ORF1,chr4:48073534:-:ENST00000264316>chr4:48060000:-:Charlie4a
12136	chr4:57211000:+>chr4:57266215:+	ORF1,chr4:5721100:+:ENST00000264956>chr4:5726215:+:MIR/ORF1,chr4:5721100:+:ENST00000382674>chr4:5726215:+:MIR/ORF1,chr4:5721100:+:ENST00000509451>chr4:5726215:+:MIR
12137	chr4:57435411:+>chr4:57439914:+	ORF1,chr4:5743541:+:ENST00000264956>chr4:5743914:+:MIRb/ORF1,chr4:5743541:+:ENST00000382674>chr4:5743914:+:MIRb/ORF1,chr4:5743541:+:ENST00000509451>chr4:5743914:+:MIRb
12138	chr4:57854911:+>chr4:57855935:+	ORF1,chr4:5785491:+:ENST00000264956>chr4:5785935:+:MLT1D/ORF1,chr4:5785491:+:ENST00000382674>chr4:5785935:+:MLT1D
12139	chr4:57854911:+>chr4:57859128:+	ORF1,chr4:5785491:+:ENST00000264956>chr4:5789128:+:MLT1D/ORF1,chr4:5785491:+:ENST00000382674>chr4:5789128:+:MLT1D
12140	chr4:57854911:+>chr4:57944407:+	ORF1,chr4:5785491:+:ENST00000264956>chr4:5794407:+:L1MEe/ORF1,chr4:5785491:+:ENST00000382674>chr4:5794407:+:L1MEe
12141	chr4:66467359:->chr4:66464265:-	ORF1,chr4:66467359:-:ENST00000273854>chr4:66464265:-:L2c/ORF1,chr4:66467359:-:ENST00000432638>chr4:66464265:-:L2c/ORF1,chr4:66467359:-:ENST00000354839>chr4:66464265:-:L2c/ORF1,chr4:66467359:-:ENST00000511294>chr4:66464265:-:L2c
12142	chr4:72897917:+>chr4:72934630:+	ORF1,chr4:72897917:+:ENST00000308744>chr4:72934630:+:MIR/ORF1,chr4:72897917:+:ENST00000344413>chr4:72934630:+:MIR
12143	chr4:75333356:+>chr4:76255573:+	ORF1,chr4:7533356:+:ENST00000507866>chr4:7625573:+:L2c
12144	chr4:75333356:+>chr4:76255573:+	ORF1,chr4:7533356:+:ENST00000329016>chr4:7625573:+:L2c
12145	chr4:75333356:+>chr4:76255588:+	ORF1,chr4:7533356:+:ENST00000507866>chr4:7625588:+:L2c
12146	chr4:75333356:+>chr4:76255588:+	ORF1,chr4:7533356:+:ENST00000329016>chr4:7625588:+:L2c
12147	chr4:75333356:+>chr4:76366577:+	ORF1,chr4:7533356:+:ENST00000507866>chr4:7636577:+:L1MC3
12148	chr4:75333356:+>chr4:76366577:+	ORF1,chr4:7533356:+:ENST00000329016>chr4:7636577:+:L1MC3
12149	chr4:76997111:+>chr4:77000080:+	ORF1,chr4:76997111:+:ENST00000513353>chr4:77000080:+:AluY/ORF1,chr4:76997111:+:ENST00000341029>chr4:77000080:+:AluY/ORF1,chr4:76997111:+:ENST00000513122>chr4:77000080:+:AluY/ORF1,chr4:76997111:+:ENST00000504914>chr4:77000080:+:AluY/ORF1,chr4:76997111:+:ENST00000349321>chr4:77000080:+:AluY/ORF1,chr4:76997111:+:ENST00000355810>chr4:77000080:+:AluY/ORF1,chr4:76997111:+:ENST00000510423>chr4:77000080:+:AluY
12150	chr4:78987170:+>chr4:78988689:+	ORF1,chr4:78987170:+:ENST00000264899>chr4:78988689:+:Tigger13a/ORF1,chr4:78987170:+:ENST00000325942>chr4:78988689:+:Tigger13a/ORF1,chr4:78987170:+:ENST00000264895>chr4:78988689:+:Tigger13a/ORF1,chr4:78987170:+:ENST00000508909>chr4:78988689:+:Tigger13a

12151	chr4:78987170:+>chr4:78992465:+	ORF1,chr4:78987170:+:ENST00000264899>chr4:78992465:+:MIRb/ORF1,chr4:78987170:+:ENST00000325942>chr4:78992465:+:MIRb/ORF1,chr4:78987170:+:ENST00000264895>chr4:78992465:+:MIRb/ORF1,chr4:78987170:+:ENST00000508909>chr4:78992465:+:MIRb
12152	chr4:79240140:+>chr4:79251105:+	ORF1,chr4:79240140:+:ENST00000264899>chr4:79251105:+:HERVK11-int/ORF1,chr4:79240140:+:ENST00000325942>chr4:79251105:+:HERVK11-int/ORF1,chr4:79240140:+:ENST00000264895>chr4:79251105:+:HERVK11-int
12153	chr4:79240140:+>chr4:79251105:+	ORF1,chr4:79240140:+:ENST00000508900>chr4:79251105:+:HERVK11-int
12154	chr4:79240140:+>chr4:79251105:+	ORF1,chr4:79240140:+:ENST00000502446>chr4:79251105:+:HERVK11-int
12155	chr4:79258971:+>chr4:79264184:+	ORF1,chr4:79258971:+:ENST00000325942>chr4:79264184:+:MER103C/ORF1,chr4:79258971:+:ENST00000264895>chr4:79264184:+:MER103C
12156	chr4:79258971:+>chr4:79264184:+	ORF1,chr4:79258971:+:ENST00000508900>chr4:79264184:+:MER103C
12157	chr4:79258971:+>chr4:79264311:+	ORF1,chr4:79258971:+:ENST00000325942>chr4:79264311:+:MER103C/ORF1,chr4:79258971:+:ENST00000264895>chr4:79264311:+:MER103C
12158	chr4:79258971:+>chr4:79264311:+	ORF1,chr4:79258971:+:ENST00000508900>chr4:79264311:+:MER103C
12159	chr4:79308855:+>chr4:79309817:+	ORF1,chr4:79308855:+:ENST00000325942>chr4:79309817:+:AluJb/ORF1,chr4:79308855:+:ENST00000264895>chr4:79309817:+:AluJb
12160	chr4:843680:->chr4:840510:-	ORF1,chr4:843680:-:ENST00000314167>chr4:840510:-:L1ME1
12161	chr4:843680:->chr4:840510:-	ORF1,chr4:843680:-:ENST00000511163>chr4:840510:-:L1ME1
12162	chr4:843680:->chr4:840510:-	ORF1,chr4:843680:-:ENST00000511980>chr4:840510:-:L1ME1
12163	chr4:875695:->chr4:873486:-	ORF1,chr4:875695:-:ENST00000314167>chr4:873486:-:L1MEc
12164	chr4:875695:->chr4:873486:-	ORF1,chr4:875695:-:ENST00000511163>chr4:873486:-:L1MEc
12165	chr4:88940723:+>chr4:88952237:+	ORF1,chr4:88940723:+:ENST00000237596>chr4:88952237:+:MER47B
12166	chr4:93511437:+>chr4:93512232:+	ORF1,chr4:93511437:+:ENST00000282020>chr4:93512232:+:MLT1A0/ORF1,chr4:93511437:+:ENST00000510992>chr4:93512232:+:MLT1A0
12167	chr4:96469885:->chr4:96436122:-	ORF1,chr4:96469885:-:ENST00000453304>chr4:96436122:-:AluSx3/ORF1,chr4:96469885:-:ENST00000513796>chr4:96436122:-:AluSx3/ORF1,chr4:96469885:-:ENST00000506749>chr4:96436122:-:AluSx3/ORF1,chr4:96469885:-:ENST00000504962>chr4:96436122:-:AluSx3

12168	chr4:98280444:->chr4:9800862:-	ORF1,chr4:9828044:-:ENST00000264784>chr4:9800862:-:MLT1A0
12169	chr4:98280444:->chr4:9800862:-	ORF1,chr4:9828044:-:ENST00000506583>chr4:9800862:-:MLT1A0/ORF1,chr4:9828044:-:ENST00000309065>chr4:9800862:-:MLT1A0
12170	chr4:98280444:->chr4:9800865:-	ORF1,chr4:9828044:-:ENST00000264784>chr4:9800865:-:MLT1A0
12171	chr4:98280444:->chr4:9800865:-	ORF1,chr4:9828044:-:ENST00000506583>chr4:9800865:-:MLT1A0/ORF1,chr4:9828044:-:ENST00000309065>chr4:9800865:-:MLT1A0
12172	chr4:9889191:->chr4:9888526:-	ORF1,chr4:9889191:-:ENST00000264784>chr4:9888526:-:MIR3
12173	chr4:9889191:->chr4:9888526:-	ORF1,chr4:9889191:-:ENST00000506583>chr4:9888526:-:MIR3/ORF1,chr4:9889191:-:ENST00000309065>chr4:9888526:-:MIR3
12174	chr4:9998405:->chr4:9995169:-	ORF1,chr4:9998405:-:ENST00000264784>chr4:9995169:-:MIRb
12175	chr4:9998405:->chr4:9995169:-	ORF1,chr4:9998405:-:ENST00000506583>chr4:9995169:-:MIRb/ORF1,chr4:9998405:-:ENST00000309065>chr4:9995169:-:MIRb/ORF1,chr4:9998405:-:ENST00000513129>chr4:9995169:-:MIRb
12176	chr5:107006190:->chr5:106764564:-	ORF1,chr5:107006190:-:ENST00000333274>chr5:106764564:-:L3/ORF1,chr5:107006190:-:ENST00000509503>chr5:106764564:-:L3
12177	chr5:112090722:+>chr5:112095824:+	ORF1,chr5:112090722:+:ENST00000509732>chr5:112095824:+:L1MEg/ORF1,chr5:112090722:+:ENST00000457016>chr5:112095824:+:L1MEg/ORF1,chr5:112090722:+:ENST00000508624>chr5:112095824:+:L1MEg/ORF1,chr5:112090722:+:ENST00000257430>chr5:112095824:+:L1MEg/ORF1,chr5:112090722:+:ENST00000508376>chr5:112095824:+:L1MEg/ORF1,chr5:112090722:+:ENST00000512211>chr5:112095824:+:L1MEg
12178	chr5:127497492:+>chr5:127498715:+	ORF1,chr5:127497492:+:ENST00000262461>chr5:127498715:+:MER30/ORF1,chr5:127497492:+:ENST00000509205>chr5:127498715:+:MER30/ORF1,chr5:127497492:+:ENST00000343225>chr5:127498715:+:MER30
12179	chr5:127497492:+>chr5:127498885:+	ORF1,chr5:127497492:+:ENST00000262461>chr5:127498885:+:L1ME3C/ORF1,chr5:127497492:+:ENST00000509205>chr5:127498885:+:L1ME3C/ORF1,chr5:127497492:+:ENST00000343225>chr5:127498885:+:L1ME3C
12180	chr5:130788747:->chr5:130786674:-	ORF1,chr5:130788747:-:ENST00000514667>chr5:130786674:-:MER102c
12181	chr5:130788747:->chr5:130786674:-	ORF1,chr5:130788747:-:ENST00000307984>chr5:130786674:-:MER102c

12182	chr5:130788747:->chr5:130786674:-	ORF1,chr5:130788747:-:ENST00000509018>chr5:130786674:-:MER102c/ORF1,chr5:130788747:-:ENST00000507093>chr5:130786674:-:MER102c/ORF1,chr5:130788747:-:ENST00000296859>chr5:130786674:-:MER102c/ORF1,chr5:130788747:-:ENST00000308008>chr5:130786674:-:MER102c/ORF1,chr5:130788747:-:ENST00000515170>chr5:130786674:-:MER102c
12183	chr5:130788747:->chr5:130786674:-	ORF1,chr5:130788747:-:ENST00000512052>chr5:130786674:-:MER102c
12184	chr5:138163407:+>chr5:137988753:+	ORF1,chr5:138163407:+:ENST00000523275>chr5:137988753:+:MIRc
12185	chr5:138163407:+>chr5:137988753:+	ORF1,chr5:138163407:+:ENST00000355078>chr5:137988753:+:MIRc
12186	chr5:138163407:+>chr5:137988753:+	ORF1,chr5:138163407:+:ENST00000302763>chr5:137988753:+:MIRc/ORF1,chr5:138163407:+:ENST00000518825>chr5:137988753:+:MIRc
12187	chr5:138713091:->chr5:138708570:-	ORF1,chr5:138713091:-:ENST00000353963>chr5:138708570:-:AluSg
12188	chr5:138713091:->chr5:138708570:-	ORF1,chr5:138713091:-:ENST00000348729>chr5:138708570:-:AluSg
12189	chr5:140168269:+>chr5:140170924:+	ORF1,chr5:140168269:+:ENST00000378133>chr5:140170924:+:MLT1I/ORF1,chr5:140168269:+:ENST00000504120>chr5:140170924:+:MLT1I
12190	chr5:140903710:->chr5:140835963:-	ORF1,chr5:140903710:-:ENST00000398562>chr5:140835963:-:HUERS-P3b-int
12191	chr5:140903710:->chr5:140835963:-	ORF1,chr5:140903710:-:ENST00000398566>chr5:140835963:-:HUERS-P3b-int
12192	chr5:140903710:->chr5:140835963:-	ORF1,chr5:140903710:-:ENST00000518047>chr5:140835963:-:HUERS-P3b-int
12193	chr5:140903710:->chr5:140835963:-	ORF1,chr5:140903710:-:ENST00000389057>chr5:140835963:-:HUERS-P3b-int
12194	chr5:140903710:->chr5:140835963:-	ORF1,chr5:140903710:-:ENST00000253811>chr5:140835963:-:HUERS-P3b-int
12195	chr5:140903710:->chr5:140835963:-	ORF1,chr5:140903710:-:ENST00000389054>chr5:140835963:-:HUERS-P3b-int
12196	chr5:140903710:->chr5:140835963:-	ORF1,chr5:140903710:-:ENST00000398557>chr5:140835963:-:HUERS-P3b-int

12197	chr5:140903710:->chr5:140835963:-	ORF1,chr5:140903710:-:ENST00000520569>chr5:140835963:-:HUERS-P3b-int
12198	chr5:140903710:->chr5:140835963:-	ORF1,chr5:140903710:-:ENST00000448451>chr5:140835963:-:HUERS-P3b-int
12199	chr5:140903710:->chr5:140835966:-	ORF1,chr5:140903710:-:ENST00000398562>chr5:140835966:-:HUERS-P3b-int
12200	chr5:140903710:->chr5:140835966:-	ORF1,chr5:140903710:-:ENST00000398566>chr5:140835966:-:HUERS-P3b-int
12201	chr5:140903710:->chr5:140835966:-	ORF1,chr5:140903710:-:ENST00000518047>chr5:140835966:-:HUERS-P3b-int
12202	chr5:140903710:->chr5:140835966:-	ORF1,chr5:140903710:-:ENST00000389057>chr5:140835966:-:HUERS-P3b-int
12203	chr5:140903710:->chr5:140835966:-	ORF1,chr5:140903710:-:ENST00000253811>chr5:140835966:-:HUERS-P3b-int
12204	chr5:140903710:->chr5:140835966:-	ORF1,chr5:140903710:-:ENST00000389054>chr5:140835966:-:HUERS-P3b-int
12205	chr5:140903710:->chr5:140835966:-	ORF1,chr5:140903710:-:ENST00000398557>chr5:140835966:-:HUERS-P3b-int
12206	chr5:140903710:->chr5:140835966:-	ORF1,chr5:140903710:-:ENST00000520569>chr5:140835966:-:HUERS-P3b-int
12207	chr5:140903710:->chr5:140835966:-	ORF1,chr5:140903710:-:ENST00000448451>chr5:140835966:-:HUERS-P3b-int
12208	chr5:141041251:->chr5:141039627:-	ORF1,chr5:141041251:-:ENST00000239440>chr5:141039627:-:L2c
12209	chr5:141041251:->chr5:141039627:-	ORF1,chr5:141041251:-:ENST00000508305>chr5:141039627:-:L2c
12210	chr5:141041251:->chr5:141039627:-	ORF1,chr5:141041251:-:ENST00000513878>chr5:141039627:-:L2c

12211	chr5:141044489:->chr5:141044256:-	ORF1,chr5:141044489:-:ENST00000239440>chr5:141044256:-:MIRb
12212	chr5:141044489:->chr5:141044256:-	ORF1,chr5:141044489:-:ENST00000508305>chr5:141044256:-:MIRb
12213	chr5:141044489:->chr5:141044256:-	ORF1,chr5:141044489:-:ENST00000513878>chr5:141044256:-:MIRb
12214	chr5:148207568:+>chr5:148257075:+	ORF1,chr5:148207568:+:ENST00000305988>chr5:148257075:+:L1PA8
12215	chr5:149784243:->chr5:149783719:-	ORF1,chr5:149784243:-:ENST00000353334>chr5:149783719:-:MIR3/ORF1,chr5:149784243:-:ENST00000009530>chr5:149783719:-:MIR3
12216	chr5:149784243:->chr5:149783719:-	ORF1,chr5:149784243:-:ENST00000518797>chr5:149783719:-:MIR3
12217	chr5:150928856:->chr5:150928172:-	ORF1,chr5:150928856:-:ENST00000261800>chr5:150928172:-:AluSx
12218	chr5:150928856:->chr5:150928204:-	ORF1,chr5:150928856:-:ENST00000261800>chr5:150928204:-:AluSx
12219	chr5:150928856:->chr5:150928335:-	ORF1,chr5:150928856:-:ENST00000261800>chr5:150928335:-:AluSx
12220	chr5:155756589:+>chr5:155756747:+	ORF1,chr5:155756589:+:ENST00000517913>chr5:155756747:+:AluY/ORF1,chr5:155756589:+:ENST00000447401>chr5:155756747:+:AluY/ORF1,chr5:155756589:+:ENST00000337851>chr5:155756747:+:AluY/ORF1,chr5:155756589:+:ENST00000524347>chr5:155756747:+:AluY
12221	chr5:155771687:+>chr5:155776819:+	ORF1,chr5:155771687:+:ENST00000517913>chr5:155776819:+:L1PB3/ORF1,chr5:155771687:+:ENST00000447401>chr5:155776819:+:L1PB3/ORF1,chr5:155771687:+:ENST00000337851>chr5:155776819:+:L1PB3/ORF1,chr5:155771687:+:ENST00000524347>chr5:155776819:+:L1PB3
12222	chr5:155771687:+>chr5:155776819:+	ORF1,chr5:155771687:+:ENST00000435422>chr5:155776819:+:L1PB3
12223	chr5:159344861:+>chr5:159412678:+	ORF1,chr5:159344861:+:ENST00000306675>chr5:159412678:+:MER63A
12224	chr5:169931637:+>chr5:170046379:+	ORF1,chr5:169931637:+:ENST00000328939>chr5:170046379:+:MIRc/ORF1,chr5:169931637:+:ENST00000390656>chr5:170046379:+:MIRc/ORF1,chr5:169931637:+:ENST00000411494>chr5:170046379:+:MIRc/ORF1,chr5:169931637:+:ENST00000434108>chr5:170046379:+:MIRc
12225	chr5:170149824:+>chr5:170152244:+	ORF1,chr5:170149824:+:ENST00000411494>chr5:170152244:+:L1MA2
12226	chr5:170149824:+>chr5:170152244:+	ORF1,chr5:170149824:+:ENST00000434108>chr5:170152244:+:L1MA2

12227	chr5:170149824:+>chr5:170152244:+	ORF1,chr5:170149824:+:ENST00000328939>chr5:170152244:+:L1MA2/ORF1,chr5:170149824:+:ENST00000390656>chr5:170152244:+:L1MA2
12228	chr5:170149824:+>chr5:170152244:+	ORF1,chr5:170149824:+:ENST00000377360>chr5:170152244:+:L1MA2
12229	chr5:170149824:+>chr5:170152244:+	ORF1,chr5:170149824:+:ENST00000520740>chr5:170152244:+:L1MA2
12230	chr5:171614891:->chr5:171601575:-	ORF1,chr5:171614891:-:ENST00000176763>chr5:171601575:-:L2c
12231	chr5:177672943:->chr5:177672836:-	ORF1,chr5:177672943:-:ENST00000390654>chr5:177672836:-:L2b
12232	chr5:19721456:->chr5:19676077:-	ORF1,chr5:19721456:-:ENST00000382275>chr5:19676077:-:MER11C/ORF1,chr5:19721456:-:ENST00000507958>chr5:19676077:-:MER11C/ORF1,chr5:19721456:-:ENST00000274170>chr5:19676077:-:MER11C/ORF1,chr5:19721456:-:ENST00000506372>chr5:19676077:-:MER11C/ORF1,chr5:19721456:-:ENST00000502796>chr5:19676077:-:MER11C/ORF1,chr5:19721456:-:ENST00000511273>chr5:19676077:-:MER11C
12233	chr5:19721456:->chr5:19676077:-	ORF1,chr5:19721456:-:ENST00000515257>chr5:19676077:-:MER11C
12234	chr5:31267808:+>chr5:31283197:+	ORF1,chr5:31267808:+:ENST00000265071>chr5:31283197:+:MER20
12235	chr5:31267808:+>chr5:31283197:+	ORF1,chr5:31267808:+:ENST00000514738>chr5:31283197:+:MER20
12236	chr5:40681962:+>chr5:40685833:+	ORF1,chr5:40681962:+:ENST00000302472>chr5:40685833:+:MIRc
12237	chr5:45645287:->chr5:45617521:-	ORF1,chr5:45645287:-:ENST00000303230>chr5:45617521:-:MLT1J1
12238	chr5:45695771:->chr5:45687406:-	ORF1,chr5:45695771:-:ENST00000303230>chr5:45687406:-:HAL1
12239	chr5:481680:->chr5:481291:-	ORF1,chr5:481680:-:ENST00000264938>chr5:481291:-:AluSz
12240	chr5:481680:->chr5:481291:-	ORF1,chr5:481680:-:ENST00000514375>chr5:481291:-:AluSz
12241	chr5:55195960:+>chr5:55198124:+	ORF1,chr5:55195960:+:ENST00000396836>chr5:55198124:+:MER58A/ORF1,chr5:55195960:+:ENST00000447346>chr5:55198124:+:MER58A/ORF1,chr5:55195960:+:ENST00000359040>chr5:55198124:+:MER58A
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12243	chr5:55195960:+>chr5:55198124:+	ORF1,chr5:55195960:+:ENST00000297015>chr5:55198124:+:MER58A/ORF1,chr5:55195960:+:ENST00000490985>chr5:55198124:+:MER58A
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12245	chr5:73200230:+>chr5:73201167:+	ORF1,chr5:73200230:+:ENST00000296799>chr5:73201167:+:MER1B
12246	chr5:73200230:+>chr5:73201167:+	ORF1,chr5:73200230:+:ENST00000296794>chr5:73201167:+:MER1B/ORF1,chr5:73200230:+:ENST00000513042>chr5:73201167:+:MER1B/ORF1,chr5:73200230:+:ENST00000545377>chr5:73201167:+:MER1B/ORF1,chr5:73200230:+:ENST00000437974>chr5:73201167:+:MER1B/ORF1,chr5:73200230:+:ENST00000426542>chr5:73201167:+:MER1B
12247	chr5:73200230:+>chr5:73201167:+	ORF1,chr5:73200230:+:ENST00000287898>chr5:73201167:+:MER1B
12248	chr5:73200230:+>chr5:73201167:+	ORF1,chr5:73200230:+:ENST00000512883>chr5:73201167:+:MER1B
12249	chr5:7414883:+>chr5:7482986:+	ORF1,chr5:7414883:+:ENST00000338316>chr5:7482986:+:L1MA4
12250	chr5:7521012:+>chr5:7573126:+	ORF1,chr5:7521012:+:ENST00000338316>chr5:7573126:+:MLT1B
12251	chr5:76115089:+>chr5:76124660:+	ORF1,chr5:76115089:+:ENST00000296677>chr5:76124660:+:AluSz
12252	chr5:79410337:->chr5:79400584:-	ORF1,chr5:79410337:-:ENST00000509193>chr5:79400584:-:MLT1E3
12253	chr5:79441913:->chr5:79400584:-	ORF1,chr5:79441913:-:ENST00000509193>chr5:79400584:-:MLT1E3
12254	chr5:79441913:->chr5:79400584:-	ORF1,chr5:79441913:-:ENST00000507668>chr5:79400584:-:MLT1E3/ORF1,chr5:79441913:-:ENST00000512972>chr5:79400584:-:MLT1E3/ORF1,chr5:79441913:-:ENST00000512721>chr5:79400584:-:MLT1E3
12255	chr5:79441913:->chr5:79401228:-	ORF1,chr5:79441913:-:ENST00000509193>chr5:79401228:-:MamGypLTR1c
12256	chr5:79441913:->chr5:79401228:-	ORF1,chr5:79441913:-:ENST00000507668>chr5:79401228:-:MamGypLTR1c/ORF1,chr5:79441913:-:ENST00000512972>chr5:79401228:-:MamGypLTR1c/ORF1,chr5:79441913:-:ENST00000512721>chr5:79401228:-:MamGypLTR1c
12257	chr5:90087163:+>chr5:90097364:+	ORF1,chr5:90087163:+:ENST00000425867>chr5:90097364:+:L2c
12258	chr5:90087163:+>chr5:90097364:+	ORF1,chr5:90087163:+:ENST00000405460>chr5:90097364:+:L2c

12259	chr6:110777741:->chr6:110774810:-	ORF1,chr6:110777741:-:ENST00000451557>chr6:110774810:-:LTR40c
12260	chr6:110777741:->chr6:110774810:-	ORF1,chr6:110777741:-:ENST00000368919>chr6:110774810:-:LTR40c/ORF1,chr6:110777741:-:ENST00000439654>chr6:110774810:-:LTR40c/ORF1,chr6:110777741:-:ENST00000456137>chr6:110774810:-:LTR40c
12261	chr6:110777741:->chr6:110774810:-	ORF1,chr6:110777741:-:ENST00000437378>chr6:110774810:-:LTR40c/ORF1,chr6:110777741:-:ENST00000424139>chr6:110774810:-:LTR40c
12262	chr6:110777741:->chr6:110774810:-	ORF1,chr6:110777741:-:ENST00000330550>chr6:110774810:-:LTR40c
12263	chr6:110778103:->chr6:110774810:-	ORF1,chr6:110778103:-:ENST00000368919>chr6:110774810:-:LTR40c/ORF1,chr6:110778103:-:ENST00000439654>chr6:110774810:-:LTR40c/ORF1,chr6:110778103:-:ENST00000456137>chr6:110774810:-:LTR40c
12264	chr6:110778103:->chr6:110774810:-	ORF1,chr6:110778103:-:ENST00000437378>chr6:110774810:-:LTR40c/ORF1,chr6:110778103:-:ENST00000424139>chr6:110774810:-:LTR40c
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12266	chr6:110778103:->chr6:110774810:-	ORF1,chr6:110778103:-:ENST00000434949>chr6:110774810:-:LTR40c
12267	chr6:111498868:+>chr6:111499652:+	ORF1,chr6:111498868:+:ENST00000368851>chr6:111499652:+:FLAM_C
12268	chr6:111498868:+>chr6:111499652:+	ORF1,chr6:111498868:+:ENST00000439288>chr6:111499652:+:FLAM_C/ORF1,chr6:111498868:+:ENST00000419619>chr6:111499652:+:FLAM_C
12269	chr6:111527938:+>chr6:111577260:+	ORF1,chr6:111527938:+:ENST00000368850>chr6:111577260:+:(GAAA)n
12270	chr6:111527938:+>chr6:111577260:+	ORF1,chr6:111527938:+:ENST00000368851>chr6:111577260:+:(GAAA)n
12271	chr6:111540245:+>chr6:111577260:+	ORF1,chr6:111540245:+:ENST00000368850>chr6:111577260:+:(GAAA)n
12272	chr6:111540245:+>chr6:111577260:+	ORF1,chr6:111540245:+:ENST00000368851>chr6:111577260:+:(GAAA)n
12273	chr6:11566069:+>chr6:11574408:+	ORF1,chr6:11566069:+:ENST00000543875>chr6:11574408:+:MIRb/ORF1,chr6:11566069:+:ENST00000379426>chr6:11574408:+:MIRb
12274	chr6:117638306:->chr6:117637731:-	ORF1,chr6:117638306:-:ENST00000368507>chr6:117637731:-:L2a

12275	chr6:117638306:->chr6:117637731:-	ORF1,chr6:117638306:-:ENST00000368508>chr6:117637731:-:L2a
12276	chr6:117674153:->chr6:117670415:-	ORF1,chr6:117674153:-:ENST00000368507>chr6:117670415:-:L1MC1
12277	chr6:117674153:->chr6:117670415:-	ORF1,chr6:117674153:-:ENST00000368508>chr6:117670415:-:L1MC1
12278	chr6:117674153:->chr6:117672587:-	ORF1,chr6:117674153:-:ENST00000368507>chr6:117672587:-:L1MC1
12279	chr6:117674153:->chr6:117672587:-	ORF1,chr6:117674153:-:ENST00000368508>chr6:117672587:-:L1MC1
12280	chr6:124604288:+>chr6:124612630:+	ORF1,chr6:124604288:+:ENST00000368416>chr6:124612630:+:LTR48/ORF1,chr6:124604288:+:ENST00000368417>chr6:124612630:+:LTR48/ORF1,chr6:124604288:+:ENST00000546092>chr6:124612630:+:LTR48
12281	chr6:124604288:+>chr6:124612630:+	ORF1,chr6:124604288:+:ENST00000545433>chr6:124612630:+:LTR48
12282	chr6:124676493:+>chr6:124875588:+	ORF1,chr6:124676493:+:ENST00000368416>chr6:124875588:+:L4/ORF1,chr6:124676493:+:ENST00000368417>chr6:124875588:+:L4/ORF1,chr6:124676493:+:ENST00000546092>chr6:124875588:+:L4
12283	chr6:124676493:+>chr6:124875588:+	ORF1,chr6:124676493:+:ENST00000545433>chr6:124875588:+:L4
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12290	chr6:128718711:->chr6:128696545:-	ORF1,chr6:128718711:-:ENST00000368226>chr6:128696545:-:THE1B/ORF1,chr6:128718711:-:ENST00000368227>chr6:128696545:-:THE1B/ORF1,chr6:128718711:-:ENST00000532331>chr6:128696545:-:THE1B/ORF1,chr6:128718711:-:ENST00000368213>chr6:128696545:-:THE1B/ORF1,chr6:128718711:-:ENST00000368210>chr6:128696545:-:THE1B/ORF1,chr6:128718711:-:ENST00000368215>chr6:128696545:-:THE1B/ORF1,chr6:128718711:-:ENST00000368207>chr6:128696545:-:THE1B/ORF1,chr6:128718711:-:ENST00000525459>chr6:128696545:-:THE1B
12291	chr6:128718711:->chr6:128696545:-	ORF1,chr6:128718711:-:ENST00000531050>chr6:128696545:-:THE1B
12292	chr6:134349519:->chr6:134331200:-	ORF1,chr6:134349519:-:ENST00000275230>chr6:134331200:-:L3
12293	chr6:134528494:->chr6:134509600:-	ORF1,chr6:134528494:-:ENST00000367858>chr6:134509600:-:ERVL-B4-int
12294	chr6:134528494:->chr6:134509600:-	ORF1,chr6:134528494:-:ENST00000461976>chr6:134509600:-:ERVL-B4-int
12295	chr6:138417491:->chr6:138345116:-	ORF1,chr6:138417491:-:ENST00000421351>chr6:138345116:-:L1ME3C
12296	chr6:143486320:+>chr6:143507807:+	ORF1,chr6:143486320:+:ENST00000447498>chr6:143507807:+:MIR3/ORF1,chr6:143486320:+:ENST00000344492>chr6:143507807:+:MIR3
12297	chr6:143486320:+>chr6:143507807:+	ORF1,chr6:143486320:+:ENST00000367598>chr6:143507807:+:MIR3/ORF1,chr6:143486320:+:ENST00000357847>chr6:143507807:+:MIR3/ORF1,chr6:143486320:+:ENST00000494282>chr6:143507807:+:MIR3/ORF1,chr6:143486320:+:ENST00000275235>chr6:143507807:+:MIR3
12298	chr6:143486320:+>chr6:143507807:+	ORF1,chr6:143486320:+:ENST00000458219>chr6:143507807:+:MIR3
12299	chr6:143486320:+>chr6:143507807:+	ORF1,chr6:143486320:+:ENST00000367601>chr6:143507807:+:MIR3
12300	chr6:147612308:+>chr6:147624636:+	ORF1,chr6:147612308:+:ENST00000546097>chr6:147624636:+:THE1C/ORF1,chr6:147612308:+:ENST00000367481>chr6:147624636:+:THE1C/ORF1,chr6:147612308:+:ENST00000321680>chr6:147624636:+:THE1C/ORF1,chr6:147612308:+:ENST00000367480>chr6:147624636:+:THE1C

12301	chr6:147612308:+>chr6:147624639:+	ORF1,chr6:147612308:+:ENST00000546097>chr6:147624639:+:THE1C/ORF1,chr6:147612308:+:ENST00000367481>chr6:147624639:+:THE1C/ORF1,chr6:147612308:+:ENST00000321680>chr6:147624639:+:THE1C/ORF1,chr6:147612308:+:ENST00000367480>chr6:147624639:+:THE1C
12302	chr6:147612308:+>chr6:147624674:+	ORF1,chr6:147612308:+:ENST00000546097>chr6:147624674:+:THE1C-int/ORF1,chr6:147612308:+:ENST00000367481>chr6:147624674:+:THE1C-int/ORF1,chr6:147612308:+:ENST00000321680>chr6:147624674:+:THE1C-int/ORF1,chr6:147612308:+:ENST00000367480>chr6:147624674:+:THE1C-int
12303	chr6:147648412:+>chr6:147652592:+	ORF1,chr6:147648412:+:ENST00000392291>chr6:147652592:+:MIRb
12304	chr6:147648412:+>chr6:147652592:+	ORF1,chr6:147648412:+:ENST00000179882>chr6:147652592:+:MIRb
12305	chr6:147648412:+>chr6:147652592:+	ORF1,chr6:147648412:+:ENST00000367481>chr6:147652592:+:MIRb/ORF1,chr6:147648412:+:ENST00000321680>chr6:147652592:+:MIRb/ORF1,chr6:147648412:+:ENST00000367480>chr6:147652592:+:MIRb
12306	chr6:147648412:+>chr6:147652592:+	ORF1,chr6:147648412:+:ENST00000367475>chr6:147652592:+:MIRb
12307	chr6:154731477:->chr6:154684115:-	ORF1,chr6:154731477:-:ENST00000433165>chr6:154684115:-:MER3
12308	chr6:154731477:->chr6:154684115:-	ORF1,chr6:154731477:-:ENST00000607772>chr6:154684115:-:MER3
12309	chr6:154731477:->chr6:154684115:-	ORF1,chr6:154731477:-:ENST00000479339>chr6:154684115:-:MER3
12310	chr6:154743640:->chr6:154742278:-	ORF1,chr6:154743640:-:ENST00000433165>chr6:154742278:-:AluSz6/ORF1,chr6:154743640:-:ENST00000454664>chr6:154742278:-:AluSz6
12311	chr6:154743640:->chr6:154742278:-	ORF1,chr6:154743640:-:ENST00000607772>chr6:154742278:-:AluSz6
12312	chr6:154743640:->chr6:154742278:-	ORF1,chr6:154743640:-:ENST00000479339>chr6:154742278:-:AluSz6
12313	chr6:154743640:->chr6:154742278:-	ORF1,chr6:154743640:-:ENST00000424998>chr6:154742278:-:AluSz6
12314	chr6:15615498:->chr6:15610217:-	ORF1,chr6:15615498:-:ENST00000344537>chr6:15610217:-:HAL1/ORF1,chr6:15615498:-:ENST00000355917>chr6:15610217:-:HAL1/ORF1,chr6:15615498:-:ENST00000338950>chr6:15610217:-:HAL1
12315	chr6:15615498:->chr6:15610217:-	ORF1,chr6:15615498:-:ENST00000515875>chr6:15610217:-:HAL1

12316	chr6:15615498:-:>chr6:15610217:-	ORF1,chr6:15615498:-:ENST00000511762>chr6:15610217:-:HAL1
12317	chr6:158296208:+>chr6:158297201:+	ORF1,chr6:158296208:+:ENST00000392185>chr6:158297201:+:AluSx1
12318	chr6:158296208:+>chr6:158297339:+	ORF1,chr6:158296208:+:ENST00000392185>chr6:158297339:+:AluSx1
12319	chr6:159197440:->chr6:159196357:-	ORF1,chr6:159197440:-:ENST00000392177>chr6:159196357:-:AluSg
12320	chr6:159197440:->chr6:159196357:-	ORF1,chr6:159197440:-:ENST00000337147>chr6:159196357:-:AluSg/ORF1,chr6:159197440:-:ENST00000367075>chr6:159196357:-:AluSg
12321	chr6:16145548:+>chr6:16150806:+	ORF1,chr6:16145548:+:ENST00000349606>chr6:16150806:+:FLAM_A
12322	chr6:16145548:+>chr6:16150806:+	ORF1,chr6:16145548:+:ENST00000356840>chr6:16150806:+:FLAM_A
12323	chr6:17543374:+>chr6:17549293:+	ORF1,chr6:17543374:+:ENST00000489374>chr6:17549293:+:L1M5
12324	chr6:17543374:+>chr6:17549293:+	ORF1,chr6:17543374:+:ENST00000465994>chr6:17549293:+:L1M5
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12429	chr7:100230624:->chr7:100230451:-	ORF1,chr7:100230624:-:ENST00000490084>chr7:100230451:-:AluJr
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12433	chr7:106526737:+>chr7:106554983:+	ORF1,chr7:106526737:+:ENST00000440650>chr7:106554983:+:MLT1F2/ORF1,chr7:106526737:+:ENST00000496166>chr7:106554983:+:MLT1F2/ORF1,chr7:106526737:+:ENST00000359195>chr7:106554983:+:MLT1F2
12434	chr7:106793696:+>chr7:106796969:+	ORF1,chr7:106793696:+:ENST00000265717>chr7:106796969:+:AluY
12435	chr7:117120201:+>chr7:117129284:+	ORF1,chr7:117120201:+:ENST00000003084>chr7:117129284:+:Kanga11a/ORF1,chr7:117120201:+:ENST00000454343>chr7:117129284:+:Kanga11a/ORF1,chr7:117120201:+:ENST00000426809>chr7:117129284:+:Kanga11a
12436	chr7:117149196:+>chr7:117157115:+	ORF1,chr7:117149196:+:ENST00000446805>chr7:117157115:+:L1P3
12437	chr7:117149196:+>chr7:117157115:+	ORF1,chr7:117149196:+:ENST00000003084>chr7:117157115:+:L1P3/ORF1,chr7:117149196:+:ENST00000454343>chr7:117157115:+:L1P3/ORF1,chr7:117149196:+:ENST00000426809>chr7:117157115:+:L1P3
12438	chr7:117235112:+>chr7:117237232:+	ORF1,chr7:117235112:+:ENST00000426809>chr7:117237232:+:LTR12C
12439	chr7:117235112:+>chr7:117237232:+	ORF1,chr7:117235112:+:ENST00000003084>chr7:117237232:+:LTR12C
12440	chr7:117235112:+>chr7:117237232:+	ORF1,chr7:117235112:+:ENST00000454343>chr7:117237232:+:LTR12C
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12442	chr7:119915801:+>chr7:120120762:+	ORF1,chr7:119915801:+:ENST00000331113>chr7:120120762:+:MSTD
12443	chr7:126173006:->chr7:126155822:-	ORF1,chr7:126173006:-:ENST00000444921>chr7:126155822:-:MLT1D/ORF1,chr7:126173006:-:ENST00000339582>chr7:126155822:-:MLT1D/ORF1,chr7:126173006:-:ENST00000358373>chr7:126155822:-:MLT1D/ORF1,chr7:126173006:-:ENST00000472701>chr7:126155822:-:MLT1D
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12446	chr7:137080344:->chr7:137053145:-	ORF1,chr7:137080344:-:ENST00000288490>chr7:137053145:-:THE1C
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12453	chr7:148808819:->chr7:14861824:-	ORF1,chr7:14880819:-:ENST00000258767>chr7:14861824:-:L2a/ORF1,chr7:14880819:-:ENST00000399322>chr7:14861824:-:L2a/ORF1,chr7:14880819:-:ENST00000403951>chr7:14861824:-:L2a/ORF1,chr7:14880819:-:ENST00000402815>chr7:14861824:-:L2a/ORF1,chr7:14880819:-:ENST00000407950>chr7:14861824:-:L2a/ORF1,chr7:14880819:-:ENST00000444700>chr7:14861824:-:L2a/ORF1,chr7:14880819:-:ENST00000406247>chr7:14861824:-:L2a/ORF1,chr7:14880819:-:ENST00000437998>chr7:14861824:-:L2a
12454	chr7:154143413:+>chr7:154155530:+	ORF1,chr7:154143413:+:ENST00000406326>chr7:154155530:+:THE1B/ORF1,chr7:154143413:+:ENST00000377770>chr7:154155530:+:THE1B
12455	chr7:154143413:+>chr7:154155530:+	ORF1,chr7:154143413:+:ENST00000404039>chr7:154155530:+:THE1B
12456	chr7:154143413:+>chr7:154155530:+	ORF1,chr7:154143413:+:ENST00000332007>chr7:154155530:+:THE1B/ORF1,chr7:154143413:+:ENST00000427557>chr7:154155530:+:THE1B
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12458	chr7:157691365:->chr7:157654981:-	ORF1,chr7:157691365:-:ENST00000389416>chr7:157654981:-:MLT1C

12459	chr7:157691365:->chr7:157654981:-	ORF1,chr7:157691365:-:ENST00000389418>chr7:157654981:-:MLT1C
12460	chr7:157691365:->chr7:157654981:-	ORF1,chr7:157691365:-:ENST00000389413>chr7:157654981:-:MLT1C
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12465	chr7:157873990:->chr7:157860368:-	ORF1,chr7:157873990:-:ENST00000389413>chr7:157860368:-:MER58B
12466	chr7:157873990:->chr7:157860368:-	ORF1,chr7:157873990:-:ENST00000409483>chr7:157860368:-:MER58B
12467	chr7:157903521:->chr7:157893545:-	ORF1,chr7:157903521:-:ENST00000404321>chr7:157893545:-:L1PB1
12468	chr7:157903521:->chr7:157893545:-	ORF1,chr7:157903521:-:ENST00000389416>chr7:157893545:-:L1PB1
12469	chr7:157903521:->chr7:157893545:-	ORF1,chr7:157903521:-:ENST00000389418>chr7:157893545:-:L1PB1
12470	chr7:157903521:->chr7:157893545:-	ORF1,chr7:157903521:-:ENST00000409483>chr7:157893545:-:L1PB1
12471	chr7:158282427:->chr7:158230258:-	ORF1,chr7:158282427:-:ENST00000404321>chr7:158230258:-:L1MEg
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12474	chr7:158586341:->chr7:158584050:-	ORF1,chr7:158586341:-:ENST00000251527>chr7:158584050:-:L1MB3
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12476	chr7:20691246:+>chr7:20691550:+	ORF1,chr7:20691246:+:ENST00000404938>chr7:20691550:+:MER30
12477	chr7:20691246:+>chr7:20691550:+	ORF1,chr7:20691246:+:ENST00000443026>chr7:20691550:+:MER30/ORF1,chr7:20691246:+:ENST00000406935>chr7:20691550:+:MER30/ORF1,chr7:20691246:+:ENST00000258738>chr7:20691550:+:MER30
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12479	chr7:20698299:+>chr7:20707892:+	ORF1,chr7:20698299:+:ENST00000443026>chr7:20707892:+:SVA_E/ORF1,chr7:20698299:+:ENST00000406935>chr7:20707892:+:SVA_E/ORF1,chr7:20698299:+:ENST00000258738>chr7:20707892:+:SVA_E
12480	chr7:23286546:+>chr7:23287188:+	ORF1,chr7:23286546:+:ENST00000258733>chr7:23287188:+:MER5B/ORF1,chr7:23286546:+:ENST00000381990>chr7:23287188:+:MER5B/ORF1,chr7:23286546:+:ENST00000409458>chr7:23287188:+:MER5B/ORF1,chr7:23286546:+:ENST00000539136>chr7:23287188:+:MER5B/ORF1,chr7:23286546:+:ENST00000453162>chr7:23287188:+:MER5B
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12482	chr7:23300392:+>chr7:23301101:+	ORF1,chr7:23300392:+:ENST00000258733>chr7:23301101:+:L1PA6/ORF1,chr7:23300392:+:ENST00000381990>chr7:23301101:+:L1PA6
12483	chr7:23300392:+>chr7:23301101:+	ORF1,chr7:23300392:+:ENST00000453162>chr7:23301101:+:L1PA6
12484	chr7:23458395:->chr7:23456034:-	ORF1,chr7:23458395:-:ENST00000258729>chr7:23456034:-:L1MC5
12485	chr7:2671912:+>chr7:2681888:+	ORF1,chr7:2671912:+:ENST00000258796>chr7:2681888:+:AluJb/ORF1,chr7:2671912:+:ENST00000407643>chr7:2681888:+:AluJb
12486	chr7:2689622:+>chr7:2690099:+	ORF1,chr7:2689622:+:ENST00000407643>chr7:2690099:+:AluSq
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12488	chr7:2689622:+>chr7:2690099:+	ORF1,chr7:2689622:+:ENST00000403167>chr7:2690099:+:AluSq
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12491	chr7:2689622:+>chr7:2690139:+	ORF1,chr7:2689622:+:ENST00000403167>chr7:2690139:+:AluSq
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12493	chr7:2834562:->chr7:2819903:-	ORF1,chr7:2834562:-:ENST00000544127>chr7:2819903:-:L1MC4a
12494	chr7:2834562:->chr7:2819903:-	ORF1,chr7:2834562:-:ENST00000275364>chr7:2819903:-:L1MC4a
12495	chr7:30363353:+>chr7:30451514:+	ORF1,chr7:30363353:+:ENST00000323037>chr7:30451514:+:MER106A
12496	chr7:37250991:->chr7:37244092:-	ORF1,chr7:37250991:-:ENST00000420636>chr7:37244092:-:LTR12D
12497	chr7:37250991:->chr7:37244092:-	ORF1,chr7:37250991:-:ENST00000310758>chr7:37244092:-:LTR12D/ORF1,chr7:37250991:-:ENST00000442504>chr7:37244092:-:LTR12D/ORF1,chr7:37250991:-:ENST00000448602>chr7:37244092:-:LTR12D
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12499	chr7:37250991:->chr7:37244092:-	ORF1,chr7:37250991:-:ENST00000433246>chr7:37244092:-:LTR12D
12500	chr7:38309092:->chr7:38308516:-	ORF1,chr7:38309092:-:ENST00000390337>chr7:38308516:-:MIRb
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12506	chr7:5340293:+>chr7:5342024:+	ORF1,chr7:5340293:+:ENST00000406453>chr7:5342024:+:AluJr
12507	chr7:5340293:+>chr7:5342024:+	ORF1,chr7:5340293:+:ENST00000396872>chr7:5342024:+:AluJr/ORF1,chr7:5340293:+:ENST00000297195>chr7:5342024:+:AluJr
12508	chr7:6217454:->chr7:6214043:-	ORF1,chr7:6217454:-:ENST00000350796>chr7:6214043:-:L1M4
12509	chr7:6470111:->chr7:6468287:-	ORF1,chr7:6470111:-:ENST00000436575>chr7:6468287:-:AluSx
12510	chr7:6470111:->chr7:6468287:-	ORF1,chr7:6470111:-:ENST00000297056>chr7:6468287:-:AluSx
12511	chr7:6470111:->chr7:6468287:-	ORF1,chr7:6470111:-:ENST00000428902>chr7:6468287:-:AluSx
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12516	chr7:6472468:->chr7:6468411:-	ORF1,chr7:6472468:-:ENST00000454738>chr7:6468411:-:AluSx
12517	chr7:6472468:->chr7:6468411:-	ORF1,chr7:6472468:-:ENST00000425398>chr7:6468411:-:AluSx
12518	chr7:6472468:->chr7:6468411:-	ORF1,chr7:6472468:-:ENST00000297056>chr7:6468411:-:AluSx
12519	chr7:6472468:->chr7:6468411:-	ORF1,chr7:6472468:-:ENST00000421761>chr7:6468411:-:AluSx

12520	chr7:6472468:->chr7:6468411:-	ORF1,chr7:6472468:-:ENST00000428902>chr7:6468411:-:AluSx
12521	chr7:6537695:->chr7:6527779:-	ORF1,chr7:6537695:-:ENST00000457091>chr7:6527779:-:Arthur1
12522	chr7:6537695:->chr7:6527779:-	ORF1,chr7:6537695:-:ENST00000435185>chr7:6527779:-:Arthur1
12523	chr7:6537695:->chr7:6527779:-	ORF1,chr7:6537695:-:ENST00000452113>chr7:6527779:-:Arthur1
12524	chr7:6620309:+>chr7:6620443:+	ORF1,chr7:6620309:+:ENST00000405731>chr7:6620443:+:AluJo/ORF1,chr7:6620309:+:ENST00000396707>chr7:6620443:+:AluJo/ORF1,chr7:6620309:+:ENST00000396713>chr7:6620443:+:AluJo/ORF1,chr7:6620309:+:ENST00000335965>chr7:6620443:+:AluJo/ORF1,chr7:6620309:+:ENST00000396709>chr7:6620443:+:AluJo/ORF1,chr7:6620309:+:ENST00000483589>chr7:6620443:+:AluJo/ORF1,chr7:6620309:+:ENST00000396706>chr7:6620443:+:AluJo
12525	chr7:716866:->chr7:713647:-	ORF1,chr7:716866:-:ENST00000544935>chr7:713647:-:MLT1D/ORF1,chr7:716866:-:ENST00000537384>chr7:713647:-:MLT1D/ORF1,chr7:716866:-:ENST00000406797>chr7:713647:-:MLT1D/ORF1,chr7:716866:-:ENST00000403562>chr7:713647:-:MLT1D/ORF1,chr7:716866:-:ENST00000360274>chr7:713647:-:MLT1D/ORF1,chr7:716866:-:ENST00000430040>chr7:713647:-:MLT1D/ORF1,chr7:716866:-:ENST00000417852>chr7:713647:-:MLT1D
12526	chr7:716866:->chr7:713647:-	ORF1,chr7:716866:-:ENST00000414568>chr7:713647:-:MLT1D
12527	chr7:73133932:->chr7:73130615:-	ORF1,chr7:73133932:-:ENST00000222812>chr7:73130615:-:MIRb/ORF1,chr7:73133932:-:ENST00000395156>chr7:73130615:-:MIRb/ORF1,chr7:73133932:-:ENST00000395154>chr7:73130615:-:MIRb/ORF1,chr7:73133932:-:ENST00000395155>chr7:73130615:-:MIRb
12528	chr7:75616678:->chr7:75603302:-	ORF1,chr7:75616678:-:ENST00000493111>chr7:75603302:-:L1MC4a
12529	chr7:79828698:+>chr7:79830387:+	ORF1,chr7:79828698:+:ENST00000351004>chr7:79830387:+:L2c
12530	chr7:79828698:+>chr7:79830387:+	ORF1,chr7:79828698:+:ENST00000418742>chr7:79830387:+:L2c/ORF1,chr7:79828698:+:ENST00000457358>chr7:79830387:+:L2c
12531	chr7:86521040:->chr7:86458061:-	ORF1,chr7:86521040:-:ENST00000416314>chr7:86458061:-:Tigger1
12532	chr7:86521040:->chr7:86458061:-	ORF1,chr7:86521040:-:ENST00000297222>chr7:86458061:-:Tigger1
12533	chr7:86521040:->chr7:86458061:-	ORF1,chr7:86521040:-:ENST00000444627>chr7:86458061:-:Tigger1

12534	chr7:86521040:-:>chr7:86458061:-	ORF1,chr7:86521040:-:ENST00000450689>chr7:86458061:-:Tigger1
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12660	chr8:71619388:+>chr8:71977592:+	ORF1,chr8:71619388:+:ENST00000408926>chr8:71977592:+:MLT1B/ORF1,chr8:71619388:+:ENST00000520030>chr8:71977592:+:MLT1B
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12663	chr8:89058897:->chr8:89058476:-	ORF1,chr8:89058897:-:ENST00000286614>chr8:89058476:-:L1M6
12664	chr8:89068356:->chr8:89036941:-	ORF1,chr8:89068356:-:ENST00000286614>chr8:89036941:-:HAL1
12665	chr8:89068356:->chr8:89039641:-	ORF1,chr8:89068356:-:ENST00000286614>chr8:89039641:-:HAL1
12666	chr8:89339304:->chr8:89242379:-	ORF1,chr8:89339304:-:ENST00000286614>chr8:89242379:-:MER5A
12667	chr8:89339304:->chr8:89242379:-	ORF1,chr8:89339304:-:ENST00000522726>chr8:89242379:-:MER5A
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12669	chr8:94770804:+>chr8:94773236:+	ORF1,chr8:94770804:+:ENST00000323130>chr8:94773236:+:L1MC4a
12670	chr8:94770804:+>chr8:94773236:+	ORF1,chr8:94770804:+:ENST00000452276>chr8:94773236:+:L1MC4a
12671	chr8:94770804:+>chr8:94773236:+	ORF1,chr8:94770804:+:ENST00000409623>chr8:94773236:+:L1MC4a
12672	chr8:94770804:+>chr8:94773236:+	ORF1,chr8:94770804:+:ENST00000521517>chr8:94773236:+:L1MC4a
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12676	chr8:98817692:+>chr8:98819216:+	ORF1,chr8:98817692:+:ENST00000521545>chr8:98819216:+:THE1A
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12680	chr9:101907170:+>chr9:101907779:+	ORF1,chr9:101907170:+:ENST00000374990>chr9:101907779:+:L2c
12681	chr9:101907170:+>chr9:101907779:+	ORF1,chr9:101907170:+:ENST00000549766>chr9:101907779:+:L2c/ORF1,chr9:101907170:+:ENST00000552516>chr9:101907779:+:L2c
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12687	chr9:117185594:->chr9:117183170:-	ORF1,chr9:117185594:-:ENST00000374059>chr9:117183170:-:MIR
12688	chr9:117185594:->chr9:117183170:-	ORF1,chr9:117185594:-:ENST00000362057>chr9:117183170:-:MIR
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12705	chr9:128305338:->chr9:128287571:-	ORF1,chr9:128305338:-:ENST00000373511>chr9:128287571:-:MIR/ORF1,chr9:128305338:-:ENST00000373498>chr9:128287571:-:MIR/ORF1,chr9:128305338:-:ENST00000350766>chr9:128287571:-:MIR/ORF1,chr9:128305338:-:ENST00000265960>chr9:128287571:-:MIR/ORF1,chr9:128305338:-:ENST00000394060>chr9:128287571:-:MIR
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12711	chr9:128419930:->chr9:128362206:-	ORF1,chr9:128419930:-:ENST00000373511>chr9:128362206:-:AluSx1/ORF1,chr9:128419930:-:ENST00000373498>chr9:128362206:-:AluSx1/ORF1,chr9:128419930:-:ENST00000350766>chr9:128362206:-:AluSx1/ORF1,chr9:128419930:-:ENST00000265960>chr9:128362206:-:AluSx1/ORF1,chr9:128419930:-:ENST00000394060>chr9:128362206:-:AluSx1
12712	chr9:129740024:+>chr9:129768094:+	ORF1,chr9:129740024:+:ENST00000424082>chr9:129768094:+:Charlie24/ORF1,chr9:129740024:+:ENST00000259351>chr9:129768094:+:Charlie24/ORF1,chr9:129740024:+:ENST00000394022>chr9:129768094:+:Charlie24/ORF1,chr9:129740024:+:ENST00000394011>chr9:129768094:+:Charlie24/ORF1,chr9:129740024:+:ENST00000319107>chr9:129768094:+:Charlie24/ORF1,chr9:129740024:+:ENST00000373436>chr9:129768094:+:Charlie24/ORF1,chr9:129740024:+:ENST00000373434>chr9:129768094:+:Charlie24
12713	chr9:129831635:+>chr9:129841880:+	ORF1,chr9:129831635:+:ENST00000424082>chr9:129841880:+:MLT1F2/ORF1,chr9:129831635:+:ENST00000259351>chr9:129841880:+:MLT1F2/ORF1,chr9:129831635:+:ENST00000394022>chr9:129841880:+:MLT1F2/ORF1,chr9:129831635:+:ENST00000373436>chr9:129841880:+:MLT1F2/ORF1,chr9:129831635:+:ENST00000373434>chr9:129841880:+:MLT1F2
12714	chr9:130271255:->chr9:130271068:-	ORF1,chr9:130271255:-:ENST00000373312>chr9:130271068:-:L2b
12715	chr9:130271255:->chr9:130271068:-	ORF1,chr9:130271255:-:ENST00000373314>chr9:130271068:-:L2b
12716	chr9:130331099:->chr9:130298967:-	ORF1,chr9:130331099:-:ENST00000373312>chr9:130298967:-:MIRb
12717	chr9:130341201:->chr9:130332655:-	ORF1,chr9:130341201:-:ENST00000373314>chr9:130332655:-:L2b
12718	chr9:130341201:->chr9:130334705:-	ORF1,chr9:130341201:-:ENST00000373314>chr9:130334705:-:L2a
12719	chr9:130341201:->chr9:130334967:-	ORF1,chr9:130341201:-:ENST00000373314>chr9:130334967:-:MIRb
12720	chr9:130341201:->chr9:130338877:-	ORF1,chr9:130341201:-:ENST00000373314>chr9:130338877:-:MIRb

12721	chr9:130540875:-:>chr9:130540563:-	ORF1,chr9:130540875:-:ENST00000314830>chr9:130540563:-:AluSx
12722	chr9:132872705:+>chr9:132884904:+	ORF1,chr9:132872705:+:ENST00000372406>chr9:132884904:+:L2b/ORF1,chr9:132872705:+:ENST00000372410>chr9:132884904:+:L2b
12723	chr9:132963261:+>chr9:132963713:+	ORF1,chr9:132963261:+:ENST00000458469>chr9:132963713:+:MER117
12724	chr9:132963261:+>chr9:132963713:+	ORF1,chr9:132963261:+:ENST00000372398>chr9:132963713:+:MER117
12725	chr9:135073996:+>chr9:135081127:+	ORF1,chr9:135073996:+:ENST00000372179>chr9:135081127:+:AluSx1/ORF1,chr9:135073996:+:ENST00000360670>chr9:135081127:+:AluSx1/ORF1,chr9:135073996:+:ENST00000393228>chr9:135081127:+:AluSx1/ORF1,chr9:135073996:+:ENST00000393229>chr9:135081127:+:AluSx1
12726	chr9:14619637:-:>chr9:14546277:-	ORF1,chr9:14619637:-:ENST00000380916>chr9:14546277:-:MSTB
12727	chr9:14639894:-:>chr9:14555734:-	ORF1,chr9:14639894:-:ENST00000380916>chr9:14555734:-:L2c
12728	chr9:14639894:-:>chr9:14629750:-	ORF1,chr9:14639894:-:ENST00000380916>chr9:14629750:-:Tigger1
12729	chr9:19305525:+>chr9:19309140:+	ORF1,chr9:19305525:+:ENST00000380432>chr9:19309140:+:AluSp
12730	chr9:19305525:+>chr9:19309140:+	ORF1,chr9:19305525:+:ENST00000434457>chr9:19309140:+:AluSp/ORF1,chr9:19305525:+:ENST00000602925>chr9:19309140:+:AluSp
12731	chr9:19305525:+>chr9:19309140:+	ORF1,chr9:19305525:+:ENST00000494124>chr9:19309140:+:AluSp
12732	chr9:215029:+>chr9:260162:+	ORF1,chr9:215029:+:ENST00000469197>chr9:260162:+:L2/ORF1,chr9:215029:+:ENST00000524396>chr9:260162:+:L2/ORF1,chr9:215029:+:ENST00000453981>chr9:260162:+:L2
12733	chr9:304704:+>chr9:307780:+	ORF1,chr9:304704:+:ENST00000453981>chr9:307780:+:L1MA5
12734	chr9:304704:+>chr9:307780:+	ORF1,chr9:304704:+:ENST00000432829>chr9:307780:+:L1MA5/ORF1,chr9:304704:+:ENST00000483757>chr9:307780:+:L1MA5/ORF1,chr9:304704:+:ENST00000469391>chr9:307780:+:L1MA5
12735	chr9:304704:+>chr9:308190:+	ORF1,chr9:304704:+:ENST00000453981>chr9:308190:+:L1MA5
12736	chr9:304704:+>chr9:308190:+	ORF1,chr9:304704:+:ENST00000432829>chr9:308190:+:L1MA5/ORF1,chr9:304704:+:ENST00000483757>chr9:308190:+:L1MA5/ORF1,chr9:304704:+:ENST00000469391>chr9:308190:+:L1MA5
12737	chr9:33120417:-:>chr9:33104779:-	ORF1,chr9:33120417:-:ENST00000541851>chr9:33104779:-:L1MB3

12738	chr9:33120417:-:>chr9:33104779:-	ORF1,chr9:33120417:-:ENST00000379731>chr9:33104779:-:L1MB3
12739	chr9:36052320:+:>chr9:36056977:+	ORF1,chr9:36052320:+:ENST00000377966>chr9:36056977:+:Tigger12c
12740	chr9:36112473:+:>chr9:36113541:+	ORF1,chr9:36112473:+:ENST00000377966>chr9:36113541:+:L1ME4a
12741	chr9:36112473:+:>chr9:36113676:+	ORF1,chr9:36112473:+:ENST00000377966>chr9:36113676:+:L1M5
12742	chr9:37948632:-:>chr9:37899947:-	ORF1,chr9:37948632:-:ENST00000377707>chr9:37899947:-:L1M5
12743	chr9:379935:+:>chr9:380035:+	ORF1,chr9:379935:+:ENST00000453981>chr9:380035:+:AluSx
12744	chr9:379935:+:>chr9:380035:+	ORF1,chr9:379935:+:ENST00000382329>chr9:380035:+:AluSx
12745	chr9:379935:+:>chr9:380035:+	ORF1,chr9:379935:+:ENST00000382331>chr9:380035:+:AluSx
12746	chr9:379935:+:>chr9:380035:+	ORF1,chr9:379935:+:ENST00000432829>chr9:380035:+:AluSx/ORF1,chr9:379935:+:ENST00000469391>chr9:380035:+:AluSx
12747	chr9:379935:+:>chr9:380279:+	ORF1,chr9:379935:+:ENST00000453981>chr9:380279:+:AluSx
12748	chr9:379935:+:>chr9:380279:+	ORF1,chr9:379935:+:ENST00000382329>chr9:380279:+:AluSx
12749	chr9:379935:+:>chr9:380279:+	ORF1,chr9:379935:+:ENST00000382331>chr9:380279:+:AluSx
12750	chr9:379935:+:>chr9:380279:+	ORF1,chr9:379935:+:ENST00000432829>chr9:380279:+:AluSx/ORF1,chr9:379935:+:ENST00000469391>chr9:380279:+:AluSx
12751	chr9:38016008:-:>chr9:37977384:-	ORF1,chr9:38016008:-:ENST00000540557>chr9:37977384:-:MER113/ORF1,chr9:38016008:-:ENST00000377707>chr9:37977384:-:MER113/ORF1,chr9:38016008:-:ENST00000377700>chr9:37977384:-:MER113
12752	chr9:77376612:-:>chr9:77370714:-	ORF1,chr9:77376612:-:ENST00000449912>chr9:77370714:-:MER5A
12753	chr9:77376612:-:>chr9:77370714:-	ORF1,chr9:77376612:-:ENST00000360774>chr9:77370714:-:MER5A/ORF1,chr9:77376612:-:ENST00000451710>chr9:77370714:-:MER5A/ORF1,chr9:77376612:-:ENST00000376864>chr9:77370714:-:MER5A
12754	chr9:77376612:-:>chr9:77370714:-	ORF1,chr9:77376612:-:ENST00000361255>chr9:77370714:-:MER5A

12755	chr9:93641235:+>chr9:93648125:+	ORF1,chr9:93641235:+:ENST00000375751>chr9:93648125:+:L1M2/ORF1,chr9:93641235:+:ENST00000375747>chr9:93648125:+:L1M2
12756	chr9:93641235:+>chr9:93648125:+	ORF1,chr9:93641235:+:ENST00000375754>chr9:93648125:+:L1M2/ORF1,chr9:93641235:+:ENST00000375746>chr9:93648125:+:L1M2
12757	chr9:93641235:+>chr9:93648128:+	ORF1,chr9:93641235:+:ENST00000375751>chr9:93648128:+:L1M2/ORF1,chr9:93641235:+:ENST00000375747>chr9:93648128:+:L1M2
12758	chr9:93641235:+>chr9:93648128:+	ORF1,chr9:93641235:+:ENST00000375754>chr9:93648128:+:L1M2/ORF1,chr9:93641235:+:ENST00000375746>chr9:93648128:+:L1M2
12759	chr9:96031028:+>chr9:96041646:+	ORF1,chr9:96031028:+:ENST00000427277>chr9:96041646:+:L1ME1/ORF1,chr9:96031028:+:ENST00000349097>chr9:96041646:+:L1ME1
12760	chr9:96031028:+>chr9:96041646:+	ORF1,chr9:96031028:+:ENST00000297954>chr9:96041646:+:L1ME1/ORF1,chr9:96031028:+:ENST00000395477>chr9:96041646:+:L1ME1
12761	chr9:96031028:+>chr9:96041646:+	ORF1,chr9:96031028:+:ENST00000411624>chr9:96041646:+:L1ME1
12762	chr9:96031028:+>chr9:96041646:+	ORF1,chr9:96031028:+:ENST00000432730>chr9:96041646:+:L1ME1
12763	chr9:96031028:+>chr9:96041646:+	ORF1,chr9:96031028:+:ENST00000448251>chr9:96041646:+:L1ME1
12764	chrX:100608182:->chrX:100606114:-	ORF1,chrX:100608182:-:ENST00000372880>chrX:100606114:-:AluSg
12765	chrX:100608182:->chrX:100606114:-	ORF1,chrX:100608182:-:ENST00000308731>chrX:100606114:-:AluSg
12766	chrX:100611040:->chrX:100610486:-	ORF1,chrX:100611040:-:ENST00000308731>chrX:100610486:-:MER102b
12767	chrX:106172113:+>chrX:106179585:+	ORF1,chrX:106172113:+:ENST00000541806>chrX:106179585:+:L2b/ORF1,chrX:106172113:+:ENST00000540876>chrX:106179585:+:L2b/ORF1,chrX:106172113:+:ENST00000336803>chrX:106179585:+:L2b
12768	chrX:115593943:->chrX:115438074:-	ORF1,chrX:115593943:-:ENST00000371894>chrX:115438074:-:L1MA2
12769	chrX:123587187:->chrX:123559261:-	ORF1,chrX:123587187:-:ENST00000422452>chrX:123559261:-:L1MA5
12770	chrX:123587187:->chrX:123559261:-	ORF1,chrX:123587187:-:ENST00000371130>chrX:123559261:-:L1MA5
12771	chrX:123621059:->chrX:123617935:-	ORF1,chrX:123621059:-:ENST00000422452>chrX:123617935:-:L1MC3

12772	chrX:123630866:-:>chrX:123617935:-	ORF1,chrX:123630866:-:ENST00000371130>chrX:123617935:-:L1MC3/ORF1,chrX:123630866:-:ENST00000422452>chrX:123617935:-:L1MC3
12773	chrX:123630866:-:>chrX:123629356:-	ORF1,chrX:123630866:-:ENST00000371130>chrX:123629356:-:L1PA3/ORF1,chrX:123630866:-:ENST00000422452>chrX:123629356:-:L1PA3
12774	chrX:13956626:-:>chrX:13907677:-	ORF1,chrX:13956626:-:ENST00000454189>chrX:13907677:-:L2a
12775	chrX:14550494:+>chrX:14583790:+	ORF1,chrX:14550494:+:ENST00000415367>chrX:14583790:+:L1MB4
12776	chrX:14550494:+>chrX:14583790:+	ORF1,chrX:14550494:+:ENST00000218075>chrX:14583790:+:L1MB4/ORF1,chrX:14550494:+:ENST00000355020>chrX:14583790:+:L1MB4
12777	chrX:149867773:+>chrX:149874008:+	ORF1,chrX:149867773:+:ENST00000436701>chrX:149874008:+:L1MD1/ORF1,chrX:149867773:+:ENST00000438018>chrX:149874008:+:L1MD1
12778	chrX:149867773:+>chrX:149874008:+	ORF1,chrX:149867773:+:ENST00000485376>chrX:149874008:+:L1MD1/ORF1,chrX:149867773:+:ENST00000542156>chrX:149874008:+:L1MD1/ORF1,chrX:149867773:+:ENST00000370390>chrX:149874008:+:L1MD1/ORF1,chrX:149867773:+:ENST00000490316>chrX:149874008:+:L1MD1/ORF1,chrX:149867773:+:ENST00000451863>chrX:149874008:+:L1MD1/ORF1,chrX:149867773:+:ENST00000544228>chrX:149874008:+:L1MD1/ORF1,chrX:149867773:+:ENST00000445323>chrX:149874008:+:L1MD1
12779	chrX:149867773:+>chrX:149874091:+	ORF1,chrX:149867773:+:ENST00000436701>chrX:149874091:+:L1MD1/ORF1,chrX:149867773:+:ENST00000438018>chrX:149874091:+:L1MD1
12780	chrX:149867773:+>chrX:149874091:+	ORF1,chrX:149867773:+:ENST00000485376>chrX:149874091:+:L1MD1/ORF1,chrX:149867773:+:ENST00000542156>chrX:149874091:+:L1MD1/ORF1,chrX:149867773:+:ENST00000370390>chrX:149874091:+:L1MD1/ORF1,chrX:149867773:+:ENST00000490316>chrX:149874091:+:L1MD1/ORF1,chrX:149867773:+:ENST00000451863>chrX:149874091:+:L1MD1/ORF1,chrX:149867773:+:ENST00000544228>chrX:149874091:+:L1MD1/ORF1,chrX:149867773:+:ENST00000445323>chrX:149874091:+:L1MD1
12781	chrX:149945917:->chrX:149945443:-	ORF1,chrX:149945917:-:ENST00000418547>chrX:149945443:-:MER4A
12782	chrX:149945917:->chrX:149945443:-	ORF1,chrX:149945917:-:ENST00000370377>chrX:149945443:-:MER4A
12783	chrX:149945917:->chrX:149945443:-	ORF1,chrX:149945917:-:ENST00000437787>chrX:149945443:-:MER4A
12784	chrX:149945917:->chrX:149945443:-	ORF1,chrX:149945917:-:ENST00000466436>chrX:149945443:-:MER4A
12785	chrX:149945917:->chrX:149945443:-	ORF1,chrX:149945917:-:ENST00000355149>chrX:149945443:-:MER4A

12786	chrX:149962164:->chrX:149956544:-	ORF1,chrX:149962164:-:ENST00000418547>chrX:149956544:-:L1PA13
12787	chrX:149962164:->chrX:149956544:-	ORF1,chrX:149962164:-:ENST00000370377>chrX:149956544:-:L1PA13
12788	chrX:149962164:->chrX:149956544:-	ORF1,chrX:149962164:-:ENST00000466436>chrX:149956544:-:L1PA13
12789	chrX:149962164:->chrX:149956544:-	ORF1,chrX:149962164:-:ENST00000355149>chrX:149956544:-:L1PA13
12790	chrX:149999704:->chrX:149996841:-	ORF1,chrX:149999704:-:ENST00000418547>chrX:149996841:-:MIR
12791	chrX:149999704:->chrX:149996841:-	ORF1,chrX:149999704:-:ENST00000370377>chrX:149996841:-:MIR/ORF1,chrX:149999704:-:ENST00000355149>chrX:149996841:-:MIR/ORF1,chrX:149999704:-:ENST00000437787>chrX:149996841:-:MIR/ORF1,chrX:149999704:-:ENST00000466436>chrX:149996841:-:MIR/ORF1,chrX:149999704:-:ENST00000320893>chrX:149996841:-:MIR
12792	chrX:149999704:->chrX:149996865:-	ORF1,chrX:149999704:-:ENST00000418547>chrX:149996865:-:MIR
12793	chrX:149999704:->chrX:149996865:-	ORF1,chrX:149999704:-:ENST00000370377>chrX:149996865:-:MIR/ORF1,chrX:149999704:-:ENST00000355149>chrX:149996865:-:MIR/ORF1,chrX:149999704:-:ENST00000437787>chrX:149996865:-:MIR/ORF1,chrX:149999704:-:ENST00000466436>chrX:149996865:-:MIR/ORF1,chrX:149999704:-:ENST00000320893>chrX:149996865:-:MIR
12794	chrX:151129755:->chrX:151128644:-	ORF1,chrX:151129755:-:ENST00000370328>chrX:151128644:-:L2c/ORF1,chrX:151129755:-:ENST00000370325>chrX:151128644:-:L2c
12795	chrX:152830561:+>chrX:152831204:+	ORF1,chrX:152830561:+:ENST00000370186>chrX:152831204:+:L2/ORF1,chrX:152830561:+:ENST00000393842>chrX:152831204:+:L2/ORF1,chrX:152830561:+:ENST00000370181>chrX:152831204:+:L2
12796	chrX:152830561:+>chrX:152831204:+	ORF1,chrX:152830561:+:ENST00000349466>chrX:152831204:+:L2/ORF1,chrX:152830561:+:ENST00000359149>chrX:152831204:+:L2/ORF1,chrX:152830561:+:ENST00000263519>chrX:152831204:+:L2
12797	chrX:153178154:->chrX:153177017:-	ORF1,chrX:153178154:-:ENST00000370016>chrX:153177017:-:L1M5
12798	chrX:153178154:->chrX:153177017:-	ORF1,chrX:153178154:-:ENST00000370028>chrX:153177017:-:L1M5
12799	chrX:153178154:->chrX:153177017:-	ORF1,chrX:153178154:-:ENST00000350060>chrX:153177017:-:L1M5/ORF1,chrX:153178154:-:ENST00000420383>chrX:153177017:-:L1M5

12800	chrX:153178154:->chrX:153177017:-	ORF1,chrX:153178154:-:ENST00000393721>chrX:153177017:-:L1M5
12801	chrX:153178154:->chrX:153177017:-	ORF1,chrX:153178154:-:ENST00000537206>chrX:153177017:-:L1M5
12802	chrX:153178154:->chrX:153177017:-	ORF1,chrX:153178154:-:ENST00000442172>chrX:153177017:-:L1M5
12803	chrX:153178478:->chrX:153177017:-	ORF1,chrX:153178478:-:ENST00000370016>chrX:153177017:-:L1M5
12804	chrX:153178478:->chrX:153177017:-	ORF1,chrX:153178478:-:ENST00000370028>chrX:153177017:-:L1M5
12805	chrX:153178478:->chrX:153177017:-	ORF1,chrX:153178478:-:ENST00000350060>chrX:153177017:-:L1M5/ORF1,chrX:153178478:-:ENST00000420383>chrX:153177017:-:L1M5
12806	chrX:153178478:->chrX:153177017:-	ORF1,chrX:153178478:-:ENST00000393721>chrX:153177017:-:L1M5
12807	chrX:153178478:->chrX:153177017:-	ORF1,chrX:153178478:-:ENST00000537206>chrX:153177017:-:L1M5
12808	chrX:154057810:->chrX:154055768:-	ORF1,chrX:154057810:-:ENST00000369529>chrX:154055768:-:MLT1J2
12809	chrX:18936799:->chrX:18933789:-	ORF1,chrX:18936799:-:ENST00000379942>chrX:18933789:-:AluJo
12810	chrX:19037717:->chrX:19035956:-	ORF1,chrX:19037717:-:ENST00000357991>chrX:19035956:-:L1ME4a
12811	chrX:19037717:->chrX:19035956:-	ORF1,chrX:19037717:-:ENST00000360279>chrX:19035956:-:L1ME4a
12812	chrX:19037717:->chrX:19035956:-	ORF1,chrX:19037717:-:ENST00000379873>chrX:19035956:-:L1ME4a/ORF1,chrX:19037717:-:ENST00000379869>chrX:19035956:-:L1ME4a
12813	chrX:19037717:->chrX:19035956:-	ORF1,chrX:19037717:-:ENST00000356606>chrX:19035956:-:L1ME4a

12814	chrX:19037717:-:>chrX:19035956:-	ORF1,chrX:19037717:-:ENST00000354791>chrX:19035956:-:L1ME4a
12815	chrX:19037717:-:>chrX:19035956:-	ORF1,chrX:19037717:-:ENST00000379876>chrX:19035956:-:L1ME4a
12816	chrX:19037717:-:>chrX:19035956:-	ORF1,chrX:19037717:-:ENST00000379878>chrX:19035956:-:L1ME4a
12817	chrX:19037717:-:>chrX:19035956:-	ORF1,chrX:19037717:-:ENST00000357544>chrX:19035956:-:L1ME4a/ORF1,chrX:19037717:-:ENST00000340581>chrX:19035956:-:L1ME4a
12818	chrX:33229399:-:>chrX:33096464:-	ORF1,chrX:33229399:-:ENST00000357033>chrX:33096464:-:HUERS-P1-int/ORF1,chrX:33229399:-:ENST00000420596>chrX:33096464:-:HUERS-P1-int/ORF1,chrX:33229399:-:ENST00000448370>chrX:33096464:-:HUERS-P1-int
12819	chrX:37642853:+>chrX:37649221:+	ORF1,chrX:37642853:+:ENST00000378588>chrX:37649221:+:LTR16C
12820	chrX:37642853:+>chrX:37649221:+	ORF1,chrX:37642853:+:ENST00000545017>chrX:37649221:+:LTR16C
12821	chrX:46618140:-:>chrX:46611715:-	ORF1,chrX:46618140:-:ENST00000328306>chrX:46611715:-:L1MC4
12822	chrX:49853541:+>chrX:49854209:+	ORF1,chrX:49853541:+:ENST00000376088>chrX:49854209:+:L1ME4a/ORF1,chrX:49853541:+:ENST00000376091>chrX:49854209:+:L1ME4a
12823	chrX:49853541:+>chrX:49854209:+	ORF1,chrX:49853541:+:ENST00000376108>chrX:49854209:+:L1ME4a/ORF1,chrX:49853541:+:ENST00000307367>chrX:49854209:+:L1ME4a
12824	chrX:64196205:-:>chrX:64166838:-	ORF1,chrX:64196205:-:ENST00000447788>chrX:64166838:-:L1MD/ORF1,chrX:64196205:-:ENST00000374839>chrX:64166838:-:L1MD
12825	chrX:64887720:+>chrX:64901556:+	ORF1,chrX:64887720:+:ENST00000360270>chrX:64901556:+:MIR
12826	chrX:64936763:+>chrX:64986593:+	ORF1,chrX:64936763:+:ENST00000609672>chrX:64986593:+:MSTB2
12827	chrX:64936763:+>chrX:64986593:+	ORF1,chrX:64936763:+:ENST00000360270>chrX:64986593:+:MSTB2
12828	chrX:69176982:+>chrX:69218690:+	ORF1,chrX:69176982:+:ENST00000503592>chrX:69218690:+:THE1A
12829	chrX:69176982:+>chrX:69218690:+	ORF1,chrX:69176982:+:ENST00000374552>chrX:69218690:+:THE1A/ORF1,chrX:69176982:+:ENST00000374553>chrX:69218690:+:THE1A/ORF1,chrX:69176982:+:ENST00000524573>chrX:69218690:+:THE1A

12830	chrX:8667739:-:>chrX:8613799:-	ORF1,chrX:8667739:-:ENST00000262648>chrX:8613799:-:AluYc

1	2	3	4	5	6	7	8	9	10	11	12	13
chr1:109330138:+>chr1:109336204:+	chr1	109329965	109330138	+	chr1	109336204	109336269	+	ENST00000370008	2668-2670	1,11,26	CCLE-LUSC
chr1:109339834:+>chr1:109340767:+	chr1	109339694	109339834	+	chr1	109340767	109340859	+	ENST00000370008	2671-2673	24,12,2	CCLE-BRCA,CCLE-DLBC,CCLE-LUSC,CCLE-SKCM
chr1:109452343:+>chr1:109456960:+	chr1	109452245	109452343	+	chr1	109456960	109457030,1	+	ENST00000406462,ENST00000264126	2674-2676	33,22	CCLE-LUSC
chr1:109695699:+>chr1:109704516:+	chr1	109695642	109695699	+	chr1	109704516	109704636,109704636,109704636,109704636,109704636,109704636	+	ENST00000533147,ENST00000531664,ENST00000534476,ENST00000526264,ENST00000369939,ENST00000457623,ENST00000529753	2677-2686	19,7,6	CCLE-DLBC
chr1:109730292:+>chr1:109730799:+	chr1	109730257	109730292	+	chr1	109730799	109730976,109730976,109730976	+	ENST00000369939,ENST00000457623,ENST00000529753	2687-2690	12,3	CCLE-BRCA,CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr1:109928710:->chr1:109912211:-	chr1	109928656	109928710	-	chr1	109912211	109912211	-	ENST00000256637	2691-2693	9,1,3	CCLE-DLBC
chr1:110527569:+>chr1:110551656:+	chr1	110527556	110527569	+	chr1	110551656	110551767	+	ENST00000369799	2694-2696	4,5	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr1:110544939:+>chr1:110551656:+	chr1	110544785	110544939	+	chr1	110551656	110551767	+	ENST00000369799	2697-2699	14,10,38	CCLE-COAD,CCLE-LUSC,CCLE-SKCM
chr1:110563666:+>chr1:110564296:+	chr1	110563598	110563666	+	chr1	110564296	110564302,110564302,110564302	+	ENST00000369799,ENST00000359172,ENST00000393614	2700-2702	6,1,14	CCLE-BRCA,CCLE-COAD,CCLE-LUSC
chr1:110908782:->chr1:110906515:-	chr1	110908782	110908782	-	chr1	110906515	110906515,110906515,110906515,110906515,110906535,110906515	-	ENST00000369779,ENST00000472422,ENST00000369781,ENST00000437429,ENST00000541986	2703-2706	24,45,32	CCLE-LUSC,CCLE-OV
chr1:112126979:->chr1:112043178:-	chr1	112126910	112126979	-	chr1	112043178	112043178	-	ENST00000241356	2707-2709	48,1,11	CCLE-DLBC
chr1:112243676:+>chr1:112245958:+	chr1	112243223	112243676	+	chr1	112245958	112246098,112246098,112246098,112246098	+	ENST00000356415,ENST00000433097,ENST00000436150,ENST00000369709,ENST00000545460	2710-2712	4,1	CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr1:113246006:->chr1:113245741:-	chr1	113245959	113246006	-	chr1	113245741	113245741,113245741,113245741,113245741,113245741,113245741,113245741,113245741,113245741,113245741,113245741,113245741,113245741,113245741	-	ENST00000339083,ENST00000369633,ENST00000369642,ENST00000285735,ENST00000369638,ENST00000369637,ENST00000369636,ENST00000369632,ENST00000425265,ENST00000534717,ENST00000436685,ENST00000605933,ENST00000606505,ENST00000484054,ENST00000414971	2713-2724	41,21,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr1:113458383:->chr1:113456787:-	chr1	113457700	113458383	-	chr1	113456787	113456787,113456787,113456787	-	ENST00000369626,ENST00000538576,ENST00000458229	2725-2728	8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr1:114065132:+>chr1:114092137:+	chr1	114065114	114065132	+	chr1	114092137	114092253,114092253,114092253	+	ENST00000369617,ENST00000307546,ENST00000369615,ENST00000369611	2729-2733	2,6,7	CCLE-LUSC,CCLE-STAD
chr1:114124855:+>chr1:114128009:+	chr1	114124699	114124855	+	chr1	114128009	114128218,114128218,114128218	+	ENST00000369617,ENST00000307546,ENST00000369615,ENST00000369611	2734-2738	1,14,47	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr1:114153376:+>chr1:114157223:+	chr1	114153330	114153376	+	chr1	114157223	114157280,114157280,114157280	+	ENST00000369617,ENST00000307546,ENST00000369615,ENST00000369611	2739-2742	15,16	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr1:114198451:+>chr1:114201702:+	chr1	114198288	114198451	+	chr1	114201702	114201887,114201887,114201887	+	ENST00000369617,ENST00000307546,ENST00000369615,ENST00000369611	2743-2746	54,6,4	CCLE-LGG
chr1:116212328:+>chr1:116224985:+	chr1	116212050	116212328	+	chr1	116224985	116225118,116225118,116225118	+	ENST00000355485,ENST00000369510,ENST00000310260,ENST00000369509	2747-2749	23,19,8	CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr1:116928535:+>chr1:116929910:+	chr1	116928467	116928535	+	chr1	116929910	116930113,116930113,116930113,116930113	+	ENST00000418797,ENST00000295598,ENST00000537345,ENST00000369494,ENST00000369496	2750-2754	1,23,14	CCLE-DLBC
chr1:120608261:->chr1:120572610:-	chr1	120608196	120608261	-	chr1	120572610	120572610	-	ENST00000256646	2755-2757	10,11,18	CCLE-KIRC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr1:120616017:->chr1:120572610:-	chr1	120615773	120616017	-	chr1	120572610	120572610	-	ENST00000256646	2758-2758	1	CCLE-HNSC
chr1:12132299:+>chr1:12144521:+	chr1	12132052	12132299	+	chr1	12144521	12144608	+	ENST00000263932	2759-2761	13,1,21	CCLE-DLBC,CCLE-LCLL
chr1:12143355:+>chr1:12144521:+	chr1	12142680	12143355	+	chr1	12144521	12144608	+	ENST00000263932	2762-2763	44,26	CCLE-DLBC,CCLE-LCLL
chr1:12181907:+>chr1:12183341:+	chr1	12181769	12181907	+	chr1	12183341	12183434,12	+	ENST00000263932,ENST00000417814	2764-2767	40,46,3	CCLE-DLBC,CCLE-LCLL
chr1:12262629:+>chr1:12266797:+	chr1	12262282	12262629	+	chr1	12266797	12267077	+	ENST00000376259	2768-2769	96,85	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr1:13922479:+>chr1:13933668:+	chr1	13922411	13922479	+	chr1	13933668	13933801,13933801,13933801,13933801	+	ENST00000294489,ENST00000376057,ENST00000510906,ENST00000509009	2770-2774	1,23,14	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-THCA
chr1:151862459:->chr1:151861849:-	chr1	151862378	151862459	-	chr1	151861849	151861849	-	ENST00000368814	2775-2777	34,21,7	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr1:153332943:+>chr1:153333120:+	chr1	153332858	153332943	+	chr1	153333120	153333314	+	ENST00000368738	2778-2779	20,5	CCLE-HNSC
chr1:154298178:+>chr1:154302872:+	chr1	154298176	154298178	+	chr1	154302872	154302930,154302930,154302930	+	ENST00000368487,ENST00000368489,ENST00000341822	2780-2784	1	CCLE-MM
chr1:155048650:+>chr1:155057567:+	chr1	155048503	155048650	+	chr1	155057567	155057880,155057880,155057880	+	ENST00000556931,ENST00000505139,ENST00000368408,ENST00000418360	2785-2789	1,13,36	CCLE-LUSC
chr1:156036498:+>chr1:156038061:+	chr1	156036448	156036498	+	chr1	156038061	156038254	+	ENST00000361084	2790-2792	17,8	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr1:156036597:+>chr1:156038061:+	chr1	156036448	156036597	+	chr1	156038061	156038254	+	ENST00000361084	2793-2795	28,50,7	CCLE-COAD,CCLE-LUSC,CCLE-PAAD
chr1:157517430:->chr1:157514872:-	chr1	157517377	157517430	-	chr1	157514872	157514872,157514872,157514872,157514872,157514872	-	ENST00000361835,ENST00000356953,ENST00000368190,ENST00000368191,ENST00000368189	2796-2799	10,17	CCLE-DLBC
chr1:157517430:->chr1:157516955:-	chr1	157517377	157517430	-	chr1	157516955	157516987,157516987,157516987,157516987,157516987	-	ENST00000361835,ENST00000356953,ENST00000368190,ENST00000368189,ENST00000368188	2800-2801	10,17	CCLE-DLBC
chr1:157517430:->chr1:157516987:-	chr1	157517377	157517430	-	chr1	157516987	157516987,157516987,157516987,157516987,157516987	-	ENST00000361835,ENST00000356953,ENST00000368190,ENST00000368189,ENST00000368188	2802-2806	10,17	CCLE-DLBC
chr1:157746101:->chr1:157745585:-	chr1	157746092	157746101	-	chr1	157745585	157745585,157745585,157745585	-	ENST00000361516,ENST00000368181,ENST00000392274	2807-2811	11,32,19	CCLE-DLBC
chr1:157968134:+>chr1:158045903:+	chr1	157968050	157968134	+	chr1	158045903	158046052,158046052,158046052	+	ENST00000368173,ENST00000392272,ENST00000359209	2812-2817	21,4,7	CCLE-LUSC
chr1:157968151:+>chr1:158045903:+	chr1	157968050	157968151	+	chr1	158045903	158046052,158046052,158046052	+	ENST00000368173,ENST00000392272,ENST00000359209	2818-2823	12,1,5	CCLE-BLCA,CCLE-CESC,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr1:157995476:+>chr1:158045903:+	chr1	157995374	157995476	+	chr1	158045903	158046052,158046052,158046052	+	ENST00000368173,ENST00000392272,ENST00000359209	2824-2829	35,34,25	CCLE-BLCA,CCLE-KIRC,CCLE-LIHC,CCLE-SARC
chr1:158033617:+>chr1:158045903:+	chr1	158033427	158033617	+	chr1	158045903	158046052,158046052,158046052	+	ENST00000368173,ENST00000392272,ENST00000359209	2830-2835	56,53,60	CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr1:158057175:+>chr1:158057545:+	chr1	158057103	158057175	+	chr1	158057545	158057650,158057650,158057650,158057650,158057650,158057650	+	ENST00000368173,ENST00000392272,ENST00000360089,ENST00000359209,ENST00000416935,ENST00000368172	2836-2838	7,15	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr1:159157252:+>chr1:159161726:+	chr1	159157233	159157252	+	chr1	159161726	159161866,159161866,159161866	+	ENST00000368124,ENST00000368125,ENST00000416746	2839-2841	7	CCLE-LGG
chr1:159905498:->chr1:159904612:-	chr1	159905430	159905498	-	chr1	159904612	159904612,2	-	ENST00000361509,ENST00000368094	2842-2846	18,57,11	CCLE-LUSC
chr1:160589456:->chr1:160582370:-	chr1	160589278	160589456	-	chr1	160582370	160582370,160582370,160582370	-	ENST00000302035,ENST00000235739,ENST00000538290	2847-2851	4	CCLE-LCLL
chr1:160683829:->chr1:160654979:-	chr1	160683778	160683829	-	chr1	160654979	160654979,2	-	ENST00000368046,ENST00000368045	2852-2855	10	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr1:161483932:+>chr1:161487765:+	chr1	161483795	161483932	+	chr1	161487765	161487938,161487938,161487927	+	ENST00000367972,ENST00000271450,ENST00000459885	2856-2857	4,1	CCLE-LCLL

chr1:16461931:->chr1:16461684:-	chr1	16461804	16461931	-	chr1	16461684	16461684	-	ENST00000358432	2858-2860	4,5	CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr1:16468729:->chr1:16464925:-	chr1	16468724	16468729	-	chr1	16464925	16464925	-	ENST00000358432	2861-2863	16,27,6	CCLE-OV
chr1:16474791:->chr1:16464925:-	chr1	16474712	16474791	-	chr1	16464925	16464925	-	ENST00000358432	2864-2866	8,7	CCLE-OV
chr1:167498934:->chr1:167410004:-	chr1	167498800	167498934	-	chr1	167410004	167410004,2	-	ENST00000362089,ENST00000392122	2867-2868	12,33	CCLE-OV
chr1:168066913:->chr1:168066470:-	chr1	168066889	168066913	-	chr1	168066470	168066470,168066470,168066470,168066470,168066470,168066470	-	ENST00000367838,ENST00000271357,ENST00000539777,ENST00000361697,ENST00000537209,ENST00000546300,ENST00000367835	2869-2871	19,10,18	CCLE-BLCA,CCLE-SKCM
chr1:176834928:->chr1:176833657:-	chr1	176834846	176834928	-	chr1	176833657	176833657,2	-	ENST00000361833,ENST00000367654	2872-2873	8,45	CCLE-SARC
chr1:178806756:+>chr1:178846633:+	chr1	178806683	178806756	+	chr1	178846633	178846770,178846770,178846770	+	ENST00000367635,ENST00000367634,ENST00000324778	2874-2878	6,25,24	CCLE-DLBC,CCLE-HNSC,CCLE-LUSC,CCLE-MM
chr1:181014038:+>chr1:181018188:+	chr1	181013991	181014038	+	chr1	181018188	181018448,181018448,181018448,181018448	+	ENST00000434571,ENST00000367579,ENST00000282990,ENST00000367580	2879-2884	16	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr1:18535436:+>chr1:18554392:+	chr1	18535218	18535436	+	chr1	18554392	18554504	+	ENST00000251296	2885-2887	15,12,24	CCLE-LUSC
chr1:18700334:+>chr1:18702804:+	chr1	18700207	18700334	+	chr1	18702804	18702889,19	+	ENST00000251296,ENST00000412684	2888-2892	27,42,3	CCLE-LUSC
chr1:197412237:+>chr1:197446794:+	chr1	197411973	197412237	+	chr1	197446794	197447009,197447009,197447009,197447009,197447009	+	ENST00000535699,ENST00000538660,ENST00000367400,ENST00000367399,ENST00000544212	2893-2895	13,35,21	CCLE-LUSC
chr1:198708339:+>chr1:198710998:+	chr1	198707982	198708339	+	chr1	198710998	198711155,198711155,198711155,198711155,198711155	+	ENST00000352140,ENST00000367376,ENST00000594404,ENST00000442510,ENST00000348564	2896-2898	61,5,25	CCLE-DLBC,CCLE-LCLL
chr1:202036765:+>chr1:202096869:+	chr1	202036744	202036765	+	chr1	202096869	202097684	+	ENST00000367282	2899-2901	7,8	CCLE-BRCA,CCLE-COAD,CCLE-HNSC,CCLE-LUSC,CCLE-STAD
chr1:202205792:+>chr1:202245434:+	chr1	202205766	202205792	+	chr1	202245434	202245649,202245649,202245649,202245649	+	ENST00000367278,ENST00000255432,ENST00000487787,ENST00000423542	2902-2906	9	CCLE-CESC,CCLE-COAD,CCLE-LCLL,CCLE-LUSC
chr1:202912195:->chr1:202911346:-	chr1	202911983	202912195	-	chr1	202911346	202911346,2	-	ENST00000340990,ENST00000436244	2907-2909	7,33,11	CCLE-BRCA,CCLE-CESC,CCLE-LUSC
chr1:203119906:+>chr1:203134184:+	chr1	203119791	203119906	+	chr1	203134184	203134220	+	ENST00000367235	2910-2912	39,38,13	CCLE-KIRC,CCLE-LGG,CCLE-LUSC
chr1:203119906:+>chr1:203134389:+	chr1	203119791	203119906	+	chr1	203134389	203135028,203135028,203135028	+	ENST00000309502,ENST00000367236,ENST00000337894	2913-2915	39,38,13	CCLE-KIRC,CCLE-LUSC
chr1:203688171:+>chr1:203689677:+	chr1	203688073	203688171	+	chr1	203689677	203689868,203689868,203689868,203689868,203689868	+	ENST00000357681,ENST00000367218,ENST00000367219,ENST00000391954,ENST00000341360	2916-2919	12,33	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-PAAD
chr1:207645411:+>chr1:207646117:+	chr1	207645313	207645411	+	chr1	207646117	207646524,207646524,207646524,207646524,207646213	+	ENST00000367057,ENST00000367058,ENST00000367059,ENST00000458541	2920-2924	33,2	CCLE-DLBC
chr1:208254106:->chr1:208252795:-	chr1	208254087	208254106	-	chr1	208252795	208252795	-	ENST00000367033	2925-2927	3,7,31	CCLE-LGG
chr1:212584125:->chr1:212583863:-	chr1	212584057	212584125	-	chr1	212583863	212583863,2	-	ENST00000261455,ENST00000535273	2928-2930	19,4,66	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PRAD,CCLE-SKCM,CCLE-STAD
chr1:213066344:+>chr1:213068328:+	chr1	213064967	213066344	+	chr1	213068328	213068395,2	+	ENST00000366971,ENST00000419102	2931-2933	6,2,158	CCLE-DLBC,CCLE-LUSC,CCLE-PRAD
chr1:214571125:->chr1:214568329:-	chr1	214571042	214571125	-	chr1	214568329	214568329	-	ENST00000366956	2934-2936	1,5	CCLE-KIRC
chr1:214572311:->chr1:214571344:-	chr1	214572114	214572311	-	chr1	214571344	214571344,2	-	ENST00000366956,ENST00000543945	2937-2941	33,24	CCLE-LUSC
chr1:215239292:+>chr1:215259711:+	chr1	215239193	215239292	+	chr1	215259711	215260021,215260021,215260021,215260021,215260021,215260021	+	ENST00000486921,ENST00000467031,ENST00000391895,ENST00000391894,ENST00000470177,ENST00000474771,ENST00000444842	2942-2946	29,9,7	CCLE-MM,CCLE-SARC
chr1:21551333:->chr1:21548335:-	chr1	21551236	21551333	-	chr1	21548335	21548335,21548335,21548335,21548335	-	ENST00000415912,ENST00000357071,ENST00000374893,ENST00000264205	2947-2949	18,19	CCLE-LUSC
chr1:215743862:+>chr1:215747129:+	chr1	215743848	215743862	+	chr1	215747129	215747182,2	+	ENST00000259154,ENST00000448333	2950-2953	5,2	CCLE-BRCA,CCLE-LUSC
chr1:215791496:+>chr1:215792228:+	chr1	215790874	215791496	+	chr1	215792228	215792412	+	ENST00000259154	2954-2956	14,5,6	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr1:21606324:->chr1:21605825:-	chr1	21606271	21606324	-	chr1	21605825	21605825,21605927,21605825,21605825,21605825	-	ENST00000415912,ENST00000357071,ENST00000374893,ENST00000436918,ENST00000264205,ENST00000481130,ENST00000527991	2957-2963	21,41,2	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr1:21620647:->chr1:21616649:-	chr1	21620604	21620647	-	chr1	21616649	21616649,21616649,21616649,21616691,21616649,21616649	-	ENST00000415912,ENST00000374893,ENST00000436918,ENST00000264205,ENST00000481130,ENST00000552799	2964-2970	10,11	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr1:216390607:->chr1:216380773:-	chr1	216390581	216390607	-	chr1	216380773	216380773,216380773	-	ENST00000307340,ENST00000366943,ENST00000366942	2971-2974	30,7	CCLE-LUSC
chr1:223907025:+>chr1:223931802:+	chr1	223906962	223907025	+	chr1	223931802	223931920,223931920	+	ENST00000433674,ENST00000434648,ENST00000295006	2975-2978	21,1,14	CCLE-ESCA,CCLE-LIHC,CCLE-LUSC,CCLE-OV
chr1:223962115:+>chr1:223962536:+	chr1	223962051	223962115	+	chr1	223962536	223962559,2	+	ENST00000433674,ENST00000295006	2979-2981	21,22	CCLE-BRCA,CCLE-HNSC,CCLE-LUSC
chr1:224827364:+>chr1:224868660:+	chr1	224827077	224827364	+	chr1	224868660	224868728	+	ENST00000272133	2982-2984	25,45,21	CCLE-LGG,CCLE-SKCM
chr1:224859236:+>chr1:224868660:+	chr1	224859188	224859236	+	chr1	224868660	224868728	+	ENST00000272133	2985-2987	16,17	CCLE-LGG
chr1:224861660:+>chr1:224868660:+	chr1	224861566	224861660	+	chr1	224868660	224868728	+	ENST00000272133	2988-2990	31,20,32	CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr1:224908898:+>chr1:224918164:+	chr1	224908673	224908898	+	chr1	224918164	224918276	+	ENST00000272133	2991-2993	23,75,12	CCLE-LUSC,CCLE-SKCM
chr1:226047554:->chr1:226047049:-	chr1	226047335	226047554	-	chr1	226047049	226047049	-	ENST00000366835	2994-2996	9,30,22	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-STAD,CCLE-UCEC
chr1:226062633:->chr1:226062067:-	chr1	226062501	226062633	-	chr1	226062067	226062067,2	-	ENST00000366835,ENST00000436966	2997-3000	11,3,25	CCLE-BRCA
chr1:228401575:+>chr1:228401875:+	chr1	228401494	228401575	+	chr1	228401875	228402135,228402135,228402135	+	ENST00000284548,ENST00000570156,ENST00000422127	3001-3005	28,27	CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-UCEC
chr1:228463874:+>chr1:228464151:+	chr1	228463758	228463874	+	chr1	228464151	228464417,228464417,228464417	+	ENST00000284548,ENST00000570156,ENST00000422127,ENST00000359599	3006-3011	19,10,39	CCLE-BRCA
chr1:228511828:+>chr1:228520561:+	chr1	228511711	228511828	+	chr1	228520561	228520639,228520639,228520639,228520639	+	ENST00000284548,ENST00000570156,ENST00000366709,ENST00000366707,ENST00000422127	3012-3015	21,1	CCLE-CESC,CCLE-KIRC,CCLE-LUSC
chr1:228782677:+>chr1:228879032:+	chr1	228782545	228782677	+	chr1	228879032	228879487	+	ENST00000366691	3016-3018	18,36,45	CCLE-BRCA,CCLE-LUSC,CCLE-SARC
chr1:228812224:+>chr1:228873420:+	chr1	228812119	228812224	+	chr1	228873420	228873478	+	ENST00000366691	3019-3021	7,11,25	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr1:228812224:+>chr1:228879032:+	chr1	228812119	228812224	+	chr1	228879032	228879487	+	ENST00000366691	3022-3024	7,11,25	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-THCA
chr1:23078200:+>chr1:23107914:+	chr1	23078115	23078200	+	chr1	23107914	23107978,23107978,23107978,23107978,23107978	+	ENST00000544305,ENST00000374630,ENST00000400191,ENST00000374632,ENST00000374627	3025-3031	29,9,28	CCLE-LUSC
chr1:23107598:+>chr1:23107914:+	chr1	23107532	23107598	+	chr1	23107914	23107978,23107978,23107978,23107978,23107978	+	ENST00000544305,ENST00000374630,ENST00000400191,ENST00000374632,ENST00000374627	3032-3038	22,23	CCLE-CESC
chr1:23107630:+>chr1:23107914:+	chr1	23107532	23107630	+	chr1	23107914	23107978,23107978,23107978,23107978,23107978	+	ENST00000544305,ENST00000374630,ENST00000400191,ENST00000374632,ENST00000374627	3039-3045	33,2	CCLE-CESC,CCLE-LUSC,CCLE-OV,CCLE-STAD

chr1:233791547:+>chr1:233802341:+	chr1	233791263	233791547	+	chr1	233802341	233802736,233802736	+	ENST00000366621,ENST00000366620,ENST00000446915	3046-3049	2,28,9	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr1:240321607:+>chr1:240341221:+	chr1	240321600	240321607	+	chr1	240341221	240341368,2	+	ENST00000447095,ENST00000319653	3050-3054	3,2	CCLE-LUSC
chr1:240502549:+>chr1:240519116:+	chr1	240502505	240502549	+	chr1	240519116	240519208,2	+	ENST00000319653,ENST00000545751	3055-3057	13,15	CCLE-BRCA,CCLE-DLBC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr1:240502549:+>chr1:240555811:+	chr1	240502505	240502549	+	chr1	240555811	240555862,2	+	ENST00000319653,ENST00000545751	3058-3060	13,15	CCLE-SARC,CCLE-SKCM
chr1:240514711:+>chr1:240519116:+	chr1	240514537	240514711	+	chr1	240519116	240519208,2	+	ENST00000319653,ENST00000545751	3061-3063	1,2,9	CCLE-SKCM
chr1:240996416:->chr1:240990472:-	chr1	240996180	240996416	-	chr1	240990472	240990472,240990472,240990472,240990472,240990472,240990472,240990472,240990472,240990472	-	ENST00000331110,ENST00000440928,ENST00000348120,ENST00000366563,ENST00000366564,ENST00000366565,ENST00000446183,ENST00000366562,ENST00000401882,ENST00000407727	3064-3069	36,6,32	CCLE-BLCA,CCLE-CESC,CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr1:241764108:->chr1:241761299:-	chr1	241764080	241764108	-	chr1	241761299	241761299,2	-	ENST00000366554,ENST00000331838	3070-3071	9,6	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr1:246772891:+>chr1:246784731:+	chr1	246772596	246772891	+	chr1	246784731	246784936,2	+	ENST00000366513,ENST00000366512	3072-3075	23,44,31	CCLE-BRCA,CCLE-CESC,CCLE-LUSC,CCLE-SKCM
chr1:25654801:+>chr1:25655389:+	chr1	25654701	25654801	+	chr1	25655389	25655415,25655415,25655506,25655627	+	ENST00000328664,ENST00000454452,ENST00000342055,ENST00000357542,ENST00000417538,ENST00000568195	3076-3081	3,11,7	CCLE-LCLL
chr1:26645586:+>chr1:26646662:+	chr1	26645518	26645586	+	chr1	26646662	26646793	+	ENST00000374213	3082-3084	23,1,14	CCLE-DLBC,CCLE-LCLL
chr1:26645728:+>chr1:26646662:+	chr1	26645663	26645728	+	chr1	26646662	26646793	+	ENST00000374213	3085-3087	1,6,13	CCLE-DLBC
chr1:27445289:->chr1:27440777:-	chr1	27445195	27445289	-	chr1	27440777	27440777,27440777,27440777	-	ENST00000263980,ENST00000374086,ENST00000374084	3088-3093	1,4,8	CCLE-LUSC
chr1:27673072:+>chr1:27673912:+	chr1	27672990	27673072	+	chr1	27673912	27674060,27673945,27674060	+	ENST00000318074,ENST00000473280,ENST00000543823	3094-3099	11,20,23	CCLE-LUSC
chr1:27676763:+>chr1:27676880:+	chr1	27676685	27676763	+	chr1	27676880	27676976,28	+	ENST00000318074,ENST00000543823	3100-3102	5,26,27	CCLE-DLBC,CCLE-LCLL,CCLE-STAD
chr1:27941229:->chr1:27941094:-	chr1	27941125	27941229	-	chr1	27941094	27941094,27941094,27941094,27941094	-	ENST00000374005,ENST00000399173,ENST00000545953,ENST00000374004,ENST00000374003	3103-3105	1,18,19	CCLE-DLBC,CCLE-LCLL
chr1:29571203:+>chr1:29581787:+	chr1	29571111	29571203	+	chr1	29581787	29581918,29581918,29581918,29581918,29581918	+	ENST00000345512,ENST00000373779,ENST00000323874,ENST00000356870,ENST00000428026,ENST00000460170	3106-3113	5,31,3	CCLE-BRCA,CCLE-LGG,CCLE-LUSC
chr1:32206636:->chr1:32206142:-	chr1	32206609	32206636	-	chr1	32206142	32206142,32206142,32206142,32206142,32206142,32206142,32206142,32206142	-	ENST00000398556,ENST00000398547,ENST00000373655,ENST00000373658,ENST00000398542,ENST00000257070,ENST00000527361,ENST00000440175,ENST00000398538,ENST00000420125	3114-3122	15,55,21	CCLE-LUSC
chr1:33334079:->chr1:33333989:-	chr1	33334047	33334079	-	chr1	33333989	33333989	-	ENST00000373471	3123-3124	15,6	CCLE-LUSC
chr1:37348850:->chr1:37346492:-	chr1	37348717	37348850	-	chr1	37346492	37346492,37	-	ENST00000373091,ENST00000373093	3125-3128	19,38,6	CCLE-LUSC
chr1:37351036:->chr1:37346492:-	chr1	37350920	37351036	-	chr1	37346492	37346492,37	-	ENST00000373091,ENST00000373093	3129-3132	27,2	CCLE-LUSC
chr1:38222208:->chr1:38201062:-	chr1	38222205	38222208	-	chr1	38201062	38201062,38201062,38201062	-	ENST00000437645,ENST00000427468,ENST00000373048,ENST00000525749	3133-3139	6,5,1	CCLE-LUSC
chr1:39786545:+>chr1:39788280:+	chr1	39786358	39786545	+	chr1	39788280	39788387,39788387,39788387,39788387,39788387,39788387,39788387,39788387	+	ENST00000545844,ENST00000567887,ENST00000372915,ENST00000361689,ENST00000317713,ENST00000539005,ENST00000524432,ENST00000564288,ENST00000530262,ENST00000372925	3140-3149	1,8,13	CCLE-LUSC
chr1:39872179:+>chr1:39888046:+	chr1	39872130	39872179	+	chr1	39888046	39888207,39888207,39888207,39888207,39888207,39888207,39888207,39888207	+	ENST00000545844,ENST00000567887,ENST00000372915,ENST00000361689,ENST00000317713,ENST00000539005,ENST00000564288,ENST00000372925,ENST00000289893,ENST00000482035	3150-3158	1,16,8	CCLE-LUSC
chr1:39892823:+>chr1:39893127:+	chr1	39892795	39892823	+	chr1	39893127	39893286,39893286,39893286,39893286,39893286,39893286,39893286,39893286	+	ENST00000545844,ENST00000567887,ENST00000372915,ENST00000361689,ENST00000317713,ENST00000539005,ENST00000564288,ENST00000372925,ENST00000289893,ENST00000482035	3159-3168	10,9,8	CCLE-LUSC
chr1:39933847:+>chr1:39934287:+	chr1	39933781	39933847	+	chr1	39934287	39934404,39934404,39934404,39934404,39934404,39934404,39934404,39934404,39934404,39934404	+	ENST00000545844,ENST00000567887,ENST00000372915,ENST00000361689,ENST00000317713,ENST00000539005,ENST00000564288,ENST00000372925,ENST00000289893,ENST00000360115,ENST00000446276,ENST00000442046,ENST00000422234	3169-3174	22,23	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr1:43816448:+>chr1:43817887:+	chr1	43816398	43816448	+	chr1	43817887	43817974	+	ENST00000372470	3175-3177	17,8	CCLE-LCLL
chr1:43816464:+>chr1:43817887:+	chr1	43816398	43816464	+	chr1	43817887	43817974	+	ENST00000372470	3178-3180	23,22,13	CCLE-LCLL
chr1:46033365:+>chr1:46033654:+	chr1	46033218	46033365	+	chr1	46033654	46033849,46033740,46033849	+	ENST00000372070,ENST00000434299,ENST00000481885,ENST00000351829	3181-3187	18,10,4	CCLE-LUSC
chr1:46485340:+>chr1:46485268:+	chr1	46480269	46485340	+	chr1	46485268	46485369,46485369,46485369	+	ENST00000372009,ENST00000361297,ENST00000372008	3188-3192	28,5,143	CCLE-LUSC
chr1:51873046:->chr1:51871780:-	chr1	51872864	51873046	-	chr1	51871780	51871780,52	-	ENST00000371733,ENST00000396122	3193-3195	25,1,39	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr1:51912376:->chr1:51910717:-	chr1	51912123	51912376	-	chr1	51910717	51910717,52	-	ENST00000371730,ENST00000371733	3196-3199	17,8,16	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr1:52391670:->chr1:52385786:-	chr1	52391436	52391670	-	chr1	52385786	52385786	-	ENST00000371655	3200-3202	39,10,24	CCLE-LUSC
chr1:53743848:->chr1:53742750:-	chr1	53743716	53743848	-	chr1	53742750	53742750,53742475,53742750	-	ENST00000306052,ENST00000371454,ENST00000480045	3203-3208	16,6	CCLE-DLBC,CCLE-LUSC
chr1:53779245:->chr1:53755361:-	chr1	53779123	53779245	-	chr1	53755361	53755361,53755361,53755361,53755361	-	ENST00000306052,ENST00000371454,ENST00000354412,ENST00000480045,ENST00000347547	3209-3214	37,36	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr1:6144694:+>chr1:6145264:+	chr1	6144596	6144694	+	chr1	6145264	6145308,6145308,6145308,6145308,6145308,6145308,6145308,6145308,6145308,6145308	+	ENST00000378111,ENST00000378097,ENST00000378092,ENST00000389632,ENST00000428161,ENST00000602612,ENST00000352527,ENST00000164247,ENST00000472700,ENST00000458166,ENST00000462676	3215-3220	10,33	CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr1:6149352:+>chr1:6150449:+	chr1	6149304	6149352	+	chr1	6150449	6150535,6150535,6150535,6150535,6150535,6150535,6150535,6150535	+	ENST00000378097,ENST00000378092,ENST00000389632,ENST00000428161,ENST00000602612,ENST00000341524,ENST00000352527,ENST00000164247,ENST00000378083,ENST00000458166	3221-3228	12,16,17	CCLE-LCLL
chr1:62290715:+>chr1:62293094:+	chr1	62290648	62290715	+	chr1	62293094	62293255,6229325,62293255	+	ENST00000316485,ENST00000371158,ENST00000484937	3229-3233	19,4,22	CCLE-BRCA,CCLE-LUSC,CCLE-STAD
chr1:62359314:+>chr1:62365255:+	chr1	62359191	62359314	+	chr1	62365255	6236532,6236532,62365326	+	ENST00000316485,ENST00000371158,ENST00000484937	3234-3237	7,19	CCLE-BRCA,CCLE-CESC,CCLE-COAD
chr1:62386167:+>chr1:62393402:+	chr1	62385908	62386167	+	chr1	62393402	62393501,6239350,62393501	+	ENST00000316485,ENST00000371158,ENST00000484937	3238-3241	21,8	CCLE-DLBC

chr1:62588315:+>chr1:62588693:+	chr1	62588215	62588315	+	chr1	62588693	62588730,63	+	ENST00000371158,ENST00000484937	3242-3246	7,34,11	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr1:6536502:->chr1:6536096:-	chr1	6536249	6536502	-	chr1	6536096	6536096,6536096,6536096,6536096,6536096,6536096,6536096,6536096,6536096,6536096,6536096,6536096	-	ENST00000400913,ENST00000340850,ENST00000377748,ENST00000377725,ENST00000377728,ENST00000377732,ENST00000400915,ENST00000377740,ENST00000535355,ENST00000377737,ENST00000537245,ENST00000544978	3247-3251	17,1,8	CCLE-COAD
chr1:6538333:->chr1:6537718:-	chr1	6538250	6538333	-	chr1	6537718	6537718,6537718,6537718,6537718,6537718,6537718	-	ENST00000377748,ENST00000377732,ENST00000400915,ENST00000377740,ENST00000535355,ENST00000553245	3252-3255	5,31,12	CCLE-PAAD
chr1:71503391:->chr1:71478167:-	chr1	71503331	71503391	-	chr1	71478167	71478167,71478167,71478167,71478167,71478167,71478167,71478167,71478167,71478167,71478167	-	ENST00000370931,ENST00000351052,ENST00000370932,ENST00000497146,ENST00000361210,ENST00000479353,ENST00000460330,ENST00000354608,ENST00000356595,ENST00000414819,ENST00000306666,ENST00000370924	3256-3267	1,37,14	CCLE-DLBC
chr1:72181733:->chr1:72163822:-	chr1	72181653	72181733	-	chr1	72163822	72163822,72	-	ENST00000357731,ENST00000306821	3268-3270	8,20,46	CCLE-LCLL
chr1:78980683:+>chr1:79002091:+	chr1	78980349	78980683	+	chr1	79002091	79002372,79002115,79002372	+	ENST00000370758,ENST00000370756,ENST00000370757	3271-3275	18,24,28	CCLE-LGG,CCLE-SARC
chr1:8025286:+>chr1:8025384:+	chr1	8025156	8025286	+	chr1	8025384	8025485,8025485,8025485,8025485,8025485,8025485	+	ENST00000493373,ENST00000338639,ENST00000493678,ENST00000377493,ENST00000377491,ENST00000377488	3276-3280	13,11,2	CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr1:82383548:+>chr1:82402412:+	chr1	82383541	82383548	+	chr1	82402412	82402521,82402521,82402521,82402521,82402521,82402521,82402521,82402521,82402521,82402521	+	ENST00000370721,ENST00000370723,ENST00000370725,ENST00000370727,ENST00000370728,ENST00000370730,ENST00000359929,ENST00000319517,ENST00000370713,ENST00000370715,ENST00000271029,ENST00000335786,ENST00000370717,ENST00000394879	3281-3291	3,2,1	CCLE-OV
chr1:84613918:+>chr1:84644860:+	chr1	84613832	84613918	+	chr1	84644860	84644921,84644921,84644921,84644921,84644921,84644921,84644921,84644921,84644921,84644921	+	ENST00000370689,ENST00000370688,ENST00000370685,ENST00000446538,ENST00000370684,ENST00000436133,ENST00000370682,ENST00000394838,ENST00000432111,ENST00000450730,ENST00000370680,ENST00000413538,ENST00000417530,ENST00000394839	3292-3302	29	CCLE-DLBC
chr1:85463503:->chr1:85431391:-	chr1	85463474	85463503	-	chr1	85431391	85431391,85	-	ENST00000370608,ENST00000463065	3303-3306	35,2	CCLE-DLBC,CCLE-LCLL
chr1:8947004:->chr1:8926506:-	chr1	8946856	8947004	-	chr1	8926506	8926560,893	-	ENST00000234590,ENST00000497492	3307-3311	9,4,23	CCLE-BLCA,CCLE-LCLL,CCLE-LUSC
chr1:90053927:+>chr1:90058330:+	chr1	90053860	90053927	+	chr1	90058330	90058602,90058602,90058602,90058602	+	ENST00000358200,ENST00000330947,ENST00000439853	3312-3313	13,1	CCLE-LGG,CCLE-PAAD
chr1:9814030:->chr1:9811739:-	chr1	9813867	9814030	-	chr1	9811739	9811739,9811739,9811739	-	ENST00000377298,ENST00000361311,ENST00000377288	3314-3317	21,11,3	CCLE-BLCA,CCLE-CESC,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr10:111874654:+>chr10:111876017:+	chr10	111874554	111874654	+	chr10	111876017	111876168,111876168,111876168	+	ENST00000360162,ENST00000356080,ENST00000277900	3318-3320	23,33	CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr10:114154577:+>chr10:114154676:+	chr10	114154560	114154577	+	chr10	114154676	114154860	+	ENST00000356116	3321-3323	6	CCLE-COAD,CCLE-LUSC,CCLE-PAAD
chr10:119793804:->chr10:119793552:+	chr10	119793730	119793804	-	chr10	119793552	119793552	-	ENST00000369199	3324-3326	11,17,16	CCLE-DLBC
chr10:121189172:+>chr10:121189887:+	chr10	121189089	121189172	+	chr10	121189887	121189950,1	+	ENST00000392870,ENST00000369108	3327-3329	18,28,8	CCLE-LGG,CCLE-LUSC,CCLE-SARC
chr10:123241584:->chr10:123239535:+	chr10	123241339	123241584	-	chr10	123239535	123239535,123239535,123239535,123239535,123239535,123239535,123239535,123239535,123239535,123239535	-	ENST00000369061,ENST00000358487,ENST00000478859,ENST00000356226,ENST00000369060,ENST00000369059,ENST00000429361,ENST00000346997,ENST00000457416	3330-3333	1,22,13	CCLE-LUSC,CCLE-STAD
chr10:124180776:+>chr10:124183715:+	chr10	124180539	124180776	+	chr10	124183715	124183779,124183779,124183779,124183779,124183779,124183779	+	ENST00000368990,ENST00000368988,ENST00000368989,ENST00000538022,ENST00000392799,ENST00000433307	3334-3338	24,5,18	CCLE-COAD,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr10:13166811:+>chr10:13167418:+	chr10	13166716	13166811	+	chr10	13167418	13167567,13167567,13167567,13167567,13167567,13167567	+	ENST00000263036,ENST00000378764,ENST00000378757,ENST00000378748,ENST00000378752,ENST00000378747	3339-3341	12,9,29	CCLE-KIRC,CCLE-LIHC,CCLE-LUSC
chr10:13173575:+>chr10:13174067:+	chr10	13173528	13173575	+	chr10	13174067	13174197,13174197,13174197,13174197,13174197,13174197	+	ENST00000263036,ENST00000378764,ENST00000378757,ENST00000378748,ENST00000378752,ENST00000378747	3342-3344	1,14,10	CCLE-BLCA,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr10:13174324:+>chr10:13175502:+	chr10	13174293	13174324	+	chr10	13175502	13175581,13175581,13175581,13175581,13175581,13175581	+	ENST00000263036,ENST00000378764,ENST00000378757,ENST00000378748,ENST00000378752,ENST00000378747	3345-3346	11	CCLE-COAD,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC
chr10:131961107:+>chr10:131964771:+	chr10	131961040	131961107	+	chr10	131964771	131964943,131964943,131964943	+	ENST00000331244,ENST00000368644,ENST00000481034	3347-3349	23,7,22	CCLE-COAD,CCLE-LUSC
chr10:13368515:->chr10:13365047:-	chr10	13368490	13368515	-	chr10	13365047	13365047,13365047,13365047	-	ENST00000327347,ENST00000545675,ENST00000537130	3350-3353	11,4	CCLE-LUSC
chr10:13373063:->chr10:13371788:-	chr10	13372830	13373063	-	chr10	13371788	13371788,13371788,13371788	-	ENST00000327347,ENST00000378614,ENST00000545675,ENST00000537130	3354-3357	111,34	CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-STAD
chr10:134394020:+>chr10:134421419:+	chr10	134393690	134394020	+	chr10	134421419	134421460,134421460,134421460	+	ENST00000368594,ENST00000368593,ENST00000423490	3358-3364	5,61,14	CCLE-LCLL
chr10:15698743:->chr10:15697405:-	chr10	15698662	15698743	-	chr10	15697405	15697405	-	ENST00000378076	3365-3366	35,6	CCLE-MM
chr10:18811167:+>chr10:18816517:+	chr10	18810816	18811167	+	chr10	18816517	18816626,18816626,18816626,18816626,18816626,18816626	+	ENST00000324631,ENST00000352115,ENST00000282343,ENST00000377331,ENST00000396576,ENST00000377319,ENST00000377329,ENST00000377315	3367-3369	4,15,41	CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-OV
chr10:25481250:+>chr10:25509981:+	chr10	25480955	25481250	+	chr10	25509981	25510086	+	ENST00000376351	3370-3372	8,25,42	CCLE-DLBC
chr10:25494077:+>chr10:25509981:+	chr10	25493797	25494077	+	chr10	25509981	25510086	+	ENST00000376351	3373-3375	8,47,19	CCLE-DLBC
chr10:25874676:+>chr10:25877936:+	chr10	25874626	25874676	+	chr10	25877936	25878074	+	ENST00000376351	3376-3378	2,17,8	CCLE-LCLL
chr10:26747331:+>chr10:26781256:+	chr10	26747317	26747331	+	chr10	26781256	26781327,27	+	ENST00000376236,ENST00000356785	3379-3382	5	CCLE-DLBC
chr10:26754805:+>chr10:26781256:+	chr10	26754643	26754805	+	chr10	26781256	26781327,27	+	ENST00000376236,ENST00000356785	3383-3385	15,11	CCLE-KIRC,CCLE-LCLL
chr10:27660632:+>chr10:27798804:+	chr10	27660358	27660632	+	chr10	27798804	27798859,27798859,27798859,27798859,27798859,27798859	+	ENST00000356940,ENST00000535776,ENST00000375802,ENST00000423465	3386-3391	58,8,18	CCLE-MM
chr10:27803349:+>chr10:27815757:+	chr10	27802448	27803349	+	chr10	27815757	27815818,27815818,27815818	+	ENST00000356940,ENST00000535776,ENST00000423465	3392-3396	4,7,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr10:29778636:->chr10:29777685:-	chr10	29778476	29778636	-	chr10	29777685	29777685,29777685,29777685,29777685,29777685,29777685	-	ENST00000375400,ENST00000375398,ENST00000355867,ENST00000535393,ENST00000538146	3397-3400	20,2,13	CCLE-BRCA,CCLE-ESCA,CCLE-LUSC
chr10:33222548:->chr10:33221528:-	chr10	33222469	33222548	-	chr10	33221528	33221528,33221528,33221528,33221528,33221528,33221528,33221528,33221528,33221528,33221528	-	ENST00000423113,ENST00000396033,ENST00000302278,ENST00000374956,ENST00000480226,ENST00000488494,ENST00000534049,ENST00000437302,ENST00000475184,ENST00000528877,ENST00000417122,ENST00000414670	3401-3413	14,22,3	CCLE-LUSC,CCLE-SARC
chr10:33224275:->chr10:33217099:-	chr10	33224250	33224275	-	chr10	33217099	33217192,33217192,33217192,33217192,33217192,33217192	-	ENST00000423113,ENST00000396033,ENST00000302278,ENST00000374956,ENST00000480226	3414-3420	22,18,20	CCLE-LUSC

chr10:33232794:->chr10:33224486:-	chr10	33232628	33232794	-	chr10	33224486	33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486	-	ENST00000423113,ENST00000396033,ENST00000302278,ENST00000374956,ENST00000480226,ENST00000488494,ENST00000534049,ENST00000437302,ENST00000475184,ENST00000528877,ENST00000417122,ENST00000414670	3421-3433	36,21,26	CCLE-KIRC,CCLE-LUSC,CCLE-PAAD
chr10:33233027:->chr10:33224486:-	chr10	33232628	33233027	-	chr10	33224486	33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486	-	ENST00000423113,ENST00000396033,ENST00000302278,ENST00000374956,ENST00000480226,ENST00000488494,ENST00000534049,ENST00000437302,ENST00000475184,ENST00000528877,ENST00000417122,ENST00000414670	3434-3446	37,21,6	CCLE-BRCA,CCLE-KIRC,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr10:33243387:->chr10:33224486:-	chr10	33243357	33243387	-	chr10	33224486	33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486	-	ENST00000423113,ENST00000396033,ENST00000302278,ENST00000374956,ENST00000480226,ENST00000488494,ENST00000534049,ENST00000437302,ENST00000475184,ENST00000528877,ENST00000417122,ENST00000414670	3447-3459	17,7,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr10:33246154:->chr10:33224486:-	chr10	33246093	33246154	-	chr10	33224486	33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486	-	ENST00000423113,ENST00000396033,ENST00000302278,ENST00000374956,ENST00000480226,ENST00000488494,ENST00000534049,ENST00000437302,ENST00000475184,ENST00000528877,ENST00000417122,ENST00000414670	3460-3471	2,12	CCLE-BLCA,CCLE-BRCA,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM
chr10:33246166:->chr10:33224486:-	chr10	33246093	33246166	-	chr10	33224486	33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486,33224486	-	ENST00000423113,ENST00000396033,ENST00000302278,ENST00000374956,ENST00000480226,ENST00000488494,ENST00000534049,ENST00000437302,ENST00000475184,ENST00000528877,ENST00000417122,ENST00000414670	3472-3483	9,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr10:33497207:->chr10:33496644:-	chr10	33497155	33497207	-	chr10	33496644	33496644,33496644,33496644,33496644,33496644,33496644,33496644,33496644,33496644,33496644	-	ENST00000374875,ENST00000265371,ENST00000374867,ENST00000395995,ENST00000374821,ENST00000374822,ENST00000374823,ENST00000374816	3484-3496	24,16	CCLE-LUSC
chr10:34591257:->chr10:34573173:-	chr10	34591248	34591257	-	chr10	34573173	34573173,34573173,34573173,34573173,34573173,34573173,34573173,34573173,34573173,34573173	-	ENST00000545260,ENST00000545693,ENST00000350537,ENST00000374788,ENST00000374789,ENST00000374790	3497-3499	12,6,16	CCLE-CESC,CCLE-LUSC
chr10:34608216:->chr10:34606266:-	chr10	34608007	34608216	-	chr10	34606266	34606266,34606266,34606266,34606266,34606266,34606266,34606266,34606266,34606266,34606266	-	ENST00000545260,ENST00000545693,ENST00000346874,ENST00000350537,ENST00000374788,ENST00000374789,ENST00000374790,ENST00000374794,ENST00000374776,ENST00000340077,ENST00000544292,ENST00000374773	3500-3504	11,28,24	CCLE-LIHC,CCLE-LUSC
chr10:34885339:->chr10:34806087:-	chr10	34885257	34885339	-	chr10	34806087	34806087,34806087,34806087,34806087,34806087,34806087,34806087,34806087,34806087,34806087	-	ENST00000545260,ENST00000545693,ENST00000346874,ENST00000350537,ENST00000374788,ENST00000374789,ENST00000374790,ENST00000374794,ENST00000374776,ENST00000340077,ENST00000374773	3505-3517	4,20,8	CCLE-DLBC
chr10:35701547:+>chr10:35772332:+	chr10	35701498	35701547	+	chr10	35772332	35772406	+	ENST00000374704	3518-3520	17,8,16	CCLE-LGG,CCLE-LUSC,CCLE-SARC
chr10:35711425:+>chr10:35772332:+	chr10	35711261	35711425	+	chr10	35772332	35772406	+	ENST00000374704	3521-3523	11,1,12	CCLE-LUSC,CCLE-SARC
chr10:35822484:+>chr10:35841947:+	chr10	35822244	35822484	+	chr10	35841947	35842113,35842113,35842113	+	ENST00000374706,ENST00000265375,ENST00000339497,ENST00000374704	3524-3526	50,80,57	CCLE-PAAD,CCLE-SARC
chr10:46258370:+>chr10:46258836:+	chr10	46258072	46258370	+	chr10	46258836	46258937,46258937,46258937,46258937,46258937	+	ENST00000336378,ENST00000537517,ENST00000540872,ENST00000374362,ENST00000359860	3527-3532	24,32,46	CCLE-BRCA,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LUSC,CCLE-OV
chr10:46267205:+>chr10:46268704:+	chr10	46267186	46267205	+	chr10	46268704	46268806,46268806,46268806,46268806,46268806	+	ENST00000336378,ENST00000537517,ENST00000540872,ENST00000374362,ENST00000359860	3533-3538	1,7,6	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr10:49489863:->chr10:49459734:-	chr10	49489781	49489863	-	chr10	49459734	49459734,49	-	ENST00000374201,ENST00000305531	3539-3542	21,10,34	CCLE-LCLL
chr10:51863336:+>chr10:51863802:+	chr10	51863038	51863336	+	chr10	51863802	51863903,51863903,51863903,51863903	+	ENST00000314664,ENST00000351071,ENST00000282633,ENST00000399339	3543-3547	24,32,46	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr10:51872168:+>chr10:51873655:+	chr10	51872149	51872168	+	chr10	51873655	51873757,51873757,51873757,51873757	+	ENST00000314664,ENST00000351071,ENST00000282633,ENST00000399339	3548-3552	1,7,6	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr10:53687146:+>chr10:53814244:+	chr10	53686869	53687146	+	chr10	53814244	53814321,53814321,53814321,53814321	+	ENST00000401604,ENST00000373985,ENST00000373980,ENST00000373976	3553-3556	19,8,46	CCLE-LCLL
chr10:62030294:->chr10:62029987:-	chr10	62030288	62030294	-	chr10	62029987	62029987,62029987,62029987,62029987	-	ENST00000280772,ENST00000373827,ENST00000503366,ENST00000503925	3557-3558	2,9	CCLE-DLBC
chr10:62423703:->chr10:62374982:-	chr10	62423553	62423703	-	chr10	62374982	62374982	-	ENST00000373827	3559-3560	3	CCLE-LUSC,CCLE-OV
chr10:71212323:+>chr10:71243447:+	chr10	71212203	71212323	+	chr10	71243447	71243632	+	ENST00000373290	3561-3563	2,40,4	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr10:71254792:+>chr10:71255350:+	chr10	71254746	71254792	+	chr10	71255350	71255445,71	+	ENST00000373290,ENST00000452130	3564-3567	7,16,2	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr10:71255006:+>chr10:71255350:+	chr10	71254967	71255006	+	chr10	71255350	71255445,71	+	ENST00000373290,ENST00000452130	3568-3571	14,13,11	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr10:71255084:+>chr10:71255350:+	chr10	71254967	71255084	+	chr10	71255350	71255445,71	+	ENST00000373290,ENST00000452130	3572-3574	40,37	CCLE-SKCM
chr10:71877764:->chr10:71877676:-	chr10	71877761	71877764	-	chr10	71877676	71877676,72	-	ENST00000373248,ENST00000307864	3575-3577	27,21,3	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr10:73034272:+>chr10:73039578:+	chr10	73034146	73034272	+	chr10	73039578	73039802,73	+	ENST00000335350,ENST00000373192	3578-3581	6,20,28	CCLE-BRCA,CCLE-COAD,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC
chr10:75758399:+>chr10:75802841:+	chr10	75758237	75758399	+	chr10	75802841	75802911,75802911,75802911,75802911	+	ENST00000211998,ENST00000372755,ENST00000417648	3582-3586	30,14,4	CCLE-LUSC,CCLE-PAAD
chr10:75823555:+>chr10:75830428:+	chr10	75823310	75823555	+	chr10	75830428	75830578,75830578,75830578,75830578	+	ENST00000211998,ENST00000372755,ENST00000417648	3587-3591	8,55,15	CCLE-LUSC
chr10:75852570:+>chr10:75854029:+	chr10	75852453	75852570	+	chr10	75854029	75854219,75854219,75854219,75854219	+	ENST00000211998,ENST00000372755,ENST00000436396	3592-3595	27,6,1	CCLE-BLCA,CCLE-CESC,CCLE-COAD,CCLE-KIRC,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr10:79468094:->chr10:79163781:-	chr10	79468013	79468094	-	chr10	79163781	79163781,79163781,79163781,79163781,79163781,79163781,79163781,79163781,79163781,79163781	-	ENST00000372437,ENST00000372408,ENST00000372421,ENST00000457953,ENST00000404771,ENST00000372440,ENST00000372443,ENST00000372403,ENST00000286628,ENST00000286627,ENST00000354353,ENST00000404857,ENST00000406533	3596-3609	8,4	CCLE-DLBC

chr10:79468130:->chr10:79163781:-	chr10	79468013	79468130	-	chr10	79163781	79163781,79163781,79163781,79163781,79163781,79163781,79163781,79163781,79163781	-	ENST00000372437,ENST00000372408,ENST00000372421,ENST00000457953,ENST00000404771,ENST00000372440,ENST00000372443,ENST00000372403,ENST00000286628,ENST00000286627,ENST00000354353,ENST00000404857,ENST00000406533	3610-3623	28,1	CCLE-DLBC
chr10:79700428:->chr10:79616650:-	chr10	79700357	79700428	-	chr10	79616650	79616650,79616650,79616650	-	ENST00000372391,ENST00000372388,ENST00000468332	3624-3628	3,2	CCLE-HNSC
chr10:82228443:+>chr10:82264484:+	chr10	82228311	82228443	+	chr10	82264484	82264534,82264534,82264534,82264534	+	ENST00000429989,ENST00000372158,ENST00000341863,ENST00000372156	3629-3633	8,19,2	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr10:82228443:+>chr10:82266984:+	chr10	82228311	82228443	+	chr10	82266984	82267130,82267130,82267130,82267130,82267130,82267130,82267130,82267130	+	ENST00000429989,ENST00000372157,ENST00000372164,ENST00000372158,ENST00000341863,ENST00000372156	3634-3639	8,19,2	CCLE-DLBC
chr10:82252357:+>chr10:82264484:+	chr10	82252291	82252357	+	chr10	82264484	82264534,82264534,82264534,82264534	+	ENST00000429989,ENST00000372158,ENST00000341863,ENST00000372156	3640-3644	23,22,13	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr10:82252389:+>chr10:82264484:+	chr10	82252291	82252389	+	chr10	82264484	82264534,82264534,82264534,82264534	+	ENST00000429989,ENST00000372158,ENST00000341863,ENST00000372156	3645-3649	33,2,24	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr10:84403183:+>chr10:84498333:+	chr10	84402888	84403183	+	chr10	84498333	84498406,84498406,84498406,84498406	+	ENST00000372141,ENST00000404547,ENST00000372142,ENST00000405576,ENST00000556918	3650-3653	46,21,8	CCLE-LGG
chr10:87479212:->chr10:87407154:-	chr10	87479134	87479212	-	chr10	87407154	87407154,87407154,87407154	-	ENST00000327946,ENST00000536331,ENST00000464741	3654-3656	8,45	CCLE-BLCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr10:89538278:->chr10:89536184:-	chr10	89538127	89538278	-	chr10	89536184	89536184,89536184,89536184,89536184	-	ENST00000308448,ENST00000328142,ENST00000400215,ENST00000541004	3657-3661	1,13,34	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr10:94224626:->chr10:94223760:-	chr10	94224438	94224626	-	chr10	94223760	94223760,94	-	ENST00000371581,ENST00000265986	3662-3664	11,34,25	CCLE-LUSC,CCLE-PAAD
chr10:94240550:->chr10:94239178:-	chr10	94240518	94240550	-	chr10	94239178	94239178,94	-	ENST00000371581,ENST00000265986	3665-3667	9,23,29	CCLE-BLCA,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr10:94318551:->chr10:94297307:-	chr10	94318347	94318551	-	chr10	94297307	94297307,94	-	ENST00000265986,ENST00000436178	3668-3671	17,3,25	CCLE-COAD,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC
chr10:95133812:->chr10:95132842:-	chr10	95133625	95133812	-	chr10	95132842	95132842,95132842,95132842,95132842,95132842	-	ENST00000463743,ENST00000358334,ENST00000359263,ENST00000371501,ENST00000371502	3672-3677	6,8,46	CCLE-PAAD
chr10:95133847:->chr10:95132842:-	chr10	95133625	95133847	-	chr10	95132842	95132842,95132842,95132842,95132842,95132842	-	ENST00000463743,ENST00000358334,ENST00000359263,ENST00000371501,ENST00000371502	3678-3679	58,34	CCLE-BLCA,CCLE-HNSC,CCLE-LUSC,CCLE-OV
chr10:95154466:->chr10:95148911:-	chr10	95154206	95154466	-	chr10	95148911	95148911,95148911,95148911,95148911	-	ENST00000358334,ENST00000359263,ENST00000371501,ENST00000371502	3680-3683	8,1	CCLE-LUSC,CCLE-PAAD
chr10:95216366:->chr10:95211898:-	chr10	95216287	95216366	-	chr10	95211898	95211898,95211898,95211898,95211898,95211898	-	ENST00000358334,ENST00000359263,ENST00000371501,ENST00000371502,ENST00000371489,ENST00000371488	3684-3691	25,24,11	CCLE-LUSC,CCLE-PAAD
chr10:95225471:->chr10:95216694:-	chr10	95225282	95225471	-	chr10	95216694	95216694,95216694,95216694,95216694,95216694	-	ENST00000358334,ENST00000359263,ENST00000371501,ENST00000371502,ENST00000371489,ENST00000371488	3692-3698	11,25	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr10:97109799:->chr10:97106209:-	chr10	97109586	97109799	-	chr10	97106209	97106209,97106209,97106209,97106209,97106209,97106209,97106209,97106209,97106209,97106209,97106209,97106209,97106209	-	ENST00000371227,ENST00000371249,ENST00000306402,ENST00000347291,ENST00000353505,ENST00000371246,ENST00000371247,ENST00000393949,ENST00000607232,ENST00000277982,ENST00000361941,ENST00000371245,ENST00000354106,ENST00000371239,ENST00000371241,ENST00000371228	3699-3705	11,25	CCLE-COAD,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr10:98044920:->chr10:98006805:-	chr10	98044707	98044920	-	chr10	98006805	98006805,98006805,98006805,98006805,98006805,98006805,98006805,98006805	-	ENST00000224337,ENST00000371176,ENST00000413476,ENST00000427367,ENST00000467799,ENST00000495266	3706-3713	1,7,71	CCLE-LCLL
chr10:98045132:->chr10:98006801:-	chr10	98044707	98045132	-	chr10	98006801	98006805,98006805,98006805,98006805,98006805,98006805,98006805,98006805	-	ENST00000224337,ENST00000371176,ENST00000413476,ENST00000427367,ENST00000467799,ENST00000495266	3714-3715	8,9	CCLE-LCLL
chr10:98358261:->chr10:98355391:-	chr10	98358235	98358261	-	chr10	98355391	98355391,98355391,98355391,98355391	-	ENST00000339364,ENST00000371110,ENST00000371109	3716-3718	4,1,9	CCLE-LCLL
chr10:98363666:->chr10:98355391:-	chr10	98363513	98363666	-	chr10	98355391	98355391,98355391,98355391,98355391	-	ENST00000339364,ENST00000371110,ENST00000371109	3719-3721	2,1	CCLE-DLBC
chr10:98378408:->chr10:98376468:-	chr10	98378372	98378408	-	chr10	98376468	98376468,98376468,98376468,98376468	-	ENST00000339364,ENST00000371110,ENST00000371109	3722-3724	8,1,22	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr10:98406187:->chr10:98405419:-	chr10	98406040	98406187	-	chr10	98405419	98405419,98	-	ENST00000339364,ENST00000371110	3725-3726	2	CCLE-DLBC
chr10:98525463:->chr10:98469740:-	chr10	98525460	98525463	-	chr10	98469740	98469740	-	ENST00000339364	3727-3729	1,6,4	CCLE-DLBC
chr11:100156616:+>chr11:100168357:+	chr11	100156479	100156616	+	chr11	100168357	100168427,100168427,100168427,100168427,100168427	+	ENST00000527185,ENST00000528682,ENST00000524871,ENST00000418526,ENST00000279463	3730-3733	22,15,8	CCLE-BLCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-STAD
chr11:102992583:+>chr11:102993554:+	chr11	102992523	102992583	+	chr11	102993554	102993729,102993729,102993729	+	ENST00000375735,ENST00000334267,ENST00000398093	3734-3738	1,8,20	CCLE-ESCA,CCLE-LUSC
chr11:103213647:+>chr11:103228971:+	chr11	103213636	103213647	+	chr11	103228971	103229087,103229087,103229087	+	ENST00000375735,ENST00000398093,ENST00000533197	3739-3742	4	CCLE-COAD,CCLE-LUSC
chr11:107783355:+>chr11:107799319:+	chr11	107782497	107783355	+	chr11	107799319	107799521	+	ENST00000320578	3743-3745	15,28,12	CCLE-ESCA
chr11:107783355:+>chr11:107832672:+	chr11	107782497	107783355	+	chr11	107832672	107833098	+	ENST00000320578	3746-3748	15,28,12	CCLE-ESCA,CCLE-LUSC
chr11:110131634:->chr11:110128914:-	chr11	110131380	110131634	-	chr11	110128914	110128914,110128914,110128914,110128914,110128914,110128914,110128914,110128914	-	ENST00000528498,ENST00000530749,ENST00000405097,ENST00000530301,ENST00000343115,ENST00000544551,ENST00000530131,ENST00000532118	3749-3758	5,2,32	CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM
chr11:113583128:->chr11:113570890:-	chr11	113583110	113583128	-	chr11	113570890	113570890,113570890,113570890	-	ENST00000299882,ENST00000544634,ENST00000538091	3759-3762	104,15	CCLE-LUSC
chr11:113585432:->chr11:113570890:-	chr11	113583110	113585432	-	chr11	113570890	113570890,113570890,113570890	-	ENST00000299882,ENST00000544634,ENST00000538091	3763-3767	1,7,25	CCLE-LCLL
chr11:113858437:+>chr11:113860187:+	chr11	113858174	113858437	+	chr11	113860187	113860485,113860485,113860485,113860485,113860485,113860485,113860485,113860485	+	ENST00000504030,ENST00000355556,ENST00000375498,ENST00000506841,ENST00000535865,ENST00000299961	3768-3770	21,16,1	CCLE-DLBC,CCLE-LUSC
chr11:117359529:->chr11:117352877:-	chr11	117359502	117359529	-	chr11	117352877	117352877,1	-	ENST00000527706,ENST00000321322	3771-3773	23,6,14	CCLE-LGG
chr11:117969154:+>chr11:117969700:+	chr11	117969133	117969154	+	chr11	117969700	117969813,117969813,117969813,117969813,117969813,117969813,117969813,117969813	+	ENST00000534111,ENST00000519236,ENST00000517483,ENST00000437212,ENST00000522824,ENST00000522151	3774-3779	8,7	CCLE-PAAD
chr11:119156965:+>chr11:119158562:+	chr11	119156727	119156965	+	chr11	119158562	119158656	+	ENST00000264033	3780-3782	4,2,48	CCLE-LCLL
chr11:122950690:->chr11:122945551:-	chr11	122950675	122950690	-	chr11	122945551	122945551	-	ENST00000448775	3783-3784	6,5	CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM

chr11:122956039:->chr11:122929145:-	chr11	122955952	122956039	-	chr11	122929145	122929192,122929192,122929192,122929192,122929192,122929192	-	ENST00000532636,ENST00000533540,ENST00000534624,ENST00000227378,ENST00000534319,ENST00000526110,ENST00000524552,ENST00000526686	3785-3789	73,19,5	CCLE-COAD,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SKCM,CCLE-STAD
chr11:122966541:->chr11:122955421:-	chr11	122966278	122966541	-	chr11	122955421	122955421	-	ENST00000448775	3790-3792	7,21,2	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr11:126162175:+>chr11:126162372:+	chr11	126161920	126162175	+	chr11	126162372	126162950,126163012,126162950,126162950	+	ENST00000392679,ENST00000392678,ENST00000392680,ENST00000479770	3793-3796	11,32,19	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr11:126163075:+>chr11:126163563:+	chr11	126163030	126163075	+	chr11	126163563	126163582,126163582,126163582	+	ENST00000392679,ENST00000392680,ENST00000479770	3797-3799	16,11,14	CCLE-BRCA,CCLE-LCLL,CCLE-LUSC
chr11:126310746:->chr11:126310444:-	chr11	126310533	126310746	-	chr11	126310444	126310444,126310444,126310444	-	ENST00000525144,ENST00000529097,ENST00000525704	3800-3804	9,16,2	CCLE-SKCM
chr11:128849880:->chr11:128848810:-	chr11	128849844	128849880	-	chr11	128848810	128848810,128848810,128848810,128848810	-	ENST00000310343,ENST00000392657,ENST00000524655,ENST00000527272	3805-3808	18,36,3	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr11:128853035:->chr11:128851831:-	chr11	128852962	128853035	-	chr11	128851831	128851831,128851831,128851831,128851831	-	ENST00000310343,ENST00000392657,ENST00000524655,ENST00000527272	3809-3810	9,37	CCLE-COAD
chr11:128982956:->chr11:128963602:-	chr11	128982422	128982956	-	chr11	128963602	128963602,128963602,128963602	-	ENST00000310343,ENST00000524655,ENST00000525234	3811-3815	18,1,5	CCLE-BRCA,CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr11:129105979:->chr11:129034322:-	chr11	129105845	129105979	-	chr11	129034322	129034322	-	ENST00000310343	3816-3817	47,7	CCLE-LUSC
chr11:129947209:+>chr11:129979324:+	chr11	129947089	129947209	+	chr11	129979324	129979497,129979497,129979497,129979497,129979497,129979497,129979497	+	ENST00000533195,ENST00000533713,ENST00000534582,ENST00000528499,ENST00000263574,ENST00000345598,ENST00000338167,ENST00000278756	3818-3826	20,3,1	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr11:129953958:+>chr11:129979324:+	chr11	129953860	129953958	+	chr11	129979324	129979497,129979497,129979497,129979497,129979497,129979497,129979497	+	ENST00000533195,ENST00000533713,ENST00000534582,ENST00000528499,ENST00000263574,ENST00000345598,ENST00000338167,ENST00000278756	3827-3835	33,2,24	CCLE-LUSC
chr11:129978600:+>chr11:129979324:+	chr11	129977262	129978600	+	chr11	129979324	129979497,129979497,129979497,129979497,129979497,129979497,129979497	+	ENST00000533195,ENST00000533713,ENST00000534582,ENST00000528499,ENST00000263574,ENST00000345598,ENST00000338167,ENST00000278756	3836-3844	19,11,30	CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr11:129978878:+>chr11:129979324:+	chr11	129977262	129978878	+	chr11	129979324	129979497,129979497,129979497,129979497,129979497,129979497,129979497	+	ENST00000533195,ENST00000533713,ENST00000534582,ENST00000528499,ENST00000263574,ENST00000345598,ENST00000338167,ENST00000278756	3845-3846	50,34	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr11:129987754:+>chr11:129990601:+	chr11	129987686	129987754	+	chr11	129990601	129990615,129990718,129990713,129990713,129990713,129990713	+	ENST00000533616,ENST00000533713,ENST00000528499,ENST00000263574,ENST00000338167,ENST00000278756,ENST00000543137	3847-3853	23,14	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr11:131934043:+>chr11:132016176:+	chr11	131934010	131934043	+	chr11	132016176	132016408,132016408,132016408,132016408,132016408,132016408	+	ENST00000374791,ENST00000539799,ENST00000550167,ENST00000427481,ENST00000374786,ENST00000425719,ENST00000374784	3854-3859	11,12	CCLE-SKCM
chr11:132189100:+>chr11:132200047:+	chr11	132189031	132189100	+	chr11	132200047	132200079,132200079,132200079,132200079	+	ENST00000539799,ENST00000427481,ENST00000425719,ENST00000457381	3860-3862	6,16,23	CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr11:14307071:->chr11:14303266:-	chr11	14306945	14307071	-	chr11	14303266	14303266,14303266,14303266,14303266,14303266,14303266,14303266,14303266	-	ENST00000545643,ENST00000537760,ENST00000414023,ENST00000529237,ENST00000256196,ENST00000534746,ENST00000526063,ENST00000532814,ENST00000531807,ENST00000531421	3863-3868	7,24,40	CCLE-LUSC,CCLE-SARC
chr11:14333112:->chr11:14317401:-	chr11	14332922	14333112	-	chr11	14317401	14317419,14317401,14317401,14317401	-	ENST00000545643,ENST00000537760,ENST00000256196,ENST00000531807	3869-3872	17,33,25	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr11:14347046:->chr11:14317401:-	chr11	14346857	14347046	-	chr11	14317401	14317419,14317401,14317401,14317401	-	ENST00000545643,ENST00000537760,ENST00000256196,ENST00000531807	3873-3876	2,32,24	CCLE-DLBC,CCLE-LGG,CCLE-OV
chr11:14347078:->chr11:14317401:-	chr11	14346857	14347078	-	chr11	14317401	14317419,14317401,14317401,14317401	-	ENST00000545643,ENST00000537760,ENST00000256196,ENST00000531807	3877-3880	22,13	CCLE-DLBC
chr11:14481322:->chr11:14480233:-	chr11	14481164	14481322	-	chr11	14480233	14480233,14	-	ENST00000249923,ENST00000439561	3881-3883	20,33,7	CCLE-DLBC,CCLE-PAAD
chr11:14500197:->chr11:14498561:-	chr11	14500180	14500197	-	chr11	14498561	14498561,14498561,14498561	-	ENST00000249923,ENST00000439561,ENST00000534234	3884-3887	34,33	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr11:14503766:->chr11:14502643:-	chr11	14503638	14503766	-	chr11	14502643	14502643,14502643,14502643	-	ENST00000249923,ENST00000439561,ENST00000534234	3888-3891	2,13,25	CCLE-LCLL
chr11:1870586:+>chr11:1901317:+	chr11	1870488	1870586	+	chr11	1901317	1901454,1901454,1901454,1901454,1901454	+	ENST00000311604,ENST00000381775,ENST00000457279,ENST00000429923,ENST00000418975	3892-3897	11,33	CCLE-DLBC
chr11:2398150:+>chr11:2411642:+	chr11	2398115	2398150	+	chr11	2411642	2411756,2411756,2411756,2411756,2411756,2411756,2411756	+	ENST00000263645,ENST00000533417,ENST00000527343,ENST00000464784,ENST00000493525,ENST00000381036,ENST00000492252	3898-3904	12	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr11:2497147:+>chr11:2549158:+	chr11	2496880	2497147	+	chr11	2549158	2549248,2549248,2549248,2549203	+	ENST00000496887,ENST00000155840,ENST00000335475,ENST00000380776	3905-3912	21,46,8	CCLE-DLBC
chr11:2644477:+>chr11:2683191:+	chr11	2644193	2644477	+	chr11	2683191	2683311,268	+	ENST00000155840,ENST00000335475	3913-3914	13,16	CCLE-DLBC,CCLE-LCLL
chr11:2644477:+>chr11:2683195:+	chr11	2644193	2644477	+	chr11	2683195	2683311,268	+	ENST00000155840,ENST00000335475	3915-3916	13,29	CCLE-LCLL
chr11:26783225:->chr11:26734253:-	chr11	26783189	26783225	-	chr11	26734253	26734253,27	-	ENST00000396005,ENST00000280467	3917-3920	11,1,13	CCLE-LUSC
chr11:27172597:->chr11:26734253:-	chr11	27172515	27172597	-	chr11	26734253	26734253,27	-	ENST00000396005,ENST00000280467	3921-3924	10,32,58	CCLE-HNSC,CCLE-LUSC,CCLE-SARC
chr11:322596:->chr11:320772:-	chr11	322581	322596	-	chr11	320772	320813	-	ENST00000399808	3925-3927	13,34,1	CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr11:323601:->chr11:320772:-	chr11	323266	323601	-	chr11	320772	320813	-	ENST00000399808	3928-3930	3,56,24	CCLE-LCLL
chr11:329148:->chr11:320772:-	chr11	328905	329148	-	chr11	320772	320813	-	ENST00000399808	3931-3933	23,22,13	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr11:35110122:+>chr11:35198122:+	chr11	35109872	35110122	+	chr11	35198122	35198287,35198291,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287	+	ENST00000263398,ENST00000526025,ENST00000360158,ENST00000415148,ENST00000433354,ENST00000437706,ENST00000449691,ENST00000428726,ENST00000526669,ENST00000425428,ENST00000433892,ENST00000278386,ENST00000434472,ENST00000352818,ENST00000442151,ENST00000525211,ENST00000526000	3934-3952	67,6,35	CCLE-LCLL
chr11:35196986:+>chr11:35198122:+	chr11	35196893	35196986	+	chr11	35198122	35198287,35198291,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287,35198287	+	ENST00000263398,ENST00000526025,ENST00000360158,ENST00000415148,ENST00000433354,ENST00000437706,ENST00000449691,ENST00000428726,ENST00000526669,ENST00000425428,ENST00000433892,ENST00000278386,ENST00000434472,ENST00000352818,ENST00000442151,ENST00000525211,ENST00000526000	3953-3971	31,18,14	CCLE-BRCA,CCLE-LGG,CCLE-SARC,CCLE-SKCM

chr11:35209880:+>chr11:35211382:+	chr11	35209872	35209880	+	chr11	35211382	35211612,35211612,35211612,35211612,35211612,35211612,35211612,35211612,35211519,35211519,35211519,35211612,35211612,35211612	+	ENST00000263398,ENST00000360158,ENST00000415148,ENST00000433354,ENST00000437706,ENST00000449691,ENST00000428726,ENST00000433892,ENST00000434472,ENST00000352818,ENST00000442151,ENST00000525211,ENST00000526000,ENST00000279452,ENST00000527889,ENST00000528455,ENST00000531873,ENST00000531110,ENST00000525685	3972-3992	3	CCLE-COAD,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr11:35342591:->chr11:35339063:-	chr11	35342476	35342591	-	chr11	35339063	35339063,35339063,35339063	-	ENST00000278379,ENST00000606205,ENST00000449068	3993-3997	1,3,30	CCLE-COAD
chr11:36103877:+>chr11:36119877:+	chr11	36103777	36103877	+	chr11	36119877	36120011,36120011,36120011	+	ENST00000524419,ENST00000528989,ENST00000315571	3998-4002	3,25,11	CCLE-LUSC,CCLE-SKCM
chr11:36119546:+>chr11:36119877:+	chr11	36119405	36119546	+	chr11	36119877	36120011,36120011,36120011	+	ENST00000524419,ENST00000528989,ENST00000315571	4003-4007	15,8,18	CCLE-LCLL
chr11:36119546:+>chr11:36119880:+	chr11	36119405	36119546	+	chr11	36119880	36120011,36120011,36120011	+	ENST00000524419,ENST00000528989,ENST00000315571	4008-4012	15,8,18	CCLE-LCLL
chr11:36166181:+>chr11:36248635:+	chr11	36165452	36166181	+	chr11	36248635	36248980,36248980,36248980	+	ENST00000524419,ENST00000528989,ENST00000315571	4013-4015	1,15,50	CCLE-LUSC
chr11:36166221:+>chr11:36248635:+	chr11	36165452	36166221	+	chr11	36248635	36248980,36248980,36248980	+	ENST00000524419,ENST00000528989,ENST00000315571	4016-4018	1,28,15	CCLE-HNSC,CCLE-OV
chr11:36166261:+>chr11:36248635:+	chr11	36165452	36166261	+	chr11	36248635	36248980,36248980,36248980	+	ENST00000524419,ENST00000528989,ENST00000315571	4019-4021	28,15,12	CCLE-HNSC
chr11:36166305:+>chr11:36248635:+	chr11	36165452	36166305	+	chr11	36248635	36248980,36248980,36248980	+	ENST00000524419,ENST00000528989,ENST00000315571	4022-4024	29,27,14	CCLE-BRCA,CCLE-HNSC
chr11:4020917:+>chr11:4045103:+	chr11	4020820	4020917	+	chr11	4045103	4045217,4045217,4045217,4045217,4045217,4045217,4045217,4045217,4045217	+	ENST00000525403,ENST00000300737,ENST00000527651,ENST00000532610,ENST00000532919,ENST00000530554,ENST00000524822,ENST00000525055,ENST00000528656,ENST00000532990	4025-4036	7,32,1	CCLE-BLCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr11:4074745:+>chr11:4076756:+	chr11	4073046	4074745	+	chr11	4076756	4076867,4076867,4076867,4076867,4076867,4076834,4076840,4076867,4076795	+	ENST00000525403,ENST00000300737,ENST00000527651,ENST00000532610,ENST00000532919,ENST00000530554,ENST00000525055,ENST00000528656,ENST00000532990	4037-4046	114,34	CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-SKCM
chr11:43423386:+>chr11:43425548:+	chr11	43423247	43423386	+	chr11	43425548	43425694,43	+	ENST00000299240,ENST00000039989	4047-4050	47,3,13	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr11:43467522:+>chr11:43469552:+	chr11	43467443	43467522	+	chr11	43469552	43469672	+	ENST00000039989	4051-4052	23,11	CCLE-DLBC,CCLE-LCLL
chr11:46389849:+>chr11:46391044:+	chr11	46389807	46389849	+	chr11	46391044	46391100,46391100,46391100,46391047,46391100,46391100,46391100,46391100,46391100	+	ENST00000343674,ENST00000532868,ENST00000395574,ENST00000527911,ENST00000533376,ENST00000456247,ENST00000421244,ENST00000318201,ENST00000454345,ENST00000524448	4053-4059	15,13	CCLE-COAD,CCLE-LCLL,CCLE-LUSC
chr11:46389853:+>chr11:46391044:+	chr11	46389807	46389853	+	chr11	46391044	46391100,46391100,46391100,46391047,46391100,46391100,46391100,46391100,46391100	+	ENST00000343674,ENST00000532868,ENST00000395574,ENST00000527911,ENST00000533376,ENST00000456247,ENST00000421244,ENST00000318201,ENST00000454345,ENST00000524448	4060-4067	16,15,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr11:46919747:->chr11:46918545:-	chr11	46918923	46919747	-	chr11	46918545	46918545	-	ENST00000378623	4068-4070	1,2	CCLE-COAD,CCLE-HNSC,CCLE-LUSC
chr11:47460073:->chr11:47459598:-	chr11	47459937	47460073	-	chr11	47459598	47459598,47459598,47459598	-	ENST00000298854,ENST00000352508,ENST00000524487	4071-4074	11,34,14	CCLE-SARC
chr11:48036801:+>chr11:48131610:+	chr11	48036718	48036801	+	chr11	48131610	48131628,48131628,48131628,48131628	+	ENST00000418331,ENST00000440289,ENST00000534219,ENST00000527952	4075-4082	6,28,14	CCLE-LCLL
chr11:48044082:+>chr11:48131610:+	chr11	48044047	48044082	+	chr11	48131610	48131628,48131628,48131628,48131628	+	ENST00000418331,ENST00000440289,ENST00000534219,ENST00000527952	4083-4088	12,6	CCLE-DLBC,CCLE-LUSC
chr11:48066423:+>chr11:48131610:+	chr11	48066369	48066423	+	chr11	48131610	48131628,48131628,48131628,48131628	+	ENST00000418331,ENST00000440289,ENST00000534219,ENST00000527952	4089-4096	18,7	CCLE-DLBC,CCLE-LUSC
chr11:57452387:+>chr11:57455980:+	chr11	57452338	57452387	+	chr11	57455980	57456137,57456137,57456137	+	ENST00000527985,ENST00000287169,ENST00000529447	4097-4100	17,16,8	CCLE-LUSC
chr11:57454861:+>chr11:57455980:+	chr11	57454763	57454861	+	chr11	57455980	57456137,57456137,57456137	+	ENST00000527985,ENST00000287169,ENST00000529447	4101-4104	11,7,33	CCLE-LUSC
chr11:57464437:+>chr11:57466031:+	chr11	57464387	57464437	+	chr11	57466031	57466890,57466890,57466307	+	ENST00000527985,ENST00000287169,ENST00000529447	4105-4108	17,8	CCLE-LUSC,CCLE-PAAD
chr11:57565637:+>chr11:57569205:+	chr11	57565543	57565637	+	chr11	57569205	57569668,57569266	+	ENST00000524630,ENST00000529919,ENST00000399039,ENST00000360682,ENST00000361796,ENST00000358694,ENST00000361332,ENST00000361391,ENST00000399050,ENST00000415361,ENST00000426142,ENST00000428599,ENST00000526357,ENST00000528232,ENST00000528621,ENST00000529526,ENST00000529873,ENST00000529986,ENST00000530094,ENST00000530748,ENST00000532245,ENST00000532463,ENST00000532649,ENST00000532787,ENST00000532844,ENST00000534579,ENST00000526938,ENST00000534647	4109-4119	31,2,24	CCLE-LUSC
chr11:58330163:->chr11:58322413:-	chr11	58329995	58330163	-	chr11	58322413	58322413,58322413,58322413,58322413	-	ENST00000530561,ENST00000395074,ENST00000528954,ENST00000528489	4120-4122	52,2	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr11:58337062:->chr11:58331674:-	chr11	58336850	58337062	-	chr11	58331674	58331674,58331674,58331674	-	ENST00000530561,ENST00000395074,ENST00000528954	4123-4126	7,34,11	CCLE-DLBC,CCLE-SKCM,CCLE-STAD
chr11:58344207:->chr11:58338186:-	chr11	58344108	58344207	-	chr11	58338186	58338186,58338186,58338186,58338186	-	ENST00000530561,ENST00000395074,ENST00000528954,ENST00000528489	4127-4131	12,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr11:58345459:->chr11:58338186:-	chr11	58345359	58345459	-	chr11	58338186	58338186,58338186,58338186,58338186	-	ENST00000530561,ENST00000395074,ENST00000528954,ENST00000528489	4132-4137	4,1,15	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr11:60232325:+>chr11:60233394:+	chr11	60232155	60232325	+	chr11	60233394	60233630,60233630,60233630,60233417,60233630	+	ENST00000345732,ENST00000532073,ENST00000534668,ENST00000533306,ENST00000389939	4138-4143	19,1,7	CCLE-DLBC
chr11:60760851:+>chr11:60774046:+	chr11	60760782	60760851	+	chr11	60774046	60774114,60774114,60774114,60774114,60774114,60774114,60774114	+	ENST00000344028,ENST00000346437,ENST00000313421,ENST00000344931,ENST00000542157,ENST00000433107,ENST00000352009,ENST00000452451	4144-4153	10,23	CCLE-DLBC,CCLE-LCLL
chr11:60861788:+>chr11:60882528:+	chr11	60861523	60861788	+	chr11	60882528	60882566,61	+	ENST00000347785,ENST00000544014	4154-4157	51,2,16	CCLE-DLBC
chr11:60934002:->chr11:60901679:-	chr11	60933230	60934002	-	chr11	60901679	60901679,61	-	ENST00000301765,ENST00000538036	4158-4161	1,50,25	CCLE-LUSC
chr11:60934039:->chr11:60901679:-	chr11	60933230	60934039	-	chr11	60901679	60901679,61	-	ENST00000301765,ENST00000538036	4162-4165	27,38,12	CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr11:61296834:->chr11:61295657:-	chr11	61296806	61296834	-	chr11	61295657	61295657,61295657,61295657,61295657,61295657,61295657	-	ENST00000263846,ENST00000540677,ENST00000539008,ENST00000542836,ENST00000542670,ENST00000535826,ENST00000545053	4166-4169	11,26,50	CCLE-LUSC
chr11:61355752:->chr11:61323679:-	chr11	61355745	61355752	-	chr11	61323679	61323679,61323679,61323679,61323679,61323679,61323679,61323679	-	ENST00000263846,ENST00000540677,ENST00000539008,ENST00000539246,ENST00000539468,ENST00000542836,ENST00000542670,ENST00000535826,ENST00000545053	4170-4181	16,30,22	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-STAD

chr11:62651584:+>chr11:62651929:+	chr11	62651471	62651584	+	chr11	62651929	62651997,62651997,62651997,62651997,62651997,62651997,62651997	+	ENST00000377892,ENST00000377890,ENST00000377891,ENST00000377889,ENST00000535296,ENST00000033866	4182-4183	30,2	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr11:63619862:+>chr11:63662631:+	chr11	63619454	63619862	+	chr11	63662631	63662810,63662810,63662810,63662810,63662810,63662810,63662747,63662698	+	ENST00000315032,ENST00000377809,ENST00000402010,ENST00000413835,ENST00000508192,ENST00000361128,ENST00000350490,ENST00000502399,ENST00000543674,ENST00000512060	4184-4195	5,1,14	CCLE-LUSC
chr11:639158:+>chr11:639433:+	chr11	639109	639158	+	chr11	639433	639545	+	ENST00000176183	4196-4198	1,16,8	CCLE-DLBC
chr11:64625910:->chr11:64622958:-	chr11	64625654	64625910	-	chr11	64622958	64622958,64622958,64622958,64622958	-	ENST00000320631,ENST00000359393,ENST00000421510,ENST00000433803	4199-4203	17,8,16	CCLE-SARC
chr11:64643083:->chr11:64641990:-	chr11	64643077	64643083	-	chr11	64641990	64641990,64641990,64641990,64641990	-	ENST00000320631,ENST00000359393,ENST00000433803,ENST00000457202,ENST00000411683	4204-4213	66,68,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr11:64972033:+>chr11:64972154:+	chr11	64971978	64972033	+	chr11	64972154	64972329,64972329,64972329,64972329	+	ENST00000533820,ENST00000533129,ENST00000524773,ENST00000279247,ENST00000527323	4214-4216	17,19,18	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-STAD
chr11:64975170:+>chr11:64975526:+	chr11	64975103	64975170	+	chr11	64975526	64975591,64975591,64975591,64975591	+	ENST00000533820,ENST00000533129,ENST00000524773,ENST00000279247,ENST00000527323	4217-4219	1,12,2	CCLE-LUSC,CCLE-PAAD
chr11:65653421:->chr11:65653134:-	chr11	65653358	65653421	-	chr11	65653134	65653134,65653134,65653134,65653134	-	ENST00000338369,ENST00000357519,ENST00000533045,ENST00000533037,ENST00000532229	4220-4226	1	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr11:66134582:->chr11:66134035:-	chr11	66134554	66134582	-	chr11	66134035	66134035,66134035,66134035,66134035	-	ENST00000357440,ENST00000540386,ENST00000544554,ENST00000546034	4227-4229	15,3	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr11:66824875:+>chr11:66833367:+	chr11	66824810	66824875	+	chr11	66833367	66833454,67	+	ENST00000308831,ENST00000533360	4230-4233	22,5	CCLE-BLCA,CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-STAD
chr11:66830730:+>chr11:66833367:+	chr11	66830715	66830730	+	chr11	66833367	66833454,67	+	ENST00000308831,ENST00000533360	4234-4237	5,6	CCLE-LUSC
chr11:66830867:+>chr11:66833367:+	chr11	66830715	66830867	+	chr11	66833367	66833454,67	+	ENST00000308831,ENST00000533360	4238-4241	1,8,40	CCLE-LUSC
chr11:67052042:+>chr11:67052318:+	chr11	67051974	67052042	+	chr11	67052318	67052454	+	ENST00000308595	4242-4244	1,23,14	CCLE-LCLL
chr11:68116230:+>chr11:68125118:+	chr11	68116134	68116230	+	chr11	68125118	68125315,68	+	ENST00000294304,ENST00000529993	4245-4248	32,25,11	CCLE-LIHC,CCLE-LUSC
chr11:68133364:+>chr11:68153784:+	chr11	68133291	68133364	+	chr11	68153784	68154180,68	+	ENST00000294304,ENST00000529993	4249-4252	3,21,25	CCLE-LUSC
chr11:68135961:+>chr11:68153784:+	chr11	68135920	68135961	+	chr11	68153784	68154180,68	+	ENST00000294304,ENST00000529993	4253-4256	14,1,3	CCLE-BRCA,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD
chr11:68139945:+>chr11:68153784:+	chr11	68139937	68139945	+	chr11	68153784	68154180,68	+	ENST00000294304,ENST00000529993	4257-4260	3	CCLE-LIHC
chr11:68148530:+>chr11:68153784:+	chr11	68148366	68148530	+	chr11	68153784	68154180,68	+	ENST00000294304,ENST00000529993	4261-4264	2,14,19	CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr11:70260236:+>chr11:70260648:+	chr11	70260170	70260236	+	chr11	70260648	70260758,70260758,70260758	+	ENST00000346329,ENST00000301843,ENST00000376561,ENST00000415461	4265-4270	23,22,13	CCLE-ESCA
chr11:71728382:->chr11:71727576:-	chr11	71728310	71728382	-	chr11	71727576	71727576,71727576,71727576,71727576	-	ENST00000351960,ENST00000358965,ENST00000393695,ENST00000542977,ENST00000537217	4271-4278	2,12,27	CCLE-DLBC,CCLE-LUSC
chr11:71732867:->chr11:71732337:-	chr11	71732672	71732867	-	chr11	71732337	71732337,71732337,71732337,71732337,71732337,71732337,71732337,71732337	-	ENST00000351960,ENST00000358965,ENST00000393695,ENST00000542977,ENST00000537217,ENST00000544238,ENST00000543937,ENST00000543009,ENST00000537930,ENST00000544129,ENST00000535947	4279-4290	9,31,22	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr11:72339606:->chr11:72319795:-	chr11	72339375	72339606	-	chr11	72319795	72319795,72319795,72319795,72319795,72319795,72319795,72319795,72319795	-	ENST00000334456,ENST00000376450,ENST00000539367,ENST00000444035,ENST00000544570,ENST00000540345,ENST00000536308,ENST00000543575,ENST00000541998,ENST00000538749,ENST00000537631,ENST00000542969	4291-4299	22,13	CCLE-LUSC
chr11:72667588:->chr11:72632995:-	chr11	72667478	72667588	-	chr11	72632995	72632995,72632995,72632995,72632995	-	ENST00000311172,ENST00000409314,ENST00000409418,ENST00000458644,ENST00000409853	4300-4304	30,24,8	CCLE-DLBC
chr11:72747122:->chr11:72726930:-	chr11	72747110	72747122	-	chr11	72726930	72726930,72726930	-	ENST00000409314,ENST00000409418,ENST00000422375	4305-4309	5,1,8	CCLE-DLBC,CCLE-LIHC,CCLE-LUSC,CCLE-MM
chr11:74830434:+>chr11:74873700:+	chr11	74830343	74830434	+	chr11	74873700	74873830	+	ENST00000289575	4310-4312	7,1,8	CCLE-KIRC,CCLE-LUSC
chr11:77992114:->chr11:77991947:-	chr11	77992007	77992114	-	chr11	77991947	77991947	-	ENST00000361507	4313-4315	12,1,8	CCLE-LCLL
chr11:77992286:->chr11:77991947:-	chr11	77992007	77992286	-	chr11	77991947	77991947	-	ENST00000361507	4316-4316	1	CCLE-LCLL
chr11:78076313:->chr11:77991947:-	chr11	78076223	78076313	-	chr11	77991947	77991947	-	ENST00000361507	4317-4319	5,6	CCLE-BLCA,CCLE-CESC,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-OV
chr11:78394752:->chr11:78387432:-	chr11	78388818	78394752	-	chr11	78387432	78387432,78	-	ENST00000278550,ENST00000530738	4320-4323	1,7,32	CCLE-LUSC
chr11:85494200:->chr11:85459466:-	chr11	85494117	85494200	-	chr11	85459466	85459466,85459466,85459466,85459466	-	ENST00000389960,ENST00000316356,ENST00000528231,ENST00000524452	4324-4328	40,50,11	CCLE-DLBC
chr11:8733451:->chr11:8732778:-	chr11	8733437	8733451	-	chr11	8732778	8732778,8732778,8732778,8732778,8732778,8732778,8732778,8732778	-	ENST00000526757,ENST00000534127,ENST00000313726,ENST00000530991,ENST00000357665,ENST00000526099,ENST00000530438,ENST00000533020,ENST00000530338,ENST00000530593	4329-4336	22,75,74	CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SKCM,CCLE-STAD
chr11:89279805:->chr11:89185063:-	chr11	89279728	89279805	-	chr11	89185063	89185063,89185063,89185063,89185063,89185063,89185063,89185063,89185063	-	ENST00000535633,ENST00000424319,ENST00000343727,ENST00000534731,ENST00000525196,ENST00000026331,ENST00000532825,ENST00000527956,ENST00000542487,ENST00000528341,ENST00000413594,ENST00000529343	4337-4342	66,63,9	CCLE-SKCM
chr11:89901463:+>chr11:89902097:+	chr11	89900185	89901463	+	chr11	89902097	89902160,9	+	ENST00000534061,ENST00000321955	4343-4345	32,2,9	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-STAD
chr11:89901659:+>chr11:89902097:+	chr11	89901539	89901659	+	chr11	89902097	89902160,9	+	ENST00000534061,ENST00000321955	4346-4348	13,5,35	CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr11:92710953:+>chr11:92714613:+	chr11	92710864	92710953	+	chr11	92714613	92715478	+	ENST00000257068	4349-4351	30,2	CCLE-DLBC
chr11:94149053:->chr11:94129690:-	chr11	94148993	94149053	-	chr11	94129690	94129690	-	ENST00000243673	4352-4354	74,21,7	CCLE-LCLL,CCLE-MM
chr11:946963:+>chr11:959437:+	chr11	946784	946963	+	chr11	959437	959505,959505,959505,959505,959505,959505,959505	+	ENST00000534328,ENST00000332231,ENST00000448903,ENST00000528815,ENST00000531548,ENST00000534485,ENST00000527024	4355-4363	16,3,18	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr11:9618744:+>chr11:9715693:+	chr11	9618612	9618744	+	chr11	9715693	9715833,9715833,9715833	+	ENST00000447389,ENST00000318950,ENST00000526358	4364-4368	4,13,1	CCLE-DLBC
chr11:9720850:+>chr11:9735013:+	chr11	9720611	9720850	+	chr11	9735013	9735186,974	+	ENST00000318950,ENST00000526358	4369-4372	3,10,6	CCLE-DLBC
chr11:9766596:+>chr11:9769405:+	chr11	9766554	9766596	+	chr11	9769405	9769603,977	+	ENST00000447389,ENST00000318950	4373-4375	15,14,13	CCLE-LUSC

chr11:99693918:+>chr11:99715584:+	chr11	99693451	99693918	+	chr11	99715584	99715707,99715707,99715707,99715707,99715707	+	ENST00000527185,ENST00000528682,ENST00000524871,ENST00000416526,ENST00000279463	4376-4379	12,1,6	CCLE-CESC
chr12:100690675:+>chr12:100691809:+	chr12	100690627	100690675	+	chr12	100691809	100691953,1	+	ENST00000549687,ENST00000360820	4380-4382	16,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr12:100710815:+>chr12:100711581:+	chr12	100710598	100710815	+	chr12	100711581	100711703,100711703,100711703	+	ENST00000549687,ENST00000360820,ENST00000550251	4383-4387	8,27,38	CCLE-LUSC
chr12:100718916:+>chr12:100720400:+	chr12	100718727	100718916	+	chr12	100720400	100720532,100720532	+	ENST00000549687,ENST00000360820,ENST00000548871	4388-4392	7,22,19	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr12:100718950:+>chr12:100720400:+	chr12	100718727	100718950	+	chr12	100720400	100720532,100720532	+	ENST00000549687,ENST00000360820,ENST00000548871	4393-4394	19,8	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr12:100721824:+>chr12:100722979:+	chr12	100721774	100721824	+	chr12	100722979	100723097,1	+	ENST00000549687,ENST00000360820	4395-4398	17,11	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr12:10105596:+>chr12:10124176:+	chr12	10104813	10105596	+	chr12	10124176	10124286	+	ENST00000355690	4399-4401	1,28,15	CCLE-ESCA
chr12:10121869:+>chr12:10124176:+	chr12	10121481	10121869	+	chr12	10124176	10124286	+	ENST00000355690	4402-4404	21,13,14	CCLE-BLCA,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-STAD
chr12:105259221:->chr12:105255148:-	chr12	105257240	105259221	-	chr12	105255148	105255148	-	ENST00000258538	4405-4406	8,3	CCLE-KIRC,CCLE-LUSC,CCLE-STAD
chr12:105625147:->chr12:105623001:-	chr12	105625131	105625147	-	chr12	105623001	105623001,105623001,105623001	-	ENST00000258530,ENST00000547439,ENST00000551662	4407-4411	12,19,4	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr12:105702407:->chr12:105623001:-	chr12	105701950	105702407	-	chr12	105623001	105623001,105623001,105623001	-	ENST00000258530,ENST00000547439,ENST00000551662	4412-4415	5,36	CCLE-BLCA,CCLE-KIRC,CCLE-LUSC,CCLE-OV,CCLE-SARC
chr12:109111220:->chr12:109095099:-	chr12	109110652	109111220	-	chr12	109095099	109095099,1	-	ENST00000420959,ENST00000549772	4416-4418	43,17,21	CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr12:109153714:->chr12:109095099:-	chr12	109153640	109153714	-	chr12	109095099	109095099,1	-	ENST00000420959,ENST00000549772	4419-4421	35,1,6	CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-STAD
chr12:1100488:+>chr12:1192330:+	chr12	1100411	1100488	+	chr12	1192330	1192746,1192746,1192746,1192746,1192746,1192746,1192746,1192746,1192746	+	ENST00000543086,ENST00000542302,ENST00000546231,ENST00000347735,ENST00000397203,ENST00000592048,ENST00000440394,ENST00000360905,ENST00000589028,ENST00000355446	4422-4431	26,2,20	CCLE-BRCA,CCLE-SARC
chr12:110235622:->chr12:110234509:-	chr12	110235615	110235622	-	chr12	110234509	110234509,110234509,110234509,110234509,110234509,110234509	-	ENST00000418703,ENST00000261740,ENST00000392719,ENST00000538125,ENST00000536838,ENST00000541794	4432-4435	26,7,63	CCLE-ESCA,CCLE-LUSC,CCLE-SKCM
chr12:110338864:+>chr12:110340832:+	chr12	110338729	110338864	+	chr12	110340832	110341019,110341019,110341019,110341019	+	ENST00000544838,ENST00000405876,ENST00000312777,ENST00000536408	4436-4439	32,46,1	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM
chr12:110339748:+>chr12:110340832:+	chr12	110339733	110339748	+	chr12	110340832	110341019,110341019,110341019,110341019	+	ENST00000544838,ENST00000405876,ENST00000312777,ENST00000536408	4440-4443	5,6	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr12:110455603:+>chr12:110456150:+	chr12	110455457	110455603	+	chr12	110456150	110456293,1	+	ENST00000553025,ENST00000261739	4444-4447	1,15,4	CCLE-DLBC,CCLE-ESCA,CCLE-LUSC
chr12:110465124:+>chr12:110465510:+	chr12	110464934	110465124	+	chr12	110465510	110465571	+	ENST00000261739	4448-4450	16,7,14	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr12:110470515:+>chr12:110471602:+	chr12	110470197	110470515	+	chr12	110471602	110471762,1	+	ENST00000261739,ENST00000547419	4451-4454	27,38,13	CCLE-BLCA,CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-PRAD
chr12:110474371:+>chr12:110475164:+	chr12	110474273	110474371	+	chr12	110475164	110475359	+	ENST00000261739	4455-4457	33,2,24	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr12:118682067:->chr12:118681321:-	chr12	118681906	118682067	-	chr12	118681321	118681321,118681321,118681321,118681321	-	ENST00000419821,ENST00000392533,ENST00000535570,ENST00000541186	4458-4461	11,25	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr12:1189934:+>chr12:1192330:+	chr12	1189657	1189934	+	chr12	1192330	1192746,1192746,1192746,1192746,1192746,1192746,1192746,1192746,1192746	+	ENST00000543086,ENST00000542302,ENST00000546231,ENST00000347735,ENST00000397203,ENST00000592048,ENST00000440394,ENST00000360905,ENST00000589028,ENST00000355446	4462-4471	19,8,39	CCLE-DLBC,CCLE-LCLL,CCLE-MM,CCLE-STAD
chr12:1190004:+>chr12:1192330:+	chr12	1189657	1190004	+	chr12	1192330	1192746,1192746,1192746,1192746,1192746,1192746,1192746,1192746,1192746	+	ENST00000543086,ENST00000542302,ENST00000546231,ENST00000347735,ENST00000397203,ENST00000592048,ENST00000440394,ENST00000360905,ENST00000589028,ENST00000355446	4472-4481	8,4,63	CCLE-DLBC,CCLE-LCLL
chr12:120553821:->chr12:120546271:-	chr12	120553782	120553821	-	chr12	120546271	120546271,120546271,120546271,120546271	-	ENST00000229340,ENST00000544304,ENST00000534951,ENST00000538903	4482-4488	4,1,2	CCLE-DLBC,CCLE-LUSC
chr12:120553974:->chr12:120546271:-	chr12	120553921	120553974	-	chr12	120546271	120546271,120546271,120546271,120546271	-	ENST00000229340,ENST00000544304,ENST00000534951,ENST00000538903	4489-4495	26,2,4	CCLE-STAD
chr12:121847479:+>chr12:121853962:+	chr12	121847340	121847479	+	chr12	121853962	121854180,121854180,121854180	+	ENST00000361234,ENST00000392465,ENST00000392464	4496-4499	47,44,4	CCLE-BLCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr12:121852665:+>chr12:121853962:+	chr12	121852615	121852665	+	chr12	121853962	121854180,121854180,121854180	+	ENST00000361234,ENST00000392465,ENST00000392464	4500-4503	17,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr12:122224193:->chr12:122219098:-	chr12	122224126	122224193	-	chr12	122219098	122219098,122219098,122219098,122219098	-	ENST00000267205,ENST00000537171,ENST00000535560	4504-4508	22,14,21	CCLE-LUSC
chr12:122758047:->chr12:122757647:-	chr12	122757801	122758047	-	chr12	122757647	122757647,122757647,122757647,122757647,122757647,122757647,122757647,122757647	-	ENST00000361654,ENST00000545889,ENST00000302528,ENST00000358808,ENST00000537178,ENST00000540539,ENST00000540338	4509-4510	15,8	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr12:122826372:->chr12:122826244:-	chr12	122826318	122826372	-	chr12	122826244	122826244,122826244,122826244,122826244,122826244,122826244,122826244,122826244	-	ENST00000361654,ENST00000545889,ENST00000302528,ENST00000358808,ENST00000537178,ENST00000540338,ENST00000540304	4511-4516	11,9,30	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr12:122861266:->chr12:122848654:-	chr12	122861018	122861266	-	chr12	122848654	122848654,122848654,122848654,122848654,122848654,122848654,122848654,122848654	-	ENST00000361654,ENST00000302528,ENST00000358808,ENST00000537178,ENST00000540338,ENST00000540304,ENST00000537004,ENST00000541108	4517-4525	17,8	CCLE-LUSC,CCLE-SKCM
chr12:12293769:->chr12:12291468:-	chr12	12293540	12293769	-	chr12	12291468	12291468,12291468,12291468,12291468	-	ENST00000261349,ENST00000538239,ENST00000543091	4526-4529	1,6,13	CCLE-LIHC
chr12:125337015:->chr12:125302253:-	chr12	125336936	125337015	-	chr12	125302253	125302253,125302253,125302253,125302253,125302253,125302253,125302253,125302253	-	ENST00000339570,ENST00000415380,ENST00000261693,ENST00000546215,ENST00000541205,ENST00000540495,ENST00000545493	4530-4537	24,14	CCLE-LCLL
chr12:130895737:->chr12:130892374:-	chr12	130894188	130895737	-	chr12	130892374	130892374,130892375,130892374	-	ENST00000261655,ENST00000540658,ENST00000536632	4538-4542	32,7,11	CCLE-LGG,CCLE-LUSC
chr12:132322565:+>chr12:132322740:+	chr12	132322555	132322565	+	chr12	132322740	132322872	+	ENST00000360564	4543-4545	3,4	CCLE-SKCM
chr12:132322612:+>chr12:132322740:+	chr12	132322555	132322612	+	chr12	132322740	132322872	+	ENST00000360564	4546-4548	13,19,20	CCLE-LCLL,CCLE-SKCM
chr12:132324311:+>chr12:132325118:+	chr12	132324211	132324311	+	chr12	132325118	132325401,132325401,132325292,132325401	+	ENST00000360564,ENST00000545671,ENST00000545790,ENST00000535291	4549-4553	11,34,25	CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr12:132331904:+>chr12:132334347:+	chr12	132331682	132331904	+	chr12	132334347	132334604,132334604,132334526,132334607	+	ENST00000360564,ENST00000535291,ENST00000534865,ENST00000542648	4554-4558	1,42,9	CCLE-SKCM

chr12:132331904:+>chr12:132334484:+	chr12	132331682	132331904	+	chr12	132334484	132334604,132334604,132334526,132334509,132334607	+	ENST00000360564,ENST00000535291,ENST00000534865,ENST00000537848,ENST00000542648	4559-4567	1,42,9	CCLE-SKCM
chr12:1521704:+>chr12:1553728:+	chr12	1521612	1521704	+	chr12	1553728	1553916,1553916,1553916,1553916,1553916,1553916,1553940	+	ENST00000543086,ENST00000546231,ENST00000397203,ENST00000360905,ENST00000589028,ENST00000355446,ENST00000539802	4568-4572	25,4,6	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SKCM,CCLE-STAD
chr12:20995982:+>chr12:21007962:+	chr12	20995776	20995982	+	chr12	21007962	21008103,21008103,21008103,21008103,21008103	+	ENST00000540853,ENST00000261196,ENST00000381545,ENST00000381541,ENST00000540229,ENST00000553473,ENST00000554957	4573-4578	1,29,6	CCLE-LUSC
chr12:21011909:+>chr12:21013989:+	chr12	21011867	21011909	+	chr12	21013989	21014072,21014072,21014072,21014072	+	ENST00000540853,ENST00000261196,ENST00000381545,ENST00000540229,ENST00000553473	4579-4583	1,14	CCLE-COAD
chr12:21011909:+>chr12:21015346:+	chr12	21011867	21011909	+	chr12	21015346	21015492,21015492,21015492,21015492	+	ENST00000540853,ENST00000261196,ENST00000381545,ENST00000540229,ENST00000553473	4584-4588	1,14	CCLE-LIHC
chr12:25388947:->chr12:25380346:-	chr12	25388707	25388947	-	chr12	25380346	25380346,25	-	ENST00000311936,ENST00000256078	4589-4592	26,27,9	CCLE-LUSC
chr12:27147319:->chr12:27143560:-	chr12	27147283	27147319	-	chr12	27143560	27143560,27143560,27143560,27143560,27143560	-	ENST00000343028,ENST00000545303,ENST00000535260,ENST00000543882,ENST00000543655,ENST00000535819	4593-4599	2,1	CCLE-LUSC
chr12:27153593:->chr12:27152609:-	chr12	27153396	27153593	-	chr12	27152609	27152609,27152609,27152609,27152609	-	ENST00000343028,ENST00000542019,ENST00000512808,ENST00000545600	4600-4604	33,2	CCLE-LUSC,CCLE-OV
chr12:3016090:+>chr12:3018695:+	chr12	3016085	3016090	+	chr12	3018695	3018746,3018746,3018746,3018746	+	ENST00000538354,ENST00000545331,ENST00000448120,ENST00000397132	4605-4608	2	CCLE-LGG
chr12:30873149:->chr12:30872159:-	chr12	30873021	30873149	-	chr12	30872159	30872159,30872159,30872159,30872159,30872159	-	ENST00000433722,ENST00000395805,ENST00000251071,ENST00000308433,ENST00000417045,ENST00000537108	4609-4616	11,22,2	CCLE-PAAD
chr12:3529466:+>chr12:3649772:+	chr12	3529445	3529466	+	chr12	3649772	3649957,365	+	ENST00000452611,ENST00000382622	4617-4618	8,7	CCLE-LUSC
chr12:44300382:+>chr12:44338013:+	chr12	44300285	44300382	+	chr12	44338013	44338145,44338145,44338145,44338145	+	ENST00000551577,ENST00000266534,ENST00000546868,ENST00000536799	4619-4625	7,1,32	CCLE-LUSC
chr12:45716800:+>chr12:45725078:+	chr12	45716632	45716800	+	chr12	45725078	45725206,45725206,45725206,45725206	+	ENST00000425752,ENST00000423947,ENST00000435642,ENST00000320560,ENST00000441606	4626-4629	10,48,28	CCLE-BLCA,CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr12:45764727:+>chr12:45771836:+	chr12	45764630	45764727	+	chr12	45771836	45771896,45771896,45771896,45771896	+	ENST00000425752,ENST00000423947,ENST00000435642,ENST00000320560,ENST00000441606	4630-4633	1,7,32	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr12:45764771:+>chr12:45771836:+	chr12	45764630	45764771	+	chr12	45771836	45771896,45771896,45771896,45771896	+	ENST00000425752,ENST00000423947,ENST00000435642,ENST00000320560,ENST00000441606	4634-4637	22,15,8	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-UCEC
chr12:46589726:->chr12:46582854:-	chr12	46583732	46589726	-	chr12	46582854	46582854,46582854,46582854,46582854	-	ENST00000398637,ENST00000549049,ENST00000439706,ENST00000546893	4638-4640	25,48,19	CCLE-DLBC
chr12:46636983:->chr12:46623422:-	chr12	46636903	46636983	-	chr12	46623422	46623422,46623422,46623422,46623422,46623422	-	ENST00000398637,ENST00000549049,ENST00000439706,ENST00000546893,ENST00000552197,ENST00000550173	4641-4645	3,1,9	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD,CCLE-THCA
chr12:46648597:->chr12:46623422:-	chr12	46647540	46648597	-	chr12	46623422	46623422,46623422,46623422,46623422,46623422	-	ENST00000398637,ENST00000549049,ENST00000439706,ENST00000546893,ENST00000552197,ENST00000550173	4646-4650	9,48,29	CCLE-LGG,CCLE-LUSC,CCLE-OV
chr12:46650475:->chr12:46623422:-	chr12	46650445	46650475	-	chr12	46623422	46623422,46623422,46623422,46623422,46623422	-	ENST00000398637,ENST00000549049,ENST00000439706,ENST00000546893,ENST00000552197,ENST00000550173	4651-4655	20,32,78	CCLE-LUSC
chr12:46760160:->chr12:46758972:-	chr12	46759964	46760160	-	chr12	46758972	46758972,47	-	ENST00000256689,ENST00000551374	4656-4658	23,1,4	CCLE-BLCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-STAD
chr12:49165035:->chr12:49164753:-	chr12	49165023	49165035	-	chr12	49164753	49164753,49164753,49164753	-	ENST00000357869,ENST00000550422,ENST00000307885	4659-4661	13,14	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr12:51648830:->chr12:51640615:-	chr12	51648805	51648830	-	chr12	51640615	51640615,51640615,51640615,51640615,51640615	-	ENST00000603798,ENST00000398453,ENST00000603864,ENST00000605426,ENST00000603838,ENST00000604188	4662-4665	21,7	CCLE-COAD,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr12:51662450:->chr12:51640615:-	chr12	51662387	51662450	-	chr12	51640615	51640615,51640615,51640615,51640615,51640615	-	ENST00000603798,ENST00000398453,ENST00000603864,ENST00000605426,ENST00000603838,ENST00000604188	4666-4670	33,19,5	CCLE-COAD,CCLE-LUSC
chr12:52117085:+>chr12:52139687:+	chr12	52116987	52117085	+	chr12	52139687	52139819,52139819,52139819,52139819	+	ENST00000550891,ENST00000354534,ENST00000545061,ENST00000355133	4671-4676	11,33,24	CCLE-LGG,CCLE-LUSC
chr12:56120280:->chr12:56120045:-	chr12	56120116	56120280	-	chr12	56120045	56120045,56120045,56120045,56120045,56120045,56120045,56120045,56120045,56120045,56120045	-	ENST00000548898,ENST00000552067,ENST00000420846,ENST00000548160,ENST00000546939,ENST00000552692,ENST00000549117,ENST00000257857,ENST00000552754,ENST00000550776,ENST00000552164,ENST00000551173	4677-4682	15,21,4	CCLE-BLCA,CCLE-BRCA,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM
chr12:56120288:->chr12:56120045:-	chr12	56120116	56120288	-	chr12	56120045	56120045,56120045,56120045,56120045,56120045,56120045,56120045,56120045,56120045,56120045	-	ENST00000548898,ENST00000552067,ENST00000420846,ENST00000548160,ENST00000546939,ENST00000552692,ENST00000549117,ENST00000257857,ENST00000552754,ENST00000550776,ENST00000552164,ENST00000551173	4683-4688	12,18,2	CCLE-LGG,CCLE-SKCM
chr12:57560106:+>chr12:57560713:+	chr12	57560056	57560106	+	chr12	57560713	57560829	+	ENST00000243077	4689-4691	17,8	CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-SARC
chr12:59272984:->chr12:59272887:-	chr12	59272972	59272984	-	chr12	59272887	59272887,59	-	ENST00000379141,ENST00000320743	4692-4694	16,10,26	CCLE-LUSC
chr12:6292520:+>chr12:6334592:+	chr12	6292382	6292520	+	chr12	6334592	6334700,6334700,6334700,6334700	+	ENST00000382518,ENST00000536586,ENST00000382519,ENST00000009180	4695-4699	42,46,13	CCLE-ESCA
chr12:6458996:->chr12:6458171:-	chr12	6458902	6458996	-	chr12	6458171	6458171,6458171,6458171,6458171,6458171,6458171	-	ENST00000360168,ENST00000358945,ENST00000540037,ENST00000228916,ENST00000396966,ENST00000543768	4700-4704	4,34,12	CCLE-ESCA,CCLE-LUSC
chr12:6458996:->chr12:6458571:-	chr12	6458902	6458996	-	chr12	6458571	6458571,6458571,6458571,6458571,6458571,6458571	-	ENST00000360168,ENST00000358945,ENST00000540037,ENST00000228916,ENST00000396966,ENST00000543768	4705-4709	4,34,12	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-STAD,CCLE-UCEC
chr12:6471879:->chr12:6471407:-	chr12	6471847	6471879	-	chr12	6471407	6471407,6471407,6471407,6471407,6471407	-	ENST00000360168,ENST00000358945,ENST00000228916,ENST00000396966,ENST00000543768	4710-4714	13,2,3	CCLE-LUSC
chr12:6486322:->chr12:6484003:-	chr12	6486175	6486322	-	chr12	6484003	6484126,6484003,6484003	-	ENST00000360168,ENST00000543768,ENST00000536788	4715-4718	1	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-STAD
chr12:67151972:->chr12:66990707:-	chr12	67151896	67151972	-	chr12	66990707	66990707,66990707,66990707,66990707,66990707	-	ENST00000398016,ENST00000286445,ENST00000359742,ENST00000538211,ENST00000541947	4719-4725	19,8,46	CCLE-LCLL,CCLE-SKCM
chr12:7076161:->chr12:7075663:-	chr12	7075906	7076161	-	chr12	7075663	7075663,7075663,7075663,7075663,7075663	-	ENST00000546111,ENST00000535923,ENST00000440277,ENST00000399433,ENST00000545555	4726-4731	17,16,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA

chr12:71037552:->chr12:71033057:-	chr12	71037543	71037552	-	chr12	71033057	71033057,71033057,71033057,71033057	-	ENST00000440835,ENST00000378778,ENST00000283228,ENST00000342084,ENST00000549308	4732-4734	11,24,14	CCLE-BRCA,CCLE-LGG,CCLE-STAD
chr12:71302163:->chr12:71286757:-	chr12	71302079	71302163	-	chr12	71286757	71286757	-	ENST00000283228	4735-4737	8,65,23	CCLE-DLBC,CCLE-LGG
chr12:7264660:+>chr12:7285620:+	chr12	7264485	7264660	+	chr12	7285620	7285742,7285742,7285742,7285742	+	ENST00000541953,ENST00000266546,ENST00000539982,ENST00000537408	4738-4742	4,15,20	CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-STAD
chr12:77202229:+>chr12:77202823:+	chr12	77202130	77202229	+	chr12	77202823	77202900,77202900,77202900,77202900,77202900,77202900	+	ENST00000359019,ENST00000334822,ENST00000426126,ENST00000552453,ENST00000549682,ENST00000549944	4743-4745	16,33	CCLE-COAD
chr12:8082175:->chr12:8078544:-	chr12	8082051	8082175	-	chr12	8078544	8078544	-	ENST00000075120	4746-4748	1,17,8	CCLE-COAD,CCLE-LIHC,CCLE-SARC
chr12:8273702:+>chr12:8278157:+	chr12	8273697	8273702	+	chr12	8278157	8278273,8278273,8278273	+	ENST00000229332,ENST00000352620,ENST00000546339	4749-4753	2,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC
chr12:88920349:->chr12:88912644:-	chr12	88920256	88920349	-	chr12	88912644	88912644,88912644,88912644	-	ENST00000228280,ENST00000347404,ENST00000552044	4754-4759	9,10,4	CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr12:94717218:->chr12:94706793:-	chr12	94710225	94717218	-	chr12	94706793	94706793,94706793,94706793	-	ENST00000552632,ENST00000397809,ENST00000339839	4760-4761	13,52	CCLE-LUSC
chr12:94796027:->chr12:94794757:-	chr12	94795991	94796027	-	chr12	94794757	94794757,94794757,94794757,94794757	-	ENST00000397809,ENST00000339839,ENST00000547232,ENST00000397807,ENST00000547575	4762-4766	23,43,6	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr12:94796327:->chr12:94794757:-	chr12	94795991	94796327	-	chr12	94794757	94794757,94794757,94794757,94794757	-	ENST00000397809,ENST00000339839,ENST00000547232,ENST00000397807,ENST00000547575	4767-4770	14,22	CCLE-BLCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr12:94801713:->chr12:94797038:-	chr12	94801586	94801713	-	chr12	94797038	94797038,94797038,94797038,94797038	-	ENST00000397809,ENST00000339839,ENST00000547232,ENST00000397807,ENST00000547575	4771-4775	15,51,12	CCLE-COAD
chr12:94801793:->chr12:94797038:-	chr12	94801586	94801793	-	chr12	94797038	94797038,94797038,94797038,94797038	-	ENST00000397809,ENST00000339839,ENST00000547232,ENST00000397807,ENST00000547575	4776-4779	11,25	CCLE-COAD,CCLE-HNSC
chr12:95636040:+>chr12:95645716:+	chr12	95635992	95636040	+	chr12	95645716	95645847,95645847,95645847,95645847,95645847,95645847,95645847,95645847,95645847	+	ENST00000550803,ENST00000436874,ENST00000547611,ENST00000547997,ENST00000549002,ENST00000546557,ENST00000548838,ENST00000547484,ENST00000551472,ENST00000548455,ENST00000548822,ENST00000549624,ENST00000548245,ENST00000552660,ENST00000551994,ENST00000548371	4780-4792	3,17,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-STAD
chr12:95657285:+>chr12:95660133:+	chr12	95657145	95657285	+	chr12	95660133	95660408,95660162,95660265,95660162,95660408,95660208,95660182,95660162,95660228,95660208,95660228,95660408	+	ENST00000436874,ENST00000547611,ENST00000549002,ENST00000548838,ENST00000261219,ENST00000551472,ENST00000552821,ENST00000546445,ENST00000397792	4793-4804	5,14,2	CCLE-LCLL,CCLE-LUSC
chr12:9809773:+>chr12:9833603:+	chr12	9809754	9809773	+	chr12	9833603	9833629,9833629,9833629,9833629,9833629,9833629,9833629,9833629,9833629	+	ENST00000536355,ENST00000261340,ENST00000290855,ENST00000325960,ENST00000444971,ENST00000479877,ENST00000543300,ENST00000476198,ENST00000430909,ENST00000544322	4805-4811	5,7,6	CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC
chr12:9820867:+>chr12:9833519:+	chr12	9820708	9820867	+	chr12	9833519	9833629,9833629,9833629,9833629,9833629,9833629,9833629,9833629,9833629	+	ENST00000261340,ENST00000290855,ENST00000325960,ENST00000492359,ENST00000444971,ENST00000479877,ENST00000543300	4812-4819	22,37,19	CCLE-DLBC
chr12:9832731:+>chr12:9833519:+	chr12	9832592	9832731	+	chr12	9833519	9833629,9833629,9833629,9833629,9833629,9833629,9833629,9833629,9833629	+	ENST00000261340,ENST00000290855,ENST00000325960,ENST00000492359,ENST00000444971,ENST00000479877,ENST00000543300	4820-4827	16,1,28	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM
chr12:9832883:+>chr12:9833519:+	chr12	9832592	9832883	+	chr12	9833519	9833629,9833629,9833629,9833629,9833629,9833629,9833629,9833629,9833629	+	ENST00000261340,ENST00000290855,ENST00000325960,ENST00000492359,ENST00000444971,ENST00000479877,ENST00000543300	4828-4835	40,8,2	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr12:9882739:->chr12:9875409:-	chr12	9882678	9882739	-	chr12	9875409	9875409,9882678	-	ENST00000542530,ENST00000327839	4836-4839	1,21,13	CCLE-DLBC,CCLE-LCLL
chr13:113455137:+>chr13:113459271:+	chr13	113454014	113455137	+	chr13	113459271	113459360,113459360,113459360,113459360,113459360	+	ENST00000283558,ENST00000375630,ENST00000375645,ENST00000487903,ENST00000418678	4840-4841	13,7	CCLE-LUSC
chr13:113507353:+>chr13:113508593:+	chr13	113507253	113507353	+	chr13	113508593	113508844,113508844,113508844,113508844,113508844,113508844	+	ENST00000283558,ENST00000375630,ENST00000375645,ENST00000487903,ENST00000418678,ENST00000471555	4842-4843	7,11	CCLE-COAD,CCLE-ESCA,CCLE-LUSC
chr13:113507475:+>chr13:113508593:+	chr13	113507253	113507475	+	chr13	113508593	113508844,113508844,113508844,113508844,113508844,113508844	+	ENST00000283558,ENST00000375630,ENST00000375645,ENST00000487903,ENST00000418678,ENST00000471555	4844-4849	7,19,25	CCLE-LUSC
chr13:113659215:+>chr13:113669077:+	chr13	113659176	113659215	+	chr13	113669077	113669160,113669160,113669160,113669160,113669160,113669160,113669160,113669160,113669160	+	ENST00000375608,ENST00000442652,ENST00000375604,ENST00000397030,ENST00000535094,ENST00000421756,ENST00000375601,ENST00000433807,ENST00000434803482,ENST00000375597,ENST00000397024	4850-4857	13,14	CCLE-BRCA
chr13:113692194:+>chr13:113699585:+	chr13	113692051	113692194	+	chr13	113699585	113699675,113699675,113699675,113699675,113699675,113699675,113699675,113699675,113699675	+	ENST00000375608,ENST00000442652,ENST00000375604,ENST00000397030,ENST00000535094,ENST00000421756,ENST00000375601,ENST00000434480,ENST00000409954,ENST00000423482,ENST00000375597,ENST00000473345,ENST00000397021,ENST00000423251	4858-4869	3,37,6	CCLE-LUSC,CCLE-STAD
chr13:114839789:->chr13:114839312:-	chr13	114839604	114839789	-	chr13	114839312	114839312,1	-	ENST00000334062,ENST00000542651	4870-4873	65,13,9	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-UCEC
chr13:21992346:->chr13:21987911:-	chr13	21992196	21992346	-	chr13	21987911	21987911,21987911,21987911,21987911,21987911,21987911	-	ENST00000400590,ENST00000320220,ENST00000382466,ENST00000542645,ENST00000415724,ENST00000422251	4874-4880	24,16,38	CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr13:23822916:+>chr13:23824769:+	chr13	23822850	23822916	+	chr13	23824769	23824856,23824856,23824856,23824856	+	ENST00000218867,ENST00000537476,ENST00000545013	4881-4883	23,22,13	CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr13:26051559:+>chr13:26104137:+	chr13	26051511	26051559	+	chr13	26104137	26104236,26	+	ENST00000381655,ENST00000255283	4884-4887	13,1,17	CCLE-LUSC
chr13:26171792:+>chr13:26273311:+	chr13	26171373	26171792	+	chr13	26273311	26273483,26273483,26273483	+	ENST00000381655,ENST00000255283,ENST00000281620	4888-4892	41,1,42	CCLE-BRCA
chr13:26573754:+>chr13:26586669:+	chr13	26573736	26573754	+	chr13	26586669	26586760,27	+	ENST00000381655,ENST00000255283	4893-4895	2,6	CCLE-DLBC,CCLE-LCLL
chr13:26587581:+>chr13:26594026:+	chr13	26587531	26587581	+	chr13	26594026	26594123,27	+	ENST00000381655,ENST00000255283	4896-4898	1,17,6	CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr13:39419908:+>chr13:39420710:+	chr13	39419847	39419908	+	chr13	39420710	39420859	+	ENST00000280481	4899-4901	21,13,5	CCLE-BRCA,CCLE-SKCM
chr13:39580917:->chr13:39550934:-	chr13	39574955	39580917	-	chr13	39550934	39550934,4	-	ENST00000379631,ENST00000423210	4902-4904	7,32,1	CCLE-COAD
chr13:42770095:+>chr13:42772614:+	chr13	42769860	42770095	+	chr13	42772614	42772731,42772731,42772731,42772731,42772731,42772731	+	ENST00000540693,ENST00000337343,ENST00000379274,ENST00000261491,ENST00000536612,ENST00000538674	4905-4909	26,2,6	CCLE-LCLL
chr13:43059651:+>chr13:43155262:+	chr13	43059476	43059651	+	chr13	43155262	43155429,43155429,43155429,43155429,43155429	+	ENST00000358545,ENST00000405262,ENST00000239849,ENST00000398795,ENST00000544862	4910-4912	6,23,43	CCLE-HNSC
chr13:53557016:+>chr13:53608483:+	chr13	53556837	53557016	+	chr13	53608483	53608635	+	ENST00000219022	4913-4915	58,1,56	CCLE-LUSC

chr13:66982391:->chr13:66879160:-	chr13	66982183	66982391	-	chr13	66879160	66879160,66879160,66879160,66879160	-	ENST00000544246,ENST00000377865,ENST00000456367,ENST00000328454	4916-4918	9,2	CCLE-LUSC	
chr13:78549482:->chr13:78477742:-	chr13	78548312	78549482	-	chr13	78477742	78477742,78477742,78477742	-	ENST00000446573,ENST00000377211,ENST00000334286	4919-4922	66,2,16	CCLE-BRCA	
chr13:78549482:->chr13:78493722:-	chr13	78548312	78549482	-	chr13	78493722	78493750	-	ENST00000377211	4923-4925	66,2,16	CCLE-BLCA	
chr13:95771061:->chr13:95768255:-	chr13	95770943	95771061	-	chr13	95768255	95768255,95768255,95768255,95768255	-	ENST00000412704,ENST00000376887,ENST00000536256,ENST00000431522	4926-4927	57,34	CCLE-LUSC	
chr13:95908378:->chr13:95900007:-	chr13	95908352	95908378	-	chr13	95900007	95900007,95900007,95900007,95900007	-	ENST00000412704,ENST00000376887,ENST00000536256,ENST00000431522	4928-4933	13,2,3	CCLE-BLCA,CCLE-CESC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-OV	
chr13:96130040:+>chr13:96212386:+	chr13	96129948	96130040	+	chr13	96212386	96212547,96	+	ENST00000376873,ENST00000299339	4934-4936	6,21,9	CCLE-LCLL	
chr14:102549158:->chr14:102548781:-	chr14	102548966	102549158	-	chr14	102548781	102548781,1	-	ENST00000216281,ENST00000334701	4937-4939	16,33,2	CCLE-COAD,CCLE-DLBC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD	
chr14:102549190:->chr14:102548781:-	chr14	102548966	102549190	-	chr14	102548781	102548781,1	-	ENST00000216281,ENST00000334701	4940-4942	22,6	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD	
chr14:102565000:->chr14:102552715:-	chr14	102564797	102565000	-	chr14	102552715	102552715,102552715,102552715,102552715	-	ENST00000216281,ENST00000334701,ENST00000553585,ENST00000557234	4943-4946	2,11	CCLE-LUSC	
chr14:102577163:->chr14:102551170:-	chr14	102576924	102577163	-	chr14	102551170	102551335,102551335,102551335	-	ENST00000216281,ENST00000334701,ENST00000441629	4947-4950	19,7,18	CCLE-BLCA	
chr14:103893655:+>chr14:103894724:+	chr14	103893555	103893655	+	chr14	103894724	103894777,103894777,103894777,103894777,103894777,103894777,103894777,103894777	+	ENST00000440884,ENST00000416682,ENST00000429436,ENST00000303622,ENST00000216288,ENST00000553942,ENST00000335102,ENST00000561225	4951-4960	34,23,33	CCLE-HNSC	
chr14:103922653:+>chr14:103923479:+	chr14	103922459	103922653	+	chr14	103923479	103923549,103923549,103923549,103923549,103923549,103923549,103923549,103923549	+	ENST00000440884,ENST00000416682,ENST00000429436,ENST00000303622,ENST00000216288,ENST00000553942,ENST00000560417,ENST00000335102	4961-4970	1,8,26	CCLE-LUSC	
chr14:106853837:->chr14:106845627:-	chr14	106853795	106853837	-	chr14	106845627	106845627	-	ENST00000390617	4971-4973	1,28,29	CCLE-LIHC	
chr14:106876903:->chr14:106866707:-	chr14	106876828	106876903	-	chr14	106866707	106866707	-	ENST00000390618	4974-4976	32,29,9	CCLE-LCLL,CCLE-LUSC	
chr14:106922228:->chr14:106829895:-	chr14	106921414	106922095	#	-	chr14	106829895	##	-	ENST00000390616	4977-4980	1,17,3,14	CCLE-DLBC,CCLE-LCLL
chr14:106922228:->chr14:106877926:-	chr14	106921414	106922095	#	-	chr14	106877926	##	-	ENST00000390619	4981-4984	1,17,3,14	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr14:106922240:->chr14:106518704:-	chr14	106922095	106922240	-	chr14	106518704	106518704	-	ENST00000390598	4985-4987	13,6,10	CCLE-LCLL,CCLE-LUSC	
chr14:106922240:->chr14:106586438:-	chr14	106922095	106922240	-	chr14	106586438	106586438	-	ENST00000390602	4988-4990	13,6,10	CCLE-LCLL	
chr14:106922240:->chr14:106622198:-	chr14	106922095	106922240	-	chr14	106622198	106622198	-	ENST00000390604	4991-4993	13,6,10	CCLE-LCLL	
chr14:106922240:->chr14:106667885:-	chr14	106922095	106922240	-	chr14	106667885	106667885	-	ENST00000390606	4994-4996	13,6,10	CCLE-LCLL	
chr14:106922240:->chr14:106780817:-	chr14	106922095	106922240	-	chr14	106780817	106780817	-	ENST00000390612	4997-4999	13,6,10	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC	
chr14:106922240:->chr14:106829895:-	chr14	106922095	106922240	-	chr14	106829895	106829895	-	ENST00000390616	5000-5002	13,6,10	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM	
chr14:106922240:->chr14:106845627:-	chr14	106922095	106922240	-	chr14	106845627	106845627	-	ENST00000390617	5003-5005	13,6,10	CCLE-LCLL,CCLE-LUSC,CCLE-MM	
chr14:106922240:->chr14:106866707:-	chr14	106922095	106922240	-	chr14	106866707	106866707	-	ENST00000390618	5006-5008	13,6,10	CCLE-BRCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM	
chr14:106922240:->chr14:106877926:-	chr14	106922095	106922240	-	chr14	106877926	106877926	-	ENST00000390619	5009-5011	13,6,10	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PRAD,CCLE-SARC,CCLE-SKCM	
chr14:106929268:->chr14:106926495:-	chr14	106928982	106929268	-	chr14	106926495	106926495	-	ENST00000434710	5012-5014	11,15,3	CCLE-LCLL	
chr14:106935206:->chr14:106926495:-	chr14	106935164	106935206	-	chr14	106926495	106926495	-	ENST00000434710	5015-5017	5,1,27	CCLE-BRCA,CCLE-LCLL	
chr14:106935260:->chr14:106926495:-	chr14	106935164	106935260	-	chr14	106926495	106926495	-	ENST00000434710	5018-5020	10,4,9	CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-SARC	
chr14:107046446:->chr14:106845627:-	chr14	107046278	107046446	-	chr14	106845627	106845627	-	ENST00000390617	5021-5023	13,7,21	CCLE-LCLL	
chr14:107046446:->chr14:106866707:-	chr14	107046278	107046446	-	chr14	106866707	106866707	-	ENST00000390618	5024-5026	13,7,21	CCLE-LCLL	
chr14:107046446:->chr14:106994118:-	chr14	107046278	107046446	-	chr14	106994118	106994118	-	ENST00000390624	5027-5029	13,7,21	CCLE-LCLL	
chr14:107254018:->chr14:107199242:-	chr14	107253510	107254018	-	chr14	107199242	107199242	-	ENST00000433072	5030-5032	2,39,14	CCLE-LCLL	
chr14:107254018:->chr14:107211242:-	chr14	107253510	107254018	-	chr14	107211242	107211242	-	ENST00000390636	5033-5035	2,39,14	CCLE-LCLL	
chr14:107254018:->chr14:107218980:-	chr14	107253510	107254018	-	chr14	107218980	107218980	-	ENST00000424969	5036-5038	2,39,14	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD	
chr14:20959100:->chr14:20929004:-	chr14	20959024	20959100	-	chr14	20929004	20929004,21	-	ENST00000250489,ENST00000398020	5039-5041	8,19,39	CCLE-LCLL	
chr14:21629685:->chr14:21624045:-	chr14	21629426	21629685	-	chr14	21624045	21624184	-	ENST00000304418	5042-5044	17,8	CCLE-BRCA	
chr14:21937201:->chr14:21936867:-	chr14	21937110	21937201	-	chr14	21936867	21936911	-	ENST00000397762	5045-5047	6,5	CCLE-DLBC,CCLE-LUSC,CCLE-SARC,CCLE-STAD	
chr14:21937201:->chr14:21936911:-	chr14	21937110	21937201	-	chr14	21936911	21936911	-	ENST00000397762	5048-5050	6,5	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD	
chr14:22737336:+>chr14:22740146:+	chr14	22736916	22737336	+	chr14	22740146	22740446	+	ENST00000390464	5051-5053	64,13,35	CCLE-BRCA,CCLE-CESC,CCLE-HNSC,CCLE-PAAD	
chr14:23350226:+>chr14:23353883:+	chr14	23349937	23350226	+	chr14	23353883	23354224,23	+	ENST00000267396,ENST00000536884	5054-5057	23,21,45	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-STAD	
chr14:23447903:->chr14:23447654:-	chr14	23447842	23447903	-	chr14	23447654	23447654,23	-	ENST00000262713,ENST00000361265	5058-5059	17,27	CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-STAD	
chr14:23610894:->chr14:23609833:-	chr14	23610658	23610894	-	chr14	23609833	23609833,23609833,23609833,23609833	-	ENST00000339733,ENST00000316902,ENST00000469263,ENST00000453702,ENST00000529705	5060-5064	1,23,14	CCLE-SKCM	
chr14:23636058:->chr14:23635749:-	chr14	23635933	23636058	-	chr14	23635749	23635749,23635749,23635749,23635749	-	ENST00000316902,ENST00000469263,ENST00000524758,ENST00000525062	5065-5072	4,18,20	CCLE-COAD	
chr14:24790922:->chr14:24789094:-	chr14	24790782	24790922	-	chr14	24789094	24789094,24789094,24789094	-	ENST00000310677,ENST00000554068,ENST00000418030	5073-5075	10,25,13	CCLE-BRCA,CCLE-COAD,CCLE-LCLL,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD	
chr14:30119508:->chr14:30108110:-	chr14	30118672	30119508	-	chr14	30108110	30108110,3	-	ENST00000331968,ENST00000415220	5076-5078	17,77,2	CCLE-SKCM	
chr14:32545863:+>chr14:32586346:+	chr14	32545855	32545863	+	chr14	32586346	32586493,33	+	ENST00000539826,ENST00000345122	5079-5081	3	CCLE-LUSC	
chr14:32609651:+>chr14:32615469:+	chr14	32609506	32609651	+	chr14	32615469	32615546,32615546,32615546,32615546,32615546,32615546,32615546,32615546	+	ENST00000556611,ENST00000539826,ENST00000396582,ENST00000345122,ENST00000432921,ENST00000433497,ENST00000554090,ENST00000557643	5082-5086	17,9,2	CCLE-LUSC	
chr14:32616859:+>chr14:32619108:+	chr14	32616726	32616859	+	chr14	32619108	32619239,32619239,32619239,32619239,32619239,32619239,32619239,32619239	+	ENST00000556611,ENST00000539826,ENST00000396582,ENST00000345122,ENST00000432921,ENST00000433497,ENST00000554090,ENST00000557643	5087-5091	14,42,29	CCLE-COAD	
chr14:32623734:+>chr14:32623827:+	chr14	32623726	32623734	+	chr14	32623827	32624154,32624154,32624154,32624154,32624154,32624154,32624154,32623839	+	ENST00000556611,ENST00000539826,ENST00000396582,ENST00000345122,ENST00000432921,ENST00000433497,ENST00000554090	5092-5096	3,1	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD	
chr14:52160358:+>chr14:52164860:+	chr14	52160148	52160358	+	chr14	52164860	52164950,52164950,52164950,52164945	+	ENST00000356218,ENST00000395718,ENST00000344768,ENST00000554778	5097-5101	3,18,9	CCLE-BLCA,CCLE-BRCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM,CCLE-STAD	
chr14:52355615:+>chr14:52417368:+	chr14	52355561	52355615	+	chr14	52417368	52417483,52417376,52417483,52417483	+	ENST00000553432,ENST00000556527,ENST00000557376,ENST00000554875	5102-5107	4,16,19	CCLE-DLBC	

chr14:52372666:+>chr14:52417368:+	chr14	52372375	52372666	+	chr14	52417368	52417483,52417376,52417483	+	ENST00000553432,ENST00000556522,ENST00000557376,ENST00000554875	5108-5113	41,8,44	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM
chr14:52379846:+>chr14:52417368:+	chr14	52379700	52379846	+	chr14	52417368	52417483,52417376,52417483	+	ENST00000553432,ENST00000556522,ENST00000557376,ENST00000554875	5114-5119	27,8,3	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr14:52432346:+>chr14:52433277:+	chr14	52432079	52432346	+	chr14	52433277	52433405,52433405,52433405,52433405,52433405	+	ENST00000553432,ENST00000557376,ENST00000335281,ENST00000555472,ENST00000556766,ENST00000554736,ENST00000556752	5120-5122	13,10,3	CCLE-LGG
chr14:56811788:+>chr14:57051719:+	chr14	56811486	56811788	+	chr14	57051719	57051750,57051750,57051750,57051750,57051750	+	ENST00000556810,ENST00000261556,ENST00000555497,ENST00000539559,ENST00000538838	5123-5129	8,51,28	CCLE-DLBC
chr14:56982200:+>chr14:57051719:+	chr14	56981935	56982200	+	chr14	57051719	57051750,57051750,57051750,57051750,57051750	+	ENST00000556810,ENST00000261556,ENST00000555497,ENST00000539559,ENST00000538838	5130-5136	34,1,37	CCLE-DLBC
chr14:56982236:+>chr14:57051719:+	chr14	56981935	56982236	+	chr14	57051719	57051750,57051750,57051750,57051750,57051750	+	ENST00000556810,ENST00000261556,ENST00000555497,ENST00000539559,ENST00000538838	5137-5143	1,5,8	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr14:56982236:+>chr14:57072288:+	chr14	56981935	56982236	+	chr14	57072288	57072401,57072401,57072401,57072401,57072291	+	ENST00000556422,ENST00000261556,ENST00000555497,ENST00000539559,ENST00000538838,ENST00000555929	5144-5150	5,1,8	CCLE-DLBC
chr14:61516792:+>chr14:61517230:+	chr14	61516750	61516792	+	chr14	61517230	61517354,61517354,61517354,61517354,61517354	+	ENST00000354886,ENST00000267488,ENST00000451406,ENST00000456840,ENST00000529212	5151-5155	15,11,4	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-PRAD,CCLE-SARC
chr14:61540659:+>chr14:61545548:+	chr14	61540480	61540659	+	chr14	61545548	61545645,61545645,61545645	+	ENST00000354886,ENST00000451406,ENST00000456840	5156-5157	50,6	CCLE-LCLL,CCLE-LUSC
chr14:64214028:->chr14:64165376:-	chr14	64213870	64214028	-	chr14	64165376	64165376	-	ENST00000247225	5158-5160	4,18,11	CCLE-ESCA,CCLE-HNSC
chr14:64218088:->chr14:64165376:-	chr14	64217967	64218088	-	chr14	64165376	64165376	-	ENST00000247225	5161-5163	28,15,1	CCLE-ESCA,CCLE-LUSC
chr14:64515573:+>chr14:64516329:+	chr14	64515345	64515573	+	chr14	64516329	64516594,64516594,64516594	+	ENST00000358025,ENST00000344113,ENST00000554584	5164-5168	1,22,9	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-STAD
chr14:64549437:+>chr14:64554389:+	chr14	64548845	64549437	+	chr14	64554389	64554574,64554574,64554574,64554574,64554574	+	ENST00000357395,ENST00000358025,ENST00000344113,ENST00000555458,ENST00000555002,ENST00000394768	5169-5173	16,37,36	CCLE-BLCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-STAD,CCLE-UCEC
chr14:64562837:+>chr14:64564667:+	chr14	64562482	64562837	+	chr14	64564667	64564864,64564864,64564864,64564864,64564864	+	ENST00000357395,ENST00000358025,ENST00000344113,ENST00000555458,ENST00000555002,ENST00000394768	5174-5178	35,31,9	CCLE-LUSC,CCLE-OV
chr14:67017899:+>chr14:67147825:+	chr14	67017875	67017899	+	chr14	67147825	67147903,67147903,67147903,67147903,67147903	+	ENST00000315266,ENST00000478722,ENST00000459628,ENST00000543237,ENST00000555668,ENST00000555663,ENST00000305960,ENST00000555654	5179-5186	6,1	CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr14:67195894:+>chr14:67243182:+	chr14	67195607	67195894	+	chr14	67243182	67243239,67243239,67243239,67243239,67243239	+	ENST00000315266,ENST00000478722,ENST00000459628,ENST00000543237,ENST00000305960	5187-5193	8,40,21	CCLE-ESCA
chr14:67200006:+>chr14:67243182:+	chr14	67199712	67200006	+	chr14	67243182	67243239,67243239,67243239,67243239,67243239	+	ENST00000315266,ENST00000478722,ENST00000459628,ENST00000543237,ENST00000305960	5194-5200	22,8,31	CCLE-STAD
chr14:67280207:+>chr14:67291192:+	chr14	67279984	67280207	+	chr14	67291192	67291284,67291284,67291284,67291284,67291284	+	ENST00000315266,ENST00000478722,ENST00000543237,ENST00000556633,ENST00000555456	5201-5208	54,75,8	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr14:69384045:->chr14:69378959:-	chr14	69383879	69384045	-	chr14	69378959	69378959,69378959,69378959,69378959,69378959	-	ENST00000193403,ENST00000394419,ENST00000438964,ENST00000376839,ENST00000538545,ENST00000555616,ENST00000556433,ENST00000553370,ENST00000553779,ENST00000556571	5209-5220	31,4	CCLE-LUSC
chr14:69408006:->chr14:69392389:-	chr14	69407965	69408006	-	chr14	69392389	69392389,69392389,69392389,69392389,69392389	-	ENST00000193403,ENST00000394419,ENST00000438964,ENST00000538545,ENST00000556433,ENST00000556571,ENST00000553659	5221-5228	24,7	CCLE-LCLL
chr14:69414081:->chr14:69392389:-	chr14	69414055	69414081	-	chr14	69392389	69392389,69392389,69392389,69392389,69392389	-	ENST00000193403,ENST00000394419,ENST00000438964,ENST00000538545,ENST00000556433,ENST00000556571,ENST00000553659	5229-5236	72,9	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr14:69417511:->chr14:69392389:-	chr14	69417283	69417511	-	chr14	69392389	69392389,69392389,69392389,69392389,69392389	-	ENST00000193403,ENST00000394419,ENST00000438964,ENST00000538545,ENST00000556433,ENST00000556571,ENST00000553659	5237-5245	23,22,13	CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-THCA
chr14:73653469:+>chr14:73653561:+	chr14	73653203	73653469	+	chr14	73653561	73653628,73653628,73653628,73653628,73653628,73653628,73653628	+	ENST00000357710,ENST00000324501,ENST00000261970,ENST00000344094,ENST00000394164,ENST00000553855,ENST00000555386,ENST00000557511,ENST00000406768	5246-5250	13,12,42	CCLE-LCLL
chr14:73751754:->chr14:73751082:-	chr14	73751539	73751754	-	chr14	73751082	73751082,73751082,73751082,73751082,73751082,73751082,73751082	-	ENST00000554546,ENST00000356296,ENST00000557597,ENST00000555238,ENST00000556772,ENST00000355058,ENST00000359560,ENST00000555394,ENST00000535282,ENST00000555859,ENST00000555307,ENST00000554394	5251-5256	12,6,25	CCLE-LUSC
chr14:73753766:->chr14:73751082:-	chr14	73753215	73753766	-	chr14	73751082	73751082,73751082,73751082,73751082,73751082,73751082,73751082	-	ENST00000554546,ENST00000356296,ENST00000557597,ENST00000555238,ENST00000556772,ENST00000355058,ENST00000359560,ENST00000555394,ENST00000535282,ENST00000555859,ENST00000555307,ENST00000554394	5257-5262	6,7	CCLE-LUSC
chr14:81423614:+>chr14:81528492:+	chr14	81423381	81423614	+	chr14	81528492	81528563,81528563,81528563,81528563,81528563,81528563	+	ENST00000541158,ENST00000342443,ENST00000298171,ENST00000555326,ENST00000554263,ENST00000554435	5263-5269	7,4,35	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM
chr14:81576859:+>chr14:81606023:+	chr14	81576526	81576859	+	chr14	81606023	81606211,82	+	ENST00000541158,ENST00000298171	5270-5272	34,11,9	CCLE-LUSC,CCLE-MM
chr14:91199582:->chr14:91196540:-	chr14	91199508	91199582	-	chr14	91196540	91196540,91196540,91196540	-	ENST00000328459,ENST00000357056,ENST00000557766	5273-5277	47,20,5	CCLE-LUSC
chr14:91288031:->chr14:91252672:-	chr14	91287855	91288031	-	chr14	91252672	91252672,91	-	ENST00000328459,ENST00000357056	5278-5280	65,4	CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC
chr14:92914484:+>chr14:92915418:+	chr14	92914315	92914484	+	chr14	92915418	92915560,92915560,92915560,92915560,92915503,92915503	+	ENST00000393265,ENST00000531433,ENST00000532405,ENST00000298877,ENST00000351924,ENST00000525557	5281-5285	10,18,5	CCLE-SKCM
chr15:23016915:->chr15:23014528:-	chr15	23016897	23016915	-	chr15	23014528	23014528,23014528,23014528,23014528,23014528	-	ENST00000337451,ENST00000398014,ENST00000398013,ENST00000539711,ENST00000359727	5286-5288	38,22,48	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr15:25938369:->chr15:25936938:-	chr15	25938167	25938369	-	chr15	25936938	25936938,26	-	ENST00000356865,ENST00000555756	5289-5291	11,7	CCLE-SKCM
chr15:26006522:->chr15:25981288:-	chr15	26006433	26006522	-	chr15	25981288	25981288,26	-	ENST00000356865,ENST00000555815	5292-5295	2,1	CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr15:27076933:+>chr15:27125993:+	chr15	27076892	27076933	+	chr15	27125993	27126114,27126114,27126114,27126114,27126114	+	ENST00000335625,ENST00000355395,ENST00000400081,ENST00000554038,ENST00000554596,ENST00000554599	5296-5301	4,14	CCLE-LGG,CCLE-LUSC
chr15:27308773:+>chr15:27571956:+	chr15	27308464	27308773	+	chr15	27571956	27572176,27572176	+	ENST00000333743,ENST00000555083,ENST00000554696	5302-5305	43,11	CCLE-LUSC
chr15:29997331:->chr15:29996509:-	chr15	29997284	29997331	-	chr15	29996509	29996509,29996509,29996509,29996509	-	ENST00000346128,ENST00000400011,ENST00000356107,ENST00000400007,ENST00000545208	5306-5310	9,12,1	CCLE-LUSC

chr15:30052094:->chr15:30034985:-	chr15	30051534	30052094	-	chr15	30034985	30034985,30034985,30034985,30034985	-	ENST00000346128,ENST00000400011,ENST00000356107,ENST00000545208	5311-5316	43,2,36	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD	
chr15:30090605:->chr15:30065560:-	chr15	30090513	30090605	-	chr15	30065560	30065560,30065560,30065560,30065560,30065560	-	ENST00000346128,ENST00000400011,ENST00000356107,ENST00000545208,ENST00000495972,ENST00000558447	5317-5324	11,37,20	CCLE-KIRC,CCLE-LUSC	
chr15:31327548:->chr15:31325143:-	chr15	31327512	31327548	-	chr15	31325143	31325143,31325143,31325143,31325143,31325143	-	ENST00000397795,ENST00000256552,ENST00000542188,ENST00000558768,ENST00000558445	5325-5328	34,11,7	CCLE-SKCM	
chr15:31327580:->chr15:31325143:-	chr15	31327512	31327580	-	chr15	31325143	31325143,31325143,31325143,31325143,31325143	-	ENST00000397795,ENST00000256552,ENST00000542188,ENST00000558768,ENST00000558445	5329-5332	1,23,14	CCLE-SKCM	
chr15:31367717:->chr15:31362429:-	chr15	31364255	31367717	#	-	chr15	31362429	31362429,31362429,31362429,31362429,31362429,31362429	-	ENST00000397795,ENST00000256552,ENST00000542188,ENST00000558445,ENST00000559177,ENST00000560658,ENST00000559179	5333-5340	1	CCLE-SKCM
chr15:33097045:->chr15:33096533:-	chr15	33096715	33097045	-	chr15	33096533	33096533,33096533,33096533	-	ENST00000334528,ENST00000561249,ENST00000559047	5341-5343	17,79,2	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA	
chr15:33282964:->chr15:33261678:-	chr15	33282848	33282964	-	chr15	33261678	33261678,33261678,33261678	-	ENST00000334528,ENST00000561249,ENST00000559047	5344-5346	23,12,33	CCLE-LGG	
chr15:34542265:->chr15:34538068:-	chr15	34542117	34542265	-	chr15	34538068	34538068,34538068,34538068,34538068,34538068,34538068,34538068,34538068,34538068,34538068,34538068	-	ENST00000397707,ENST00000560611,ENST00000354181,ENST00000458406,ENST00000559523,ENST00000559664,ENST00000397702,ENST00000451844,ENST00000560164,ENST00000561080,ENST00000290209,ENST00000558667,ENST00000558589	5347-5351	2,46,38	CCLE-LUSC	
chr15:34585260:->chr15:34567590:-	chr15	34579198	34585260	-	chr15	34567590	34567590,34567590,34567590,34567590,34567590,34567590,34567590,34567590,34567590,34567590,34567590	-	ENST00000560611,ENST00000354181,ENST00000458406,ENST00000559523,ENST00000559664,ENST00000397702,ENST00000561080,ENST00000290209,ENST00000558667,ENST00000558589,ENST00000561120,ENST00000559236,ENST00000559484	5352-5359	1,7,12	CCLE-COAD,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD	
chr15:38822316:->chr15:38818605:-	chr15	38822264	38822316	-	chr15	38818605	38818605,38818605,38818605,38818605,38818605,38818605,38818605,38818605,38818605	-	ENST00000310803,ENST00000558432,ENST00000539159,ENST00000561180,ENST00000414708,ENST00000450598,ENST00000558164,ENST00000559830,ENST00000558418,ENST00000561117,ENST00000560929	5360-5371	2,12,9	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC	
chr15:40185902:->chr15:40094455:-	chr15	40185299	40185902	-	chr15	40094455	40094455,40094455,40094455	-	ENST00000299092,ENST00000561100,ENST00000543580	5372-5374	45,57,117	CCLE-ESCA	
chr15:40186617:->chr15:40094455:-	chr15	40186576	40186617	-	chr15	40094455	40094455,40094455,40094455	-	ENST00000299092,ENST00000561100,ENST00000543580	5375-5377	28,15,12	CCLE-ESCA	
chr15:40186657:->chr15:40094455:-	chr15	40186576	40186657	-	chr15	40094455	40094455,40094455,40094455	-	ENST00000299092,ENST00000561100,ENST00000543580	5378-5380	1,15,63	CCLE-ESCA	
chr15:40186657:->chr15:40099398:-	chr15	40186576	40186657	-	chr15	40099398	40099398,40099459,40099459	-	ENST00000299092,ENST00000561100,ENST00000543580	5381-5383	1,15,63	CCLE-ESCA	
chr15:40186657:->chr15:40099826:-	chr15	40186576	40186657	-	chr15	40099826	40099826	-	ENST00000299092	5384-5386	1,15,63	CCLE-ESCA	
chr15:40186733:->chr15:40094455:-	chr15	40186576	40186733	-	chr15	40094455	40094455,40094455,40094455	-	ENST00000299092,ENST00000561100,ENST00000543580	5387-5389	27,12,38	CCLE-ESCA,CCLE-HNSC,CCLE-LUSC	
chr15:40186733:->chr15:40099826:-	chr15	40186576	40186733	-	chr15	40099826	40099826	-	ENST00000299092	5390-5392	27,12,38	CCLE-ESCA	
chr15:42195230:->chr15:42193379:-	chr15	42195154	42195230	-	chr15	42193379	42193379	-	ENST00000220325	5393-5394	8,3	CCLE-LGG,CCLE-SKCM	
chr15:42199751:->chr15:42193379:-	chr15	42199729	42199751	-	chr15	42193379	42193379	-	ENST00000220325	5395-5396	13,26	CCLE-LUSC	
chr15:42239145:->chr15:42235362:-	chr15	42239123	42239145	-	chr15	42235362	42235362	-	ENST00000220325	5397-5399	1,23,5	CCLE-HNSC	
chr15:42440056:->chr15:42439960:-	chr15	42440013	42440056	-	chr15	42439960	42439966,42	-	ENST00000397272,ENST00000382396	5400-5402	4,7,2	CCLE-STAD	
chr15:43838500:->chr15:43831781:-	chr15	43838223	43838500	-	chr15	43831781	43831781,43831781,43831781,43831781,43831781,43831781,43831781	-	ENST00000381885,ENST00000396923,ENST00000360135,ENST00000360301,ENST00000334933,ENST00000420765,ENST00000381879,ENST00000348806	5403-5407	2,3	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-SKCM	
chr15:45348763:+>chr15:45353265:+	chr15	45347438	45348763	+	chr15	45353265	45353424,45353268,45353424	+	ENST00000267814,ENST00000559230,ENST00000558580	5408-5412	7,30,73	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD	
chr15:45359463:+>chr15:45360379:+	chr15	45359278	45359463	+	chr15	45360379	45360444,45	+	ENST00000267814,ENST00000558580	5413-5415	3,1,8	CCLE-LUSC	
chr15:45447744:+>chr15:45448000:+	chr15	45447481	45447744	+	chr15	45448000	45448127,45448127,45448127	+	ENST00000321429,ENST00000389037,ENST00000561166	5416-5418	12,34,20	CCLE-ESCA	
chr15:50211815:->chr15:50211147:-	chr15	50211603	50211815	-	chr15	50211147	50211147,50211147,50211147	-	ENST00000284509,ENST00000559829,ENST00000557955	5419-5422	33,2,24	CCLE-LCLL	
chr15:50211863:->chr15:50211147:-	chr15	50211603	50211863	-	chr15	50211147	50211147,50211147,50211147	-	ENST00000284509,ENST00000559829,ENST00000557955	5423-5426	17,8	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC	
chr15:50248998:->chr15:50226379:-	chr15	50248751	50248998	-	chr15	50226379	50226379,50226379,50226379	-	ENST00000284509,ENST00000559829,ENST00000557955	5427-5430	1,15,6	CCLE-DLBC,CCLE-LCLL	
chr15:50744825:+>chr15:50751197:+	chr15	50744811	50744825	+	chr15	50751197	50751359,50751359,50751359,50751359,50751359,50751267	+	ENST00000307179,ENST00000433963,ENST00000396444,ENST00000425032,ENST00000559329,ENST00000558091	5431-5436	3,5	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD	
chr15:50748901:+>chr15:50751197:+	chr15	50748801	50748901	+	chr15	50751197	50751359,50751359,50751359,50751359,50751359,50751267	+	ENST00000307179,ENST00000433963,ENST00000396444,ENST00000425032,ENST00000559329,ENST00000558091	5437-5439	33,25	CCLE-CESC,CCLE-SKCM	
chr15:51652734:+>chr15:51669646:+	chr15	51652200	51652734	+	chr15	51669646	51669697,52	+	ENST00000335449,ENST00000558426	5440-5443	18,26,116	CCLE-BRCA	
chr15:54441405:+>chr15:54527228:+	chr15	54441128	54441405	+	chr15	54527228	54527306,54527306,54527306	+	ENST00000260323,ENST00000537900,ENST00000545554	5444-5450	25,8,92	CCLE-LGG,CCLE-SKCM	
chr15:54876231:+>chr15:54914525:+	chr15	54875841	54876231	+	chr15	54914525	54914617,54914617,54914617	+	ENST00000260323,ENST00000537900,ENST00000545554	5451-5453	41,44,25	CCLE-CESC,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-MM,CCLE-OV,CCLE-PAAD	
chr15:54876235:+>chr15:54914525:+	chr15	54875841	54876235	+	chr15	54914525	54914617,54914617,54914617	+	ENST00000260323,ENST00000537900,ENST00000545554	5454-5455	42,27	CCLE-DLBC,CCLE-LCLL,CCLE-MM	
chr15:56167747:->chr15:56166206:-	chr15	56167500	56167747	-	chr15	56166206	56166206,56166206,56166206	-	ENST00000508342,ENST00000435532,ENST00000506154	5456-5459	1,23,14	CCLE-COAD,CCLE-ESCA,CCLE-LUSC	

chr15:56279329:->chr15:56258744:-	chr15	56279133	56279329	-	chr15	56258744	56258744,56	-	ENST00000435532,ENST00000502612	5460-5463	19,293,6	CCLE-BLCA,CCLE-BRCA,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-THCA
chr15:56330932:->chr15:56258744:-	chr15	56330850	56330932	-	chr15	56258744	56258744,56	-	ENST00000435532,ENST00000502612	5464-5467	13,10,4	CCLE-LUSC
chr15:57851304:+>chr15:57896467:+	chr15	57851017	57851304	+	chr15	57896467	57896553,57896553,57896553,57896553,57896553,57896553,57896553,57896553,57896553,57896553,57896553,57896553,57896553,57896553	+	ENST00000380569,ENST00000380560,ENST00000396180,ENST00000572390,ENST00000574161,ENST00000380561,ENST00000267853,ENST00000587652,ENST00000380565,ENST00000468886,ENST00000471563,ENST00000488175,ENST00000496101,ENST00000380568,ENST00000460962,ENST00000463717,ENST00000477282,ENST00000482814,ENST00000496627,ENST00000569089	5468-5482	13,45,30	CCLE-SARC
chr15:58942662:->chr15:58938403:-	chr15	58942337	58942662	-	chr15	58938403	58938403	-	ENST00000260408	5483-5485	20,1,47	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr15:59621541:->chr15:59564648:-	chr15	59621412	59621541	-	chr15	59564648	59564648,6	-	ENST00000288235,ENST00000558571	5486-5487	5,13	CCLE-LUSC
chr15:60683442:->chr15:60678285:-	chr15	60683351	60683442	-	chr15	60678285	60678285,61	-	ENST00000332680,ENST00000559780	5488-5491	4,3	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr15:60688350:->chr15:60656722:-	chr15	60688313	60688350	-	chr15	60656722	60656722,60656722,60656722,60656722,60656722,60656722,60656722,60656722,60656722,60656722,60656722,60656722,60656722,60656722,60656722	-	ENST00000396024,ENST00000451270,ENST00000332680,ENST00000560014,ENST00000421017,ENST00000559176,ENST00000559818,ENST00000560367,ENST00000558503,ENST00000560389,ENST00000560165,ENST00000557906,ENST00000559350,ENST00000558558,ENST00000558986,ENST00000559467,ENST00000559956,ENST00000559780,ENST00000560468,ENST00000557904,ENST00000559370	5492-5508	22,15,5	CCLE-BLCA,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD
chr15:60688350:->chr15:60674640:-	chr15	60688313	60688350	-	chr15	60674640	60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640,60674640	-	ENST00000396024,ENST00000451270,ENST00000332680,ENST00000560014,ENST00000421017,ENST00000559818,ENST00000561022,ENST00000560367,ENST00000558503,ENST00000560389,ENST00000560165,ENST00000557906,ENST00000559350,ENST00000558558,ENST00000558986,ENST00000559467,ENST00000559956,ENST00000559780,ENST00000560468,ENST00000557904,ENST00000559370,ENST00000558169	5509-5526	22,15,5	CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr15:60688350:->chr15:60678285:-	chr15	60688313	60688350	-	chr15	60678285	60678285,61	-	ENST00000332680,ENST00000559780	5527-5530	22,15,5	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr15:60689166:->chr15:60678285:-	chr15	60689103	60689166	-	chr15	60678285	60678285,61	-	ENST00000332680,ENST00000559780	5531-5533	29,3	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr15:63515272:+>chr15:63536955:+	chr15	63515040	63515272	+	chr15	63536955	63537015,63537015,63537015,63537015	+	ENST00000321437,ENST00000558119,ENST00000559006,ENST00000448330	5534-5539	25,4,14	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr15:63516178:+>chr15:63536955:+	chr15	63516109	63516178	+	chr15	63536955	63537015,63537015,63537015,63537015	+	ENST00000321437,ENST00000558119,ENST00000559006,ENST00000448330	5540-5545	20,5,23	CCLE-BLCA,CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr15:63553357:+>chr15:63554891:+	chr15	63553283	63553357	+	chr15	63554891	63554941,64	+	ENST00000321437,ENST00000559006	5546-5550	14,4,12	CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV
chr15:65685287:->chr15:65684708:-	chr15	65685145	65685287	-	chr15	65684708	65684708	-	ENST00000352385	5551-5552	9,8	CCLE-BRCA,CCLE-COAD,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr15:66277564:->chr15:66274826:-	chr15	66277411	66277564	-	chr15	66274826	66274826,66274826,66274826,66274826	-	ENST00000409699,ENST00000288745,ENST00000360698,ENST00000395625,ENST00000422354	5553-5556	19,13,2	CCLE-CESC,CCLE-LUSC
chr15:69629840:+>chr15:69672222:+	chr15	69628047	69629840	+	chr15	69672222	69672349,69672349,69672349	+	ENST00000395407,ENST00000561153,ENST00000340965	5557-5559	29,2,23	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr15:69629840:+>chr15:69689807:+	chr15	69628047	69629840	+	chr15	69689807	69689903,69689903,69689903	+	ENST00000395407,ENST00000561153,ENST00000340965	5560-5562	29,2,23	CCLE-COAD
chr15:69629840:+>chr15:69695920:+	chr15	69628047	69629840	+	chr15	69695920	69696161,69696161,69696161	+	ENST00000395407,ENST00000561153,ENST00000340965	5563-5565	29,2,23	CCLE-LUSC
chr15:69631451:+>chr15:69672222:+	chr15	69631027	69631451	+	chr15	69672222	69672349,69672349,69672349	+	ENST00000395407,ENST00000561153,ENST00000340965	5566-5568	20,15,6	CCLE-LUSC,CCLE-PAAD
chr15:69643353:+>chr15:69672222:+	chr15	69643027	69643353	+	chr15	69672222	69672349,69672349,69672349	+	ENST00000395407,ENST00000561153,ENST00000340965	5569-5571	76,1,7	CCLE-COAD,CCLE-LUSC
chr15:72465066:->chr15:72462280:-	chr15	72464760	72465066	-	chr15	72462280	72462280,72462280,72462300,72462280,72462280	-	ENST00000309731,ENST00000564129,ENST00000568594,ENST00000570275,ENST00000562288	5572-5578	2	CCLE-BRCA,CCLE-LUSC
chr15:72487602:->chr15:72462280:-	chr15	72487541	72487602	-	chr15	72462280	72462280,72462280,72462300,72462280,72462280	-	ENST00000309731,ENST00000564129,ENST00000568594,ENST00000570275,ENST00000562288	5579-5585	25,1,32	CCLE-LUSC
chr15:74475786:->chr15:74474801:-	chr15	74475630	74475786	-	chr15	74474801	74474801,74474801,74474801,74474801,74474801,74474801,74474801	-	ENST00000395105,ENST00000423167,ENST00000323940,ENST00000449139,ENST00000416286,ENST00000535552,ENST00000563965,ENST00000574278,ENST00000572785	5586-5591	17,33,7	CCLE-LGG,CCLE-SKCM
chr15:74712580:->chr15:74711293:-	chr15	74712446	74712580	-	chr15	74711293	74711293,75	-	ENST00000261918,ENST00000543145	5592-5595	5,3,1	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC
chr15:75305826:+>chr15:75308934:+	chr15	75305759	75305826	+	chr15	75308934	75309090,75309090,75309091,75309090,75309090,75309083,75309090,75309005,75309090	+	ENST00000425597,ENST00000562327,ENST00000568018,ENST00000562212,ENST00000567920,ENST00000566872,ENST00000361900,ENST00000565989,ENST00000564779	5596-5607	14,1	CCLE-LGG
chr15:76238099:->chr15:76235995:-	chr15	76238066	76238099	-	chr15	76235995	76235995,76	-	ENST00000566417,ENST00000394907	5608-5610	5,2,12	CCLE-CESC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC
chr15:76251363:->chr15:76248347:-	chr15	76251315	76251363	-	chr15	76248347	76248352,76248352,76248352	-	ENST00000566417,ENST00000394907,ENST00000563910	5611-5614	11,37,8	CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC
chr15:76251363:->chr15:76248352:-	chr15	76251315	76251363	-	chr15	76248352	76248352,76248352,76248352	-	ENST00000566417,ENST00000394907,ENST00000563910	5615-5618	11,37,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr15:76298078:->chr15:76254315:-	chr15	76298049	76298078	-	chr15	76254315	76254315,76254315,76254315,76254315	-	ENST00000566417,ENST00000394907,ENST00000563204,ENST00000563910,ENST00000535975	5619-5623	1,4,34	CCLE-CESC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD
chr15:81211939:+>chr15:81212435:+	chr15	81211878	81211939	+	chr15	81212435	81212640,81212640,81212640	+	ENST00000220244,ENST00000356249,ENST00000394685	5624-5626	1,21,13	CCLE-COAD,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr15:83565670:->chr15:83561593:-	chr15	83565646	83565670	-	chr15	83561593	83561593,83561593,83561593,83561593	-	ENST00000450735,ENST00000304231,ENST00000399166,ENST00000426485	5627-5628	14,3	CCLE-LCLL,CCLE-LUSC
chr15:85472633:+>chr15:85476376:+	chr15	85472494	85472633	+	chr15	85476376	85476506,85476506,85476506,85476506	+	ENST00000537216,ENST00000537624,ENST00000286749,ENST00000394573	5629-5633	24,47,2	CCLE-BLCA,CCLE-BRCA,CCLE-KIRC,CCLE-LUSC,CCLE-PAAD
chr15:90958115:+>chr15:90969342:+	chr15	90957590	90958115	+	chr15	90969342	90969498	+	ENST00000268182	5634-5636	35,8,14	CCLE-LUSC

chr15:90987114:+>chr15:90991805:+	chr15	90987031	90987114	+	chr15	90991805	90991968	+	ENST00000268182	5637-5639	11,3,25	CCLE-LUSC
chr15:91022698:+>chr15:91025192:+	chr15	91022690	91022698	+	chr15	91025192	91025332,91	+	ENST00000268182,ENST00000560738	5640-5642	3	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr15:91022738:+>chr15:91025192:+	chr15	91022690	91022738	+	chr15	91025192	91025332,91	+	ENST00000268182,ENST00000560738	5643-5645	1,12,8	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-THCA
chr15:92016546:+>chr15:92459223:+	chr15	92016252	92016546	+	chr15	92459223	92459688,92459688,92459608	+	ENST00000318445,ENST00000424469,ENST00000553304	5646-5650	22,8,51	CCLE-BRCA
chr15:92439924:+>chr15:92459223:+	chr15	92439647	92439924	+	chr15	92459223	92459688,92459688,92459608	+	ENST00000318445,ENST00000424469,ENST00000553304	5651-5655	8,37,40	CCLE-BRCA
chr15:92501699:+>chr15:92638111:+	chr15	92501622	92501699	+	chr15	92638111	92638209,93	+	ENST00000318445,ENST00000424469	5656-5659	26,9	CCLE-ESCA
chr15:93200043:->chr15:93173575:-	chr15	93199932	93200043	-	chr15	93173575	93173575	-	ENST00000327355	5660-5662	16,36,5	CCLE-BRCA,CCLE-STAD
chr15:93242270:->chr15:93173575:-	chr15	93241609	93242270	-	chr15	93173575	93173575	-	ENST00000327355	5663-5665	18,22,23	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-ESCA,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr16:12059840:+>chr16:12060052:+	chr16	12059682	12059840	+	chr16	12060052	12060198,12	+	ENST00000053243,ENST00000562385	5666-5669	25,12,6	CCLE-MM
chr16:12061295:+>chr16:12061427:+	chr16	12061196	12061295	+	chr16	12061427	12061704,12061704,12061451	+	ENST00000053243,ENST00000396495,ENST00000562385	5670-5674	19,11,7	CCLE-MM
chr16:16086109:+>chr16:16101673:+	chr16	16085743	16086109	+	chr16	16101673	16101849,16101849,16101849,16101849,16101849	+	ENST00000399410,ENST00000345148,ENST00000346370,ENST00000349029,ENST00000351154,ENST00000399408	5675-5682	70,48,1	CCLE-DLBC,CCLE-LUSC
chr16:16162702:+>chr16:16165499:+	chr16	16162563	16162702	+	chr16	16165499	16165586,16165586,16165586,16165586,16165586	+	ENST00000399410,ENST00000345148,ENST00000346370,ENST00000349029,ENST00000351154,ENST00000399408,ENST00000572882	5683-5690	47,13,2	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-SARC
chr16:16171648:+>chr16:16173209:+	chr16	16171624	16171648	+	chr16	16173209	16173335,16173335,16173335,16173335,16173335	+	ENST00000399410,ENST00000345148,ENST00000346370,ENST00000349029,ENST00000351154,ENST00000399408,ENST00000572882	5691-5700	8,9	CCLE-ESCA
chr16:16256376:->chr16:16255421:-	chr16	16256340	16256376	-	chr16	16255421	16255421	-	ENST00000205557	5701-5702	8,6	CCLE-LIHC,CCLE-LUSC
chr16:16294865:->chr16:16292039:-	chr16	16294814	16294865	-	chr16	16292039	16292039,16	-	ENST00000205557,ENST00000456970	5703-5706	9,32,11	CCLE-BRCA,CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr16:18810583:->chr16:18810156:-	chr16	18810332	18810583	-	chr16	18810156	18810156,18810156,18810156,18810156	-	ENST00000567078,ENST00000304414,ENST00000563861,ENST00000562819,ENST00000562234	5707-5713	17,8	CCLE-LUSC
chr16:2142838:->chr16:2142593:-	chr16	2142712	2142838	-	chr16	2142593	2142593,2142593,2142593	-	ENST00000262304,ENST00000423118,ENST00000562425	5714-5718	9,18,3	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr16:2146631:->chr16:2144211:-	chr16	2146521	2146631	-	chr16	2144211	2144211,214	-	ENST00000262304,ENST00000423118	5719-5721	1,53,8	CCLE-MM
chr16:2148723:->chr16:2147985:-	chr16	2148702	2148723	-	chr16	2147985	2147985,2147985,2147985	-	ENST00000262304,ENST00000423118,ENST00000567946	5722-5727	19,17,13	CCLE-CESC,CCLE-LUSC
chr16:2149321:->chr16:2147985:-	chr16	2149263	2149321	-	chr16	2147985	2147985,2147985,2147985	-	ENST00000262304,ENST00000423118,ENST00000567946	5728-5733	34,42,21	CCLE-BRCA
chr16:21732846:+>chr16:21734226:+	chr16	21732648	21732846	+	chr16	21734226	21734299,21734299,21734299	+	ENST00000286149,ENST00000388958,ENST00000388956,ENST00000388957	5734-5736	17,1,32	CCLE-DLBC
chr16:21732846:+>chr16:21742158:+	chr16	21732648	21732846	+	chr16	21742158	21742251,21742251,21742251	+	ENST00000286149,ENST00000388958,ENST00000388956,ENST00000388957	5737-5739	1,17,32	CCLE-DLBC
chr16:23347490:+>chr16:23359913:+	chr16	23347412	23347490	+	chr16	23359913	23360231	+	ENST00000307331	5740-5742	6,2,26	CCLE-DLBC,CCLE-MM
chr16:23347679:+>chr16:23359913:+	chr16	23347666	23347679	+	chr16	23359913	23360231	+	ENST00000307331	5743-5745	5,4	CCLE-MM
chr16:23365611:+>chr16:23366620:+	chr16	23365483	23365611	+	chr16	23366620	23366810,23366810,23366810	+	ENST00000343070,ENST00000307331,ENST00000564275,ENST00000568085	5746-5750	9,18,26	CCLE-LUSC,CCLE-MM
chr16:2621785:+>chr16:2627426:+	chr16	2621656	2621785	+	chr16	2627426	2627501,2627501,2627501,2627501	+	ENST00000342085,ENST00000566659,ENST00000441549,ENST00000268673,ENST00000389224	5751-5756	3,13,34	CCLE-BLCA,CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr16:27341519:+>chr16:27353442:+	chr16	27341429	27341519	+	chr16	27353442	27353580,27353580,27353580,27353580,27353580	+	ENST00000566117,ENST00000395762,ENST00000562142,ENST00000543915,ENST00000449195,ENST00000380922,ENST00000566318,ENST00000563002,ENST00000170630	5757-5764	8,30,22	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr16:27357110:+>chr16:27357788:+	chr16	27357010	27357110	+	chr16	27357788	27357939,27357939,27357939,27357939	+	ENST00000395762,ENST00000543915,ENST00000449195,ENST00000380922,ENST00000170630	5765-5767	34,25	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr16:29000300:+>chr16:29000848:+	chr16	29000072	29000300	+	chr16	29000848	29000910,29000910,29000910,29000910,29000910	+	ENST00000395461,ENST00000564277,ENST00000395456,ENST00000454369,ENST00000360872,ENST00000354453,ENST00000566177,ENST00000570232	5768-5771	11,19,27	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM
chr16:29974972:+>chr16:29979346:+	chr16	29974922	29974972	+	chr16	29979346	29979575,29979575,29979575,29979575,29979575	+	ENST00000414689,ENST00000602948,ENST00000279396,ENST00000575829,ENST00000561899,ENST00000556808,ENST00000570255,ENST00000569445	5772-5777	1,17,8	CCLE-KIRC,CCLE-LUSC,CCLE-OV
chr16:30509333:+>chr16:30510395:+	chr16	30509284	30509333	+	chr16	30510395	30510555,31	+	ENST00000356798,ENST00000358164	5778-5781	12,16,8	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr16:30509333:+>chr16:30510442:+	chr16	30509284	30509333	+	chr16	30510442	30510555,31	+	ENST00000356798,ENST00000358164	5782-5785	12,16,8	CCLE-LCLL
chr16:349016:->chr16:348251:-	chr16	348781	349016	-	chr16	348251	348251,3483	-	ENST00000262320,ENST00000354866	5786-5789	17	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr16:356291:->chr16:354441:-	chr16	355985	356291	-	chr16	354441	354441,3544	-	ENST00000262320,ENST00000354866	5790-5793	5,10,26	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr16:4065563:->chr16:4057559:-	chr16	4065523	4065563	-	chr16	4057559	4057559,406	-	ENST00000294016,ENST00000572288	5794-5797	2,10,9	CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr16:4667729:+>chr16:4700366:+	chr16	4667704	4667729	+	chr16	4700366	4700484,4700484,4700484,4700484,4700484	+	ENST00000262370,ENST00000415496,ENST00000536343,ENST00000587747,ENST00000399577,ENST00000588994,ENST00000586183	5798-5806	9,1,8	CCLE-BRCA,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr16:4678172:+>chr16:4714710:+	chr16	4678110	4678172	+	chr16	4714710	4714776,4714776,4714776,4714776,4714776	+	ENST00000262370,ENST00000415496,ENST00000536343,ENST00000587747,ENST00000399577,ENST00000588994,ENST00000586183,ENST00000590790	5807-5816	21,13	CCLE-LCLL
chr16:4708321:+>chr16:4714710:+	chr16	4708255	4708321	+	chr16	4714710	4714776,4714776,4714776,4714776,4714776	+	ENST00000262370,ENST00000415496,ENST00000536343,ENST00000587747,ENST00000399577,ENST00000588994,ENST00000586183,ENST00000590790	5817-5826	23,22,13	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr16:4714287:+>chr16:4714710:+	chr16	4713978	4714287	+	chr16	4714710	4714776,4714776,4714776,4714776,4714776	+	ENST00000262370,ENST00000415496,ENST00000536343,ENST00000587747,ENST00000399577,ENST00000588994,ENST00000586183,ENST00000590790	5827-5836	79,17,11	CCLE-LCLL
chr16:4719253:+>chr16:4721392:+	chr16	4719153	4719253	+	chr16	4721392	4721460,4721460,4721460,4721460,4721460	+	ENST00000262370,ENST00000415496,ENST00000536343,ENST00000587747,ENST00000399577,ENST00000588994,ENST00000586183,ENST00000590790	5837-5846	11,34,7	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-STAD
chr16:47700504:+>chr16:47703126:+	chr16	47700288	47700504	+	chr16	47703126	47703328,47703328,47703328,47703328,47703328	+	ENST00000566044,ENST00000455779,ENST00000299167,ENST00000323584,ENST00000566275	5847-5848	34,11	CCLE-BRCA,CCLE-CESC,CCLE-LUSC

chr16:50663651:+>chr16:50664097:+	chr16	50663540	50663651	+	chr16	50664097	50664244	+	ENST00000268459	5849-5851	11,25,8	CCLE-STAD
chr16:50663659:+>chr16:50664097:+	chr16	50663540	50663659	+	chr16	50664097	50664244	+	ENST00000268459	5852-5854	13,2,11	CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr16:55553534:+>chr16:55559420:+	chr16	55553449	55553534	+	chr16	55559420	55559559	+	ENST00000262134	5855-5856	14,5	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr16:55578787:+>chr16:55579647:+	chr16	55578698	55578787	+	chr16	55579647	55579729	+	ENST00000262134	5857-5858	30,22	CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr16:55705440:+>chr16:55705850:+	chr16	55705367	55705440	+	chr16	55705850	55706087,55706087,55706043,55706087,55706087,55706087,55706087	+	ENST00000568943,ENST00000568529,ENST00000414754,ENST00000568655,ENST00000379906,ENST00000561820,ENST00000219833,ENST00000566163,ENST00000567238	5859-5868	3,11,25	CCLE-LGG
chr16:56277084:+>chr16:56309843:+	chr16	56276744	56277084	+	chr16	56309843	56309984,56309984,56309984	+	ENST00000262493,ENST00000262494,ENST00000565363	5869-5873	4,15,20	CCLE-LUSC
chr16:56346265:+>chr16:56362543:+	chr16	56346079	56346265	+	chr16	56362543	56362703,56362703,56362703,56362703	+	ENST00000262493,ENST00000262494,ENST00000565363,ENST00000562316,ENST00000563440	5874-5879	3,63,8	CCLE-LUSC
chr16:56903120:+>chr16:56903641:+	chr16	56902912	56903120	+	chr16	56903641	56903736,56903736,56903736	+	ENST00000566786,ENST00000438926,ENST00000563236,ENST00000262502	5880-5883	36,14,4	CCLE-OV
chr16:57151728:+>chr16:57153107:+	chr16	57151712	57151728	+	chr16	57153107	57153190,57153190,57153190	+	ENST00000290776,ENST00000537605,ENST00000535318,ENST00000565874,ENST00000567487	5884-5886	5,6	CCLE-LCLL
chr16:57803179:->chr16:57800897:-	chr16	57802950	57803179	-	chr16	57800897	57800897,57800897,57800897,57800897,57800897,57800897,57800897	-	ENST00000465878,ENST00000379655,ENST00000445690,ENST00000421376,ENST00000541240,ENST00000540079,ENST00000543930,ENST00000562903,ENST00000564136,ENST00000539578	5887-5892	1,14,23	CCLE-LUSC
chr16:57813789:->chr16:57806200:-	chr16	57813770	57813789	-	chr16	57806200	57806200,57806200,57806200,57806200,57806200,57806200,57806200	-	ENST00000379655,ENST00000445690,ENST00000541240,ENST00000540079,ENST00000539578,ENST00000562503,ENST00000569222,ENST00000566648,ENST00000561524,ENST00000565684	5893-5901	8,25,51	CCLE-LUSC
chr16:57828337:->chr16:57806200:-	chr16	57828133	57828337	-	chr16	57806200	57806200,57806200,57806200,57806200,57806200,57806200,57806200	-	ENST00000379655,ENST00000445690,ENST00000541240,ENST00000540079,ENST00000539578,ENST00000562503,ENST00000569222,ENST00000566648,ENST00000561524,ENST00000565684	5902-5909	11,16	CCLE-BRCA,CCLE-ESCA,CCLE-LUSC,CCLE-SARC
chr16:58754689:->chr16:58753159:-	chr16	58754483	58754689	-	chr16	58753159	58753159,59	-	ENST00000245206,ENST00000434819	5910-5912	11,3,25	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD
chr16:58764203:->chr16:58757806:-	chr16	58764107	58764203	-	chr16	58757806	58757806,59	-	ENST00000245206,ENST00000434819	5913-5916	3,14,27	CCLE-LUSC
chr16:61810109:->chr16:61761119:-	chr16	61810064	61810109	-	chr16	61761119	61761119,61761119,61761119,61761119	-	ENST00000577730,ENST00000299345,ENST00000577390,ENST00000584337	5917-5923	4,2,11	CCLE-LUSC
chr16:66847209:->chr16:66844675:-	chr16	66847047	66847209	-	chr16	66844675	66844675,66844675,66844675	-	ENST00000359087,ENST00000290810,ENST00000379463,ENST00000394074	5924-5925	3,23	CCLE-COAD,CCLE-DLBC,CCLE-LUSC,CCLE-SARC
chr16:66863989:->chr16:66860683:-	chr16	66863803	66863989	-	chr16	66860683	66860683,66860683,66860683,66860683	-	ENST00000359087,ENST00000290810,ENST00000379463,ENST00000569388,ENST00000566336,ENST00000565535	5926-5932	32,11,25	CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr16:66864021:->chr16:66860683:-	chr16	66863803	66864021	-	chr16	66860683	66860683,66860683,66860683,66860683	-	ENST00000359087,ENST00000290810,ENST00000379463,ENST00000569388,ENST00000566336,ENST00000565535	5933-5939	21,1,14	CCLE-BRCA,CCLE-COAD,CCLE-LUSC,CCLE-OV
chr16:68401301:->chr16:68398995:-	chr16	68401181	68401301	-	chr16	68398995	68398995,68398995,68398995	-	ENST00000219334,ENST00000574662,ENST00000568373,ENST00000563226	5940-5947	25,24,2	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr16:68719481:+>chr16:68721419:+	chr16	68719427	68719481	+	chr16	68721419	68721639,68721639	+	ENST00000264012,ENST00000429102,ENST00000581171	5948-5951	19,18,9	CCLE-HNSC,CCLE-PAAD
chr16:68792308:+>chr16:68835573:+	chr16	68792175	68792308	+	chr16	68835573	68835796,68835796,68835796	+	ENST00000261769,ENST00000566612,ENST00000422392,ENST00000566510	5952-5956	9,11	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr16:68827612:+>chr16:68835573:+	chr16	68827513	68827612	+	chr16	68835573	68835796,68835796,68835796	+	ENST00000261769,ENST00000566612,ENST00000422392,ENST00000566510	5957-5961	11,3	CCLE-BRCA,CCLE-COAD,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD
chr16:68834633:+>chr16:68835573:+	chr16	68834574	68834633	+	chr16	68835573	68835796,68835796,68835796	+	ENST00000261769,ENST00000566612,ENST00000422392,ENST00000566510	5962-5966	20	CCLE-LUSC
chr16:74718095:->chr16:74716684:-	chr16	74717832	74718095	-	chr16	74716684	74716684,75	-	ENST00000308807,ENST00000571303	5967-5969	17,8	CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr16:76322184:+>chr16:76350310:+	chr16	76321898	76322184	+	chr16	76350310	76350420,76350420,76350420	+	ENST00000307431,ENST00000377504,ENST00000478060,ENST00000476707	5970-5975	8,4,44	CCLE-LCLL
chr16:811174:+>chr16:813233:+	chr16	810974	811174	+	chr16	813233	813276,813276,813276,813276	+	ENST00000563941,ENST00000545450,ENST00000566549,ENST00000382862,ENST00000563651,ENST00000569566	5976-5977	67,18	CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr16:82753080:+>chr16:82891967:+	chr16	82752959	82753080	+	chr16	82891967	82892078,82892078,82892078,82892078,82892078,82892078,82892078	+	ENST00000566620,ENST00000268613,ENST00000569144,ENST00000566636,ENST00000431540,ENST00000042888,ENST00000539548,ENST00000567445,ENST00000446376	5978-5986	4,15,41	CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-SARC,CCLE-SKCM
chr16:83781072:+>chr16:83781713:+	chr16	83780816	83781072	+	chr16	83781713	83781855,83781855	+	ENST00000566620,ENST00000268613,ENST00000428848	5987-5989	19,10,4	CCLE-LCLL
chr16:83827495:+>chr16:83828628:+	chr16	83827441	83827495	+	chr16	83828628	83828635,83828635	+	ENST00000566620,ENST00000268613,ENST00000428848	5990-5992	2,18,13	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr16:83827890:+>chr16:83828628:+	chr16	83827869	83827890	+	chr16	83828628	83828635,83828635	+	ENST00000566620,ENST00000268613,ENST00000428848	5993-5995	7,8	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr16:84424335:+>chr16:84432105:+	chr16	84424189	84424335	+	chr16	84432105	84432215,84	+	ENST00000262429,ENST00000416219	5996-5999	11,49,16	CCLE-LUSC
chr16:87900272:->chr16:87885455:-	chr16	87900074	87900272	-	chr16	87885455	87885455	-	ENST00000261622	6000-6002	33,11	CCLE-HNSC,CCLE-KIRC,CCLE-LUSC,CCLE-PAAD
chr16:88715633:->chr16:88714522:-	chr16	88715337	88715633	-	chr16	88714522	88714522,88714522,88714522,88714522	-	ENST00000261623,ENST00000566229,ENST00000567174,ENST00000569359,ENST00000568278	6003-6013	4,3	CCLE-BRCA,CCLE-DLBC,CCLE-LUSC
chr16:88785316:->chr16:88783619:-	chr16	88785114	88785316	-	chr16	88783619	88783619,89	-	ENST00000301015,ENST00000327397	6014-6016	7,3	CCLE-LCLL
chr16:89249054:+>chr16:89249956:+	chr16	89248767	89249054	+	chr16	89249956	89250100	+	ENST00000289746	6017-6019	20,42,28	CCLE-BRCA,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM
chr16:89655641:+>chr16:89656305:+	chr16	89655418	89655641	+	chr16	89656305	89656359,89656359,89656359	+	ENST00000268720,ENST00000319518,ENST00000529800,ENST00000568977	6020-6024	40,21	CCLE-LUSC,CCLE-STAD
chr16:89903379:+>chr16:89911730:+	chr16	89903106	89903379	+	chr16	89911730	89911773,89911773,89911773	+	ENST00000393062,ENST00000378247,ENST00000563972	6025-6029	11,19	CCLE-COAD,CCLE-LUSC
chr16:89930405:+>chr16:89934597:+	chr16	89930382	89930405	+	chr16	89934597	89934624	+	ENST00000378247	6030-6031	8	CCLE-COAD,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr16:89935381:+>chr16:89935975:+	chr16	89935293	89935381	+	chr16	89935975	89936090	+	ENST00000378247	6032-6034	8,30,29	CCLE-LUSC,CCLE-PAAD
chr17:1365517:->chr17:1340449:-	chr17	1365473	1365517	-	chr17	1340449	1340449,1340449,1340449	-	ENST00000398970,ENST00000300574,ENST00000574295	6035-6039	7,8	CCLE-LUSC
chr17:1382536:->chr17:1382029:-	chr17	1382315	1382536	-	chr17	1382029	1382029,1382029,1382029,1382029	-	ENST00000359786,ENST00000438665,ENST00000575158,ENST00000361007,ENST00000545534	6040-6042	1,8,16	CCLE-LUSC
chr17:19600139:->chr17:19584983:-	chr17	19600058	19600139	-	chr17	19584983	19584983,2	-	ENST00000325411,ENST00000350657	6043-6045	9,41,21	CCLE-ESCA,CCLE-KIRC,CCLE-LUSC
chr17:19621539:->chr17:19618530:-	chr17	19621483	19621539	-	chr17	19618530	19618530,19618530,19618530,19618530	-	ENST00000325411,ENST00000350657,ENST00000574239,ENST00000434384	6046-6051	44,6	CCLE-HNSC
chr17:25810860:+>chr17:25877594:+	chr17	25810743	25810860	+	chr17	25877594	25877734,26	+	ENST00000509603,ENST00000319524	6052-6055	1,7,11	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC

chr17:25810877:+>chr17:25877594:+	chr17	25810743	25810877	+	chr17	25877594	25877734,26	+	ENST00000509603,ENST00000319524	6056-6059	7,12,17	CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-STAD
chr17:25830916:+>chr17:25877594:+	chr17	25830609	25830916	+	chr17	25877594	25877734,26	+	ENST00000509603,ENST00000319524	6060-6063	1,3,7	CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr17:25859060:+>chr17:25877594:+	chr17	25858999	25859060	+	chr17	25877594	25877734,26	+	ENST00000509603,ENST00000319524	6064-6067	20,21	CCLE-LCLL
chr17:25881681:+>chr17:25904518:+	chr17	25881355	25881681	+	chr17	25904518	25904665,26	+	ENST00000509603,ENST00000319524	6068-6071	4,15,29	CCLE-DLBC,CCLE-LCLL
chr17:25903958:+>chr17:25904518:+	chr17	25903906	25903958	+	chr17	25904518	25904665,26	+	ENST00000509603,ENST00000319524	6072-6075	17,18,4	CCLE-LCLL,CCLE-SKCM
chr17:27054837:->chr17:27051911:-	chr17	27054630	27054837	-	chr17	27051911	27051911,2705191 1,27051911	-	ENST00000292090,ENST00000394933,ENST00000580518	6076-6079	7,25,11	CCLE-LUSC
chr17:27054837:->chr17:27052404:-	chr17	27054630	27054837	-	chr17	27052404	2705240 4,2705240 4,27052404	-	ENST00000292090,ENST00000394933,ENST00000580518	6080-6083	7,25,11	CCLE-BRCA,CCLE-COAD,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr17:27217637:->chr17:27216044:-	chr17	27217405	27217637	-	chr17	27216044	27216044,2721604 4,27216044,272160 44,27216044	-	ENST00000394906,ENST00000394908,ENST00000580805,ENST00000585169,ENST00000586827	6084-6092	1,6,13	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD
chr17:27220523:->chr17:27216044:-	chr17	27220427	27220523	-	chr17	27216044	27216044,2721604 4,27216044,272160 44,27216044	-	ENST00000394906,ENST00000394908,ENST00000580805,ENST00000585169,ENST00000586827	6093-6101	2,18,17	CCLE-BRCA
chr17:27221963:->chr17:27216044:-	chr17	27221917	27221963	-	chr17	27216044	27216044,2721604 4,27216044,272160 44,27216044	-	ENST00000394906,ENST00000394908,ENST00000580805,ENST00000585169,ENST00000586827	6102-6110	13,22,73	CCLE-DLBC
chr17:27247812:->chr17:27216044:-	chr17	27247593	27247812	-	chr17	27216044	27216044,2721604 4,27216044,272160 44,27216044	-	ENST00000394906,ENST00000394908,ENST00000580805,ENST00000585169,ENST00000586827	6111-6119	1,22,13	CCLE-LUSC
chr17:27307589:->chr17:27306831:-	chr17	27307391	27307589	-	chr17	27306831	27306831,2730683 1,27306831,273068 31,27306831,27306 831	-	ENST00000360295,ENST00000540632,ENST00000317338,ENST00000540419,ENST00000442608,ENST00000335960	6120-6126	16,2,23	CCLE-LGG,CCLE-LUSC
chr17:27307621:->chr17:27306831:-	chr17	27307391	27307621	-	chr17	27306831	27306831,2730683 1,27306831,273068 31,27306831,27306 831	-	ENST00000360295,ENST00000540632,ENST00000317338,ENST00000540419,ENST00000442608,ENST00000335960	6127-6133	22,5,13	CCLE-LGG,CCLE-LUSC
chr17:31011193:->chr17:30986356:-	chr17	31005276	31011193	-	chr17	30986356	30986356,3098635 6,30986356	-	ENST00000318217,ENST00000394649,ENST00000579584	6134-6137	7,32,1	CCLE-BLCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD
chr17:31011217:->chr17:30986356:-	chr17	31005276	31011217	-	chr17	30986356	30986356,3098635 6,30986356	-	ENST00000318217,ENST00000394649,ENST00000579584	6138-6141	6,16,24	CCLE-ESCA
chr17:31044684:->chr17:31039213:-	chr17	31044415	31044684	-	chr17	31039213	31039213,3103921 3,31039213	-	ENST00000318217,ENST00000394649,ENST00000579584	6142-6145	12,14,9	CCLE-LIHC
chr17:31074263:->chr17:31072303:-	chr17	31074199	31074263	-	chr17	31072303	31072303,3107230 3,31072303	-	ENST00000318217,ENST00000394649,ENST00000579584	6146-6149	12,4	CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr17:37849578:+>chr17:37863243:+	chr17	37849385	37849578	+	chr17	37863243	37863394,3786339 4,37863394,378634 42,37863394	+	ENST00000541774,ENST00000584450,ENST00000582648,ENST00000578373,ENST00000269571	6150-6157	1,37,65	CCLE-LUSC
chr17:37861414:+>chr17:37863243:+	chr17	37861216	37861414	+	chr17	37863243	37863394,3786339 4,37863394,378634 42,37863394	+	ENST00000541774,ENST00000584450,ENST00000582648,ENST00000578373,ENST00000269571	6158-6165	34,66,50	CCLE-BRCA
chr17:37861418:+>chr17:37863243:+	chr17	37861216	37861418	+	chr17	37863243	37863394,3786339 4,37863394,378634 42,37863394	+	ENST00000541774,ENST00000584450,ENST00000582648,ENST00000578373,ENST00000269571	6166-6172	68,51	CCLE-BRCA
chr17:37864038:+>chr17:37864574:+	chr17	37863970	37864038	+	chr17	37864574	37864787,3786478 7,37864787,378647 87,37864787,37864 787,37864787,3786 4745,37864787,378 64787	+	ENST00000584601,ENST00000578199,ENST00000406381,ENST00000541774,ENST00000540147,ENST00000584450,ENST00000269571,ENST00000578709,ENST00000584099,ENST00000540042	6173-6179	23,1,14	CCLE-BRCA,CCLE-STAD
chr17:37869172:+>chr17:37871539:+	chr17	37868954	37869172	+	chr17	37871539	37871612,3787161 2,37871612,378716 12,37871612,37871 612,37871612,3787 1612,37871612,378 71545	+	ENST00000584601,ENST00000578199,ENST00000406381,ENST00000541774,ENST00000445658,ENST00000540147,ENST00000584450,ENST00000269571,ENST00000540042,ENST00000578502	6180-6187	16,24,4	CCLE-BRCA,CCLE-LUSC
chr17:37870127:+>chr17:37871539:+	chr17	37870027	37870127	+	chr17	37871539	37871612,3787161 2,37871612,378716 12,37871612,37871 612,37871612,3787 1612,37871612,378 71545	+	ENST00000584601,ENST00000578199,ENST00000406381,ENST00000541774,ENST00000445658,ENST00000540147,ENST00000584450,ENST00000269571,ENST00000540042,ENST00000578502	6188-6191	11,25	CCLE-BRCA
chr17:37878574:+>chr17:37879572:+	chr17	37878475	37878574	+	chr17	37879572	37879710,3787971 0,37879710,378797 10,37879710,37879 710,37879710,3787 9710,37879710	+	ENST00000584601,ENST00000406381,ENST00000541774,ENST00000445658,ENST00000540147,ENST00000584450,ENST00000269571,ENST00000582818,ENST00000580074	6192-6197	20,11,25	CCLE-BRCA
chr17:37882405:+>chr17:37882815:+	chr17	37882306	37882405	+	chr17	37882815	37882912,3788291 2,37882912,378829 12,37882912,37882 912,37882912	+	ENST00000584601,ENST00000406381,ENST00000541774,ENST00000445658,ENST00000540147,ENST00000584450,ENST00000269571	6198-6200	11,25	CCLE-BRCA,CCLE-ESCA,CCLE-LUSC,CCLE-STAD
chr17:37882405:+>chr17:37883068:+	chr17	37882306	37882405	+	chr17	37883068	37883256,3788325 6,37883256,378832 56,37883256,37883 256,37883256	+	ENST00000584601,ENST00000406381,ENST00000541774,ENST00000445658,ENST00000540147,ENST00000584450,ENST00000269571	6201-6203	11,25	CCLE-BRCA
chr17:37891618:->chr17:37886544:-	chr17	37891571	37891618	-	chr17	37886544	37886544,38	-	ENST00000394231,ENST00000577810	6204-6204	1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SKCM,CCLE-STAD
chr17:40280037:->chr17:40278866:-	chr17	40279846	40280037	-	chr17	40278866	40278866,4027886 6,40278866,402788 66	-	ENST00000346213,ENST00000393860,ENST00000547517,ENST00000551338	6205-6209	3,11,25	CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-SARC
chr17:43307787:+>chr17:43307971:+	chr17	43307731	43307787	+	chr17	43307971	43308054,43	+	ENST00000331495,ENST00000328118	6210-6213	7,19	CCLE-DLBC
chr17:4427401:+>chr17:4428352:+	chr17	4427352	4427401	+	chr17	4428352	4428488	+	ENST00000329078	6214-6216	17,8,1	CCLE-COAD,CCLE-LUSC
chr17:45305028:+>chr17:45351785:+	chr17	45304794	45305028	+	chr17	45351785	45351870,4535187 0,45351870	+	ENST00000559488,ENST00000571680,ENST00000560629	6217-6220	76,79	CCLE-LCLL
chr17:45356073:+>chr17:45360720:+	chr17	45356022	45356073	+	chr17	45360720	45360915,4536091 5,45360915,453609 15	+	ENST00000559488,ENST00000571680,ENST00000435993,ENST00000560629	6221-6225	11,18,17	CCLE-CESC,CCLE-KIRC,CCLE-SKCM
chr17:45896884:->chr17:45896465:-	chr17	45896812	45896884	-	chr17	45896465	45896465,4589646 5,45896465	-	ENST00000007414,ENST00000392507,ENST00000579728	6226-6228	30,13	CCLE-COAD,CCLE-LUSC,CCLE-PAAD
chr17:4639584:->chr17:4638803:-	chr17	4639381	4639584	-	chr17	4638803	4638803,4638803,4638803	-	ENST00000293778,ENST00000574412,ENST00000573123	6229-6234	15,6,19	CCLE-LCLL
chr17:46531508:->chr17:46474147:-	chr17	46531396	46531508	-	chr17	46474147	46474147,4647414 7,46474147	-	ENST00000336915,ENST00000584709,ENST00000584924	6235-6238	20,75	CCLE-LCLL
chr17:4720742:+>chr17:4721297:+	chr17	4720676	4720742	+	chr17	4721297	4721401,472	+	ENST00000263088,ENST00000572940	6239-6242	23,22,13	CCLE-BLCA,CCLE-LUSC
chr17:4720774:+>chr17:4721297:+	chr17	4720676	4720774	+	chr17	4721297	4721401,472	+	ENST00000263088,ENST00000572940	6243-6246	33,2,24	CCLE-HNSC,CCLE-LCLL,CCLE-LUSC
chr17:47582998:+>chr17:47583661:+	chr17	47582952	47582998	+	chr17	47583661	47584020	+	ENST00000172229	6247-6249	2,14,16	CCLE-SARC,CCLE-SKCM
chr17:48135458:+>chr17:48141441:+	chr17	48135445	48135458	+	chr17	48141441	48141568,4814156 8,48141568	+	ENST00000506401,ENST00000320031,ENST00000007722	6250-6253	4,2	CCLE-BRCA,CCLE-CESC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM
chr17:48150385:+>chr17:48151280:+	chr17	48150284	48150385	+	chr17	48151280	48151368,4815136 8,48151368,481513 68,48151368	+	ENST00000544892,ENST00000320031,ENST00000007722,ENST00000512553,ENST00000510809	6254-6259	16,5	CCLE-BLCA,CCLE-CESC,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr17:48150543:+>chr17:48151280:+	chr17	48150284	48150543	+	chr17	48151280	48151368,4815136 8,48151368,481513 68,48151368	+	ENST00000544892,ENST00000320031,ENST00000007722,ENST00000512553,ENST00000510809	6260-6266	12,14,8	CCLE-BRCA,CCLE-LUSC
chr17:48158888:+>chr17:48165108:+	chr17	48158866	48158888	+	chr17	48165108	48165233,48	+	ENST00000320031,ENST00000007722	6267-6270	8,7	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr17:48164185:+>chr17:48165108:+	chr17	48164136	48164185	+	chr17	48165108	48165233,48	+	ENST00000320031,ENST00000007722	6271-6274	17,16,8	CCLE-BLCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD

chr17:48164282:+>chr17:48165108:+	chr17	48164136	48164282	+	chr17	48165108	48165233,48	+	ENST00000320031,ENST00000007722	6275-6278	1,15,4	CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr17:48251498:+>chr17:48252618:+	chr17	48251398	48251498	+	chr17	48252618	48252740,48252798,48252798,48252736,48252798	+	ENST00000513821,ENST00000344627,ENST00000262018,ENST00000543315,ENST00000511303,ENST00000504073	6279-6286	11,25,3	CCLE-COAD,CCLE-KIRC
chr17:48719130:+>chr17:48733193:+	chr17	48719125	48719130	+	chr17	48733193	48733369,48733369,48733369	+	ENST00000427699,ENST00000285238,ENST00000502426,ENST00000505699	6287-6292	2	CCLE-LIHC
chr17:48743773:+>chr17:48744915:+	chr17	48743551	48743773	+	chr17	48744915	48745202,48745118,48744961,48745118	+	ENST00000427699,ENST00000285238,ENST00000502426,ENST00000505699	6293-6298	7,34,21	CCLE-LUSC
chr17:48743888:+>chr17:48744915:+	chr17	48743843	48743888	+	chr17	48744915	48745202,48745118,48744961,48745118	+	ENST00000427699,ENST00000285238,ENST00000502426,ENST00000505699	6299-6300	15,7	CCLE-BRCA,CCLE-CESC,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC
chr17:48756050:+>chr17:48757159:+	chr17	48756002	48756050	+	chr17	48757159	48757260	+	ENST00000285238	6301-6303	17,8,16	CCLE-ESCA
chr17:48756100:+>chr17:48757159:+	chr17	48756002	48756100	+	chr17	48757159	48757260	+	ENST00000285238	6304-6306	11,25,33	CCLE-BRCA
chr17:48758204:+>chr17:48760971:+	chr17	48758154	48758204	+	chr17	48760971	48761117	+	ENST00000285238	6307-6309	12,17,8	CCLE-LGG,CCLE-LUSC,CCLE-STAD
chr17:48766034:+>chr17:48768453:+	chr17	48765966	48766034	+	chr17	48768453	48768561	+	ENST00000285238	6310-6312	1,2,14	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr17:49068517:->chr17:49068029:-	chr17	49068269	49068517	-	chr17	49068029	49068029,49068029,49068029,49068029	-	ENST00000262013,ENST00000510283,ENST00000505279,ENST00000357122,ENST00000513906	6313-6317	4,1,15	CCLE-BRCA,CCLE-COAD,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr17:57837468:+>chr17:57842332:+	chr17	57837339	57837468	+	chr17	57842332	57842499,57842344,57842499,57842499	+	ENST00000262291,ENST00000593168,ENST00000537567,ENST00000536180	6318-6322	13,22,11	CCLE-BRCA
chr17:57905129:+>chr17:57915656:+	chr17	57905047	57905129	+	chr17	57915656	57915758,57915758,57915758,57915758,57915758,57915758,57915758,57915758	+	ENST00000262291,ENST00000537567,ENST00000539763,ENST00000536180,ENST00000545362,ENST00000591877	6323-6325	11,7,28	CCLE-DLBC
chr17:57913424:+>chr17:57915656:+	chr17	57913412	57913424	+	chr17	57915656	57915758,57915758,57915758,57915758,57915758,57915758,57915758,57915758	+	ENST00000262291,ENST00000537567,ENST00000539763,ENST00000536180,ENST00000545362,ENST00000591877	6326-6328	4,1,3	CCLE-LUSC
chr17:58228890:+>chr17:58232675:+	chr17	58228860	58228890	+	chr17	58232675	58232728,58	+	ENST00000300900,ENST00000586876	6329-6333	10,5,11	CCLE-LUSC,CCLE-STAD
chr17:62591197:->chr17:62589691:-	chr17	62591140	62591197	-	chr17	62589691	62589691,63	-	ENST00000262435,ENST00000585301	6334-6337	1,3,6	CCLE-COAD,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM
chr17:62609987:->chr17:62594608:-	chr17	62609863	62609987	-	chr17	62594608	62594608,62594608,62594608,62594608	-	ENST00000582081,ENST00000578386,ENST00000262435,ENST00000585301	6338-6342	4,15,29	CCLE-BRCA,CCLE-COAD,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr17:62609987:->chr17:62602758:-	chr17	62609863	62609987	-	chr17	62602758	62602758,63	-	ENST00000578386,ENST00000262435	6343-6346	4,15,29	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr17:64777565:+>chr17:64782985:+	chr17	64777270	64777565	+	chr17	64782985	64783092	+	ENST00000413366	6347-6349	60,5,24	CCLE-DLBC
chr17:67245068:->chr17:67244458:-	chr17	67244839	67245068	-	chr17	67244458	67244458,67244458,67244458,67244458	-	ENST00000392676,ENST00000392677,ENST00000588877,ENST00000586811	6350-6354	3,33,24	CCLE-LUSC
chr17:67306489:->chr17:67305564:-	chr17	67306287	67306489	-	chr17	67305564	67305564,67305564,67305564,67305564,67305564,67305564,67305564,67305564	-	ENST00000392676,ENST00000392677,ENST00000588877,ENST00000593159,ENST00000593253,ENST00000587607,ENST00000592568	6355-6361	9,30,22	CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-LUSC,CCLE-MM,CCLE-SKCM,CCLE-STAD
chr17:70734437:->chr17:70732858:-	chr17	70734132	70734437	-	chr17	70732858	70732858,70732858,70732858,70732858	-	ENST00000255559,ENST00000542342,ENST00000582769,ENST00000581581	6362-6366	2	CCLE-DLBC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr17:70814009:->chr17:70732858:-	chr17	70813926	70814009	-	chr17	70732858	70732858,70732858,70732858,70732858	-	ENST00000255559,ENST00000542342,ENST00000582769,ENST00000581581	6367-6368	40,8	CCLE-BRCA,CCLE-LUSC,CCLE-SKCM
chr17:72225772:+>chr17:72227027:+	chr17	72225690	72225772	+	chr17	72227027	72227138,72	+	ENST00000269346,ENST00000529107	6369-6371	28,1	CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr17:72749381:+>chr17:72758151:+	chr17	72749218	72749381	+	chr17	72758151	72758312	+	ENST00000262613	6372-6374	42,16,1	CCLE-BRCA,CCLE-LUSC,CCLE-STAD
chr17:73744210:+>chr17:73744922:+	chr17	73744170	73744210	+	chr17	73744922	73745126,73745126,73745126,73745126	+	ENST00000579662,ENST00000339591,ENST00000200181,ENST00000450894,ENST00000449880	6375-6379	8,14,13	CCLE-PAAD
chr17:73744262:+>chr17:73744922:+	chr17	73744170	73744262	+	chr17	73744922	73745126,73745126,73745126,73745126	+	ENST00000579662,ENST00000339591,ENST00000200181,ENST00000450894,ENST00000449880	6380-6384	1,12,25	CCLE-LUSC
chr17:73835624:->chr17:73832999:-	chr17	73835591	73835624	-	chr17	73832999	73832999,73832999,73832999	-	ENST00000207549,ENST00000412096,ENST00000587105	6385-6391	13,21,10	CCLE-LUSC
chr17:74093178:->chr17:74090662:-	chr17	74092937	74093178	-	chr17	74090662	74090662,74090662,74090662,74090662,74090662,74090662,74090662,74090662	-	ENST00000607838,ENST00000332065,ENST00000589210,ENST00000335146,ENST00000467929,ENST00000405575,ENST00000357231,ENST00000411744,ENST00000420116	6392-6403	1,16,6	CCLE-HNSC
chr17:74106334:->chr17:74099507:-	chr17	74106128	74106334	-	chr17	74099507	74099507,74099507,74099507,74099507,74099507,74099507,74099507,74099507	-	ENST00000607838,ENST00000332065,ENST00000589210,ENST00000335146,ENST00000405575,ENST00000411744,ENST00000589507,ENST00000406660	6404-6413	33,2,3	CCLE-LUSC
chr17:74471820:->chr17:74471223:-	chr17	74471654	74471820	-	chr17	74471223	74471223,74471223	-	ENST00000389760,ENST00000313080,ENST00000591885	6414-6416	2,13,39	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr17:74471913:->chr17:74471223:-	chr17	74471654	74471913	-	chr17	74471223	74471223,74471223	-	ENST00000389760,ENST00000313080,ENST00000591885	6417-6418	17,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr17:76674949:->chr17:76672251:-	chr17	76674828	76674949	-	chr17	76672251	76672251,76672251,76672251,76672251	-	ENST00000585509,ENST00000589297,ENST00000591455,ENST00000361101,ENST00000446868	6419-6420	4,26	CCLE-LCLL
chr17:76683239:->chr17:76677124:-	chr17	76683163	76683239	-	chr17	76677124	76677124,76677124,76677124,76677124	-	ENST00000585509,ENST00000589297,ENST00000591455,ENST00000361101,ENST00000446868	6421-6423	4,15,37	CCLE-DLBC,CCLE-LCLL
chr17:76700853:->chr17:76698686:-	chr17	76700597	76700853	-	chr17	76698686	76698686,76698686,76698686,76698686	-	ENST00000591455,ENST00000361101,ENST00000446868,ENST00000589768,ENST00000586043	6424-6429	12,17,8	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SKCM,CCLE-STAD
chr17:76730753:->chr17:76705814:-	chr17	76730515	76730753	-	chr17	76705814	76705814,76705814,76705814,76705814,76705814,76705814,76705814,76705814	-	ENST00000591455,ENST00000361101,ENST00000446868,ENST00000589296,ENST00000589768,ENST00000586043	6430-6436	23,14,1	CCLE-LCLL
chr17:78219357:+>chr17:78219953:+	chr17	78219271	78219357	+	chr17	78219953	78220008,78220008,78220008,78220008	+	ENST00000361193,ENST00000411502,ENST00000546047,ENST00000577225	6437-6439	7,3,29	CCLE-COAD,CCLE-DLBC,CCLE-LUSC
chr17:79805757:->chr17:79805223:-	chr17	79805553	79805757	-	chr17	79805223	79805223,79805223,79805223,79805223,79805223,79805223,79805223,79805223	-	ENST00000331483,ENST00000439918,ENST00000576380,ENST00000570907,ENST00000573778,ENST00000576052,ENST00000576541	6440-6449	7,8	CCLE-BLCA,CCLE-LCLL-BRCA,CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr17:79806009:->chr17:79805223:-	chr17	79805780	79806009	-	chr17	79805223	79805223,79805223,79805223,79805223,79805223,79805223,79805223,79805223	-	ENST00000331483,ENST00000439918,ENST00000576380,ENST00000570907,ENST00000573778,ENST00000576052,ENST00000576541	6450-6459	22,13	CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr17:79853213:->chr17:79805181:-	chr17	79852918	79853213	-	chr17	79805181	79805223,79805223,79805223,79805223,79805223,79805223,79805223,79805223	-	ENST00000331483,ENST00000415593,ENST00000439918,ENST00000576380,ENST00000570907,ENST00000573778,ENST00000576052	6460-6470	3,4	CCLE-COAD
chr17:80216564:->chr17:80213453:-	chr17	80216412	80216564	-	chr17	80213453	80213453,80213453,80213453,80213453	-	ENST00000398519,ENST00000314028,ENST00000392334,ENST00000406446,ENST00000580446	6471-6477	11,1,28	CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC

chr17:80866313:+>chr17:80869634:+	chr17	80866189	80866313	+	chr17	80869634	80869665,80869665,80869665,80869665,80869665,80869665,80869665,80869665,80869665	+	ENST00000355528,ENST00000539345,ENST00000576160,ENST00000571712,ENST00000576996,ENST00000571316,ENST00000576760,ENST00000572984,ENST00000574975,ENST00000572953,ENST00000574422	6478-6492	39,10,3	CCLE-DLBC,CCLE-LCLL
chr17:8795154:->chr17:8794229:-	chr17	8794909	8795154	-	chr17	8794229	8794229,8794229,8794229	-	ENST00000447110,ENST00000581552,ENST00000584803	6493-6496	22,13	CCLE-DLBC,CCLE-LCLL
chr17:9156347:->chr17:9153962:-	chr17	9156346	9156347	-	chr17	9153962	9153962,915	-	ENST00000306357,ENST00000574431	6497-6499	3,30,7	CCLE-LUSC
chr18:10479660:+>chr18:10485459:+	chr18	10479617	10479660	+	chr18	10485459	10485780,10485586,10485546	+	ENST00000355285,ENST00000423585,ENST00000579685	6500-6505	10,15	CCLE-CESC,CCLE-COAD,CCLE-LUSC,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr18:12606563:->chr18:12546903:-	chr18	12606533	12606563	-	chr18	12546903	12546903,12546903,12546903,12546903,12546903,12546903	-	ENST00000409402,ENST00000410092,ENST00000453447,ENST00000449797,ENST00000497844,ENST00000462226	6506-6512	13,35,22	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr18:12827583:->chr18:12825943:-	chr18	12827395	12827583	-	chr18	12825943	12825943,12825943,12825943,12825943,12825943,12825943	-	ENST00000327283,ENST00000591115,ENST00000353319,ENST00000309660,ENST00000591497,ENST00000559276,ENST00000592059	6513-6520	11,34,25	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr18:12843904:->chr18:12836890:-	chr18	12843767	12843904	-	chr18	12836890	12836890,12836890,12836890,12836890,12836890,12836890,12836890	-	ENST00000327283,ENST00000591115,ENST00000353319,ENST00000309660,ENST00000591497,ENST00000559305,ENST00000592776,ENST00000589216	6521-6527	33,3	CCLE-DLBC
chr18:12876679:->chr18:12859253:-	chr18	12876666	12876679	-	chr18	12859253	12859253,12859253,12859253,12859253	-	ENST00000327283,ENST00000591115,ENST00000353319,ENST00000309660,ENST00000592776	6528-6534	18,49,4	CCLE-MM
chr18:18596245:->chr18:18595440:-	chr18	18595956	18596245	-	chr18	18595440	18595440	-	ENST00000399799	6535-6537	11,2,6	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD,CCLE-UCEC
chr18:19354318:+>chr18:19358064:+	chr18	19354268	19354318	+	chr18	19358064	19358130	+	ENST00000261537	6538-6540	17,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr18:19354533:+>chr18:19358064:+	chr18	19354268	19354533	+	chr18	19358064	19358130	+	ENST00000261537	6541-6542	11,35	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr18:19398666:+>chr18:19399456:+	chr18	19398617	19398666	+	chr18	19399456	19399607	+	ENST00000261537	6543-6545	1,16,8	CCLE-LCLL,CCLE-LUSC
chr18:25540816:->chr18:25532323:-	chr18	25540722	25540816	-	chr18	25532323	25532323,26	-	ENST00000269141,ENST00000399380	6546-6548	8,3	CCLE-KIRC
chr18:29765139:+>chr18:29771785:+	chr18	29764817	29765139	+	chr18	29771785	29771803,3	+	ENST00000269202,ENST00000581447	6549-6552	68,27,17	CCLE-DLBC
chr18:33694222:+>chr18:33694356:-	chr18	33694157	33694222	+	chr18	33694356	33694437,33694437,336944437,33694437	-	ENST00000269187,ENST00000590986,ENST00000440549,ENST00000586829	6553-6556	22	CCLE-BLCA,CCLE-BRCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PRAD,CCLE-SARC,CCLE-SKCM
chr18:3659680:->chr18:3656113:-	chr18	3659561	3659680	-	chr18	3656113	3656113,3656113,3656113	-	ENST00000400149,ENST00000400150,ENST00000539435	6557-6560	1,27,8	CCLE-LCLL
chr18:3840285:->chr18:3814273:-	chr18	3840216	3840285	-	chr18	3814273	3814273,3814273,3814273,3814273,3814273,3814273,3814273,3814273,3814273,3814273,3814273	-	ENST00000400147,ENST00000400149,ENST00000400155,ENST00000400150,ENST00000315677,ENST00000558474,ENST00000534970,ENST00000539435,ENST00000581699,ENST00000400145,ENST00000515196,ENST00000581527	6561-6567	10,54,46	CCLE-OV,CCLE-SARC
chr18:40473293:->chr18:40323685:-	chr18	40473218	40473293	-	chr18	40323685	40323685,4	-	ENST00000326695,ENST00000590910	6568-6572	12,47,9	CCLE-LUSC
chr18:56218407:->chr18:56205456:-	chr18	56218402	56218407	-	chr18	56205456	56205456	-	ENST00000361673	6573-6575	13,3,79	CCLE-DLBC,CCLE-LCLL
chr18:59201464:+>chr18:59203726:+	chr18	59201279	59201464	+	chr18	59203726	59203862,59203862,59203862	+	ENST00000262717,ENST00000538374,ENST00000536675	6576-6578	20,1,9	CCLE-LUSC
chr18:59990875:+>chr18:60015401:+	chr18	59990605	59990875	+	chr18	60015401	60015482,6	+	ENST00000269485,ENST00000586569	6579-6582	44,8,49	CCLE-DLBC,CCLE-LUSC
chr18:60020849:+>chr18:60021624:+	chr18	60020301	60020849	+	chr18	60021624	60021767,6	+	ENST00000269485,ENST00000586569	6583-6586	50,2,5	CCLE-LUSC
chr18:60046637:+>chr18:60051984:+	chr18	60046463	60046637	+	chr18	60051984	60052267,6	+	ENST00000269485,ENST00000586569	6587-6588	33,8	CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr18:60548246:+>chr18:60562244:+	chr18	60548174	60548246	+	chr18	60562244	60562390,61	+	ENST00000400316,ENST00000262719	6589-6591	7,25,1	CCLE-DLBC
chr18:64229481:->chr18:64221761:-	chr18	64229299	64229481	-	chr18	64221761	64221761,64221761,64221761,64221761	-	ENST00000262150,ENST00000579658,ENST00000540086,ENST00000454642	6592-6597	4,15,29	CCLE-SKCM
chr18:67613039:->chr18:67563277:-	chr18	67612955	67613039	-	chr18	67563277	67563281,67563281,67563281,67563281	-	ENST00000280200,ENST00000582621,ENST00000579496,ENST00000583955	6598-6603	8,18,41	CCLE-LCLL
chr18:67613039:->chr18:67563281:-	chr18	67612955	67613039	-	chr18	67563281	67563281,67563281,67563281,67563281	-	ENST00000280200,ENST00000582621,ENST00000579496,ENST00000583955	6604-6609	8,18,41	CCLE-DLBC,CCLE-LCLL
chr18:67645704:->chr18:67563281:-	chr18	67645652	67645704	-	chr18	67563281	67563281,67563281,67563281,67563281	-	ENST00000280200,ENST00000582621,ENST00000579496,ENST00000583955	6610-6615	22,60,2	CCLE-DLBC
chr18:70431112:->chr18:70423382:-	chr18	70431030	70431112	-	chr18	70423382	70423382,70423382,70423382	-	ENST00000583169,ENST00000327305,ENST00000299430	6616-6618	8,15,4	CCLE-LCLL,CCLE-LGG
chr18:729156:->chr18:724632:-	chr18	728860	729156	-	chr18	724632	724632,724632,724632	-	ENST00000577961,ENST00000584307,ENST00000314574	6619-6621	15,19,5	CCLE-BRCA,CCLE-LCLL,CCLE-LUSC,CCLE-MM
chr18:77990314:->chr18:77960815:-	chr18	77990238	77990314	-	chr18	77960815	77960815,78	-	ENST00000353265,ENST00000470488	6622-6625	19,8,46	CCLE-LCLL
chr18:8708134:+>chr18:8718422:+	chr18	8708124	8708134	+	chr18	8718422	8718646	+	ENST00000306329	6626-6627	4,3	CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LUSC,CCLE-OV
chr18:8714247:+>chr18:8718422:+	chr18	8714167	8714247	+	chr18	8718422	8718646	+	ENST00000306329	6628-6630	21,23,5	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr18:8822625:+>chr18:8824697:+	chr18	8822589	8822625	+	chr18	8824697	8826230,8826230,8826230,8826230,8826230	+	ENST00000306329,ENST00000517570,ENST00000306285,ENST00000400050,ENST00000359865,ENST00000518815	6631-6634	7,12	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr18:9927251:+>chr18:9931807:+	chr18	9927088	9927251	+	chr18	9931807	9931959,993	+	ENST00000400000,ENST00000340541	6635-6638	9,1,23	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr18:9936602:+>chr18:9936983:+	chr18	9936579	9936602	+	chr18	9936983	9937063,994	+	ENST00000400000,ENST00000340541	6639-6642	2,8	CCLE-LUSC
chr18:9953293:+>chr18:9954050:+	chr18	9953012	9953293	+	chr18	9954050	9954208,995	+	ENST00000400000,ENST00000340541	6643-6645	11,18,14	CCLE-LIHC
chr19:1045618:+>chr19:1046229:+	chr19	1045546	1045618	+	chr19	1046229	1046405,1046405,1046405	+	ENST00000263094,ENST00000433129,ENST00000435683	6646-6648	25,2,20	CCLE-BLCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-STAD,CCLE-THCA
chr19:1048436:+>chr19:1048894:+	chr19	1048215	1048436	+	chr19	1048894	1049004,1049004,1049004	+	ENST00000263094,ENST00000433129,ENST00000435683	6649-6651	7,29,19	CCLE-CESC,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr19:1049535:+>chr19:1050920:+	chr19	1049516	1049535	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6652-6654	6,7	CCLE-DLBC
chr19:1049560:+>chr19:1050920:+	chr19	1049516	1049560	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6655-6657	15,7	CCLE-DLBC
chr19:1049586:+>chr19:1050920:+	chr19	1049516	1049586	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6658-6660	8,23,16	CCLE-DLBC
chr19:1049611:+>chr19:1050920:+	chr19	1049516	1049611	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6661-6663	7,16,32	CCLE-DLBC

chr19:1049636:+>chr19:1050920:+	chr19	1049516	1049636	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6664-6666	16,40,7	CCLE-DLBC
chr19:1049662:+>chr19:1050920:+	chr19	1049516	1049662	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6667-6669	24,8,16	CCLE-DLBC
chr19:1049687:+>chr19:1050920:+	chr19	1049516	1049687	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6670-6672	33,16,7	CCLE-DLBC
chr19:1049713:+>chr19:1050920:+	chr19	1049516	1049713	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6673-6675	41,8,16	CCLE-DLBC
chr19:1049739:+>chr19:1050920:+	chr19	1049516	1049739	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6676-6678	50,16,8	CCLE-DLBC
chr19:1049764:+>chr19:1050920:+	chr19	1049516	1049764	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6679-6681	25,16,7	CCLE-DLBC,CCLE-ESCA
chr19:1049790:+>chr19:1050920:+	chr19	1049516	1049790	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6682-6684	33,8,16	CCLE-DLBC
chr19:1049815:+>chr19:1050920:+	chr19	1049516	1049815	+	chr19	1050920	1051051,1051051,1051051	+	ENST00000263094,ENST00000433129,ENST00000435683	6685-6687	42,16,7	CCLE-DLBC
chr19:1064746:+>chr19:1064930:+	chr19	1064675	1064746	+	chr19	1064930	1065170,1065170,1065170,1065170	+	ENST00000263094,ENST00000433129,ENST00000435683,ENST00000525073	6688-6689	7,4	CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr19:11219538:+>chr19:11221328:+	chr19	11219385	11219538	+	chr19	11221328	11221447,11221447,11221447,11221447,11221447	+	ENST00000558518,ENST00000557933,ENST00000455727,ENST00000535915,ENST00000545707,ENST00000055801 3,ENST00000252444	6690-6695	22,2,20	CCLE-BRCA,CCLE-COAD,CCLE-STAD
chr19:11230008:+>chr19:11230768:+	chr19	11229915	11230008	+	chr19	11230768	11230909,11230909,11230909,11230909,11230909,11230909,11230909,11230853	+	ENST00000558518,ENST00000557933,ENST00000455727,ENST00000535915,ENST00000545707,ENST00000055801 3,ENST00000252444,ENST00000055934 0	6696-6704	12,16,3	CCLE-LCLL,CCLE-LUSC
chr19:13364492:->chr19:13363915:-	chr19	13364260	13364492	-	chr19	13363915	13363915,13363915,13363915,13363915	-	ENST00000360228,ENST00000587525,ENST00000585802,ENST00000573710,ENST00000573891	6705-6711	22,21,13	CCLE-LUSC
chr19:13414027:->chr19:13414698:-	chr19	13415815	13416027	-	chr19	13414698	13414698,13	-	ENST00000360228,ENST00000573710	6712-6715	8,16,65	CCLE-LUSC
chr19:14209539:->chr19:14208702:-	chr19	14209301	14209539	-	chr19	14208702	14208702,14208702,14208702,14208702	-	ENST00000308677,ENST00000587372,ENST00000589994,ENST00000593092	6716-6719	23,22	CCLE-PAAD
chr19:14284108:->chr19:14281603:-	chr19	14284075	14284108	-	chr19	14281603	14281603,14	-	ENST00000340736,ENST00000361434	6720-6724	13,11,1	CCLE-BRCA,CCLE-CESC,CCLE-LUSC,CCLE-STAD
chr19:14508210:+>chr19:14508470:+	chr19	14508125	14508210	+	chr19	14508470	14508616,14508616,14508616,14508616	+	ENST00000358600,ENST00000586517,ENST00000357355,ENST00000247786	6725-6728	11,29,13	CCLE-DLBC,CCLE-LCLL
chr19:14518101:+>chr19:14518720:+	chr19	14518050	14518101	+	chr19	14518720	14518821,14518821,14518821	+	ENST00000358600,ENST00000357355,ENST00000242786	6729-6731	17,1	CCLE-LCLL
chr19:14518192:+>chr19:14518720:+	chr19	14518050	14518192	+	chr19	14518720	14518821,14518821,14518821	+	ENST00000358600,ENST00000357355,ENST00000242786	6732-6734	47,14,2	CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr19:14572912:+>chr19:14574479:+	chr19	14572844	14572912	+	chr19	14574479	14574554,15	+	ENST00000242783,ENST00000342216	6735-6737	1,23,14	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr19:14876876:->chr19:14876616:-	chr19	14876765	14876876	-	chr19	14876616	14876616,14876616,14876616,14876616,14876616,14876616,14876616,14876616,14876616	-	ENST00000315576,ENST00000346057,ENST00000353876,ENST00000392967,ENST00000596991,ENST00000392965,ENST00000594076,ENST00000594294,ENST00000601345,ENST00000595208,ENST00000392962	6738-6745	11,27,13	CCLE-LCLL,CCLE-LUSC
chr19:14878252:->chr19:14877921:-	chr19	14878039	14878252	-	chr19	14877921	14877921,14877921,14877921,14877921,14877921,14877921,14877921,14877921	-	ENST00000315576,ENST00000346057,ENST00000392967,ENST00000596991,ENST00000392965,ENST00000594294,ENST00000601345,ENST00000595208,ENST00000392962	6746-6755	33,2,13	CCLE-LCLL
chr19:14878300:->chr19:14877921:-	chr19	14878039	14878300	-	chr19	14877921	14877921,14877921,14877921,14877921,14877921,14877921,14877921,14877921	-	ENST00000315576,ENST00000346057,ENST00000392967,ENST00000596991,ENST00000392965,ENST00000594294,ENST00000601345,ENST00000595208,ENST00000392962	6756-6765	17	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr19:14878719:->chr19:14877921:-	chr19	14878596	14878719	-	chr19	14877921	14877921,14877921,14877921,14877921,14877921,14877921,14877921,14877921	-	ENST00000315576,ENST00000346057,ENST00000392967,ENST00000596991,ENST00000392965,ENST00000594294,ENST00000601345,ENST00000595208,ENST00000392962	6766-6775	12,20,9	CCLE-DLBC,CCLE-LCLL
chr19:16228315:+>chr19:16229036:+	chr19	16228017	16228315	+	chr19	16229036	16229096,16	+	ENST00000300935,ENST00000586682	6776-6779	24,73,32	CCLE-DLBC
chr19:16234186:+>chr19:16236280:+	chr19	16234137	16234186	+	chr19	16236280	16236357,16	+	ENST00000300935,ENST00000586682	6780-6783	17,16,8	CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-MM
chr19:16473615:->chr19:16472795:-	chr19	16473323	16473615	-	chr19	16472795	16472795,16472795,16472795,16472795	-	ENST00000602022,ENST00000455140,ENST00000248070,ENST00000535753,ENST00000594975	6784-6788	2	CCLE-LUSC,CCLE-SKCM
chr19:16505587:->chr19:16504812:-	chr19	16505479	16505587	-	chr19	16504812	16504812,16504812,16504812,16504812,16504812	-	ENST00000602022,ENST00000455140,ENST00000248070,ENST00000535753,ENST00000594975,ENST00000599790	6789-6794	4,12,18	CCLE-LCLL,CCLE-LGG,CCLE-LUSC
chr19:17050250:->chr19:17049256:-	chr19	17050034	17050250	-	chr19	17049256	17049256	-	ENST00000443236	6795-6797	1,23,14	CCLE-BLCA,CCLE-BRCA
chr19:17125357:->chr19:17122567:-	chr19	17125273	17125357	-	chr19	17122567	17122567,17122567,17122567	-	ENST00000443236,ENST00000291440,ENST00000388925	6798-6801	8,36,2	CCLE-BRCA,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr19:17444964:->chr19:17444609:-	chr19	17444863	17444964	-	chr19	17444609	17444609,17	-	ENST00000597643,ENST00000159087	6802-6805	3,19,13	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr19:17742285:->chr19:17741534:-	chr19	17742054	17742285	-	chr19	17741534	17741559,17741559,17741559,17741559,17741559,17741559,17741559,17741559	-	ENST00000519716,ENST00000252773,ENST00000428389,ENST00000551649,ENST00000552293,ENST00000550896	6806-6812	17,8	CCLE-LUSC
chr19:17742285:->chr19:17741559:-	chr19	17742054	17742285	-	chr19	17741559	17741559,17741559,17741559,17741559,17741559,17741559,17741559,17741559	-	ENST00000519716,ENST00000252773,ENST00000428389,ENST00000551649,ENST00000552293,ENST00000550896	6813-6819	17,8	CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr19:17751047:->chr19:17750717:-	chr19	17750846	17751047	-	chr19	17750717	17750717,17750717,17750717,17750717,17750717,17750717,17750717,17750717	-	ENST00000519716,ENST00000252773,ENST00000428389,ENST00000551649,ENST00000552293,ENST00000550896	6820-6826	11,34,25	CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr19:17778483:->chr19:17750717:-	chr19	17778299	17778483	-	chr19	17750717	17750717,17750717,17750717,17750717,17750717,17750717,17750717,17750717	-	ENST00000519716,ENST00000252773,ENST00000428389,ENST00000551649,ENST00000552293,ENST00000550896	6827-6833	11,25,30	CCLE-LUSC
chr19:33098211:->chr19:33098738:-	chr19	33098912	33099211	-	chr19	33098738	33098738	-	ENST00000306065	6834-6836	2,1	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr19:33132008:->chr19:33131291:-	chr19	33131797	33132008	-	chr19	33131291	33131291,33	-	ENST00000306065,ENST00000587352	6837-6839	2,24	CCLE-DLBC,CCLE-LCLL,CCLE-SARC
chr19:33132040:->chr19:33131291:-	chr19	33131797	33132040	-	chr19	33131291	33131291,33	-	ENST00000306065,ENST00000587352	6840-6842	6,23	CCLE-LGG
chr19:34986965:+>chr19:34991034:+	chr19	34986781	34986965	+	chr19	34991034	34991174,35	+	ENST00000270288,ENST00000590071	6843-6845	1,27,8	CCLE-LUSC
chr19:34989590:+>chr19:34991034:+	chr19	34989524	34989590	+	chr19	34991034	34991174,35	+	ENST00000270288,ENST00000590071	6846-6848	23,22,13	CCLE-LUSC
chr19:35503234:+>chr19:35504160:+	chr19	35503125	35503234	+	chr19	35504160	35504272,35504272,35504272	+	ENST00000599564,ENST00000317991,ENST00000411896	6849-6852	1,37,4	CCLE-DLBC
chr19:35517616:+>chr19:35523432:+	chr19	35517536	35517616	+	chr19	35523432	35523598,35523598,35523598	+	ENST00000262631,ENST00000595652,ENST00000415950	6853-6857	3,7,27	CCLE-DLBC
chr19:35550289:+>chr19:35550577:+	chr19	35550234	35550289	+	chr19	35550577	35550706,35550706,35550706,35550706,35550706,35550706	+	ENST00000262626,ENST00000392226,ENST00000600390,ENST00000597419	6858-6863	18,6,1	CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PRAD
chr19:35609028:+>chr19:35610072:+	chr19	35608978	35609028	+	chr19	35610072	35610155,36	+	ENST00000604255,ENST00000535103	6864-6866	17,4	CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC

chr19:35612999:+>chr19:35613669:+	chr19	35612996	35612999	+	chr19	35613669	35613862,35613743,35613858,35613743,35613743,35613743,35613858,35613743,35613743,35613743,35613743,35613743,35613743,35613862	+	ENST00000406242,ENST00000604404,ENST00000435734,ENST00000603181,ENST00000604255,ENST00000344013,ENST00000346446,ENST00000406988,ENST00000605550,ENST00000604804,ENST00000535103,ENST00000603524,ENST00000604621,ENST00000605677	6867-6873	2,1	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr19:35613518:+>chr19:35613669:+	chr19	35613389	35613518	+	chr19	35613669	35613862,35613743,35613858,35613743,35613743,35613743,35613858,35613743,35613743,35613743,35613743,35613743,35613743,35613862	+	ENST00000406242,ENST00000604404,ENST00000435734,ENST00000603181,ENST00000604255,ENST00000344013,ENST00000346446,ENST00000406988,ENST00000605550,ENST00000604804,ENST00000535103,ENST00000603524,ENST00000604621,ENST00000605677	6874-6881	14,3,43	CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr19:35826269:+>chr19:35826939:+	chr19	35826181	35826269	+	chr19	35826939	35827244,35826966,35827244,35826945,35827203,35827244,35827244,35827244,35827244	+	ENST00000341773,ENST00000600131,ENST00000270311,ENST00000597916,ENST00000593867,ENST00000085219,ENST00000536635,ENST00000544992,ENST00000594250	6882-6896	9,4,29	CCLE-LCLL
chr19:35834869:+>chr19:35835732:+	chr19	35834785	35834869	+	chr19	35835732	35835828,35835828,35835828,35835828,35835828,35835828	+	ENST00000341773,ENST00000270311,ENST00000085219,ENST00000536635,ENST00000419549,ENST00000544992,ENST00000594250	6897-6902	29,28,19	CCLE-DLBC,CCLE-LCLL
chr19:35834869:+>chr19:35835736:+	chr19	35834785	35834869	+	chr19	35835736	35835828,35835828,35835828,35835828,35835828,35835828	+	ENST00000341773,ENST00000270311,ENST00000085219,ENST00000536635,ENST00000419549,ENST00000544992,ENST00000594250	6903-6909	29,28,19	CCLE-DLBC
chr19:3597014:->chr19:3595931:-	chr19	3596940	3597014	-	chr19	3595931	3595931,3595931,3595931	-	ENST00000375190,ENST00000589966,ENST00000411851	6910-6915	35,21,7	CCLE-LCLL
chr19:36361472:+>chr19:36361798:+	chr19	36361404	36361472	+	chr19	36361798	36361930,36361930,36361930,36361930,36361930,36361930	+	ENST00000537454,ENST00000221891,ENST00000590561,ENST00000586861,ENST00000589743,ENST00000592316	6916-6922	1,23,14	CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr19:36361552:+>chr19:36361798:+	chr19	36361404	36361552	+	chr19	36361798	36361930,36361930,36361930,36361930,36361930,36361930	+	ENST00000537454,ENST00000221891,ENST00000590561,ENST00000586861,ENST00000589743,ENST00000592316	6923-6928	4,41	CCLE-DLBC,CCLE-LUSC,CCLE-OV,CCLE-SARC
chr19:3669671:->chr19:3667351:-	chr19	3669546	3669671	-	chr19	3667351	3667351,3667351,3667351,3667351	-	ENST00000335312,ENST00000539785,ENST00000537021,ENST00000589578	6929-6934	5,4	CCLE-LUSC
chr19:3696275:->chr19:3667351:-	chr19	3696267	3696275	-	chr19	3667351	3667351,3667351,3667351,3667351	-	ENST00000335312,ENST00000539785,ENST00000537021,ENST00000589578	6935-6940	33,53,3	CCLE-BRCA
chr19:3728006:+>chr19:3728422:+	chr19	3727956	3728006	+	chr19	3728422	3728478,3728478,3728478	+	ENST00000589378,ENST00000262968,ENST00000587686	6941-6944	12,17,8	CCLE-STAD
chr19:3740951:+>chr19:3743937:+	chr19	3740857	3740951	+	chr19	3743937	3744032,3744032,3744032,3744032,3744032,3744032	+	ENST00000541714,ENST00000539908,ENST00000382008,ENST00000589378,ENST00000262968,ENST00000587686	6945-6947	32,10,31	CCLE-BRCA,CCLE-LUSC
chr19:38575890:+>chr19:38579361:+	chr19	38575840	38575890	+	chr19	38579361	38579491,39	+	ENST00000222345,ENST00000595982	6948-6951	17,8	CCLE-COAD
chr19:38592437:+>chr19:38597177:+	chr19	38592351	38592437	+	chr19	38597177	38597280	+	ENST00000222345	6952-6953	7,29	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD
chr19:38596138:+>chr19:38597177:+	chr19	38596022	38596138	+	chr19	38597177	38597280	+	ENST00000222345	6954-6956	39,4	CCLE-LUSC
chr19:38603616:+>chr19:38609946:+	chr19	38603566	38603616	+	chr19	38609946	38610522	+	ENST00000222345	6957-6959	17,8,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr19:38619355:+>chr19:38621138:+	chr19	38619255	38619355	+	chr19	38621138	38621412,39	+	ENST00000222345,ENST00000600919	6960-6963	11,34,25	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr19:38688782:+>chr19:38689029:+	chr19	38688037	38688782	+	chr19	38689029	38689172	+	ENST00000222345	6964-6966	32,13,25	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-KIRC,CCLE-LUSC,CCLE-SARC
chr19:40762507:->chr19:40761176:-	chr19	40762419	40762507	-	chr19	40761176	40761176,40761176,40761176,40761176,40761176,40761176,40761176,40761176,40761176,40761176,40761206,40761176,40761176,40761176,40761176,40761176	-	ENST00000392038,ENST00000424901,ENST00000311278,ENST00000491778,ENST00000441941,ENST00000486368,ENST00000596634,ENST00000452077,ENST00000392037,ENST00000416362,ENST00000578123,ENST00000423127,ENST00000358335,ENST00000456441,ENST00000583859,ENST00000580747,ENST00000416994,ENST00000427375	6967-6984	79,56	CCLE-LCLL
chr19:40769318:->chr19:40762961:-	chr19	40769228	40769318	-	chr19	40762961	40762961,40762961,40762961,40762961,40762961,40762961,40762961,40762961,40762961,40762961,40762961,40762961,40762961,40762961,40762961,40762961	-	ENST00000392038,ENST00000424901,ENST00000311278,ENST00000441941,ENST00000486368,ENST00000596634,ENST00000452077,ENST00000392037,ENST00000416362,ENST00000578123,ENST00000423127,ENST00000358335,ENST00000456441,ENST00000583859,ENST00000580747,ENST00000416994,ENST00000427375	6985-7002	7,12,15	CCLE-LUSC
chr19:41725654:+>chr19:41726541:+	chr19	41725556	41725654	+	chr19	41726541	41726763,42	+	ENST00000301178,ENST00000359092	7003-7006	3,33	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-THCA
chr19:41728596:+>chr19:41736872:+	chr19	41728530	41728596	+	chr19	41736872	41736952,42	+	ENST00000301178,ENST00000359092	7007-7010	6,23,13	CCLE-BRCA,CCLE-SKCM
chr19:41752043:+>chr19:41754419:+	chr19	41751837	41752043	+	chr19	41754419	41754514,41754514,41754514	+	ENST00000301178,ENST00000359092,ENST00000593513	7011-7012	17,5	CCLE-BLCA,CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr19:42479404:->chr19:42474694:-	chr19	42479207	42479404	-	chr19	42474694	42474694,42474694,42474694,42474694,42474694	-	ENST00000441343,ENST00000302102,ENST00000545399,ENST00000543770,ENST00000602133	7013-7016	11,2,24	CCLE-LCLL,CCLE-LGG,CCLE-LUSC
chr19:42479436:->chr19:42474694:-	chr19	42479207	42479436	-	chr19	42474694	42474694,42474694,42474694,42474694,42474694	-	ENST00000441343,ENST00000302102,ENST00000545399,ENST00000543770,ENST00000602133	7017-7020	1,13,6	CCLE-LGG
chr19:42503823:->chr19:42503451:-	chr19	42503799	42503823	-	chr19	42503451	42503451,43	-	ENST00000262895,ENST00000593562	7021-7023	46,30,191	CCLE-LGG
chr19:42509643:->chr19:42507835:-	chr19	42509625	42509643	-	chr19	42507835	42507835,42507835,42507835	-	ENST00000262895,ENST00000593562,ENST00000301218	7024-7027	25,39,13	CCLE-LUSC
chr19:44165126:->chr19:44160792:-	chr19	44164929	44165126	-	chr19	44160792	44160792,44160792,44160792,44160792,44160792,44160792,44160792	-	ENST00000339082,ENST00000601723,ENST00000340093,ENST00000221264,ENST00000593714,ENST00000599892,ENST00000602141,ENST00000593939	7028-7036	30,28,4	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr19:44165244:->chr19:44160792:-	chr19	44165201	44165244	-	chr19	44160792	44160792,44160792,44160792,44160792,44160792,44160792,44160792	-	ENST00000339082,ENST00000601723,ENST00000340093,ENST00000221264,ENST00000593714,ENST00000599892,ENST00000602141,ENST00000593939	7037-7045	33,30,50	CCLE-STAD,CCLE-THCA
chr19:44171564:->chr19:44169611:-	chr19	44171335	44171564	-	chr19	44169611	44169611,44169611,44169611,44169611,44169611,44169611,44169611	-	ENST00000339082,ENST00000601723,ENST00000340093,ENST00000221264,ENST00000599892,ENST00000602141,ENST00000593939,ENST00000599546	7046-7056	6,4,34	CCLE-LUSC
chr19:45374761:+>chr19:45375110:+	chr19	45374521	45374761	+	chr19	45375110	45375406,45375406,45375406	+	ENST00000252485,ENST00000252483,ENST00000591581	7057-7061	60,17,8	CCLE-LUSC,CCLE-OV
chr19:4545583:->chr19:4544541:-	chr19	4545376	4545583	-	chr19	4544541	4544541,4544541,4544541	-	ENST00000301293,ENST00000586582,ENST00000586965	7062-7066	9,1,14	CCLE-BRCA,CCLE-LIHC,CCLE-OV,CCLE-SARC
chr19:46021445:+>chr19:46024580:+	chr19	46021392	46021445	+	chr19	46024580	46024664	+	ENST00000245932	7067-7069	18	CCLE-COAD

chr19:46021612:+>chr19:46024580:+	chr19	46021544	46021612	+	chr19	46024580	46024664	+	ENST00000245932	7070-7072	1,23,14	CCLE-PAAD
chr19:46279917:->chr19:46278292:-	chr19	46279712	46279917	-	chr19	46278292	46278292,46278292,46278292,46278292,46278292,46278292,46278292,46278292	-	ENST00000291270,ENST00000600757,ENST00000343373,ENST00000447742,ENST00000458663,ENST00000035427,ENST00000593574	7073-7078	11,34,25	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr19:46328210:->chr19:46327133:-	chr19	46328159	46328210	-	chr19	46327133	46327133	-	ENST00000245934	7079-7081	8,2	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-OV
chr19:46341229:->chr19:46338486:-	chr19	46341068	46341229	-	chr19	46338486	46338486,46	-	ENST00000245934,ENST00000600237	7082-7085	5	CCLE-DLBC,CCLE-LUSC,CCLE-MM
chr19:46348617:->chr19:46347458:-	chr19	46348537	46348617	-	chr19	46347458	46347458,46	-	ENST00000245934,ENST00000600237	7086-7089	2,9,8	CCLE-COAD,CCLE-LUSC,CCLE-SKCM
chr19:46857525:+>chr19:46878861:+	chr19	46857375	46857525	+	chr19	46878861	46879008,46879008,46879008,46879008	+	ENST00000012443,ENST00000478046,ENST00000391919	7090-7094	27,13,1	CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-OV
chr19:47214727:->chr19:47214295:-	chr19	47214653	47214727	-	chr19	47214295	47214295,47214295,47214295,47214295,47214295,47214295,47214295,47214295	-	ENST00000291281,ENST00000433867,ENST00000595515,ENST00000597641	7095-7099	40,20,7	CCLE-MM
chr19:47288675:->chr19:47287816:-	chr19	47288646	47288675	-	chr19	47287816	47287816,47287854,47287854,47287854,47287854,47287854,47287854,47287816	-	ENST00000542575,ENST00000594991,ENST00000593713	7100-7103	14,17,31	CCLE-STAD
chr19:47350845:->chr19:47349399:-	chr19	47350768	47350845	-	chr19	47349399	47349399,47349399,47349399,47349399,47349399,47349399,47349399,47349399	-	ENST00000352203,ENST00000601498,ENST00000599990,ENST00000263270,ENST00000601649	7104-7108	4,45,1	CCLE-COAD,CCLE-LUSC,CCLE-STAD
chr19:47352462:->chr19:47349399:-	chr19	47352268	47352462	-	chr19	47349399	47349399,47349399,47349399,47349399,47349399,47349399,47349399,47349399	-	ENST00000352203,ENST00000601498,ENST00000599990,ENST00000263270,ENST00000601649	7109-7112	11,25	CCLE-SKCM
chr19:47481190:+>chr19:47491246:+	chr19	47480976	47481190	+	chr19	47491246	47491323	+	ENST00000404338	7113-7114	20,1	CCLE-SKCM
chr19:47486488:+>chr19:47491246:+	chr19	47486481	47486488	+	chr19	47491246	47491323	+	ENST00000404338	7115-7117	3,2	CCLE-BRCA,CCLE-SKCM
chr19:47811068:+>chr19:47823038:+	chr19	47811001	47811068	+	chr19	47823038	47824087	+	ENST00000355085	7118-7120	8,23,22	CCLE-PAAD
chr19:47811079:+>chr19:47823038:+	chr19	47811001	47811079	+	chr19	47823038	47824087	+	ENST00000355085	7121-7123	11,26,3	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr19:48227898:+>chr19:48229069:+	chr19	48227902	48227998	+	chr19	48229069	48229481,48	+	ENST00000263277,ENST00000538399	7124-7126	3,33,32	CCLE-ESCA,CCLE-HNSC,CCLE-LGG
chr19:48238716:+>chr19:48239626:+	chr19	48238716	48238796	+	chr19	48239626	48239790,48	+	ENST00000263277,ENST00000538399	7127-7129	7,16,3	CCLE-BRCA
chr19:48240305:+>chr19:48244138:+	chr19	48240207	48240305	+	chr19	48244138	48244689,48	+	ENST00000263277,ENST00000538399	7130-7132	33,2,24	CCLE-BRCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr19:48593411:->chr19:48591969:-	chr19	48593232	48593411	-	chr19	48591969	48591969,48591969,48591969,48591969,48591969,48591969,48591969,48591969	-	ENST00000599111,ENST00000354276,ENST00000413144,ENST00000599921,ENST00000601946	7133-7136	12,15	CCLE-BRCA
chr19:48905144:+>chr19:48907991:+	chr19	48905076	48905144	+	chr19	48907991	48908610	+	ENST00000263269	7137-7139	23,1	CCLE-COAD,CCLE-LUSC
chr19:49128897:+>chr19:49129148:+	chr19	49128721	49128897	+	chr19	49129148	49129619,49129619,49129619,49129619	+	ENST00000245222,ENST00000598088,ENST00000443164	7140-7143	8,5,1	CCLE-LGG
chr19:49619281:+>chr19:49619520:+	chr19	49618961	49619281	+	chr19	49619520	49619729	+	ENST00000221459	7144-7146	23,9,32	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr19:49619281:+>chr19:49621112:+	chr19	49618961	49619281	+	chr19	49621112	49621275,5	+	ENST00000391864,ENST00000221459	7147-7149	23,9,32	CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-STAD
chr19:50010181:+>chr19:50017139:+	chr19	50010116	50010181	+	chr19	50017139	50017390,50017390,50017390,50017390,50017390,50017390,50017390,50017390	+	ENST00000221466,ENST00000598491,ENST00000598927,ENST00000426395,ENST00000600273,ENST00000596975,ENST00000598319,ENST00000598949	7150-7156	17,1	CCLE-BRCA,CCLE-COAD,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-SARC
chr19:50010181:+>chr19:50027764:+	chr19	50010116	50010181	+	chr19	50027764	50028033,50028033,50028033,50028033	+	ENST00000221466,ENST00000426395,ENST00000596975	7157-7158	17,1	CCLE-BRCA,CCLE-CESC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-STAD
chr19:50015040:+>chr19:50017139:+	chr19	50014882	50015040	+	chr19	50017139	50017390,50017390,50017390,50017390,50017390,50017390,50017390,50017390	+	ENST00000221466,ENST00000598491,ENST00000598927,ENST00000426395,ENST00000600273,ENST00000596975,ENST00000598319,ENST00000598949	7159-7166	8,45,1	CCLE-SARC
chr19:50294230:+>chr19:50295192:+	chr19	50294180	50294230	+	chr19	50295192	50295321,5	+	ENST00000354293,ENST00000359032	7167-7170	14,17	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr19:51739198:+>chr19:51742773:+	chr19	51739132	51739198	+	chr19	51742773	51742943,52	+	ENST00000421133,ENST00000262262	7171-7173	22,23	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-STAD
chr19:51739230:+>chr19:51742773:+	chr19	51739132	51739230	+	chr19	51742773	51742943,52	+	ENST00000421133,ENST00000262262	7174-7175	33,2	CCLE-LCLL
chr19:5223435:->chr19:5223308:-	chr19	5223409	5223435	-	chr19	5223308	5223308,5223308,5223308,5223308,5223308,5223308,5223308,5223308	-	ENST00000262963,ENST00000348075,ENST00000357368,ENST00000372412,ENST00000587303,ENST00000588012	7176-7180	22,13,11	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr19:52703651:+>chr19:52705197:+	chr19	52703606	52703651	+	chr19	52705197	52705287,5270528,52705287	+	ENST00000322088,ENST00000454220,ENST00000444322	7181-7186	15,16	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr19:54502735:+>chr19:54502888:+	chr19	54502652	54502735	+	chr19	54502888	54503025	+	ENST00000252729	7187-7188	10,7	CCLE-LUSC
chr19:54502735:+>chr19:54515205:+	chr19	54502652	54502735	+	chr19	54515205	54515443,5451544,54515443	+	ENST00000352529,ENST00000252729,ENST00000346968	7189-7191	5,10,7	CCLE-BLCA,CCLE-COAD,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr19:54515063:+>chr19:54515205:+	chr19	54515009	54515063	+	chr19	54515205	54515443,5451544,54515443	+	ENST00000352529,ENST00000252729,ENST00000346968	7192-7193	19,18	CCLE-LUSC
chr19:54515074:+>chr19:54515205:+	chr19	54515009	54515074	+	chr19	54515205	54515443,5451544,54515443	+	ENST00000352529,ENST00000252729,ENST00000346968	7194-7195	22,3	CCLE-BLCA,CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr19:54868476:->chr19:54868228:-	chr19	54868263	54868476	-	chr19	54868228	54868228,54868228,54868228,54868228,54868228,54868228,54868228,54868228	-	ENST00000391743,ENST00000348231,ENST00000391742,ENST00000434277,ENST00000313038,ENST00000391741,ENST00000474878	7196-7200	6,5	CCLE-DLBC,CCLE-LCLL
chr19:54880625:->chr19:54868575:-	chr19	54880605	54880625	-	chr19	54868575	54868575,54868575,54868575,54868575,54868575,54868575,54868575,54868575	-	ENST00000391743,ENST00000348231,ENST00000391742,ENST00000434277,ENST00000313038,ENST00000391741,ENST00000474878,ENST00000418556	7201-7206	4,21,30	CCLE-LCLL
chr19:54880625:->chr19:54872816:-	chr19	54880605	54880625	-	chr19	54872816	54872816,54872816,54872816,54872816,54872816,54872816,54872850,54872816	-	ENST00000391743,ENST00000348231,ENST00000391742,ENST00000391741,ENST00000418556,ENST00000436513,ENST00000420483,ENST00000438193	7207-7215	4,21,30	CCLE-LCLL
chr19:54880625:->chr19:54875937:-	chr19	54880605	54880625	-	chr19	54875937	54875937,54875937,54875937,54875937,54875937,54875937,54875937,54875937	-	ENST00000348231,ENST00000391742,ENST00000434277,ENST00000313038,ENST00000391741,ENST00000474878,ENST00000418556,ENST00000436513,ENST00000420483,ENST00000438193	7216-7229	4,21,30	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr19:54887511:->chr19:54875937:-	chr19	54887489	54887511	-	chr19	54875937	54875937,54875937,54875937,54875937,54875937,54875937,54875937,54875937	-	ENST00000348231,ENST00000391742,ENST00000434277,ENST00000313038,ENST00000391741,ENST00000474878,ENST00000418556,ENST00000436513,ENST00000420483,ENST00000438193	7230-7243	8,4,29	CCLE-LCLL
chr19:54900665:->chr19:54875937:-	chr19	54900543	54900665	-	chr19	54875937	54875937,54875937,54875937,54875937,54875937,54875937,54875937,54875937	-	ENST00000348231,ENST00000391742,ENST00000434277,ENST00000313038,ENST00000391741,ENST00000474878,ENST00000418556,ENST00000436513,ENST00000420483,ENST00000438193	7244-7257	9,6,38	CCLE-LCLL

chr19:55173998:+>chr19:55174990:+	chr19	55173583	55173998	+	chr19	55174990	55175025,55175025,55175025,55175025,55175025,55175025	+	ENST00000391736,ENST00000270452,ENST00000430952,ENST00000391734,ENST00000391733,ENST00000434286	7258-7264	53,4,13	CCLE-DLBC,CCLE-LCLL
chr19:55173998:+>chr19:55175292:+	chr19	55173583	55173998	+	chr19	55175292	55175496,55175496,55175496,55175496,55175496,55175496	+	ENST00000391736,ENST00000270452,ENST00000430952,ENST00000391734,ENST00000391733,ENST00000434286	7265-7271	53,4,13	CCLE-LCLL
chr19:55283841:+>chr19:55284785:+	chr19	55283488	55283841	+	chr19	55284785	55285084,55	+	ENST00000336077,ENST00000291633	7272-7275	26,35,9	CCLE-DLBC
chr19:55530844:->chr19:55530079:-	chr19	55530757	55530844	-	chr19	55530079	55530079,55530079,55530079,55530079	-	ENST00000310373,ENST00000333884,ENST00000417454	7276-7278	12,9	CCLE-LCLL
chr19:55541188:->chr19:55539230:-	chr19	55541119	55541188	-	chr19	55539230	55539230,55539230,55539230,55539230,55539230,55539230	-	ENST00000310373,ENST00000333884,ENST00000417454,ENST00000468239	7279-7284	34,13,33	CCLE-LCLL
chr19:571964:+>chr19:579500:+	chr19	571958	571964	+	chr19	579500	579656,5797	+	ENST00000333511,ENST00000353555	7285-7287	2,3	CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr19:57976090:->chr19:57967550:-	chr19	57975158	57976090	-	chr19	57967550	57967550,58	-	ENST00000596831,ENST00000321039	7288-7291	21,5,8	CCLE-LCLL
chr19:6928423:+>chr19:6934998:+	chr19	6928355	6928423	+	chr19	6934998	6935089,6935089,6935089,6935089,6935089,6935089	+	ENST00000250572,ENST00000381407,ENST00000312053,ENST00000450315,ENST00000381404	7292-7294	1,23,14	CCLE-DLBC,CCLE-LCLL
chr19:7590196:+>chr19:7591325:+	chr19	7590127	7590196	+	chr19	7591325	7591492,759	+	ENST00000264079,ENST00000601003	7295-7298	23,11,24	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM
chr19:844807:+>chr19:846147:+	chr19	844696	844807	+	chr19	846147	846377,8464	+	ENST00000234347,ENST00000544537	7299-7301	38,10,37	CCLE-LCLL
chr2:102625393:+>chr2:102626024:+	chr2	102625203	102625393	+	chr2	102626024	102626288,102626288,102626288,102626288	+	ENST00000332549,ENST00000393414,ENST00000457817,ENST00000441002	7302-7306	1,30,8	CCLE-DLBC
chr2:10926039:->chr2:10925156:-	chr2	10925858	10926039	-	chr2	10925156	10925156,10925156,10925156,10925156,10925156,10925156	-	ENST00000272227,ENST00000404371,ENST00000404824,ENST00000540494,ENST00000381611	7307-7309	25,11,34	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SKCM
chr2:10937023:->chr2:10933328:-	chr2	10937021	10937023	-	chr2	10933328	10933328,10933328,10933328,10933328,10933328,10933328	-	ENST00000272227,ENST00000404371,ENST00000404824,ENST00000540494,ENST00000381611	7310-7312	16,21,6	CCLE-MM
chr2:10944402:->chr2:10942766:-	chr2	10944402	10944402	-	chr2	10942766	10942766,10942766,10942766,10942766,10942766,10942766	-	ENST00000272227,ENST00000404371,ENST00000404824,ENST00000540494,ENST00000381611	7313-7315	249,3,9	CCLE-LUSC
chr2:10952267:->chr2:10942766:-	chr2	10952045	10952267	-	chr2	10942766	10942766,10942766,10942766,10942766,10942766,10942766	-	ENST00000272227,ENST00000404371,ENST00000404824,ENST00000540494,ENST00000381611	7316-7318	1,22,14	CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:11137817:->chr2:10942766:-	chr2	11136232	11137817	-	chr2	10942766	10942766,10942766,10942766,10942766,10942766,10942766	-	ENST00000272227,ENST00000404371,ENST00000404824,ENST00000540494,ENST00000381611	7319-7321	828,7,65	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr2:115807796:+>chr2:116066815:+	chr2	115807621	115807796	+	chr2	116066815	116066929,116066929,116066929,116066929,116066929,116066929	+	ENST00000410059,ENST00000393146,ENST00000393147,ENST00000310323	7322-7325	18,2,22	CCLE-LUSC
chr2:116097292:+>chr2:116101393:+	chr2	116096231	116097292	+	chr2	116101393	116101488,116101488,116101488,116101488,116101488,116101488	+	ENST00000436732,ENST00000410059,ENST00000409163,ENST00000393146,ENST00000393147,ENST00000310323,ENST00000429914,ENST00000419287	7326-7331	7,18	CCLE-LCLL,CCLE-LUSC
chr2:120237839:->chr2:120236494:-	chr2	120237757	120237839	-	chr2	120236494	120236494	-	ENST00000019103	7332-7334	80,2,36	CCLE-DLBC,CCLE-MM
chr2:1206365:+>chr2:1241660:+	chr2	1206089	1206365	+	chr2	1241660	1241789,124	+	ENST00000308624,ENST00000407292	7335-7337	27,32,5	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr2:1206365:+>chr2:1243510:+	chr2	1206089	1206365	+	chr2	1243510	1243548,124	+	ENST00000308624,ENST00000407292	7338-7339	27,32	CCLE-LCLL,CCLE-LUSC
chr2:120825650:+>chr2:120830754:+	chr2	120825555	120825650	+	chr2	120830754	120830796,120830796,120830796,120830796,120830796,120830796	+	ENST00000263713,ENST00000443902,ENST00000331393,ENST00000443124,ENST00000452780	7340-7345	1,14,7	CCLE-BRCA,CCLE-LUSC,CCLE-MM,CCLE-STAD
chr2:121014229:+>chr2:121043450:+	chr2	121013952	121014229	+	chr2	121043450	121043658,121043658,121043658,121043658,121043658,121043658	+	ENST00000447591,ENST00000474855,ENST00000272519,ENST00000420510,ENST00000404963,ENST00000412383,ENST00000449649	7346-7351	8,42,20	CCLE-LCLL
chr2:127417058:+>chr2:127447831:+	chr2	127416934	127417058	+	chr2	127447831	127447887	+	ENST00000259254	7352-7353	42,41	CCLE-SKCM
chr2:127447365:+>chr2:127447831:+	chr2	127447001	127447365	+	chr2	127447831	127447887	+	ENST00000259254	7354-7355	17,46	CCLE-LCLL,CCLE-MM,CCLE-SKCM
chr2:127841165:->chr2:127834282:-	chr2	127840957	127841165	-	chr2	127834282	127834282,127834282,127834282,127834282,127834282,127834282,127834282,127834282,127834282,127834282	-	ENST00000376113,ENST00000259238,ENST00000346226,ENST00000348750,ENST00000351659,ENST00000352848,ENST00000357970,ENST00000393040,ENST00000393041,ENST00000316724,ENST00000409400	7356-7368	49,1,18	CCLE-BRCA,CCLE-KIRC,CCLE-LGG,CCLE-OV
chr2:128415536:->chr2:128415136:-	chr2	128415412	128415536	-	chr2	128415136	128415136,128415136,128415136	-	ENST00000324938,ENST00000355119,ENST00000545738	7369-7371	12,23	CCLE-BRCA,CCLE-COAD,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr2:130916606:->chr2:130914969:-	chr2	130916578	130916606	-	chr2	130914969	130914969,130914969,130914969,130914969,130914969,130914969,130914969,130914969,130914969,130914969	-	ENST00000351288,ENST00000439886,ENST00000453750,ENST00000409031,ENST00000431183,ENST00000443958,ENST00000339679,ENST00000452225,ENST00000451542,ENST00000435455	7372-7377	20,60,2	CCLE-LGG,CCLE-LUSC
chr2:130916614:->chr2:130914969:-	chr2	130916578	130916614	-	chr2	130914969	130914969,130914969,130914969,130914969,130914969,130914969,130914969,130914969,130914969,130914969	-	ENST00000351288,ENST00000439886,ENST00000453750,ENST00000409031,ENST00000431183,ENST00000443958,ENST00000339679,ENST00000452225,ENST00000451542,ENST00000435455	7378-7383	9,17,58	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr2:130923341:->chr2:130922018:-	chr2	130923311	130923341	-	chr2	130922018	130922018,130922018,130922018,130922018,130922018,130922018,130922018,130922018,130922018,130922018	-	ENST00000351288,ENST00000439886,ENST00000453750,ENST00000409031,ENST00000431183,ENST00000339679,ENST00000452225,ENST00000426662,ENST00000430682,ENST00000451542	7384-7391	33,34	CCLE-LUSC
chr2:130935823:->chr2:130934210:-	chr2	130935822	130935823	-	chr2	130934210	130934210,130934210,130934210,130934210	-	ENST00000351288,ENST00000453750,ENST00000409031,ENST00000431183	7392-7397	14,1,10	CCLE-CESC,CCLE-OV
chr2:130937459:->chr2:130934210:-	chr2	130937230	130937459	-	chr2	130934210	130934210,130934210,130934210,130934210	-	ENST00000351288,ENST00000453750,ENST00000409031,ENST00000431183	7398-7403	22,13,3	CCLE-DLBC,CCLE-LUSC
chr2:130939522:->chr2:130934210:-	chr2	130939502	130939522	-	chr2	130934210	130934210,130934210,130934210,130934210	-	ENST00000351288,ENST00000453750,ENST00000409031,ENST00000431183	7404-7409	23,22,15	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:1310453:+>chr2:1312266:+	chr2	1310452	1310453	+	chr2	1312266	1312358,131	+	ENST00000308624,ENST00000407292	7410-7411	1	CCLE-LUSC
chr2:131824504:->chr2:131813268:-	chr2	131824421	131824504	-	chr2	131813268	131813268,1	-	ENST00000409185,ENST00000389915	7412-7414	37,1,26	CCLE-SKCM
chr2:131824664:->chr2:131813268:-	chr2	131824421	131824664	-	chr2	131813268	131813268,1	-	ENST00000409185,ENST00000389915	7415-7417	30,17,11	CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM
chr2:160916229:->chr2:160901668:-	chr2	160916153	160916229	-	chr2	160901668	160901668,2	-	ENST00000283243,ENST00000392771	7418-7421	19,8,1	CCLE-BRCA,CCLE-COAD,CCLE-HNSC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM
chr2:162776311:+>chr2:162799302:+	chr2	162775225	162776311	+	chr2	162799302	162799407,162799407,162799407,162799407,162799407,162799407	+	ENST00000375514,ENST00000415876,ENST00000272716,ENST00000446997,ENST00000421911	7422-7426	18,41,10	CCLE-DLBC
chr2:163037279:->chr2:163031476:-	chr2	163037061	163037279	-	chr2	163031476	163031476,2	-	ENST00000188790,ENST00000443424	7427-7429	4,42,1	CCLE-BRCA,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr2:165373623:->chr2:165365362:-	chr2	165373532	165373623	-	chr2	165365362	165365362,165365362,165365362,165365362	-	ENST00000263915,ENST00000543549,ENST00000446413	7430-7432	8,2	CCLE-BRCA

chr2:165405311:->chr2:165404326:-	chr2	165404914	165405311	-	chr2	165404326	165404326,165404326,165404326,165404326	-	ENST00000263915,ENST00000543549,ENST00000446413,ENST00000426693	7433-7437	20,10,13	CCLE-CESC,CCLE-LUSC
chr2:166064775:+>chr2:166152390:+	chr2	166064674	166064775	+	chr2	166152390	166152600,166152600,166152600,166152600,166152600	+	ENST00000424833,ENST00000357398,ENST00000375437,ENST00000283256,ENST00000375427	7438-7442	12,33,9	CCLE-OV
chr2:166223061:+>chr2:166223727:+	chr2	166222961	166223061	+	chr2	166223727	166223881,166223881,166223881	+	ENST00000357398,ENST00000375437,ENST00000283256,ENST00000375427	7443-7444	11,25	CCLE-LUSC,CCLE-STAD
chr2:166874857:->chr2:166872237:-	chr2	166873286	166874857	-	chr2	166872237	166872237,166872237,166872237,166872237	-	ENST00000423058,ENST00000303395,ENST00000375405,ENST00000409050	7445-7446	18,4	CCLE-LGG
chr2:167100000:->chr2:167099166:-	chr2	167099856	167100000	-	chr2	167099166	167099166,167099166,167099166,167099166	-	ENST00000409672,ENST00000303354,ENST00000375387,ENST00000409435	7447-7449	2,14,22	CCLE-BRCA,CCLE-LIHC,CCLE-LUSC
chr2:179252548:+>chr2:179253736:+	chr2	179252450	179252548	+	chr2	179253736	179253880,179253880,179253880,179253880,179253880	+	ENST00000359685,ENST00000392505,ENST00000409045,ENST00000190611,ENST00000409631,ENST00000315022	7450-7452	24,33,2	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:183807875:->chr2:183806891:-	chr2	183807841	183807875	-	chr2	183806891	183806891,2	-	ENST00000361354,ENST00000360982	7453-7455	19,16,12	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr2:183854834:->chr2:183853914:-	chr2	183854819	183854834	-	chr2	183853914	183853914,2	-	ENST00000361354,ENST00000360982	7456-7458	12,5,2	CCLE-CESC,CCLE-LUSC
chr2:183857951:->chr2:183853914:-	chr2	183857777	183857951	-	chr2	183853914	183853914,2	-	ENST00000361354,ENST00000360982	7459-7461	1,3,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:183899651:->chr2:183888644:-	chr2	183899538	183899651	-	chr2	183888644	183888644,2	-	ENST00000361354,ENST00000360982	7462-7464	6,2,29	CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr2:183899651:->chr2:183889723:-	chr2	183899538	183899651	-	chr2	183889723	183889723	-	ENST00000360982	7465-7467	6,2,29	CCLE-LGG,CCLE-LUSC
chr2:187484317:+>chr2:187487066:+	chr2	187483916	187484317	+	chr2	187487066	187487157,187487157,187487157	+	ENST00000261023,ENST00000374907,ENST00000433736	7468-7471	22,3,19	CCLE-HNSC
chr2:187508401:+>chr2:187511413:+	chr2	187508330	187508401	+	chr2	187511413	187511604,187511604,187511604	+	ENST00000261023,ENST00000374907,ENST00000433736	7472-7474	24,3,11	CCLE-BLCA,CCLE-CESC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-OV
chr2:189366095:+>chr2:189387483:+	chr2	189365852	189366095	+	chr2	189387483	189387554,189387554,189387554,189387554,189387554,189387554	+	ENST00000409843,ENST00000409830,ENST00000410051,ENST00000409927,ENST00000359135,ENST00000409580,ENST00000409637,ENST00000409609	7475-7480	1,30,32	CCLE-LGG,CCLE-LUSC,CCLE-PAAD
chr2:190448060:->chr2:190436567:-	chr2	190448014	190448060	-	chr2	190436567	190436567,2	-	ENST00000261024,ENST00000427241	7481-7484	5,1	CCLE-LCLL
chr2:190448060:->chr2:190444606:-	chr2	190448014	190448060	-	chr2	190444606	190444606,190444606,190444606,190444606,190444606	-	ENST00000261024,ENST00000427241,ENST00000455320,ENST00000427419,ENST00000440626	7485-7492	5,1	CCLE-LCLL
chr2:198505344:->chr2:198498721:-	chr2	198500001	198505344	-	chr2	198498721	198498721	-	ENST00000295049	7493-7495	22,15,8	CCLE-CESC,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-STAD
chr2:198505388:->chr2:198498721:-	chr2	198500001	198505388	-	chr2	198498721	198498721	-	ENST00000295049	7496-7498	1,7,32	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-STAD,CCLE-THCA
chr2:198558188:->chr2:198498721:-	chr2	198552257	198558188	-	chr2	198498721	198498721	-	ENST00000295049	7499-7501	1,7,32	CCLE-CESC,CCLE-ESCA,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-STAD
chr2:198558188:->chr2:198511390:-	chr2	198552257	198558188	-	chr2	198511390	198511390,2	-	ENST00000295049,ENST00000429081	7502-7505	1,7,32	CCLE-LUSC
chr2:203085562:->chr2:203084829:-	chr2	203085408	203085562	-	chr2	203084829	203084829,203084829,203084829,203084829,203084829,203084829	-	ENST00000392246,ENST00000392245,ENST00000409368,ENST00000409712,ENST00000409181,ENST00000409627	7506-7513	6,2,16	CCLE-SKCM
chr2:204322156:->chr2:204320303:-	chr2	204321899	204322156	-	chr2	204320303	204320303,204320303,204320303,204320303,204320303,204320303,204320303,204320303,204320303,204320303	-	ENST00000457812,ENST00000319170,ENST00000374493,ENST00000374488,ENST00000374489,ENST00000308091,ENST00000419464,ENST00000423104,ENST00000439222,ENST00000453034,ENST00000418114	7514-7519	17,1	CCLE-LUSC
chr2:204398664:->chr2:204360076:-	chr2	204398507	204398664	-	chr2	204360076	204360076,204360076,204360076,204360076,204360076,204360076,204360076,204360076,204360076,204360076	-	ENST00000457812,ENST00000319170,ENST00000374493,ENST00000374488,ENST00000374489,ENST00000308091,ENST00000419464,ENST00000423104,ENST00000439222,ENST00000453034,ENST00000418114,ENST00000428637,ENST00000420371	7520-7532	22,23	CCLE-SARC
chr2:207259584:+>chr2:207345956:+	chr2	207259455	207259584	+	chr2	207345956	207346032,207346032,207346032	+	ENST00000264377,ENST00000374416,ENST00000374415	7533-7537	21,8,40	CCLE-LUSC
chr2:208862467:->chr2:208842310:-	chr2	208862375	208862467	-	chr2	208842310	208842310,208842310,208842310	-	ENST00000427836,ENST00000389247,ENST00000457206	7538-7541	10,16	CCLE-LUSC
chr2:209281661:+>chr2:209292926:+	chr2	209281308	209281661	+	chr2	209292926	209293028	+	ENST00000272847	7542-7544	56,1,31	CCLE-DLBC,CCLE-ESCA
chr2:211306743:->chr2:211306167:-	chr2	211306633	211306743	-	chr2	211306167	211306167,211306167,211306167,211306167,211306167,211306167	-	ENST00000443314,ENST00000441020,ENST00000450366,ENST00000233714,ENST00000431941,ENST00000448951	7545-7548	1,21,8	CCLE-LCLL
chr2:211306788:->chr2:211306167:-	chr2	211306633	211306788	-	chr2	211306167	211306167,211306167,211306167,211306167,211306167,211306167	-	ENST00000443314,ENST00000441020,ENST00000450366,ENST00000233714,ENST00000431941,ENST00000448951	7549-7552	6,2,16	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr2:211342174:->chr2:211336800:-	chr2	211342084	211342174	-	chr2	211336800	211336800,211336800,211336800,211336800,211336800,211336800	-	ENST00000443314,ENST00000441020,ENST00000450366,ENST00000233714,ENST00000431941,ENST00000448951,ENST00000453956	7553-7557	7,10,4	CCLE-BRCA,CCLE-CESC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:212598966:->chr2:212589919:-	chr2	212598901	212598966	-	chr2	212589919	212589919,212589919,212589919,212589919	-	ENST00000342788,ENST00000436443,ENST00000402597,ENST00000260943	7558-7562	2	CCLE-LUSC
chr2:212856958:->chr2:212812341:-	chr2	212856908	212856958	-	chr2	212812341	212812341,212812341,212812341,212812341,212812341	-	ENST00000342788,ENST00000436443,ENST00000402597,ENST00000260943,ENST00000435846	7563-7569	5,10,39	CCLE-LIHC,CCLE-LUSC
chr2:220077475:->chr2:220077213:-	chr2	220077254	220077475	-	chr2	220077213	220077213,220077213,220077213	-	ENST00000265316,ENST00000295750,ENST00000439002	7570-7572	1,14,6	CCLE-BRCA,CCLE-LGG,CCLE-LUSC
chr2:222366257:->chr2:222365892:-	chr2	222366163	222366257	-	chr2	222365892	222365892,222365892,222365892,222365892,222365892	-	ENST00000281821,ENST00000409854,ENST00000409938,ENST00000392071,ENST00000441679	7573-7577	1,6,20	CCLE-LGG,CCLE-LUSC
chr2:230370893:->chr2:230341969:-	chr2	230370811	230370893	-	chr2	230341969	230341969	-	ENST00000341772	7578-7580	48,8,42	CCLE-SARC
chr2:233392271:+>chr2:233392972:+	chr2	233392174	233392271	+	chr2	233392972	233393081,233393081,233393081,233393081,233393081,233393081,233393081,233393049	+	ENST00000441621,ENST00000449596,ENST00000543200,ENST00000258385,ENST00000412233,ENST00000536614,ENST00000446616	7581-7587	2,32,24	CCLE-SARC
chr2:233988546:+>chr2:233990458:+	chr2	233988322	233988546	+	chr2	233990458	233990629,233990629,233990629,233990629	+	ENST00000422935,ENST00000451407,ENST00000538935,ENST00000359570	7588-7592	16,39,31	CCLE-LCLL
chr2:234271919:+>chr2:234296903:+	chr2	234271426	234271919	+	chr2	234296903	234297013,234297013,234297013	+	ENST00000264057,ENST00000447484,ENST00000409813	7593-7596	15,33,2	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-STAD
chr2:234375401:+>chr2:234375732:+	chr2	234375318	234375401	+	chr2	234375732	234375849,2	+	ENST00000264057,ENST00000409813	7597-7599	28,15,2	CCLE-DLBC,CCLE-STAD
chr2:234844926:+>chr2:234845997:+	chr2	234844893	234844926	+	chr2	234845997	234846153,234846153,234846153	+	ENST00000324695,ENST00000444298,ENST00000355722	7600-7604	12,6,11	CCLE-SKCM

chr2:242266162:+>chr2:242274541:+	chr2	242265750	242266162	+	chr2	242274541	242274627,242274627,242274627,242274561,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274566,242274627	+	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000428524,ENST00000445030,ENST00000407017,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000457335,ENST00000436795,ENST00000411484,ENST00000434955,ENST00000402092,ENST00000441533,ENST00000443492,ENST00000437066,ENST00000420786,ENST00000449239	7605-7621	36,47,39	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LCLL,CCLE-LGG,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:242266191:+>chr2:242274541:+	chr2	242265750	242266191	+	chr2	242274541	242274627,242274627,242274561,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274566,242274627	+	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000428524,ENST00000445030,ENST00000407017,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000457335,ENST00000436795,ENST00000411484,ENST00000434955,ENST00000402092,ENST00000441533,ENST00000443492,ENST00000437066,ENST00000420786,ENST00000449239	7622-7638	9,46,48	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:242268855:+>chr2:242274541:+	chr2	242268818	242268855	+	chr2	242274541	242274627,242274627,242274561,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274627,242274566,242274627	+	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000428524,ENST00000445030,ENST00000407017,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000457335,ENST00000436795,ENST00000411484,ENST00000434955,ENST00000402092,ENST00000441533,ENST00000443492,ENST00000437066,ENST00000420786,ENST00000449239	7639-7654	11,2	CCLE-KIRC
chr2:242276295:+>chr2:242276797:+	chr2	242276229	242276295	+	chr2	242276797	242276931,242276931,242276931,242276931,242276900,242276863,242276931,242276931,242276848,242276931,242276931	+	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000436795,ENST00000411484,ENST00000402092,ENST00000443492,ENST00000437066,ENST00000449239,ENST00000457874	7655-7665	6,13,3	CCLE-BRCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD
chr2:242276327:+>chr2:242276797:+	chr2	242276229	242276327	+	chr2	242276797	242276931,242276931,242276931,242276931,242276900,242276863,242276931,242276931,242276848,242276931,242276931	+	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000436795,ENST00000411484,ENST00000402092,ENST00000443492,ENST00000437066,ENST00000449239,ENST00000457874	7666-7676	17,13,24	CCLE-LUSC
chr2:242276559:+>chr2:242276797:+	chr2	242276523	242276559	+	chr2	242276797	242276931,242276931,242276931,242276931,242276900,242276863,242276931,242276931,242276848,242276931,242276931	+	ENST00000391973,ENST00000428282,ENST00000360051,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000436795,ENST00000411484,ENST00000402092,ENST00000443492,ENST00000437066,ENST00000449239,ENST00000457874	7677-7687	12,13	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr2:242287414:+>chr2:242287549:+	chr2	242287154	242287414	+	chr2	242287549	242287606,242287606,242287606,242287606,242287606,242287606	+	ENST00000391973,ENST00000360051,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000402092,ENST00000421717	7688-7690	13,35,20	CCLE-SKCM
chr2:242289022:+>chr2:242289488:+	chr2	242288956	242289022	+	chr2	242289488	242289589,242289589,242289589,242289589,242289589,242289589	+	ENST00000391973,ENST00000360051,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000402092,ENST00000421717	7691-7693	23,22,13	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:242289220:+>chr2:242289488:+	chr2	242288956	242289220	+	chr2	242289488	242289589,242289589,242289589,242289589,242289589,242289589	+	ENST00000391973,ENST00000360051,ENST00000391971,ENST00000401990,ENST00000407971,ENST00000402092,ENST00000421717	7694-7696	13,3,22	CCLE-LUSC
chr2:25056611:->chr2:25054618:-	chr2	25056598	25056611	-	chr2	25054618	25054618,25054618	-	ENST00000260600,ENST00000405392,ENST00000606682	7697-7700	15,48,6	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:25062060:->chr2:25061491:-	chr2	25061811	25062060	-	chr2	25061491	25061491,25061491,25061491,25061491	-	ENST00000260600,ENST00000405392,ENST00000606682,ENST00000427849,ENST00000435135	7701-7706	8,14,13	CCLE-COAD,CCLE-DLBC,CCLE-LUSC
chr2:25109962:->chr2:25065253:-	chr2	25109880	25109962	-	chr2	25065253	25065253,25065253	-	ENST00000260600,ENST00000435135,ENST00000433852	7707-7710	8,1	CCLE-DLBC
chr2:25112189:->chr2:25095588:-	chr2	25111889	25112189	-	chr2	25095588	25095588,25	-	ENST00000260600,ENST00000433852	7711-7712	7,72	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM
chr2:25128716:->chr2:25095588:-	chr2	25128642	25128716	-	chr2	25095588	25095588,25	-	ENST00000260600,ENST00000433852	7713-7716	3,24	CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr2:25757853:->chr2:25754466:-	chr2	25757850	25757853	-	chr2	25754466	25754466,25754466,25754466,25754466,25754466,25754466,25754466,25754466,25754466	-	ENST00000496972,ENST00000404103,ENST00000405222,ENST00000406818,ENST00000407038,ENST00000407661,ENST00000407186,ENST00000288642,ENST00000545439	7717-7727	37,50,12	CCLE-LUSC
chr2:25837794:->chr2:25830190:-	chr2	25837654	25837794	-	chr2	25830190	25830190,25830190,25830190,25830190,25830190,25830190,25830190,25830190,25830190	-	ENST00000496972,ENST00000398951,ENST00000404103,ENST00000405222,ENST00000406818,ENST00000407661,ENST00000407186,ENST00000288642,ENST00000303659,ENST00000349996	7728-7739	12,31	CCLE-LUSC
chr2:28753133:+>chr2:28754975:+	chr2	28753104	28753133	+	chr2	28754975	28755061,28755061,28755061	+	ENST00000416713,ENST00000327757,ENST00000422425,ENST00000404858	7740-7745	10	CCLE-COAD,CCLE-LCLL
chr2:28768341:+>chr2:28771727:+	chr2	28768333	28768341	+	chr2	28771727	28771798,28771798,28771798,28771798	+	ENST00000327757,ENST00000422425,ENST00000404858,ENST00000329020,ENST00000436544	7746-7750	3,1	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr2:28807889:+>chr2:28808628:+	chr2	28807702	28807889	+	chr2	28808628	28808709,28808709,28808709,28808709	+	ENST00000327757,ENST00000422425,ENST00000404858,ENST00000329020,ENST00000436544	7751-7754	32,17,2	CCLE-LUSC
chr2:3505450:->chr2:3504764:-	chr2	3505313	3505450	-	chr2	3504764	3504764,35	-	ENST00000327435,ENST00000382093	7755-7756	23,4	CCLE-LCLL
chr2:36725498:+>chr2:36726362:+	chr2	36725407	36725498	+	chr2	36726362	36726490	+	ENST00000280527	7757-7759	6,14,4	CCLE-CESC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC
chr2:36759987:+>chr2:36764495:+	chr2	36759828	36759987	+	chr2	36764495	36764689	+	ENST00000280527	7760-7762	2,28,13	CCLE-LUSC
chr2:37490123:->chr2:37487527:-	chr2	37489916	37490123	-	chr2	37487527	37487527,37487527,37487527	-	ENST00000379066,ENST00000234179,ENST00000443977	7763-7767	20,42,13	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr2:37519722:->chr2:37518142:-	chr2	37519486	37519722	-	chr2	37518142	37518142,37518142,37518142	-	ENST00000379066,ENST00000234179,ENST00000443187	7768-7771	23,22,13	CCLE-LUSC,CCLE-SKCM
chr2:37520065:->chr2:37518142:-	chr2	37519789	37520065	-	chr2	37518142	37518142,37518142,37518142	-	ENST00000379066,ENST00000234179,ENST00000443187	7772-7775	8,7	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr2:37522288:->chr2:37520414:-	chr2	37522273	37522288	-	chr2	37520414	37520414,38	-	ENST00000379066,ENST00000234179	7776-7778	76,21,28	CCLE-BLCA,CCLE-CESC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM,CCLE-STAD

chr2:37529894:->chr2:37520414:-	chr2	37529869	37529894	-	chr2	37520414	37520414,38	-	ENST00000379066,ENST00000234179	7779-7781	14,24,11	CCLE-MM,CCLE-SKCM
chr2:40439656:->chr2:40404995:-	chr2	40439424	40439656	-	chr2	40404995	40404995,40404995,40404995,40404995,40404995,40404995,40404995	-	ENST00000406785,ENST00000407929,ENST00000402441,ENST00000405269,ENST00000406391,ENST00000408028,ENST00000542024	7782-7787	23,22,13	CCLE-COAD
chr2:40465674:->chr2:40401982:-	chr2	40459741	40465674	-	chr2	40401982	40401982,40401982,40401982,40401982,40401982,40401982,40401982	-	ENST00000406785,ENST00000542756,ENST00000403092,ENST00000405901,ENST00000402441,ENST00000405269,ENST00000332839,ENST00000406391,ENST00000408028	7788-7794	24,1,31	CCLE-LUSC
chr2:40465674:->chr2:40405633:-	chr2	40459741	40465674	-	chr2	40405633	40405633,40405633,40405633	-	ENST00000407929,ENST00000403092,ENST00000405901,ENST00000332839	7795-7799	1,24,31	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr2:40548694:->chr2:40404995:-	chr2	40548611	40548694	-	chr2	40404995	40404995,40404995,40404995,40404995,40404995,40404995,40404995	-	ENST00000406785,ENST00000407929,ENST00000402441,ENST00000405269,ENST00000406391,ENST00000408028,ENST00000542024	7800-7804	8,44	CCLE-DLBC
chr2:40548694:->chr2:40405633:-	chr2	40548611	40548694	-	chr2	40405633	40405633,40405633,40405633,40405633,40405633,40405633,40405633	-	ENST00000407929,ENST00000403092,ENST00000405901,ENST00000332839	7805-7809	41,8,44	CCLE-DLBC
chr2:42684304:->chr2:42671719:-	chr2	42684182	42684304	-	chr2	42671719	42671719,43	-	ENST00000306078,ENST00000394973	7810-7811	13,12	CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr2:43961903:+>chr2:43965480:+	chr2	43961500	43961903	+	chr2	43965480	43965659	+	ENST00000282406	7812-7814	1,29,16	CCLE-KIRC
chr2:43965055:+>chr2:43965480:+	chr2	43965038	43965055	+	chr2	43965480	43965659	+	ENST00000282406	7815-7817	6	CCLE-KIRC,CCLE-LUSC
chr2:46052833:+>chr2:46070139:+	chr2	46052742	46052833	+	chr2	46070139	46070173,46	+	ENST00000421201,ENST00000306156	7818-7821	26,9,22	CCLE-LCLL
chr2:46807863:+>chr2:46808067:+	chr2	46807472	46807863	+	chr2	46808067	46808222	+	ENST00000238738	7822-7823	3,6	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr2:47177861:+>chr2:47183978:+	chr2	47177792	47177861	+	chr2	47183978	47184146,47184146,47184146,47184146,47184146,47184146,47184146	+	ENST00000409245,ENST00000319190,ENST00000394850,ENST00000441914	7824-7828	13,3,6	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-STAD,CCLE-THCA
chr2:47205388:+>chr2:47205931:+	chr2	47205383	47205388	+	chr2	47205931	47206046,47206046,47206046,47206046,47206046,47206046,47206046	+	ENST00000409245,ENST00000319190,ENST00000394850,ENST00000441914	7829-7833	2,1	CCLE-DLBC,CCLE-LCLL
chr2:47210009:+>chr2:47220589:+	chr2	47209837	47210009	+	chr2	47220589	47220667,47220667,47220667,47220667,47220667,47220667,47220667	+	ENST00000409245,ENST00000319190,ENST00000394850,ENST00000441914	7834-7839	28,1,6	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr2:47232680:+>chr2:47233061:+	chr2	47232534	47232680	+	chr2	47233061	47233198,47233198,47233198,47233198,47233198,47233198,47233146	+	ENST00000409245,ENST00000319190,ENST00000394850,ENST00000263737,ENST00000441914	7840-7844	3,49,8	CCLE-LCLL,CCLE-LUSC
chr2:49305305:->chr2:49295429:-	chr2	49305222	49305305	-	chr2	49295429	49295429,49295429,49295429,49295429,49295429,49295429,49295429	-	ENST00000346173,ENST00000406846,ENST00000304421,ENST00000454032,ENST00000419927	7845-7850	21,8	CCLE-SKCM
chr2:50243636:->chr2:50170929:-	chr2	50243554	50243636	-	chr2	50170929	50170929,50170929,50170929,50170929,50170929,50170929,50170929	-	ENST00000342183,ENST00000412315,ENST00000378262,ENST00000401710,ENST00000404971,ENST00000406316,ENST00000405472,ENST00000401669,ENST00000402717,ENST00000406859	7851-7853	24,8,4	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-STAD
chr2:50243672:->chr2:50170929:-	chr2	50243554	50243672	-	chr2	50170929	50170929,50170929,50170929,50170929,50170929,50170929,50170929	-	ENST00000342183,ENST00000412315,ENST00000378262,ENST00000401710,ENST00000404971,ENST00000406316,ENST00000405472,ENST00000401669,ENST00000402717,ENST00000406859	7854-7856	12,1,40	CCLE-DLBC,CCLE-LUSC,CCLE-MM
chr2:54870986:+>chr2:54871460:+	chr2	54870839	54870986	+	chr2	54871460	54871723,55	+	ENST00000356805,ENST00000333896	7857-7860	15,4,49	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr2:55318905:->chr2:55214834:-	chr2	55318829	55318905	-	chr2	55214834	55214834,55214834,55214834,55214834,55214834,55214834,55214834,55214834,55214834,55214834,55214834,55214834	-	ENST00000394609,ENST00000405240,ENST00000357376,ENST00000317610,ENST00000337526,ENST00000357732,ENST00000394611,ENST00000404909,ENST00000354474,ENST00000402434,ENST00000438462	7861-7864	19,8,46	CCLE-LCLL
chr2:63419767:->chr2:63401967:-	chr2	63419618	63419767	-	chr2	63401967	63401967,63401967,63401967,63401967,63401967,63401967,63401967	-	ENST00000409354,ENST00000272321,ENST00000409199,ENST00000409120,ENST00000398544	7865-7869	12,16	CCLE-DLBC
chr2:63436558:->chr2:63401967:-	chr2	63436376	63436558	-	chr2	63401967	63401967,63401967,63401967,63401967,63401967,63401967,63401967	-	ENST00000409354,ENST00000272321,ENST00000409199,ENST00000409120,ENST00000398544	7870-7874	17,3,7	CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr2:63507361:->chr2:63486544:-	chr2	63507285	63507361	-	chr2	63486544	63486544,63486544,63486544,63486544,63486544,63486544,63486544	-	ENST00000272321,ENST00000409199,ENST00000409120,ENST00000398544	7875-7876	8,45	CCLE-SKCM
chr2:63719680:->chr2:63714628:-	chr2	63719633	63719680	-	chr2	63714628	63714628,63714628,63714628,63714628,63714628,63714628,63714628	-	ENST00000272321,ENST00000409562,ENST00000418148,ENST00000431065	7877-7883	11,2,14	CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr2:63798509:->chr2:63720074:-	chr2	63798402	63798509	-	chr2	63720074	63720074,63720074,63720074,63720074,63720074,63720074,63720074	-	ENST00000272321,ENST00000409562,ENST00000418148,ENST00000431065	7884-7889	8,19,25	CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LUSC
chr2:68461580:->chr2:68444263:-	chr2	68461490	68461580	-	chr2	68444263	68444263,68	-	ENST00000234310,ENST00000409752	7890-7892	9,10,3	CCLE-CESC,CCLE-DLBC,CCLE-LUSC,CCLE-SKCM
chr2:69302615:+>chr2:69302722:+	chr2	69302552	69302615	+	chr2	69302722	69302790,69302790,69302790,69302790,69302790,69302790,69302790	+	ENST00000303714,ENST00000409829,ENST00000409349	7893-7897	17,21,19	CCLE-SARC,CCLE-SKCM
chr2:69303868:+>chr2:69304540:+	chr2	69303622	69303868	+	chr2	69304540	69304620,69304620,69304620,69304620,69304620,69304620,69304620	+	ENST00000303714,ENST00000409829,ENST00000409349,ENST00000482235	7898-7899	11,5	CCLE-LUSC
chr2:69316509:+>chr2:69317991:+	chr2	69316450	69316509	+	chr2	69317991	69318051,69318051,69318051,69318051,69318051,69318051,69318051	+	ENST00000303714,ENST00000409829,ENST00000409349,ENST00000482235	7900-7905	20,9	CCLE-LGG,CCLE-LUSC
chr2:69464904:+>chr2:69472357:+	chr2	69464894	69464904	+	chr2	69472357	69472617	+	ENST00000303714	7906-7908	4,3	CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr2:70729971:->chr2:70692865:-	chr2	70729941	70729971	-	chr2	70692865	70692868,70692865,70692865,70692865,70692865,70692865,70692868	-	ENST00000295400,ENST00000419940,ENST00000445399,ENST00000418339,ENST00000450929,ENST00000444975,ENST00000394241	7909-7914	3,17,19	CCLE-LUSC,CCLE-SKCM
chr2:70729971:->chr2:70692868:-	chr2	70729941	70729971	-	chr2	70692868	70692868,71	-	ENST00000295400,ENST00000444975	7915-7917	3,17,19	CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM
chr2:77305985:->chr2:76976042:-	chr2	77305909	77305985	-	chr2	76976042	76976042,76976042,76976042,76976042,76976042,76976042,76976042	-	ENST00000409911,ENST00000409884,ENST00000409093	7918-7920	42,25,30	CCLE-DLBC
chr2:80689127:+>chr2:80772107:+	chr2	80688888	80689127	+	chr2	80772107	80772199,80772199,80772199,80772199,80772199,80772199,80772199	+	ENST00000466387,ENST00000496558,ENST00000361291,ENST00000402739,ENST00000540488,ENST00000541047,ENST00000343114,ENST00000409550	7921-7926	37,1,22	CCLE-LCLL
chr2:85080438:->chr2:85059269:-	chr2	85080355	85080438	-	chr2	85059269	85059269,85	-	ENST00000335459,ENST00000409520	7927-7929	43,41,8	CCLE-COAD
chr2:85080438:->chr2:85069131:-	chr2	85080355	85080438	-	chr2	85069131	85069131,85	-	ENST00000409520,ENST00000409133	7930-7933	43,41,8	CCLE-COAD,CCLE-LIHC
chr2:85804390:+>chr2:85806132:+	chr2	85804318	85804390	+	chr2	85806132	85806290,86	+	ENST00000263864,ENST00000409760	7934-7937	11,7,24	CCLE-DLBC,CCLE-LCLL
chr2:85807653:+>chr2:85808699:+	chr2	85807537	85807653	+	chr2	85808699	85808839,85808839,85808839,85808839,85808839,85808839,85808703	+	ENST00000432071,ENST00000263864,ENST00000409760	7938-7942	11,39	CCLE-COAD,CCLE-LCLL
chr2:85807766:+>chr2:85808699:+	chr2	85807694	85807766	+	chr2	85808699	85808839,85808839,85808839,85808839,85808839,85808839,85808703	+	ENST00000432071,ENST00000263864,ENST00000409760	7943-7947	6,16,24	CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-OV
chr2:85811992:+>chr2:85818848:+	chr2	85811874	85811992	+	chr2	85818848	85818985	+	ENST00000306384	7948-7950	10,19,2	CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr2:87028634:->chr2:87013094:-	chr2	87028503	87028634	-	chr2	87013094	87013094,87013094,87013094,87013094,87013094,87013094,87013094	-	ENST00000456996,ENST00000352580,ENST00000283635,ENST00000409511,ENST00000538832,ENST00000409781	7951-7953	2,36,22	CCLE-CESC,CCLE-LUSC

chr2:87028634:->chr2:87015683:-	chr2	87028503	87028634	-	chr2	87015683	87015683,87015683,87015683,87015683,87015683	-	ENST00000456996,ENST00000352580,ENST00000283635,ENST00000409511,ENST00000538832,ENST00000409781	7954-7956	2,36,22	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr2:89443312:->chr2:89442355:-	chr2	89443297	89443312	-	chr2	89442355	89442355	-	ENST00000492167	7957-7959	1,24,8	CCLE-DLBC
chr2:89545604:->chr2:89544574:-	chr2	89545458	89545604	-	chr2	89544574	89544574	-	ENST00000468494	7960-7962	1,11,47	CCLE-DLBC
chr2:9482778:+>chr2:9484661:+	chr2	9482170	9482778	+	chr2	9484661	9484764,948	+	ENST00000281419,ENST00000315273	7963-7964	3,35	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr2:9507793:+>chr2:9508554:+	chr2	9507608	9507793	+	chr2	9508554	9508648,951	+	ENST00000281419,ENST00000315273	7965-7968	1,27,8	CCLE-LUSC
chr2:9527118:+>chr2:9528423:+	chr2	9527052	9527118	+	chr2	9528423	9528675,953	+	ENST00000281419,ENST00000315273	7969-7972	6,23,13	CCLE-LUSC
chr2:9562921:->chr2:9552534:-	chr2	9562855	9562921	-	chr2	9552534	9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534	-	ENST00000360635,ENST00000238091,ENST00000355346,ENST00000483795,ENST00000464228,ENST00000359712,ENST00000488451,ENST00000456913,ENST00000492079,ENST00000494563,ENST00000467606,ENST00000484735,ENST00000460001,ENST00000497105	7973-7984	41,50,1	CCLE-LUSC,CCLE-PAAD
chr2:9562927:->chr2:9552534:-	chr2	9562855	9562927	-	chr2	9552534	9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534	-	ENST00000360635,ENST00000238091,ENST00000355346,ENST00000483795,ENST00000464228,ENST00000359712,ENST00000488451,ENST00000456913,ENST00000492079,ENST00000494563,ENST00000467606,ENST00000484735,ENST00000460001,ENST00000497105	7985-7996	39,48,11	CCLE-LUSC
chr2:9562931:->chr2:9552534:-	chr2	9562855	9562931	-	chr2	9552534	9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534,9552534	-	ENST00000360635,ENST00000238091,ENST00000355346,ENST00000483795,ENST00000464228,ENST00000359712,ENST00000488451,ENST00000456913,ENST00000492079,ENST00000494563,ENST00000467606,ENST00000484735,ENST00000460001,ENST00000497105	7997-8008	38,46,10	CCLE-LUSC
chr2:95940748:+>chr2:95941209:+	chr2	95940692	95940748	+	chr2	95941209	95941258,9594125,95941258,95941258,95941258,95941258	+	ENST00000317620,ENST00000403131,ENST00000317668,ENST00000542147,ENST00000431567	8009-8013	19,2	CCLE-BLCA,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC
chr2:96807706:->chr2:96801151:-	chr2	96807594	96807706	-	chr2	96801151	96801151	-	ENST00000342380	8014-8016	4,15,29	CCLE-DLBC
chr2:96807706:->chr2:96803439:-	chr2	96807594	96807706	-	chr2	96803439	96803439	-	ENST00000342380	8017-8019	4,15,29	CCLE-COAD,CCLE-DLBC,CCLE-LUSC
chr2:97439042:+>chr2:97462749:+	chr2	97439027	97439042	+	chr2	97462749	97462892	+	ENST00000377075	8020-8022	1,4,2	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD
chr2:97439042:+>chr2:97490795:+	chr2	97439027	97439042	+	chr2	97490795	97490938	+	ENST00000305510	8023-8025	1,4,2	CCLE-BRCA
chr2:97470704:+>chr2:97474298:+	chr2	97470612	97470704	+	chr2	97474298	97474479,97	+	ENST00000377075,ENST00000540067	8026-8030	9,31,20	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV
chr20:17498128:->chr20:17495461:-	chr20	17498036	17498128	-	chr20	17495461	17495461,17495461,17495461,17495461	-	ENST00000377873,ENST00000377868,ENST00000544874,ENST00000536626	8031-8033	11,3,25	CCLE-BLCA,CCLE-BRCA,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-THCA
chr20:2583831:+>chr20:2591065:+	chr20	2583474	2583831	+	chr20	2591065	2591244	+	ENST00000358864	8034-8036	8,16,13	CCLE-LUSC
chr20:2980071:+>chr20:2985702:+	chr20	2979619	2980071	+	chr20	2985702	2985792,2985750,2985792,2985792,2985792,2985792,2985792,2985792	+	ENST00000380393,ENST00000455631,ENST00000216877,ENST00000358719,ENST00000399903,ENST00000425918,ENST00000318266,ENST00000356147	8037-8041	26,52,5	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr20:2988991:+>chr20:2996495:+	chr20	2988817	2988991	+	chr20	2996495	2996531,2996531,2996531,2996531,2996531,2996531	+	ENST00000380393,ENST00000216877,ENST00000358719,ENST00000399903,ENST00000425918,ENST00000318266,ENST00000356147	8042-8044	19,32,6	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr20:30126162:+>chr20:30132750:+	chr20	30126108	30126162	+	chr20	30132750	30132838,30132838,30132838,30132838,30132838	+	ENST00000335574,ENST00000340852,ENST00000398174,ENST00000376127,ENST00000344042	8045-8051	11,8,18	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr20:30126162:+>chr20:30136832:+	chr20	30126108	30126162	+	chr20	30136832	30136917,30136917,30136917,30136917	+	ENST00000335574,ENST00000340852,ENST00000398174,ENST00000376127,ENST00000344042	8052-8058	11,8,18	CCLE-BRCA,CCLE-LUSC,CCLE-STAD
chr20:30126162:+>chr20:30137867:+	chr20	30126108	30126162	+	chr20	30137867	30137924,30137924,30137924,30137924,30137924	+	ENST00000335574,ENST00000340852,ENST00000398174,ENST00000376127,ENST00000344042	8059-8064	11,8,18	CCLE-PAAD
chr20:3013539:+>chr20:3016231:+	chr20	3013429	3013539	+	chr20	3016231	3016356,3016356,3016356,3016356,3016356,3016356	+	ENST00000380393,ENST00000216877,ENST00000358719,ENST00000399903,ENST00000425918,ENST00000356147	8065-8067	8,13,37	CCLE-DLBC,CCLE-LCLL,CCLE-LGG
chr20:30148997:+>chr20:30149437:+	chr20	30148973	30148997	+	chr20	30149437	30149539,30149539,30149539,30149539	+	ENST00000335574,ENST00000340852,ENST00000398174,ENST00000376127,ENST00000344042	8068-8076	8,3	CCLE-COAD,CCLE-HNSC,CCLE-KIRC,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr20:30153664:+>chr20:30154013:+	chr20	30153629	30153664	+	chr20	30154013	30154098,30154098,30154098,30154098	+	ENST00000335574,ENST00000340852,ENST00000398174,ENST00000376127	8077-8083	10,12,3	CCLE-HNSC
chr20:30153746:+>chr20:30154013:+	chr20	30153629	30153746	+	chr20	30154013	30154098,30154098,30154098,30154098	+	ENST00000335574,ENST00000340852,ENST00000398174,ENST00000376127	8084-8087	14,2	CCLE-BLCA,CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr20:30153897:+>chr20:30154013:+	chr20	30153832	30153897	+	chr20	30154013	30154098,30154098,30154098,30154098	+	ENST00000335574,ENST00000340852,ENST00000398174,ENST00000376127	8088-8094	13,22,3	CCLE-HNSC
chr20:32020290:->chr20:32005729:-	chr20	32020271	32020290	-	chr20	32005729	32005729	-	ENST00000217381	8095-8097	8,2,18	CCLE-LCLL
chr20:3219491:->chr20:3218234:-	chr20	3219482	3219491	-	chr20	3218234	3218325,3218234,3218234	-	ENST00000380056,ENST00000380059,ENST00000539553	8098-8100	18,12,4	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr20:33009632:+>chr20:33012286:+	chr20	33009534	33009632	+	chr20	33012286	33012331,3301233,33012331	+	ENST00000374864,ENST00000535650,ENST00000262650	8101-8103	7,33,11	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr20:33037726:+>chr20:33045195:+	chr20	33037542	33037726	+	chr20	33045195	33045279,3304527,33045279	+	ENST00000374864,ENST00000535650,ENST00000262650	8104-8106	25,20,6	CCLE-CESC,CCLE-LUSC,CCLE-OV
chr20:34217464:->chr20:34215335:-	chr20	34217425	34217464	-	chr20	34215335	34215335,34215335,34215335,34215335,34215335,34215335,34215335,34215335,34215335,34215335,34215335	-	ENST00000352393,ENST00000415920,ENST00000317677,ENST00000317619,ENST00000397443,ENST00000397445,ENST00000397446,ENST00000397442,ENST00000401607,ENST00000437340,ENST00000430570	8107-8120	2,37,5	CCLE-DLBC,CCLE-LUSC
chr20:3553282:+>chr20:3553378:+	chr20	3553183	3553282	+	chr20	3553378	3553598,355	+	ENST00000262919,ENST00000446916	8121-8124	11,5,33	CCLE-SKCM
chr20:36793389:->chr20:36790001:-	chr20	36793342	36793389	-	chr20	36790001	36790001,36790001,36790001,36790001	-	ENST00000361475,ENST00000536701,ENST00000373403,ENST00000453095	8125-8130	21,7,9	CCLE-STAD
chr20:42785135:->chr20:42747263:-	chr20	42785100	42785135	-	chr20	42747263	42747263	-	ENST00000372980	8131-8133	4,12,17	CCLE-ESCA,CCLE-LGG
chr20:43251969:->chr20:43251719:-	chr20	43251886	43251969	-	chr20	43251719	43251719,43251719,43251719	-	ENST00000372874,ENST00000536532,ENST00000539235	8134-8139	43,9,2	CCLE-LCLL
chr20:43253289:->chr20:43252956:-	chr20	43253254	43253289	-	chr20	43252956	43252970,43252970,43252970	-	ENST00000372874,ENST00000536532,ENST00000537820	8140-8144	10,20,7	CCLE-LCLL
chr20:43261045:->chr20:43257810:-	chr20	43260883	43261045	-	chr20	43257810	43257810,43257810,43257810,43257810	-	ENST00000372874,ENST00000536532,ENST00000537820,ENST00000539235	8145-8150	28,24,27	CCLE-LCLL
chr20:44848437:->chr20:44845632:-	chr20	44848319	44848437	-	chr20	44845632	44845632,45	-	ENST00000372262,ENST00000537909	8151-8153	2,12,19	CCLE-LUSC
chr20:44850013:->chr20:44845632:-	chr20	44849972	44850013	-	chr20	44845632	44845632,45	-	ENST00000372262,ENST00000537909	8154-8156	17,4,18	CCLE-LUSC

chr20:45188928:->chr20:45188837:-	chr20	45188878	45188928	-	chr20	45188837	45188837,45188837,45188837,45188837,45188837,45188837	-	ENST00000396360,ENST00000435037,ENST00000290317,ENST00000279027,ENST00000472148,ENST00000413164,ENST00000495082	8157-8159	29,26,23	CCLE-MM
chr20:45254390:->chr20:45242364:-	chr20	45254135	45254390	-	chr20	45242364	45242364,45242364,45242364,45242364,45242364,45242364	-	ENST00000279027,ENST00000413164,ENST00000420568,ENST00000372121,ENST00000339636	8160-8165	13,30,58	CCLE-STAD
chr20:45296205:->chr20:45242364:-	chr20	45296169	45296205	-	chr20	45242364	45242364,45242364,45242364,45242364,45242364,45242364	-	ENST00000279027,ENST00000413164,ENST00000420568,ENST00000372121,ENST00000339636	8166-8171	2,7,4	CCLE-CESC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr20:45313035:->chr20:45242191:-	chr20	45312955	45313035	-	chr20	45242191	45242334,45242334,45242364,45242364,45242364,45242364,45242364,45242364,45242334,45242364,45242334,45242364,45242364,45242364,45242334,45242364	-	ENST00000396360,ENST00000290317,ENST00000279027,ENST00000472148,ENST00000413164,ENST00000495082,ENST00000468915,ENST00000420568,ENST00000372121,ENST00000417157,ENST00000339636	8172-8179	8,1,42	CCLE-LCLL
chr20:45313035:->chr20:45242364:-	chr20	45312955	45313035	-	chr20	45242364	45242364,45242364,45242364,45242364,45242364,45242364	-	ENST00000279027,ENST00000413164,ENST00000420568,ENST00000372121,ENST00000339636	8180-8184	8,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr20:47256919:->chr20:47256432:-	chr20	47256819	47256919	-	chr20	47256432	47256432,47256432,47256432,47256432	-	ENST00000482556,ENST00000371941,ENST00000396220	8185-8188	4,3	CCLE-BRCA,CCLE-SARC
chr20:47281039:->chr20:47276599:-	chr20	47280951	47281039	-	chr20	47276599	47276599,47	-	ENST00000371941,ENST00000396220	8189-8192	30,29,23	CCLE-BRCA,CCLE-LCLL,CCLE-SARC
chr20:47373381:->chr20:47361684:-	chr20	47373303	47373381	-	chr20	47361684	47361684,47	-	ENST00000371941,ENST00000396220	8193-8196	8,20,40	CCLE-DLBC
chr20:47373381:->chr20:47364417:-	chr20	47373303	47373381	-	chr20	47364417	47364417,47	-	ENST00000371941,ENST00000396220	8197-8200	8,20,40	CCLE-BLCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr20:47504637:->chr20:47364417:-	chr20	47504566	47504637	-	chr20	47364417	47364417,47	-	ENST00000371941,ENST00000396220	8201-8204	8,19,47	CCLE-DLBC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-STAD
chr20:4841049:->chr20:4840030:-	chr20	4840819	4841049	-	chr20	4840030	4840030,4840030,4840030,4840030	-	ENST00000338244,ENST00000379333,ENST00000424750,ENST00000042343,0	8205-8209	8,46,10	CCLE-LCLL
chr20:4853477:->chr20:4850699:-	chr20	4853411	4853477	-	chr20	4850699	4850699,4850699,4850699,4850699	-	ENST00000338244,ENST00000379333,ENST00000424750,ENST00000042343,0	8210-8213	21,13,25	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr20:4853599:->chr20:4850699:-	chr20	4853411	4853599	-	chr20	4850699	4850699,4850699,4850699,4850699	-	ENST00000338244,ENST00000379333,ENST00000424750,ENST00000042343,0	8214-8217	34,25	CCLE-BRCA,CCLE-DLBC,CCLE-SKCM
chr20:4853631:->chr20:4850699:-	chr20	4853411	4853631	-	chr20	4850699	4850699,4850699,4850699,4850699	-	ENST00000338244,ENST00000379333,ENST00000424750,ENST00000042343,0	8218-8221	24,23,14	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM
chr20:56924934:+>chr20:56928329:+	chr20	56924821	56924934	+	chr20	56928329	56928400	+	ENST00000244040	8222-8224	38,2,36	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM
chr20:58573800:+>chr20:58574641:+	chr20	58573716	58573800	+	chr20	58574641	58574718,58574718,58574718,58574718,58574718,58574718	+	ENST00000244047,ENST00000348616,ENST00000370991,ENST00000244049,ENST00000350849,ENST00000456106	8225-8232	8,5,1	CCLE-BLCA,CCLE-LUSC
chr20:60835987:+>chr20:60838672:+	chr20	60835762	60835987	+	chr20	60838672	60838747,61	+	ENST00000313733,ENST00000358053	8233-8235	7,36,31	CCLE-BRCA,CCLE-COAD,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr20:61301878:+>chr20:61303102:+	chr20	61301672	61301878	+	chr20	61303102	61303245,61303245,61303245	+	ENST00000217159,ENST00000370507,ENST00000451793	8236-8238	69,55,28	CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr20:61368355:+>chr20:61386037:+	chr20	61368111	61368355	+	chr20	61386037	61386238	+	ENST00000370501	8239-8241	34,28,1	CCLE-COAD
chr20:61368391:+>chr20:61386037:+	chr20	61368111	61368391	+	chr20	61386037	61386238	+	ENST00000370501	8242-8244	46,8,40	CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr20:61385398:+>chr20:61386037:+	chr20	61385281	61385398	+	chr20	61386037	61386238	+	ENST00000370501	8245-8247	39,4	CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr20:61385405:+>chr20:61386037:+	chr20	61385281	61385405	+	chr20	61386037	61386238	+	ENST00000370501	8248-8250	41,42	CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr20:61390895:+>chr20:61391370:+	chr20	61390849	61390895	+	chr20	61391370	61391619	+	ENST00000370501	8251-8253	1,8,15	CCLE-COAD,CCLE-LUSC,CCLE-PAAD
chr20:61882315:->chr20:61881424:-	chr20	61882306	61882315	-	chr20	61881424	61881424	-	ENST00000370316	8254-8256	25,38,6	CCLE-LUSC
chr21:22568667:+>chr21:22652898:+	chr21	22568439	22568667	+	chr21	22652898	22652972,23	+	ENST00000400546,ENST00000535285	8257-8260	17,2,19	CCLE-DLBC
chr21:22569337:+>chr21:22652898:+	chr21	22569074	22569337	+	chr21	22652898	22652972,23	+	ENST00000400546,ENST00000535285	8261-8264	10,28,38	CCLE-DLBC
chr21:27288399:->chr21:27284274:-	chr21	27288396	27288399	-	chr21	27284274	27284274,27284274,27284274,27284274,27284274,27284274,27284274,27284274,27284274,27284274	-	ENST00000346798,ENST00000354192,ENST00000348990,ENST00000357903,ENST00000358918,ENST00000359726,ENST00000448388,ENST00000440126,ENST00000439274,ENST00000456209	8265-8269	22,18,5	CCLE-COAD,CCLE-LUSC
chr21:27403804:->chr21:27394358:-	chr21	27403728	27403804	-	chr21	27394358	27394358,27394358,27394358,27394358,27394358,27394358,27394358,27394358,27394358,27394358	-	ENST00000346798,ENST00000354192,ENST00000348990,ENST00000357903,ENST00000358918,ENST00000359726,ENST00000448388,ENST00000440126,ENST00000439274,ENST00000448850,ENST00000415997	8270-8277	19,8	CCLE-BRCA
chr21:27421674:->chr21:27394358:-	chr21	27421643	27421674	-	chr21	27394358	27394358,27394358,27394358,27394358,27394358,27394358,27394358,27394358,27394358,27394358	-	ENST00000346798,ENST00000354192,ENST00000348990,ENST00000357903,ENST00000358918,ENST00000359726,ENST00000448388,ENST00000440126,ENST00000439274,ENST00000448850,ENST00000415997	8278-8285	7	CCLE-LIHC,CCLE-LUSC
chr21:27430351:->chr21:27425664:-	chr21	27430269	27430351	-	chr21	27425664	27425664,27425664,27425664,27425664,27425664,27425664,27425664,27425664,27425664,27425664	-	ENST00000346798,ENST00000354192,ENST00000348990,ENST00000357903,ENST00000358918,ENST00000359726,ENST00000448388,ENST00000440126,ENST00000439274,ENST00000448850	8286-8292	7,17	CCLE-SARC
chr21:27516319:->chr21:27484463:-	chr21	27516236	27516319	-	chr21	27484463	27484463,27484463,27484463,27484463,27484463,27484463	-	ENST00000346798,ENST00000348990,ENST00000357903,ENST00000358918,ENST00000359726,ENST00000440126	8293-8299	8,45,1	CCLE-LCLL
chr21:27529637:->chr21:27484463:-	chr21	27529397	27529637	-	chr21	27484463	27484463,27484463,27484463,27484463,27484463,27484463	-	ENST00000346798,ENST00000348990,ENST00000357903,ENST00000358918,ENST00000359726,ENST00000440126	8300-8306	17,1,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr21:34630218:+>chr21:34632902:+	chr21	34630215	34630218	+	chr21	34632902	34633032,34633032,34633032,34633032,34633032,34633032	+	ENST00000382264,ENST00000382241,ENST00000404220,ENST00000342136,ENST00000443073	8307-8310	2,1	CCLE-LCLL
chr21:34783877:+>chr21:34787195:+	chr21	34783774	34783877	+	chr21	34787195	34787327,35	+	ENST00000290219,ENST00000381995	8311-8313	8,35,29	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SKCM,CCLE-STAD
chr21:34783881:+>chr21:34787195:+	chr21	34783774	34783881	+	chr21	34787195	34787327,35	+	ENST00000290219,ENST00000381995	8314-8315	36,31	CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr21:34783881:+>chr21:34793787:+	chr21	34783774	34783881	+	chr21	34793787	34793992,34793992,34793992,34793992	+	ENST00000290219,ENST00000381995,ENST00000545369	8316-8318	36,31	CCLE-DLBC,CCLE-LUSC
chr21:41099919:+>chr21:41137462:+	chr21	41099916	41099919	+	chr21	41137462	41137779	+	ENST00000380588	8319-8321	2,1	CCLE-BRCA,CCLE-COAD,CCLE-LUSC,CCLE-PAAD
chr21:41692534:->chr21:41684286:-	chr21	41692451	41692534	-	chr21	41684286	41684286,42	-	ENST00000400454,ENST00000404019	8322-8325	46,21,8	CCLE-BRCA
chr21:41692596:->chr21:41684286:-	chr21	41692451	41692596	-	chr21	41684286	41684286,42	-	ENST00000400454,ENST00000404019	8326-8329	5,25,1	CCLE-BRCA
chr21:42582959:+>chr21:42598193:+	chr21	42582114	42582959	+	chr21	42598193	42598281,42598281,42598281,42598281	+	ENST00000328735,ENST00000330333,ENST00000347667	8330-8334	2,35,48	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr21:42643276:+>chr21:42647298:+	chr21	42643209	42643276	+	chr21	42647298	42647354,42647551,42647551,42647551	+	ENST00000328735,ENST00000330333,ENST00000347667	8335-8338	14,1,12	CCLE-SKCM

chr21:42864922:->chr21:42861520:-	chr21	42864885	42864922	-	chr21	42861520	42861520,42861520,42861520,42861520	-	ENST00000332149,ENST00000398585,ENST00000458356,ENST00000454499,ENST00000424093	8339-8343	23,58,24	CCLE-BRCA,CCLE-COAD,CCLE-PRAD
chr21:42872271:->chr21:42870116:-	chr21	42872251	42872271	-	chr21	42870116	42870116	-	ENST00000398585	8344-8346	21,36,40	CCLE-COAD
chr21:45653481:->chr21:45651327:-	chr21	45653448	45653481	-	chr21	45651327	45651327,45651327,45651327,45651327	-	ENST00000344330,ENST00000407780,ENST00000400379,ENST00000400377	8347-8351	1,15,21	CCLE-DLBC,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr21:45653692:->chr21:45651327:-	chr21	45653448	45653692	-	chr21	45651327	45651327,45651327,45651327,45651327	-	ENST00000344330,ENST00000407780,ENST00000400379,ENST00000400377	8352-8356	66,7,25	CCLE-BRCA
chr21:47886752:+>chr21:47904670:+	chr21	47886559	47886752	+	chr21	47904670	47904741,47904741,47904741,47904741,47904741,47904741	+	ENST00000400274,ENST00000318711,ENST00000457905,ENST00000466639,ENST00000435722,ENST00000417564	8357-8364	19,64,17	CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SARC
chr21:47966344:+>chr21:47966828:+	chr21	47966230	47966344	+	chr21	47966828	47966955,47966955,47966955,47966959,47966955	+	ENST00000400274,ENST00000427143,ENST00000318711,ENST00000457905,ENST00000466639,ENST00000435722,ENST00000417564	8365-8369	39,17	CCLE-LCLL,CCLE-LUSC
chr21:47976410:+>chr21:47976852:+	chr21	47976315	47976410	+	chr21	47976852	47976982,47976982	+	ENST00000400274,ENST00000318711,ENST00000417564	8370-8372	32,23	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr21:47976410:+>chr21:47977498:+	chr21	47976315	47976410	+	chr21	47977498	47977666,47977666	+	ENST00000400274,ENST00000318711,ENST00000417564	8373-8375	32,23	CCLE-ESCA,CCLE-STAD
chr21:47976413:+>chr21:47976852:+	chr21	47976315	47976413	+	chr21	47976852	47976982,47976982	+	ENST00000400274,ENST00000318711,ENST00000417564	8376-8377	33	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr21:47976413:+>chr21:47977498:+	chr21	47976315	47976413	+	chr21	47977498	47977666,47977666	+	ENST00000400274,ENST00000318711,ENST00000417564	8378-8380	33,24	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr21:47976466:+>chr21:47977498:+	chr21	47976315	47976466	+	chr21	47977498	47977666,47977666	+	ENST00000400274,ENST00000318711,ENST00000417564	8381-8383	11,6,50	CCLE-DLBC
chr22:21102224:->chr22:21101990:-	chr22	21102033	21102224	-	chr22	21101990	21101990,21	-	ENST00000255882,ENST00000572273	8384-8385	34,22	CCLE-DLBC
chr22:21111991:->chr22:21107468:-	chr22	2111184D	21111991	-	chr22	21107468	21107468,21	-	ENST00000255882,ENST00000572273	8386-8388	12,2,38	CCLE-LCLL,CCLE-LUSC
chr22:21138009:->chr22:21119981:-	chr22	21137968	21138009	-	chr22	21119981	21119981,21	-	ENST00000255882,ENST00000572273	8389-8391	10,5,2	CCLE-SKCM
chr22:21176899:->chr22:21174899:-	chr22	21176636	21176899	-	chr22	21174899	21174899,21	-	ENST00000255882,ENST00000572273	8392-8394	1,39,3	CCLE-LCLL,CCLE-STAD
chr22:22045754:+>chr22:22048105:+	chr22	22045688	22045754	+	chr22	22048105	22048161,22048161,22048161,22048161,22048161,22048161	+	ENST00000412327,ENST00000335025,ENST00000492445,ENST00000398831,ENST00000406385,ENST00000456792	8395-8399	23,22,13	CCLE-BRCA,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr22:22045786:+>chr22:22048105:+	chr22	22045688	22045786	+	chr22	22048105	22048161,22048161,22048161,22048161,22048161,22048161	+	ENST00000412327,ENST00000335025,ENST00000492445,ENST00000398831,ENST00000406385,ENST00000456792	8400-8404	33,2,24	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr22:22894387:->chr22:22893511:-	chr22	22894196	22894387	-	chr22	22893511	22893511,22893511,22893511,22893511,22893511,22893511	-	ENST00000398743,ENST00000398741,ENST00000543184,ENST00000405655,ENST00000402697,ENST00000439106,ENST00000438888,ENST00000420709,ENST00000406503,ENST00000442481,ENST00000403441	8405-8414	9,8,4	CCLE-LUSC
chr22:22899965:->chr22:22892756:-	chr22	22899861	22899965	-	chr22	22892756	22892756,22892756,22892756,22892756,22892756,22892756	-	ENST00000398743,ENST00000398741,ENST00000543184,ENST00000405655,ENST00000539862,ENST00000440697,ENST00000424204,ENST00000439106,ENST00000438888,ENST00000420709	8415-8423	3,2	CCLE-LUSC
chr22:23062229:+>chr22:23063340:+	chr22	23062012	23062229	+	chr22	23063340	23063630	+	ENST00000390309	8424-8426	7,21,12	CCLE-DLBC
chr22:23159053:+>chr22:23161954:+	chr22	23159021	23159053	+	chr22	23161954	23162253	+	ENST00000390316	8427-8429	11,1	CCLE-LCLL
chr22:29218167:+>chr22:29383064:+	chr22	29218110	29218167	+	chr22	29383064	29383189,29383189,29383189,29383189,29383189,29383189	+	ENST00000544604,ENST00000332811,ENST00000402174,ENST00000406323	8430-8432	19,9,1	CCLE-BRCA,CCLE-LUSC
chr22:29317576:+>chr22:29383064:+	chr22	29317444	29317576	+	chr22	29383064	29383189,29383189,29383189,29383189,29383189,29383189	+	ENST00000544604,ENST00000332811,ENST00000402174,ENST00000406323	8433-8434	16,3	CCLE-COAD
chr22:29519837:+>chr22:29521251:+	chr22	29519807	29519837	+	chr22	29521251	29521404,29521404,29521404,29521404,29521404,29521404	+	ENST00000400338,ENST00000400335,ENST00000327813,ENST00000407188,ENST00000453585	8435-8441	3,7,1	CCLE-COAD
chr22:29559311:+>chr22:29563032:+	chr22	29559004	29559311	+	chr22	29563032	29563094	+	ENST00000327813	8442-8444	3,52,27	CCLE-DLBC
chr22:32748864:->chr22:32650200:-	chr22	32748851	32748864	-	chr22	32650200	32650200	-	ENST00000266086	8445-8447	48,6	CCLE-CESC,CCLE-LUSC
chr22:38514968:->chr22:38512218:-	chr22	38514751	38514968	-	chr22	38512218	38512218,38512218,38512218,38512218,38512218,38512218	-	ENST00000332509,ENST00000335539,ENST00000402064,ENST00000454670	8448-8449	11,25	CCLE-LCLL,CCLE-SKCM
chr22:38559422:->chr22:38541660:-	chr22	38559397	38559422	-	chr22	38541660	38541660,38541660,38541660,38541660,38541660,38541660	-	ENST00000332509,ENST00000335539,ENST00000402064,ENST00000436218,ENST00000455341	8450-8456	12,105,44	CCLE-COAD,CCLE-LCLL
chr22:38561341:->chr22:38541660:-	chr22	38561232	38561341	-	chr22	38541660	38541660,38541660,38541660,38541660,38541660,38541660	-	ENST00000332509,ENST00000335539,ENST00000402064,ENST00000436218,ENST00000455341	8457-8459	20,25	CCLE-COAD,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr22:42829373:->chr22:42807742:-	chr22	42829313	42829373	-	chr22	42807742	42807742,43	-	ENST00000329021,ENST00000355469	8460-8463	23,48,49	CCLE-LUSC
chr22:42832025:->chr22:42807742:-	chr22	42831813	42832025	-	chr22	42807742	42807742,43	-	ENST00000329021,ENST00000355469	8464-8467	11,34,25	CCLE-LCLL
chr22:43333336:->chr22:43289619:-	chr22	43333015	43333336	-	chr22	43289619	43289619,43289619,43289619,43289619,43289619,43289619	-	ENST00000263246,ENST00000337959,ENST00000407585,ENST00000403744,ENST00000402229,ENST00000453643,ENST00000418133,ENST00000422336,ENST00000453079	8468-8475	12,11	CCLE-LIHC,CCLE-LUSC,CCLE-SKCM
chr22:43386482:->chr22:43289619:-	chr22	43386367	43386482	-	chr22	43289619	43289619,43289619,43289619,43289619,43289619,43289619	-	ENST00000263246,ENST00000337959,ENST00000407585,ENST00000403744,ENST00000402229,ENST00000453643,ENST00000418133,ENST00000422336,ENST00000453079	8476-8483	29,77,37	CCLE-LUSC
chr22:43521570:+>chr22:43523703:+	chr22	43521430	43521570	+	chr22	43523703	43523801	+	ENST00000216115	8484-8485	7,18	CCLE-HNSC
chr22:43622685:->chr22:43619222:-	chr22	43622083	43622685	-	chr22	43619222	43619222	-	ENST00000360835	8486-8487	1,5	CCLE-LUSC
chr22:44545731:+>chr22:44547363:+	chr22	44545636	44545731	+	chr22	44547363	44547431,44547431,44547431	+	ENST00000406477,ENST00000338758,ENST00000404989	8488-8490	3,19,9	CCLE-SKCM
chr22:44589180:+>chr22:44589681:+	chr22	44589128	44589180	+	chr22	44589681	44589703,44589703,44589703	+	ENST00000422871,ENST00000444313,ENST00000415224	8491-8493	10,17,14	CCLE-LCLL
chr22:44589250:+>chr22:44589681:+	chr22	44589128	44589250	+	chr22	44589681	44589703,44589703,44589703	+	ENST00000422871,ENST00000444313,ENST00000415224	8494-8496	33,41,17	CCLE-LCLL
chr22:46829813:->chr22:46829378:-	chr22	46829570	46829813	-	chr22	46829378	46829378	-	ENST00000262738	8497-8499	22,23	CCLE-DLBC
chr22:46887031:->chr22:46860242:-	chr22	46887006	46887031	-	chr22	46860242	46860242,46860242,46860242	-	ENST00000262738,ENST00000395964,ENST00000454637	8500-8503	22,34	CCLE-ESCA
chr3:10176610:+>chr3:10188198:+	chr3	10176238	10176610	+	chr3	10188198	10188320	+	ENST00000256474	8504-8506	28,23,55	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr3:105121285:+>chr3:105238911:+	chr3	105121096	105121285	+	chr3	105238911	105239011,1	+	ENST00000306107,ENST00000472644	8507-8510	5,59,2	CCLE-LUSC,CCLE-PAAD
chr3:107815933:->chr3:107799191:-	chr3	107815864	107815933	-	chr3	107799191	107799191,1	-	ENST00000355354,ENST00000361309	8511-8512	4,35	CCLE-LCLL
chr3:111622911:+>chr3:111632166:+	chr3	111622843	111622911	+	chr3	111632166	111632549,111632549,111632549,111632549,111632549,111632549	+	ENST00000393923,ENST00000412622,ENST00000431670,ENST00000498699,ENST00000477695,ENST00000039325,ENST00000481953,ENST00000495180	8513-8519	1,23,14	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC

chr3:113649884:+>chr3:113652358:+	chr3	113649767	113649884	+	chr3	113652358	113652500,113652500,113652500,113652500	+	ENST00000358160,ENST00000452134,ENST00000472026,ENST00000462838,ENST00000440446	8520-8523	19,23,1	CCLE-BRCA,CCLE-ESCA,CCLE-LUSC,CCLE-MM
chr3:115089544:+>chr3:115394860:+	chr3	115089249	115089544	+	chr3	115394860	115395457,1	+	ENST00000305124,ENST00000393780	8524-8526	8,42,45	CCLE-ESCA,CCLE-LUSC
chr3:116911891:->chr3:116163802:-	chr3	116911809	116911891	-	chr3	116163802	116163878,116163830,116163802,116163802	-	ENST00000490035,ENST00000333617,ENST00000539563,ENST00000474851	8527-8531	8,20,47	CCLE-DLBC
chr3:119668542:->chr3:119666198:-	chr3	119668152	119668542	-	chr3	119666198	119666198,1	-	ENST00000264235,ENST00000316626	8532-8535	6,1	CCLE-LUSC
chr3:119951845:->chr3:119912271:-	chr3	119951723	119951845	-	chr3	119912271	119912271,119912271,119912271	-	ENST00000315843,ENST00000464295,ENST00000461057	8536-8539	48,1,32	CCLE-LGG,CCLE-LUSC
chr3:120866918:+>chr3:120871324:+	chr3	120866457	120866918	+	chr3	120871324	120871407,120871407,120871407,120871407,120871407,120871407	+	ENST00000273666,ENST00000471454,ENST00000472879,ENST00000492541,ENST00000497029,ENST00000471262	8540-8547	59,58,2	CCLE-LUSC
chr3:121015461:+>chr3:121037322:+	chr3	121015413	121015461	+	chr3	121037322	121037387,121037387,121037387,121037387,121037387,121037387	+	ENST00000273666,ENST00000471454,ENST00000472879,ENST00000492541,ENST00000497029,ENST00000471262	8548-8553	11,12,10	CCLE-LUSC
chr3:121698516:+>chr3:121810448:+	chr3	121698249	121698516	+	chr3	121810448	121810497,121810497,121810497,121810497	+	ENST00000493101,ENST00000264468,ENST00000330540,ENST00000478741	8554-8559	21,8,38	CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC
chr3:121753602:->chr3:121726008:-	chr3	121753518	121753602	-	chr3	121726008	121726008,121726008,121726008,121726102	-	ENST00000273691,ENST00000344209,ENST00000393631,ENST00000462014	8560-8564	8,4,42	CCLE-LCLL
chr3:121766690:->chr3:121726008:-	chr3	121760759	121766690	-	chr3	121726008	121726008,121726008,121726008,121726102	-	ENST00000273691,ENST00000344209,ENST00000393631,ENST00000462014	8565-8569	14,7,32	CCLE-BLCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr3:123034582:->chr3:123033169:-	chr3	123034429	123034582	-	chr3	123033169	123033169,123033169,123033169,123033169	-	ENST00000462833,ENST00000491190,ENST00000309879,ENST00000466617	8570-8573	6,41	CCLE-BRCA,CCLE-LUSC
chr3:124782983:->chr3:124748332:-	chr3	124782900	124782983	-	chr3	124748332	124748332	-	ENST00000311127	8574-8576	8,20,4	CCLE-LIHC,CCLE-LUSC,CCLE-SARC
chr3:125754055:->chr3:125752521:-	chr3	125753932	125754055	-	chr3	125752521	125752521,125752521,125752521,125752521,125752521,125752521,125752521,125752521,125752521,125752521,125752521,125752521,125752521,125752521,125752521,125752521	-	ENST00000360370,ENST00000346785,ENST00000383598,ENST00000315881,ENST00000508835,ENST00000507008,ENST00000514677,ENST00000513723,ENST00000512470,ENST00000514333,ENST00000507280,ENST00000514891,ENST00000504035,ENST00000509064	8577-8592	30,16,37	CCLE-LUSC,CCLE-SARC
chr3:12656588:->chr3:12653561:-	chr3	12656517	12656588	-	chr3	12653561	12653561,13	-	ENST00000251849,ENST00000442415	8593-8596	9,11,25	CCLE-LUSC
chr3:127832092:->chr3:127831863:-	chr3	127832075	127832092	-	chr3	127831863	127831863,127831863,127831863	-	ENST00000464873,ENST00000322623,ENST00000417360	8597-8601	16,9,13	CCLE-LGG
chr3:127834124:->chr3:127831863:-	chr3	127833952	127834124	-	chr3	127831863	127831863,127831863,127831863	-	ENST00000464873,ENST00000322623,ENST00000417360	8602-8602	1	CCLE-DLBC
chr3:127866072:->chr3:127831863:-	chr3	127865931	127866072	-	chr3	127831863	127831863,127831863,127831863	-	ENST00000464873,ENST00000322623,ENST00000417360	8603-8607	12,2,38	CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr3:127866072:->chr3:127838257:-	chr3	127865931	127866072	-	chr3	127838257	127838257,1	-	ENST00000322623,ENST00000417360	8608-8611	12,2,38	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr3:127872046:->chr3:127831863:-	chr3	127871500	127872046	-	chr3	127831863	127831863,127831863,127831863	-	ENST00000464873,ENST00000322623,ENST00000417360	8612-8616	9,7	CCLE-DLBC
chr3:127872046:->chr3:127838257:-	chr3	127871500	127872046	-	chr3	127838257	127838257,1	-	ENST00000322623,ENST00000417360	8617-8620	9,7	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr3:129287350:->chr3:129286648:-	chr3	129287320	129287350	-	chr3	129286648	129286648,1	-	ENST00000324093,ENST00000393239	8621-8624	12,6,10	CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr3:132058927:+>chr3:132061396:+	chr3	132058877	132058927	+	chr3	132061396	132061488,132061423,132061488,132061488	+	ENST00000336375,ENST00000495911,ENST00000475741,ENST00000351273	8625-8630	17,8	CCLE-PRAD
chr3:133168717:+>chr3:133169147:+	chr3	133168442	133168717	+	chr3	133169147	133169308	+	ENST00000302334	8631-8633	13,2,35	CCLE-DLBC
chr3:138092176:+>chr3:138116166:+	chr3	138092146	138092176	+	chr3	138116166	138116319,138116319,138116319	+	ENST00000289104,ENST00000423968,ENST00000474559	8634-8636	2,10,9	CCLE-LUSC
chr3:138191935:+>chr3:138192378:+	chr3	138191908	138191935	+	chr3	138192378	138192476	+	ENST00000389567	8637-8638	8,9	CCLE-BRCA,CCLE-LUSC,CCLE-SARC
chr3:141643249:+>chr3:141644373:+	chr3	141643199	141643249	+	chr3	141644373	141644543,1	+	ENST00000286371,ENST00000462082	8639-8641	17,8	CCLE-LUSC
chr3:142133538:->chr3:142133133:-	chr3	142133340	142133538	-	chr3	142133133	142133133,1	-	ENST00000264951,ENST00000392981	8642-8645	33,2,24	CCLE-DLBC,CCLE-LUSC,CCLE-MM
chr3:146247549:->chr3:146246618:-	chr3	146247290	146247549	-	chr3	146246618	146246618,146246618,146246618,146246618	-	ENST00000342435,ENST00000487389,ENST00000462666,ENST00000472349	8646-8650	15,1,8	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr3:146263405:->chr3:146251337:-	chr3	146263229	146263405	-	chr3	146251337	146251337,146251337,146251337,146251337,146251337,146251337,146251337,146251337,146251337	-	ENST00000342435,ENST00000493432,ENST00000463777,ENST00000468985,ENST00000488253,ENST00000489775,ENST00000478267,ENST00000462666,ENST00000472349	8651-8655	4,37	CCLE-DLBC
chr3:146279765:->chr3:146251337:-	chr3	146279492	146279765	-	chr3	146251337	146251337,146251337,146251337,146251337,146251337,146251337,146251337,146251337,146251337	-	ENST00000342435,ENST00000493432,ENST00000463777,ENST00000468985,ENST00000488253,ENST00000489775,ENST00000478267,ENST00000462666,ENST00000472349	8656-8662	18,1,6	CCLE-ESCA,CCLE-LGG
chr3:149264748:->chr3:149260324:-	chr3	149264585	149264748	-	chr3	149260324	149260324,149260324,149260324,149260324	-	ENST00000465804,ENST00000360632,ENST00000467467,ENST00000472417	8663-8665	4,3	CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr3:15122562:->chr3:15122309:-	chr3	15122525	15122562	-	chr3	15122309	15122309,15122309,15122309,15122309	-	ENST00000253699,ENST00000476527,ENST00000426541,ENST00000435849	8666-8671	19,32,11	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr3:157069406:->chr3:157034990:-	chr3	157069394	157069406	-	chr3	157034990	157034990,157034990,157034990,157034990	-	ENST00000543418,ENST00000392833,ENST00000362010,ENST00000392832	8672-8675	4,49,1	CCLE-SKCM
chr3:16487866:->chr3:16475544:-	chr3	16487811	16487866	-	chr3	16475544	16475544,16475544,16475544,16475544,16475544,16475544	-	ENST00000432519,ENST00000334133,ENST00000451036,ENST00000449415,ENST00000441460,ENST00000453536,ENST00000431547	8676-8682	4,1,11	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr3:16493288:->chr3:16475544:-	chr3	16493041	16493288	-	chr3	16475544	16475544,16475544,16475544,16475544,16475544,16475544	-	ENST00000432519,ENST00000334133,ENST00000451036,ENST00000449415,ENST00000441460,ENST00000453536,ENST00000431547	8683-8689	1,3,15	CCLE-DLBC
chr3:170138615:+>chr3:170140951:+	chr3	170138572	170138615	+	chr3	170140951	170141115,170141115,170141115	+	ENST00000064724,ENST00000486975,ENST00000451576	8690-8693	15,14	CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-LUSC,CCLE-OV,CCLE-SKCM
chr3:172377959:->chr3:172365904:-	chr3	172377778	172377959	-	chr3	172365904	172365904,172365904,172365904,172365904	-	ENST00000475381,ENST00000273512,ENST00000538775,ENST00000424772	8694-8698	6,8,46	CCLE-CESC
chr3:183693330:->chr3:183689707:-	chr3	183693137	183693330	-	chr3	183689707	183689707,2	-	ENST00000334444,ENST00000265586	8699-8701	11,25	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr3:185262490:->chr3:185252920:-	chr3	185262441	185262490	-	chr3	185252920	185252920,2	-	ENST00000296252,ENST00000424591	8702-8705	3,9	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD

chr3:190256720:+>chr3:190321917:+	chr3	190256470	190256720	+	chr3	190321917	190322202,190322202,190322202,190322202,190322191,190322202,190322202,190322202,190322202,190322202	+	ENST00000412504,ENST00000072516,ENST00000443369,ENST00000439062,ENST00000447382,ENST00000422625,ENST00000422485,ENST00000422940,ENST00000342550,ENST00000413869,ENST00000317757,ENST00000453359	8706-8707	1,31	CCLE-DLBC
chr3:190304127:+>chr3:190321917:+	chr3	190303847	190304127	+	chr3	190321917	190322202,190322202,190322202,190322202,190322191,190322202,190322202,190322202,190322202,190322202	+	ENST00000412504,ENST00000072516,ENST00000443369,ENST00000439062,ENST00000447382,ENST00000422625,ENST00000422485,ENST00000422940,ENST00000342550,ENST00000413869,ENST00000317757,ENST00000453359	8708-8714	6,5	CCLE-LUSC
chr3:190360191:+>chr3:190362037:+	chr3	190359952	190360191	+	chr3	190362037	190362186,190362186,190362186,190362186,190362186,190362175,190362186	+	ENST00000412504,ENST00000072516,ENST00000443369,ENST00000439062,ENST00000447382,ENST00000342550,ENST00000413869,ENST00000317757	8715-8719	62,13,8	CCLE-DLBC,CCLE-SKCM
chr3:195599543:->chr3:195599341:-	chr3	195599537	195599543	-	chr3	195599341	195599341,195599341,195599341,195599341,195599341,195599341,195599341	-	ENST00000381916,ENST00000333602,ENST00000428187,ENST00000392400,ENST00000439230,ENST00000424563,ENST00000411741,ENST00000316664	8720-8727	11,33,4	CCLE-COAD,CCLE-PAAD,CCLE-STAD
chr3:195788242:->chr3:195787118:-	chr3	195788211	195788242	-	chr3	195787118	195787118,195787118,195787118,195787118	-	ENST00000420415,ENST00000360110,ENST00000392396,ENST00000530031	8728-8730	6,4	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SKCM,CCLE-STAD
chr3:195947326:+>chr3:195953836:+	chr3	195947186	195947326	+	chr3	195953836	195953990,2	+	ENST00000296327,ENST00000428985	8731-8734	12,2,38	CCLE-DLBC,CCLE-LCLL
chr3:196295847:+>chr3:196296012:+	chr3	196295798	196295847	+	chr3	196296012	196296173	+	ENST00000311630	8735-8737	17,3	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr3:196381964:+>chr3:196386623:+	chr3	196381826	196381964	+	chr3	196386623	196388593	+	ENST00000328557	8738-8740	24,12,17	CCLE-LCLL
chr3:196385825:+>chr3:196386623:+	chr3	196385555	196385825	+	chr3	196386623	196388593	+	ENST00000328557	8741-8743	13,2,35	CCLE-DLBC,CCLE-LCLL,CCLE-MM,CCLE-SKCM
chr3:196510437:+>chr3:196528798:+	chr3	196510307	196510437	+	chr3	196528798	196528898	+	ENST00000327134	8744-8746	13,22,35	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr3:196742666:->chr3:196742387:-	chr3	196742610	196742666	-	chr3	196742387	196742387	-	ENST00000296350	8747-8749	45,3	CCLE-LCLL,CCLE-SKCM
chr3:196745271:->chr3:196744161:-	chr3	196745026	196745271	-	chr3	196744161	196744161	-	ENST00000296350	8750-8752	17,8	CCLE-DLBC,CCLE-SKCM
chr3:196800318:->chr3:196796131:-	chr3	196800239	196800318	-	chr3	196796131	196796131,196796131,196796131,196796131,196796131,196796131,196796131,196796131	-	ENST00000314062,ENST00000346964,ENST00000357674,ENST00000419354,ENST00000452595,ENST00000422288,ENST00000448528,ENST00000443183,ENST00000450955,ENST00000392382	8753-8755	22,47	CCLE-BLCA,CCLE-COAD,CCLE-DLBC
chr3:196812148:->chr3:196807988:-	chr3	196812023	196812148	-	chr3	196807988	196807988,196807988,196807988,196807988,196807988,196807988,196807988,196807988	-	ENST00000314062,ENST00000346964,ENST00000357674,ENST00000419354,ENST00000452595,ENST00000422288,ENST00000448528,ENST00000443183,ENST00000450955,ENST00000392382	8756-8760	5,13,14	CCLE-LUSC
chr3:20012209:+>chr3:20017093:+	chr3	20012193	20012209	+	chr3	20017093	20017244,2	+	ENST00000273047,ENST00000412966	8761-8765	6,5	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr3:20024804:+>chr3:20025200:+	chr3	20024547	20024804	+	chr3	20025200	20025315,2	+	ENST00000273047,ENST00000422242	8766-8767	9,11	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr3:27420497:->chr3:27418336:-	chr3	27420406	27420497	-	chr3	27418336	27418336,27418336,27418336,27418336,27418336,27418336,27418336,27418336	-	ENST00000419036,ENST00000295736,ENST00000428386,ENST00000387777,ENST00000435667,ENST00000437179,ENST00000440156,ENST00000446700,ENST00000454389,ENST00000455077,ENST00000445684	8768-8770	27,14,1	CCLE-CESC,CCLE-DLBC,CCLE-LIHC,CCLE-LUSC,CCLE-SARC
chr3:27498826:->chr3:27493989:-	chr3	27498618	27498826	-	chr3	27493989	27493989,27493989,27493989,27493989,27493989,27493989,27493989,27493989,27493989,27493989,27493989,27493989,27493989,27493989,27493989,27493989	-	ENST00000295736,ENST00000428386,ENST00000425128,ENST00000436667,ENST00000437179,ENST00000438530,ENST00000440156,ENST00000446700,ENST00000454389,ENST00000455077,ENST00000457377,ENST00000445684,ENST00000437266,ENST00000428179	8771-8781	12,5,3	CCLE-LUSC
chr3:30665402:+>chr3:30686239:+	chr3	30665352	30665402	+	chr3	30686239	30686407,31	+	ENST00000295754,ENST00000359013	8782-8784	3,17,8	CCLE-THCA
chr3:30687932:+>chr3:30691762:+	chr3	30687806	30687932	+	chr3	30691762	30691952,31	+	ENST00000295754,ENST00000359013	8785-8787	9,37,2	CCLE-LUSC
chr3:30703131:+>chr3:30713130:+	chr3	30702945	30703131	+	chr3	30713130	30713929,31	+	ENST00000295754,ENST00000359013	8788-8790	40,1,6	CCLE-COAD,CCLE-LIHC,CCLE-LUSC
chr3:32181057:+>chr3:32181720:+	chr3	32180604	32181057	+	chr3	32181720	32181853,32181858,32181726,32181858,32181858	+	ENST00000429432,ENST00000282541,ENST00000428684,ENST00000425459,ENST00000431009	8791-8798	14,7,10	CCLE-COAD
chr3:32534075:->chr3:32533378:-	chr3	32533981	32534075	-	chr3	32533378	32533378	-	ENST00000205636	8799-8801	13,26,20	CCLE-CESC
chr3:33635535:->chr3:33633988:-	chr3	33635332	33635535	-	chr3	33633988	33633988,33633988,33633988,33633988,33633988,33633988,33633988,33633988	-	ENST00000468888,ENST00000399362,ENST00000539981,ENST00000307312,ENST00000359576,ENST00000480013,ENST00000461133	8802-8807	7,11	CCLE-LGG
chr3:33646062:->chr3:33645701:-	chr3	33645802	33646062	-	chr3	33645701	33645701,33645701,33645701,33645701,33645701,33645701,33645701,33645701	-	ENST00000468888,ENST00000399362,ENST00000539981,ENST00000307312,ENST00000359576,ENST00000480013,ENST00000461133,ENST00000313350,ENST00000487200,ENST00000333778	8808-8816	3,8,1	CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LUSC
chr3:33741293:->chr3:33738425:-	chr3	33741054	33741293	-	chr3	33738425	33738425,33738425,33738425	-	ENST00000468888,ENST00000399362,ENST00000359576	8817-8821	20,4	CCLE-CESC,CCLE-DLBC,CCLE-LUSC,CCLE-MM
chr3:38462858:+>chr3:38518778:+	chr3	38462746	38462858	+	chr3	38518778	38518985	+	ENST00000352511	8822-8824	18,38,5	CCLE-LCLL
chr3:39334283:->chr3:39308009:-	chr3	39334064	39334283	-	chr3	39308009	39308009	-	ENST00000358309	8825-8827	4,3	CCLE-LUSC
chr3:42670478:+>chr3:42672038:+	chr3	42670212	42670478	+	chr3	42672038	42672067	+	ENST00000232978	8828-8830	13,5,35	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM
chr3:43498891:->chr3:43474219:-	chr3	43498772	43498891	-	chr3	43474219	43474219,43474219,43474219,43474219,43474219,43474219,43474219,43474219	-	ENST00000292246,ENST00000350459,ENST00000396091,ENST00000451430,ENST00000448045	8831-8833	36,13,40	CCLE-SKCM
chr3:43578517:->chr3:43474219:-	chr3	43578376	43578517	-	chr3	43474219	43474219,43474219,43474219,43474219,43474219,43474219,43474219,43474219	-	ENST00000292246,ENST00000350459,ENST00000396091,ENST00000451430,ENST00000448045	8834-8836	3,1,11	CCLE-LUSC
chr3:44867798:+>chr3:44867924:+	chr3	44867705	44867798	+	chr3	44867924	44867952,44867952,44867952,44867952,44867952,44867952,44867952,44867952	+	ENST00000326047,ENST00000481166,ENST00000425755,ENST00000453693	8837-8842	21,1,32	CCLE-BRCA,CCLE-LUSC
chr3:44875253:+>chr3:44879767:+	chr3	44875226	44875253	+	chr3	44879767	44879913,45	+	ENST00000326047,ENST00000425755	8843-8845	1,9,2	CCLE-LUSC
chr3:44887389:+>chr3:44889477:+	chr3	44887096	44887389	+	chr3	44889477	44889549,44889549,44889549,44889549	+	ENST00000326047,ENST00000425755,ENST00000422209	8846-8847	5,11	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr3:45159404:->chr3:45153937:-	chr3	45159312	45159404	-	chr3	45153937	45153937,45	-	ENST00000296129,ENST00000425231	8848-8851	1,17,16	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr3:45749098:+>chr3:45750990:+	chr3	45748956	45749098	+	chr3	45750990	45751139,45751139,45751139,45751139,45751139,45751139,45751139,45751139	+	ENST00000455997,ENST00000418611,ENST00000389061,ENST00000441228,ENST00000438671,ENST00000445499,ENST00000541314	8852-8854	16,41	CCLE-LUSC
chr3:45813050:->chr3:45812950:-	chr3	45813017	45813050	-	chr3	45812950	45812950,45812950,45812950,45812950,45812950,45812950,45812950,45812950	-	ENST00000353278,ENST00000358525,ENST00000456124,ENST00000413781	8855-8856	23,6	CCLE-COAD,CCLE-LCLL

chr3:45821882:->chr3:45821592:-	chr3	45821832	45821882	-	chr3	45821592	45821592,45821592,45821592,45821592	-	ENST00000353278,ENST00000358525,ENST00000456124,ENST00000413781	8857-8862	3,24,7	CCLE-COAD
chr3:46449272:+>chr3:46449559:+	chr3	46449213	46449272	+	chr3	46449559	46450605	+	ENST00000357392	8863-8865	9,2,20	CCLE-DLBC
chr3:48846463:->chr3:48845117:-	chr3	48846254	48846463	-	chr3	48845117	48845117,48845117,48845117	-	ENST00000265563,ENST00000454963,ENST00000296446	8866-8869	17,8	CCLE-BLCA
chr3:48860538:->chr3:48845117:-	chr3	48860506	48860538	-	chr3	48845117	48845117,48845117,48845117	-	ENST00000265563,ENST00000454963,ENST00000296446	8870-8873	11,34,25	CCLE-LIHC,CCLE-STAD
chr3:49072618:->chr3:49070661:-	chr3	49072597	49072618	-	chr3	49070661	49070661,49070661,49070661	-	ENST00000395443,ENST00000357496,ENST00000424300	8874-8876	1,8,13	CCLE-COAD,CCLE-LGG,CCLE-LUSC
chr3:49080120:->chr3:49070661:-	chr3	49080010	49080120	-	chr3	49070661	49070661,49070661,49070661	-	ENST00000395443,ENST00000357496,ENST00000424300	8877-8879	1,27,8	CCLE-LCLL,CCLE-LUSC
chr3:49080165:->chr3:49070661:-	chr3	49080010	49080165	-	chr3	49070661	49070661,49070661,49070661	-	ENST00000395443,ENST00000357496,ENST00000424300	8880-8882	15,12,2	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr3:49085642:->chr3:49084679:-	chr3	49085552	49085642	-	chr3	49084679	49084679,49084679,49084679	-	ENST00000395443,ENST00000357496,ENST00000424300	8883-8885	1,9,7	CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr3:50268430:+>chr3:50289532:+	chr3	50268392	50268430	+	chr3	50289532	50289574,50289574,50289574,50289574,50289574	+	ENST00000422163,ENST00000446079,ENST00000313601,ENST00000451956,ENST00000266027	8886-8889	13,7	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr3:52509921:+>chr3:52510463:+	chr3	52509871	52509921	+	chr3	52510463	52510615,52510615,52510615,52510615	+	ENST00000479054,ENST00000345716,ENST00000488380,ENST00000420808	8890-8894	15,1,8	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr3:52897272:->chr3:52889460:-	chr3	52897204	52897272	-	chr3	52889460	52889460,53	-	ENST00000504329,ENST00000355083	8895-8898	19,38,8	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr3:53897091:+>chr3:53898773:+	chr3	53894643	53897091	+	chr3	53898773	53899335,54	+	ENST00000288167,ENST00000494338	8899-8902	2,3	CCLE-COAD
chr3:53961691:->chr3:53922510:-	chr3	53955775	53961691	-	chr3	53922510	53922510,53922510,53922510	-	ENST00000495461,ENST00000541726,ENST00000488746	8903-8906	22,15,8	CCLE-LUSC
chr3:53961735:->chr3:53922510:-	chr3	53955775	53961735	-	chr3	53922510	53922510,53922510,53922510	-	ENST00000495461,ENST00000541726,ENST00000488746	8907-8910	7,1,32	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-OV
chr3:57893954:+>chr3:57894803:+	chr3	57893772	57893954	+	chr3	57894803	57894877,57894877,57894877,57894877,57894877,57894877,57894877,57894877,57894877,57894877,57894877,57894877	+	ENST00000295951,ENST00000416870,ENST00000295952,ENST00000428312,ENST00000449503,ENST00000416658,ENST00000417128,ENST00000438794,ENST00000495364,ENST00000494088,ENST00000461354,ENST00000466255	8911-8918	4,16,3	CCLE-LUSC
chr3:58336271:+>chr3:58351601:+	chr3	58336263	58336271	+	chr3	58351601	58351651,58351651,58351651,58351651	+	ENST00000356151,ENST00000484288,ENST00000477308,ENST00000491164	8919-8924	3,1	CCLE-DLBC,CCLE-LCLL
chr3:63630920:+>chr3:63640438:+	chr3	63630847	63630920	+	chr3	63640438	63640472,63640472,63640472	+	ENST00000343837,ENST00000469440,ENST00000496807	8925-8929	16,4,6	CCLE-COAD,CCLE-ESCA,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-STAD
chr3:63630944:+>chr3:63640438:+	chr3	63630847	63630944	+	chr3	63640438	63640472,63640472,63640472	+	ENST00000343837,ENST00000469440,ENST00000496807	8930-8934	7,1,12	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr3:65595419:->chr3:65479306:-	chr3	65595248	65595419	-	chr3	65479306	65479306,65479306,65479306,65479306,65479306,65479306	-	ENST00000330909,ENST00000402939,ENST00000463103,ENST00000483466,ENST00000460329,ENST00000497477	8935-8941	22,17,41	CCLE-LGG,CCLE-LUSC
chr3:78690227:->chr3:78689048:-	chr3	78690208	78690227	-	chr3	78689048	78689048,78689048,78689048,78689048	-	ENST00000436010,ENST00000464233,ENST00000495273,ENST00000467549	8942-8946	3,1	CCLE-LUSC,CCLE-STAD
chr3:78740637:->chr3:78737922:-	chr3	78740584	78740637	-	chr3	78737922	78737922,78737922,78737922,78737922	-	ENST00000436010,ENST00000464233,ENST00000495273,ENST00000467549	8947-8951	2,1,14	CCLE-LGG,CCLE-LUSC
chr3:78765457:->chr3:78763674:-	chr3	78765375	78765457	-	chr3	78763674	78763674,78763674,78763674,78763674	-	ENST00000436010,ENST00000464233,ENST00000495273,ENST00000467549	8952-8956	8,20,46	CCLE-LUSC
chr3:85895996:+>chr3:85932441:+	chr3	85895735	85895996	+	chr3	85932441	85932593,85932593,85932593	+	ENST00000383699,ENST00000407528,ENST00000405615	8957-8960	13,2,11	CCLE-LUSC
chr3:9697862:+>chr3:9703951:+	chr3	9697607	9697862	+	chr3	9703951	9704059,9704059,9704059,9704059,9703969,9703973	+	ENST00000353332,ENST00000296003,ENST00000430020,ENST00000351233,ENST00000416864,ENST00000449543	8961-8969	13,35,21	CCLE-LUSC,CCLE-MM
chr3:9710608:+>chr3:9711116:+	chr3	9710542	9710608	+	chr3	9711116	9711176,9711176,9711176,9711176,9711176,9711176	+	ENST00000353332,ENST00000296003,ENST00000430020,ENST00000351233,ENST00000416864,ENST00000414996	8970-8975	23,22,13	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-PRAD,CCLE-SARC
chr3:9710640:+>chr3:9711116:+	chr3	9710542	9710640	+	chr3	9711116	9711176,9711176,9711176,9711176,9711176,9711176	+	ENST00000353332,ENST00000296003,ENST00000430020,ENST00000351233,ENST00000416864,ENST00000414996	8976-8981	33,2,24	CCLE-BLCA,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD
chr3:97952611:+>chr3:97983159:+	chr3	97952288	97952611	+	chr3	97983159	97984106	+	ENST00000383696	8982-8983	29,16	CCLE-LCLL
chr4:102104375:->chr4:102030235:-	chr4	102104243	102104375	-	chr4	102030235	102030235,102030235,102030235,102030235,102030235,102030235	-	ENST00000394854,ENST00000323055,ENST00000394853,ENST00000523694,ENST00000529324,ENST00000525819	8984-8990	67,9,13	CCLE-LCLL,CCLE-LUSC
chr4:103190802:->chr4:103189236:-	chr4	103190663	103190802	-	chr4	103189236	103189236,103189236,103189236	-	ENST00000424970,ENST00000394833,ENST00000356736	8991-8994	4,3	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-OV
chr4:103216732:->chr4:103189236:-	chr4	103216701	103216732	-	chr4	103189236	103189236,103189236,103189236	-	ENST00000424970,ENST00000394833,ENST00000356736	8995-8998	31,6,18	CCLE-PRAD
chr4:103244409:->chr4:103236987:-	chr4	103244377	103244409	-	chr4	103236987	103236987,103236987,103236987	-	ENST00000424970,ENST00000394833,ENST00000356736	8999-9002	4,24,46	CCLE-CESC
chr4:103264114:->chr4:103236987:-	chr4	103263956	103264114	-	chr4	103236987	103236987,103236987,103236987	-	ENST00000424970,ENST00000394833,ENST00000356736	9003-9006	6,5	CCLE-DLBC,CCLE-KIRC,CCLE-LCLL
chr4:103301960:->chr4:103236987:-	chr4	103295887	103301960	-	chr4	103236987	103236987,103236987,103236987	-	ENST00000424970,ENST00000394833,ENST00000356736	9007-9010	7,25,1	CCLE-COAD,CCLE-LUSC,CCLE-MM
chr4:103736401:->chr4:103731012:-	chr4	103736204	103736401	-	chr4	103731012	103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012	-	ENST00000453744,ENST00000394801,ENST00000394803,ENST00000394804,ENST00000343106,ENST00000321805,ENST00000350435,ENST00000338145,ENST00000349311,ENST00000357194,ENST00000505307,ENST00000510129,ENST00000502563,ENST00000508238,ENST00000514755,ENST00000508974,ENST00000502690,ENST00000503418,ENST00000508249	9011-9024	7,11,14	CCLE-BRCA,CCLE-HNSC,CCLE-LUSC
chr4:103736433:->chr4:103731012:-	chr4	103736204	103736433	-	chr4	103731012	103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012	-	ENST00000453744,ENST00000394801,ENST00000394803,ENST00000394804,ENST00000343106,ENST00000321805,ENST00000350435,ENST00000338145,ENST00000349311,ENST00000357194,ENST00000505307,ENST00000510129,ENST00000502563,ENST00000508238,ENST00000514755,ENST00000508974,ENST00000502690,ENST00000503418,ENST00000508249	9025-9038	1,21,3	CCLE-DLBC,CCLE-PAAD
chr4:103736446:->chr4:103731012:-	chr4	103736204	103736446	-	chr4	103731012	103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012,103731012	-	ENST00000453744,ENST00000394801,ENST00000394803,ENST00000394804,ENST00000343106,ENST00000321805,ENST00000350435,ENST00000338145,ENST00000349311,ENST00000357194,ENST00000505307,ENST00000510129,ENST00000502563,ENST00000508238,ENST00000514755,ENST00000508974,ENST00000502690,ENST00000503418,ENST00000508249	9039-9052	17,8	CCLE-HNSC
chr4:111332609:+>chr4:111397768:+	chr4	111332609	111332609	+	chr4	111397768	111398214	+	ENST00000265162	9053-9053	1	CCLE-COAD,CCLE-ESCA,CCLE-KIRC,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr4:111332609:+>chr4:111409697:+	chr4	111332609	111332609	+	chr4	111409697	111409838	+	ENST00000265162	9054-9054	1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-STAD

chr4:114263625:+>chr4:114264173:+	chr4	114263575	114263625	+	chr4	114264173	114264298,114264298,114264298,114264298,114264298,114264298,114264298,114264298	+	ENST00000503423,ENST00000506722,ENST00000504454,ENST00000394537,ENST00000357077,ENST00000264366,ENST00000509550,ENST00000514960,ENST00000510275	9055-9062	17	CCLE-LUSC	
chr4:123760240:+>chr4:123797476:+	chr4	123760021	123760240	+	chr4	123797476	123797579,1	+	ENST00000264498,ENST00000608478	9063-9065	8,2,38	CCLE-BLCA,CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM	
chr4:1297332:+>chr4:1305767:+	chr4	1297203	1297332	+	chr4	1305767	1305949,1305949,1306021,1305949,1305949,1306021,1305949,1305949,1305949,1305949,1305949	+	ENST00000303400,ENST00000505177,ENST00000513301,ENST00000503653,ENST00000264750,ENST00000509254,ENST00000502558,ENST00000452175,ENST00000514708,ENST00000509531,ENST00000510794	9066-9076	12,26,24	CCLE-COAD,CCLE-LIHC,CCLE-LUSC	
chr4:129994338:->chr4:129965206:-	chr4	129991919	129994338	#	-	chr4	129965206	129965206,129965206,129965206,12	-	ENST00000281142,ENST00000434680,ENST00000439369,ENST00000503215,ENST00000506368,ENST00000511426,ENST00000503401	9077-9077	1	CCLE-LUSC
chr4:13485267:->chr4:13481150:-	chr4	13485083	13485267	-	chr4	13481150	13481150,13481150,13481150,13481150	-	ENST00000508274,ENST00000288723,ENST00000330852,ENST00000338176	9078-9083	10,8,11	CCLE-LUSC,CCLE-PAAD	
chr4:146042965:+>chr4:146044173:+	chr4	146042744	146042965	+	chr4	146044173	146044283	+	ENST00000296577	9084-9086	29,21,7	CCLE-LIHC,CCLE-LUSC	
chr4:146047010:+>chr4:146048678:+	chr4	146046935	146047010	+	chr4	146048678	146048725	+	ENST00000296577	9087-9089	26,1,16	CCLE-LUSC,CCLE-SARC,CCLE-SKCM	
chr4:148430983:+>chr4:148441003:+	chr4	148430631	148430983	+	chr4	148441003	148441130,1	+	ENST00000324300,ENST00000510697	9090-9094	4,9,15	CCLE-STAD	
chr4:148658138:+>chr4:148743878:+	chr4	148657926	148658138	+	chr4	148743878	148743973	+	ENST00000336498	9095-9097	12,1,43	CCLE-DLBC,CCLE-LUSC	
chr4:148966830:+>chr4:148968043:+	chr4	148966611	148966830	+	chr4	148968043	148968202,148968202,148968202	+	ENST00000336498,ENST00000414545,ENST00000507661	9098-9101	34,21,7	CCLE-BRCA	
chr4:151605107:->chr4:151604869:-	chr4	151605094	151605107	-	chr4	151604869	151604869,151604869,151604869,151604869,151604869	-	ENST00000535741,ENST00000510413,ENST00000357115,ENST00000509835,ENST00000507224	9102-9107	49,42,37	CCLE-COAD,CCLE-DLBC	
chr4:154408711:+>chr4:154471225:+	chr4	154408563	154408711	+	chr4	154471225	154471293,154471293,154471245,154471293	+	ENST00000440693,ENST00000409663,ENST00000445960,ENST00000409959	9108-9114	50,2,28	CCLE-HNSC	
chr4:15730937:+>chr4:15733363:+	chr4	15730799	15730937	+	chr4	15733363	15733468,16	+	ENST00000265016,ENST00000382346	9115-9117	18,37,26	CCLE-SARC	
chr4:157831776:->chr4:157771568:-	chr4	157831506	157831776	-	chr4	157771568	157771568,2	-	ENST00000502773,ENST00000422544	9118-9121	28,45,7	CCLE-LUSC	
chr4:158066425:+>chr4:158073870:+	chr4	158066415	158066425	+	chr4	158073870	158074162,2	+	ENST00000264428,ENST00000509282	9122-9124	1,4,3	CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV	
chr4:158066425:+>chr4:158091584:+	chr4	158066415	158066425	+	chr4	158091584	158091880,158091591,158091632,158091880	+	ENST00000264428,ENST00000541722,ENST00000512619,ENST00000509282	9125-9130	1,4,3	CCLE-HNSC,CCLE-KIRC,CCLE-LUSC	
chr4:15973925:->chr4:15972705:-	chr4	15973870	15973925	-	chr4	15972705	15972705,15972705,15972705,15972705,15972705,15972705,15972705	-	ENST00000503884,ENST00000447510,ENST00000539194,ENST00000540805,ENST00000505450,ENST00000508167,ENST00000510224,ENST00000513946	9131-9133	29,26,7	CCLE-LCLL	
chr4:16012340:->chr4:16010731:-	chr4	16012129	16012340	-	chr4	16010731	16010731,16010731,16010731,16010731,16010731,16010731,16010731	-	ENST00000447510,ENST00000539194,ENST00000540805,ENST00000505450,ENST00000508167,ENST00000510224,ENST00000543373	9134-9139	6,28,19	CCLE-CESC,CCLE-COAD,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC	
chr4:16043686:->chr4:16040624:-	chr4	16043491	16043686	-	chr4	16040624	16040624,16040624,16040624,16040624,16040624,16040624,16040624	-	ENST00000447510,ENST00000539194,ENST00000540805,ENST00000505450,ENST00000508167,ENST00000510224,ENST00000543373	9140-9146	17,8	CCLE-LCLL	
chr4:175796123:->chr4:175710094:-	chr4	175796099	175796123	-	chr4	175710094	175710094,2	-	ENST00000274093,ENST00000340217	9147-9150	19,15,27	CCLE-DLBC	
chr4:183439916:+>chr4:183522077:+	chr4	183439389	183439916	+	chr4	183522077	183522314,183522314,183522314	+	ENST00000511685,ENST00000406950,ENST00000510504	9151-9152	4,15	CCLE-LUSC	
chr4:183467531:+>chr4:183522077:+	chr4	183467424	183467531	+	chr4	183522077	183522314,183522314,183522314	+	ENST00000511685,ENST00000406950,ENST00000510504	9153-9156	9,26,7	CCLE-LUSC	
chr4:183519975:+>chr4:183522077:+	chr4	183519940	183519975	+	chr4	183522077	183522314,183522314,183522314	+	ENST00000511685,ENST00000406950,ENST00000510504	9157-9160	12,6	CCLE-LGG	
chr4:186628847:->chr4:186599976:-	chr4	186628764	186628847	-	chr4	186599976	186599976,186599976	-	ENST00000448662,ENST00000319471,ENST00000449407,ENST00000355634,ENST00000393528,ENST00000319454,ENST00000430503,ENST00000425679,ENST00000439049,ENST00000451958,ENST00000444781,ENST00000414724,ENST00000419063,ENST00000420158,ENST00000421639,ENST00000457934,ENST00000431902,ENST00000435480,ENST00000415274,ENST00000432655,ENST00000451701,ENST00000428330,ENST00000421420,ENST00000452351,ENST00000429056	9161-9187	8,33,36	CCLE-SKCM	
chr4:187544022:->chr4:187542929:-	chr4	187543930	187544022	-	chr4	187542929	187542929	-	ENST00000441802	9188-9190	4,25,8	CCLE-HNSC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM	
chr4:20764647:->chr4:20760513:-	chr4	20764410	20764647	-	chr4	20760513	20760513,20760513,20760513,20760513,20760513	-	ENST00000382148,ENST00000447367,ENST00000382150,ENST00000382152,ENST00000509207,ENST00000359001	9191-9193	14,46,2	CCLE-LUSC,CCLE-PAAD	
chr4:39414988:+>chr4:39435830:+	chr4	39414838	39414988	+	chr4	39435830	39436340	+	ENST00000257408	9194-9196	12,8,9	CCLE-LIHC	
chr4:40338475:+>chr4:40339227:+	chr4	40338227	40338475	+	chr4	40339227	40339381	+	ENST00000310169	9197-9199	3,2,22	CCLE-LUSC	
chr4:42517087:->chr4:42509171:-	chr4	42517002	42517087	-	chr4	42509171	42509171,42509171,42509171	-	ENST00000514372,ENST00000381668,ENST00000264449	9200-9203	6,3	CCLE-DLBC,CCLE-LCLL	
chr4:46067816:->chr4:46067601:-	chr4	46067749	46067816	-	chr4	46067601	46067601	-	ENST00000295452	9204-9206	43,35,7	CCLE-MM	
chr4:47292407:+>chr4:47322144:+	chr4	47292150	47292407	+	chr4	47322144	47322226,47	+	ENST00000295454,ENST00000538619	9207-9208	8,16	CCLE-SKCM	
chr4:47584978:+>chr4:47589097:+	chr4	47584885	47584978	+	chr4	47589097	47589223	+	ENST00000273859	9209-9211	9,27,31	CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM	
chr4:47954834:->chr4:47954720:-	chr4	47954796	47954834	-	chr4	47954720	47954720	-	ENST00000402813	9212-9214	5,11,56	CCLE-SKCM	
chr4:48091658:->chr4:48088654:-	chr4	48091400	48091658	-	chr4	48088654	48088654	-	ENST00000264316	9215-9217	17,6	CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM	
chr4:48145653:->chr4:48143436:-	chr4	48145483	48145653	-	chr4	48143436	48143436,48	-	ENST00000381501,ENST00000515146	9218-9220	3	CCLE-LCLL	
chr4:52896892:->chr4:52896029:-	chr4	52896189	52896892	-	chr4	52896029	52896029,53	-	ENST00000381431,ENST00000535450	9221-9223	33,55,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD	

chr4:52898018:->chr4:52896029:-	chr4	52897617	52898018	-	chr4	52896029	52896029,53	-	ENST00000381431,ENST00000535450	9224-9226	52,3,13	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD	
chr4:52898031:->chr4:52896029:-	chr4	52897617	52898031	-	chr4	52896029	52896029,53	-	ENST00000381431,ENST00000535450	9227-9229	47,13,9	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD	
chr4:54883905:->chr4:54880286:-	chr4	54883567	54883905	-	chr4	54880286	54880286,55	-	ENST00000263921,ENST00000510894	9230-9232	18,17	CCLE-LUSC	
chr4:55572094:+>chr4:55573264:+	chr4	55572083	55572094	+	chr4	55573264	55573453,56	+	ENST00000412167,ENST00000288135	9233-9236	1,4,3	CCLE-LCLL,CCLE-LUSC	
chr4:5709774:->chr4:5699374:-	chr4	5709611	5709774	-	chr4	5699374	5699374,57	-	ENST00000344938,ENST00000344408	9237-9240	3,2	CCLE-LIHC,CCLE-LUSC,CCLE-SKCM	
chr4:5726403:+>chr4:5731043:+	chr4	5726213	5726403	+	chr4	5731043	5731117,5731117,5731117	+	ENST00000264956,ENST00000382674,ENST00000509451	9241-9244	29,1,13	CCLE-LUSC	
chr4:5734505:+>chr4:5735078:+	chr4	5734456	5734505	+	chr4	5735078	5735162,5735162,5735162	+	ENST00000264956,ENST00000382674,ENST00000509451	9245-9248	17,16,8	CCLE-KIRC	
chr4:5743953:+>chr4:5746931:+	chr4	5743913	5743953	+	chr4	5746931	5747068,5747068,5747068	+	ENST00000264956,ENST00000382674,ENST00000509451	9249-9252	14,1,13	CCLE-BRCA,CCLE-CESC,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-THCA	
chr4:5760007:+>chr4:5785279:+	chr4	5759684	5760007	+	chr4	5785279	5785491,579	+	ENST00000264956,ENST00000382674	9253-9255	5,64,60	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SKCM	
chr4:5789351:+>chr4:5798749:+	chr4	5788948	5789351	+	chr4	5798749	5798959,58	+	ENST00000264956,ENST00000382674	9256-9258	42,34,1	CCLE-LGG,CCLE-LUSC	
chr4:5794553:+>chr4:5795335:+	chr4	5794372	5794553	+	chr4	5795335	5795444,58	+	ENST00000264956,ENST00000382674	9259-9261	60,4,12	CCLE-SKCM	
chr4:5797147:+>chr4:5798749:+	chr4	5797097	5797147	+	chr4	5798749	5798959,58	+	ENST00000264956,ENST00000382674	9262-9264	1,17,8	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SKCM,CCLE-STAD	
chr4:75247510:+>chr4:75248362:+	chr4	75247412	75247510	+	chr4	75248362	75248511	+	ENST00000244869	9265-9267	33,24	CCLE-LUSC	
chr4:7636844:+>chr4:7640055:+	chr4	7636133	7636844	+	chr4	7640055	7640219,764	+	ENST00000507866,ENST00000329016	9268-9271	7,68,9	CCLE-BLCA,CCLE-CESC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV	
chr4:77378618:+>chr4:77476762:+	chr4	77378291	77378618	+	chr4	77476762	77476916	+	ENST00000296043	9272-9274	17,12,21	CCLE-CESC,CCLE-LUSC,CCLE-STAD	
chr4:79264287:+>chr4:79284667:+	chr4	79264174	79264287	+	chr4	79284667	79284819,79	+	ENST00000325942,ENST00000264895	9275-9278	5,1,26	CCLE-LUSC	
chr4:81018654:->chr4:80992808:-	chr4	81018503	81018654	-	chr4	80992808	80992808,80992808,80992808,80992808	-	ENST00000403729,ENST00000346652,ENST00000307333,ENST00000295465	9279-9283	7,11	CCLE-LCLL,CCLE-LUSC	
chr4:81018658:->chr4:80992808:-	chr4	81018503	81018658	-	chr4	80992808	80992808,80992808,80992808,80992808	-	ENST00000403729,ENST00000346652,ENST00000307333,ENST00000295465	9284-9289	6,1,9	CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM,CCLE-STAD	
chr4:848980:->chr4:845762:-	chr4	848843	848980	-	chr4	845762	845762,845762,845762,845762	-	ENST00000314167,ENST00000511163,ENST00000511980,ENST00000510799	9290-9295	34,38,13	CCLE-LUSC	
chr4:873348:->chr4:871597:-	chr4	873306	873348	-	chr4	871597	871597,8716	-	ENST00000314167,ENST00000511163	9296-9298	29,35,32	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SKCM	
chr4:88952292:+>chr4:88957372:+	chr4	88952120	88952292	+	chr4	88957372	88957505	+	ENST00000237596	9299-9300	1,37	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC	
chr4:96104405:->chr4:96104212:-	chr4	96104281	96104405	-	chr4	96104212	96104212	-	ENST00000453304	9301-9303	2,30,15	CCLE-SKCM	
chr4:99519517:->chr4:99428879:-	chr4	99513587	99519517	-	chr4	99428879	99428879,99428879,99428879	-	ENST00000508798,ENST00000305798,ENST00000515440	9304-9308	7,32,1	CCLE-LUSC,CCLE-MM	
chr4:99540915:->chr4:99428879:-	chr4	99540844	99540915	-	chr4	99428879	99428879,99428879,99428879	-	ENST00000508798,ENST00000305798,ENST00000515440	9309-9313	20,9,15	CCLE-LUSC	
chr4:9971269:->chr4:9943669:-	chr4	9971185	9971269	-	chr4	9943669	9943669,9943669,9943669	-	ENST00000264784,ENST00000506583,ENST00000309065	9314-9315	18,8	CCLE-DLBC	
chr5:101847554:->chr5:101816138:-	chr5	101847478	101847554	-	chr5	101816138	101816138,101816138,101816138,101816138	-	ENST00000506729,ENST00000379807,ENST00000389019,ENST00000513675,ENST00000379810	9316-9320	31,35,37	CCLE-LUSC	
chr5:108202070:+>chr5:108203468:+	chr5	108201111	108202070	+	chr5	108203468	108203651,108203651,108203651,108203651	+	ENST00000536402,ENST00000281092,ENST00000504143	9321-9324	83,8	CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM	
chr5:108342238:+>chr5:108373123:+	chr5	108341955	108342238	+	chr5	108373123	108373179,1	+	ENST00000281092,ENST00000438717	9325-9327	11,5,52	CCLE-STAD	
chr5:112128674:+>chr5:112136976:+	chr5	112128545	112128674	+	chr5	112136976	112137080,112137080,112137080,112137080,112137080,112137080,112137080	+	ENST00000457016,ENST00000507379,ENST00000508624,ENST00000257430,ENST00000508376,ENST00000512211	9328-9334	24,8,40	CCLE-LUSC	
chr5:112380520:->chr5:112379327:-	chr5	112380271	112380520	-	chr5	112379327	112379327,112379327,112379327	-	ENST00000302475,ENST00000515367,ENST00000408903	9335-9337	17,8	CCLE-SKCM	
chr5:130725396:+>chr5:130726686:+	chr5	130725383	130725396	+	chr5	130726686	130726784,130726784,130726784,130726784	+	ENST00000395246,ENST00000503291,ENST00000360515,ENST00000505065	9338-9340	4,5,3	CCLE-DLBC,CCLE-LCLL	
chr5:130899447:->chr5:130897740:-	chr5	130899202	130899447	-	chr5	130897740	130897740,130897740,130897740,130897740,130897740,130897740,130897740,130897740	-	ENST00000509018,ENST00000307984,ENST00000514667,ENST00000507093,ENST00000296859,ENST00000308008,ENST00000515170,ENST00000510071	9341-9349	17,6	CCLE-LCLL,CCLE-LGG	
chr5:139197989:+>chr5:139201478:+	chr5	139197848	139197989	+	chr5	139201478	139201590	+	ENST00000274710	9350-9352	25,2,38	CCLE-LUSC	
chr5:140898204:->chr5:140896575:-	chr5	140898097	140898204	-	chr5	140896575	140896575,140896575,140896575,140896575,140896575,140896575,140896575,140896575	-	ENST00000389054,ENST00000520569,ENST00000253811,ENST00000389057,ENST00000398557,ENST00000398562,ENST00000398566,ENST00000448451,ENST00000518047	9353-9357	1,8,31	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-HNSC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD	
chr5:141039775:->chr5:141039493:-	chr5	141039647	141039775	-	chr5	141039493	141039493,141039493,141039493	-	ENST00000508305,ENST00000239440,ENST00000513878	9358-9361	1	CCLE-BRCA,CCLE-ESCA,CCLE-LUSC,CCLE-PAAD,CCLE-STAD	
chr5:141048038:->chr5:141046210:-	chr5	141047961	141048038	-	chr5	141046210	141046210,141046210,141046210	-	ENST00000508305,ENST00000239440,ENST00000513878	9362-9366	5,1,32	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA	
chr5:146717941:+>chr5:146722569:+	chr5	146717662	146717941	+	chr5	146722569	146722606,146722606,146722606,146722606	+	ENST00000397936,ENST00000541094,ENST00000398521,ENST00000398523	9367-9372	8,37,40	CCLE-DLBC	
chr5:149314696:->chr5:149314281:-	chr5	149314672	149314696	-	chr5	149314281	149314281	-	ENST00000255266	9373-9375	4,2,28	CCLE-SKCM	
chr5:149472100:->chr5:149460587:-	chr5	149472016	149472100	-	chr5	149460587	149460587,149460587,149460587	-	ENST00000504875,ENST00000286301,ENST00000543093	9376-9380	20,8,1	CCLE-DLBC	
chr5:150928048:->chr5:150925898:-	chr5	150927990	150928048	-	chr5	150925898	150925898	-	ENST00000261800	9381-9381	1	CCLE-ESCA,CCLE-HNSC	
chr5:151774377:->chr5:151772062:-	chr5	151774318	151774377	-	chr5	151772062	151772062	-	ENST00000255262	9382-9384	19,35,1	CCLE-LUSC,CCLE-PAAD,CCLE-STAD	
chr5:155756812:+>chr5:155771499:+	chr5	155756746	155756812	+	chr5	155771499	155771687,155771687,155771687,155771687	+	ENST00000517913,ENST00000435422,ENST00000447401,ENST00000337851,ENST00000524347	9385-9389	23,22,13	CCLE-COAD,CCLE-SARC,CCLE-SKCM	
chr5:155776869:+>chr5:155935611:+	chr5	155775239	155776869	+	chr5	155935611	155935712,155935712,155935712,155935712	+	ENST00000517913,ENST00000435422,ENST00000447401,ENST00000337851	9390-9393	38,2,5	CCLE-SKCM	
chr5:161463960:+>chr5:161520834:+	chr5	161463960	161463960	+	chr5	161520834	161520985,161520985,161520985,161520985	+	ENST00000356592,ENST00000414552,ENST00000361925,ENST00000522990	9394-9394	1	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD	
chr5:167396440:+>chr5:167419949:+	chr5	167396152	167396440	+	chr5	167419949	167420187,167420187,167420187,167420187	+	ENST00000518659,ENST00000545108,ENST00000519204,ENST00000520394,ENST00000403607	9395-9401	21,8,49	CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC	
chr5:171514312:->chr5:171510088:-	chr5	171514244	171514312	-	chr5	171510088	171510088	-	ENST00000176763	9402-9404	13,35,22	CCLE-BLCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM	
chr5:171524375:->chr5:171523564:-	chr5	171524344	171524375	-	chr5	171523564	171523564	-	ENST00000176763	9405-9407	6,37,65	CCLE-DLBC	
chr5:171541601:->chr5:171534856:-	chr5	171541479	171541601	-	chr5	171534856	171534856	-	ENST00000176763	9408-9410	1,22,8	CCLE-BLCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM	

chr5:171605157:->chr5:171583792:-	chr5	171605138	171605157	-	chr5	171583792	171583792	-	ENST00000176763	9411-9413	20,14,13	CCLE-DLBC,CCLE-LCLL
chr5:176303171:+>chr5:176304193:+	chr5	176302994	176303171	+	chr5	176304193	176304280,2	+	ENST00000329542,ENST00000261961	9414-9415	6,3	CCLE-BRCA,CCLE-COAD,CCLE-LGG,CCLE-LUSC
chr5:176791964:+>chr5:176792964:+	chr5	176791850	176791964	+	chr5	176792964	176792985	+	ENST00000408923	9416-9418	4,18,38	CCLE-DLBC
chr5:176933154:->chr5:176932111:-	chr5	176933039	176933154	-	chr5	176932111	176932111,176932111,176932111,176932111,176932111,176932111	-	ENST00000312843,ENST00000377112,ENST00000357198,ENST00000501403,ENST00000510380,ENST00000506493,ENST00000502885	9419-9429	32,11,25	CCLE-DLBC,CCLE-LCLL
chr5:176934158:->chr5:176932111:-	chr5	176933987	176934158	-	chr5	176932111	176932111,176932111,176932111,176932111,176932111,176932111	-	ENST00000312943,ENST00000377112,ENST00000357198,ENST00000501403,ENST00000510380,ENST00000506493,ENST00000502885	9430-9440	6,5	CCLE-LCLL
chr5:177672772:->chr5:177669395:-	chr5	177672743	177672772	-	chr5	177669395	177669395	-	ENST00000390654	9441-9443	16,26,31	CCLE-DLBC,CCLE-LCLL
chr5:180664138:->chr5:180664042:-	chr5	180664118	180664138	-	chr5	180664042	180664042,180664042,180664042,180664042,180664042,180664042,180664042,180664042	-	ENST00000514455,ENST00000502905,ENST00000507756,ENST00000511566,ENST00000509535,ENST00000037681,ENST00000512805,ENST00000504726,ENST00000511900,ENST00000512968	9444-9451	15,40,5	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr5:21918594:->chr5:21854899:-	chr5	21918511	21918594	-	chr5	21854899	21854899,22	-	ENST00000504376,ENST00000382254	9452-9454	8,42,1	CCLE-LUSC,CCLE-SARC
chr5:22078395:->chr5:21975494:-	chr5	22078319	22078395	-	chr5	21975494	21975494,21975494,21975494	-	ENST00000504376,ENST00000382254,ENST00000522262	9455-9458	5,14,19	CCLE-LUSC,CCLE-SARC
chr5:31283267:+>chr5:31294069:+	chr5	31283191	31283267	+	chr5	31294069	31294363,31	+	ENST00000514738,ENST00000265071	9459-9460	26	CCLE-LIHC,CCLE-LUSC,CCLE-OV
chr5:36110250:->chr5:36110093:-	chr5	36110226	36110250	-	chr5	36110093	36110093	-	ENST00000296603	9461-9463	1,8,2	CCLE-LCLL
chr5:36136154:->chr5:36124367:-	chr5	36136081	36136154	-	chr5	36124367	36124367	-	ENST00000296603	9464-9466	9,1,10	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr5:40685890:+>chr5:40691881:+	chr5	40685813	40685890	+	chr5	40691881	40692480	+	ENST00000302472	9467-9468	26	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr5:55200814:+>chr5:55201934:+	chr5	55200742	55200814	+	chr5	55201934	55202116,55202116,55202116,55202116,55202116,55202116	+	ENST00000396836,ENST00000396834,ENST00000447346,ENST00000359040,ENST00000297015,ENST00000490985,ENST00000354961	9469-9473	1,24,15	CCLE-LUSC
chr5:55200887:+>chr5:55201934:+	chr5	55200742	55200887	+	chr5	55201934	55202116,55202116,55202116,55202116,55202116,55202116	+	ENST00000396836,ENST00000396834,ENST00000447346,ENST00000359040,ENST00000297015,ENST00000490985,ENST00000354961	9474-9478	20,7,2	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC
chr5:55249190:->chr5:55248179:-	chr5	55249056	55249190	-	chr5	55248179	55248179,55248179,55248179	-	ENST00000381298,ENST00000336909,ENST00000502326,ENST00000381294	9479-9481	6,2	CCLE-BRCA,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr5:58299694:->chr5:58289292:-	chr5	58299360	58299694	-	chr5	58289292	58289292,58289292,58289292,58289292,58289292,58289292,58289292,58289292	-	ENST00000340635,ENST00000360047,ENST00000507116,ENST00000358923,ENST00000317118,ENST00000503258,ENST00000405755,ENST00000502484,ENST00000546160,ENST00000505453	9482-9485	8	CCLE-LUSC
chr5:59443440:->chr5:59284544:-	chr5	59443367	59443440	-	chr5	59284544	59284544,59284544,59284544,59284544,59284544,59284544	-	ENST00000502484,ENST00000546160,ENST00000505507,ENST00000514552	9486-9490	16,1,4	CCLE-LCLL,CCLE-SARC
chr5:59443575:->chr5:59284544:-	chr5	59443367	59443575	-	chr5	59284544	59284544,59284544,59284544,59284544,59284544,59284544	-	ENST00000502484,ENST00000546160,ENST00000505507,ENST00000514552	9491-9495	6,58,37	CCLE-LCLL
chr5:65307284:+>chr5:65307877:+	chr5	65307240	65307284	+	chr5	65307877	65307955,65307955,65307955,65307955,65307955,65307955,65307955,65307955	+	ENST00000284037,ENST00000380943,ENST00000416865,ENST00000380935,ENST00000380936,ENST00000380939,ENST00000380938,ENST00000511297,ENST00000506030,ENST00000508515	9496-9506	15,8	CCLE-BRCA,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SARC,CCLE-STAD
chr5:66488294:->chr5:66481845:-	chr5	66488254	66488294	-	chr5	66481845	66481845	-	ENST00000256447	9507-9509	23,57,5	CCLE-DLBC,CCLE-LCLL
chr5:76010928:+>chr5:76028139:+	chr5	76010807	76010928	+	chr5	76028139	76029328	+	ENST00000319211	9510-9512	27,12,32	CCLE-DLBC,CCLE-LCLL,CCLE-SARC
chr5:76108252:+>chr5:76128515:+	chr5	76107394	76108252	+	chr5	76128515	76129626	+	ENST00000296677	9513-9515	28,12,77	CCLE-HNSC
chr5:76108296:+>chr5:76128515:+	chr5	76107394	76108296	+	chr5	76128515	76129626	+	ENST00000296677	9516-9518	27,91,14	CCLE-BLCA,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC,CCLE-SKCM
chr5:7639181:+>chr5:7690804:+	chr5	7638914	7639181	+	chr5	7690804	7690952,7690952,7690952	+	ENST00000338316,ENST00000515681,ENST00000537121	9519-9521	21,8	CCLE-SARC
chr5:79410058:->chr5:79409445:-	chr5	79409977	79410058	-	chr5	79409445	79409457	-	ENST00000507668	9522-9524	25,40,8	CCLE-SKCM
chr5:79421482:->chr5:79409445:-	chr5	79420958	79421482	-	chr5	79409445	79409457	-	ENST00000507668	9525-9527	21,29,14	CCLE-LGG,CCLE-SKCM
chr5:79421482:->chr5:79409448:-	chr5	79420958	79421482	-	chr5	79409448	79409457,79	-	ENST00000507668,ENST00000509193	9528-9529	21,29	CCLE-SKCM
chr5:79421482:->chr5:79410474:-	chr5	79420958	79421482	-	chr5	79410474	79410474	-	ENST00000509193	9530-9531	21,29	CCLE-LGG,CCLE-SKCM
chr5:79421482:->chr5:79412146:-	chr5	79420958	79421482	-	chr5	79412146	79412146	-	ENST00000512972	9532-9533	21,29	CCLE-SKCM
chr5:96267574:+>chr5:96314842:+	chr5	96267311	96267574	+	chr5	96314842	96315682	+	ENST00000231368	9534-9535	67,16	CCLE-DLBC,CCLE-LCLL
chr5:96267630:+>chr5:96314842:+	chr5	96267311	96267630	+	chr5	96314842	96315682	+	ENST00000231368	9536-9538	1,15,4	CCLE-MM
chr6:100379769:->chr6:100369131:-	chr6	100373713	100379769	-	chr6	100369131	100369131,1	-	ENST00000281806,ENST00000369212	9539-9541	1,7,32	CCLE-LIHC,CCLE-LUSC,CCLE-SKCM
chr6:102248901:+>chr6:102250206:+	chr6	102248513	102248901	+	chr6	102250206	102250313,102250313,102250313,102250313,102250313,102250313	+	ENST00000369138,ENST00000413795,ENST00000421544,ENST00000318991,ENST00000369137,ENST00000369134,ENST00000455610	9542-9548	3,22,36	CCLE-LUSC
chr6:102495409:+>chr6:102503205:+	chr6	102495343	102495409	+	chr6	102503205	102503455,102503455,102503455,102503455,102503455,102503455	+	ENST00000369138,ENST00000413795,ENST00000421544,ENST00000318991,ENST00000369137,ENST00000369134	9549-9555	23,22,13	CCLE-LUSC,CCLE-SKCM
chr6:109704508:->chr6:109700865:-	chr6	109704456	109704508	-	chr6	109700865	109700865,109700865,109700865,109700865,109700865,109700865	-	ENST00000413644,ENST00000368961,ENST00000275080,ENST00000310786,ENST00000324953,ENST00000512821,ENST00000504373	9556-9563	1	CCLE-COAD
chr6:110774731:->chr6:110763978:-	chr6	110774634	110774731	-	chr6	110763978	110763978,110763978,110763978,110763978,110763978,110763978	-	ENST00000451557,ENST00000368919,ENST00000330550,ENST00000439654,ENST00000434949,ENST00000437378	9564-9569	12,34,2	CCLE-LCLL
chr6:110774731:->chr6:110768193:-	chr6	110774634	110774731	-	chr6	110768193	110768193,110768193,110768193,110768193,110768193,110768193	-	ENST00000451557,ENST00000368919,ENST00000330550,ENST00000439654,ENST00000434949,ENST00000437378,ENST00000424139	9570-9576	12,34,2	CCLE-LCLL
chr6:11535274:+>chr6:11565899:+	chr6	11535138	11535274	+	chr6	11565899	11566069,12	+	ENST00000543875,ENST00000379426	9577-9578	21,8	CCLE-LUSC,CCLE-STAD
chr6:11574484:+>chr6:11575664:+	chr6	11574268	11574484	+	chr6	11575664	11575794,12	+	ENST00000543875,ENST00000379426	9579-9581	22,9,2	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM
chr6:117137315:->chr6:117130780:-	chr6	117137246	117137315	-	chr6	117130780	117130780,117130780,117130780	-	ENST00000310357,ENST00000368549,ENST00000530250	9582-9586	20,5,7	CCLE-LUSC
chr6:117763560:->chr6:117739669:-	chr6	117763522	117763560	-	chr6	117739669	117739669,1	-	ENST00000368507,ENST00000368508	9587-9590	57,34,8	CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC
chr6:117784820:->chr6:117739669:-	chr6	117784740	117784820	-	chr6	117739669	117739669,1	-	ENST00000368507,ENST00000368508	9591-9594	28,43,8	CCLE-LIHC
chr6:123549550:->chr6:123545276:-	chr6	123549469	123549550	-	chr6	123545276	123545276,1	-	ENST00000398178,ENST00000334268	9595-9596	8,1	CCLE-LCLL,CCLE-LUSC
chr6:123699661:->chr6:123699038:-	chr6	123699646	123699661	-	chr6	123699038	123699043,1	-	ENST00000398178,ENST00000334268	9597-9600	11,7,20	CCLE-LCLL
chr6:123699661:->chr6:123699043:-	chr6	123699646	123699661	-	chr6	123699043	123699043,1	-	ENST00000398178,ENST00000334268	9601-9603	11,7	CCLE-LCLL
chr6:123987300:->chr6:123892277:-	chr6	123987217	123987300	-	chr6	123892277	123892277,123892277,123892277,123892277	-	ENST00000398178,ENST00000334268,ENST00000546248,ENST00000542443	9604-9605	36,4	CCLE-DLBC
chr6:123987302:->chr6:123892277:-	chr6	123987217	123987302	-	chr6	123892277	123892277,123892277,123892277,123892277	-	ENST00000398178,ENST00000334268,ENST00000546248,ENST00000542443	9606-9607	8,39	CCLE-DLBC
chr6:124347430:+>chr6:124604151:+	chr6	124347016	124347430	+	chr6	124604151	124604288,124604288,124604288,124604288	+	ENST00000368416,ENST00000368417,ENST00000546092,ENST00000545433	9608-9609	29,15	CCLE-LUSC

chr6:124386804:+>chr6:124604151:+	chr6	124386519	124386804	+	chr6	124604151	124604288,124604288,124604288,124604288	+	ENST00000368416,ENST00000368417,ENST00000546092,ENST00000545433	9610-9615	39,49,9	CCLE-LUSC
chr6:124612689:+>chr6:124676413:+	chr6	124612533	124612689	+	chr6	124676413	124676493,124676493,124676493,124676493	+	ENST00000368416,ENST00000368417,ENST00000546092,ENST00000545433	9616-9622	20,2,1	CCLE-LUSC
chr6:124669894:+>chr6:124676413:+	chr6	124669760	124669894	+	chr6	124676413	124676493,124676493,124676493,124676493	+	ENST00000368416,ENST00000368417,ENST00000546092,ENST00000545433	9623-9629	22,15,8	CCLE-LUSC
chr6:125125722:+>chr6:125139533:+	chr6	125125649	125125722	+	chr6	125139533	125139614,125139618,125139618	+	ENST00000368417,ENST00000546092,ENST00000545433	9630-9633	6,25,24	CCLE-LUSC
chr6:125125746:+>chr6:125139533:+	chr6	125125649	125125746	+	chr6	125139533	125139614,125139618,125139618	+	ENST00000368417,ENST00000546092,ENST00000545433	9634-9637	7,32,1	CCLE-LUSC
chr6:128614384:->chr6:128563747:-	chr6	128614311	128614384	-	chr6	128563747	128563747,128563747,128563747,128563747,128563747,128563747,128563747	-	ENST00000368226,ENST00000368227,ENST00000532331,ENST00000368213,ENST00000368210,ENST00000368215,ENST00000368207,ENST00000525050	9638-9647	9,2,46	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr6:128696391:->chr6:128643455:-	chr6	128696353	128696391	-	chr6	128643455	128643455,128643455,128643455,128643455,128643455,128643455,128643455	-	ENST00000368226,ENST00000368227,ENST00000532331,ENST00000368213,ENST00000368210,ENST00000368215,ENST00000368207,ENST00000525459	9648-9657	5,65,20	CCLE-LUSC
chr6:128732287:->chr6:128718833:-	chr6	128732032	128732287	-	chr6	128718833	128718833,128718833,128718833,128718833,128718833,128718833,128718833,128718833	-	ENST00000368226,ENST00000368227,ENST00000532331,ENST00000368213,ENST00000368210,ENST00000368215,ENST00000525459,ENST00000392449	9658-9669	3,1,8	CCLE-LIHC
chr6:132046135:+>chr6:132047186:+	chr6	132046068	132046135	+	chr6	132047186	132047340,132047340	+	ENST00000414305,ENST00000357639,ENST00000358229	9670-9672	14,1	CCLE-DLBC,CCLE-LCLL
chr6:133081564:->chr6:133078898:-	chr6	133081305	133081564	-	chr6	133078898	133079022,133079022,133079022,133079022,133079022,133079022,133079022,133079022	-	ENST00000418593,ENST00000326499,ENST00000422400,ENST00000392389,ENST00000525289,ENST00000525674,ENST00000528801,ENST00000532053,ENST00000533835,ENST00000524919,ENST00000532012	9673-9685	12,17,8	CCLE-DLBC
chr6:134324586:->chr6:134323267:-	chr6	134324537	134324586	-	chr6	134323267	134323267	-	ENST00000275230	9686-9687	21,2	CCLE-LUSC
chr6:134551538:->chr6:134528569:-	chr6	134551456	134551538	-	chr6	134528569	134528569,1	-	ENST00000367858,ENST00000461976	9688-9691	8,15,1	CCLE-DLBC,CCLE-LCLL
chr6:13648579:->chr6:13644961:-	chr6	13648374	13648579	-	chr6	13644961	13644961,14	-	ENST00000011619,ENST00000539980	9692-9694	19,3	CCLE-COAD
chr6:136681483:->chr6:136681169:-	chr6	136681292	136681483	-	chr6	136681169	136681169,136681169,136681169,136681169,136681169,136681169	-	ENST00000354570,ENST00000454590,ENST00000544465,ENST00000438100,ENST00000432797	9695-9697	14,24,33	CCLE-LCLL
chr6:13699751:->chr6:13697128:-	chr6	13699665	13699751	-	chr6	13697128	13697128	-	ENST00000011619	9698-9700	4,15,21	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr6:137539809:->chr6:137528214:-	chr6	137539808	137539809	-	chr6	137528214	137528214,137528214,137528214,137528214,137528214,137528214	-	ENST00000367739,ENST00000543628,ENST00000458076,ENST00000367735,ENST00000414770	9701-9706	1,3,5	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr6:139312995:->chr6:139269050:-	chr6	139312797	139312995	-	chr6	139269050	139269050,139269050,139269050,139269050,139269050,139269050	-	ENST00000450536,ENST00000367663,ENST00000529597,ENST00000445570,ENST00000483468,ENST00000409812,ENST00000258062,ENST00000415951	9707-9715	1,8,16	CCLE-LCLL
chr6:144629228:+>chr6:144724259:+	chr6	144629083	144629228	+	chr6	144724259	144724320,144724320	+	ENST00000433557,ENST00000367545,ENST00000421035	9716-9719	1,49	CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr6:146611938:+>chr6:146625747:+	chr6	146611103	146611938	+	chr6	146625747	146625982,146625982,146625982,146625982,146625982,146625982	+	ENST00000361719,ENST00000392299,ENST00000492807,ENST00000355289,ENST00000282753,ENST00000507907	9720-9723	2,1	CCLE-SKCM
chr6:152155613:+>chr6:152163732:+	chr6	152155043	152155613	+	chr6	152163732	152163922,152163922,152163922,152163922	+	ENST00000440973,ENST00000338799,ENST00000456483,ENST00000443427,ENST00000206249	9724-9727	13,82,33	CCLE-BRCA
chr6:15626981:->chr6:15615630:-	chr6	15626981	15626981	-	chr6	15615630	15615630,15615630,15615630,15615630,15615630,15615630	-	ENST00000344537,ENST00000355917,ENST00000515875,ENST00000338950,ENST00000511762	9728-9734	23,10,18	CCLE-SARC
chr6:15722951:->chr6:15652371:-	chr6	15722868	15722951	-	chr6	15652371	15652371,15652371,15652371,15652371,15652371,15652371	-	ENST00000344537,ENST00000510395,ENST00000355917,ENST00000515875,ENST00000338950	9735-9741	8,65,1	CCLE-OV
chr6:15821536O:+>chr6:158288579:+	chr6	15821508O	15821536O	+	chr6	158288579	158288665	+	ENST00000392185	9742-9744	8,20,40	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr6:158357444:+>chr6:158358466:+	chr6	158357277	158357444	+	chr6	158358466	158358555	+	ENST00000392185	9745-9747	1,8,13	CCLE-LUSC
chr6:158451911:+>chr6:158454487:+	chr6	158451642	158451911	+	chr6	158454487	158454712,158454712,158454712,158454712	+	ENST00000367121,ENST00000367122,ENST00000355585,ENST00000449859	9748-9753	13,17,22	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr6:158512166:+>chr6:158513958:+	chr6	158512068	158512166	+	chr6	158513958	158514136,158514136,158514136,158514136	+	ENST00000367121,ENST00000367122,ENST00000355585,ENST00000367112	9754-9757	33,2,24	CCLE-STAD
chr6:159229630:->chr6:159210403:-	chr6	159229617	159229630	-	chr6	159210403	159210403,159210403,159210403	-	ENST00000337147,ENST00000367075,ENST00000392177	9758-9760	14,4	CCLE-LGG
chr6:17424416:+>chr6:17426821:+	chr6	17424355	17424416	+	chr6	17426821	17426921,17426921,17426921,17426921,17426921,17426921	+	ENST00000229922,ENST00000489374,ENST00000378990,ENST00000493172,ENST00000479291,ENST00000465994,ENST00000476263	9761-9769	21,13,20	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr6:17424448:+>chr6:17426821:+	chr6	17424355	17424448	+	chr6	17426821	17426921,17426921,17426921,17426921,17426921,17426921	+	ENST00000229922,ENST00000489374,ENST00000378990,ENST00000493172,ENST00000479291,ENST00000465994,ENST00000476263	9770-9778	31,2	CCLE-BLCA,CCLE-KIRC,CCLE-LUSC
chr6:24813490:->chr6:24810035:-	chr6	24811907	24813490	-	chr6	24810035	24810035,25	-	ENST00000259698,ENST00000538035	9779-9781	828,7,65	CCLE-LUSC
chr6:24817838:->chr6:24810035:-	chr6	24811907	24817838	-	chr6	24810035	24810035,25	-	ENST00000259698,ENST00000538035	9782-9784	7,1,32	CCLE-BLCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-OV
chr6:24835011:->chr6:24832619:-	chr6	24834887	24835011	-	chr6	24832619	24832619,25	-	ENST00000259698,ENST00000538035	9785-9787	20,12,2	CCLE-DLBC
chr6:25333419:+>chr6:25420342:+	chr6	25333373	25333419	+	chr6	25420342	25420392	+	ENST00000329474	9788-9789	16	CCLE-SKCM
chr6:25419357:+>chr6:25420342:+	chr6	25419342	25419357	+	chr6	25420342	25420392	+	ENST00000329474	9790-9792	2,5,6	CCLE-MM
chr6:26409089:+>chr6:26409761:+	chr6	26408556	26409089	+	chr6	26409761	26409961,26409961,26409961,26409961	+	ENST00000476549,ENST00000289361,ENST00000425234,ENST00000414912	9793-9796	63,1	CCLE-BLCA,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-OV
chr6:29760913:+>chr6:29911236:+	chr6	29760905	29760913	+	chr6	29911236	29911320,29911320,29911320,29911320	+	ENST00000396634,ENST00000376806,ENST00000376809,ENST00000376802	9797-9801	3	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr6:30703045:->chr6:30698877:-	chr6	30702970	30703045	-	chr6	30698877	30698877,30698877,30698877,30698877	-	ENST00000376389,ENST00000456573,ENST00000413165,ENST00000438162	9802-9807	21,12,7	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr6:30703651:->chr6:30698877:-	chr6	30703445	30703651	-	chr6	30698877	30698877,30698877,30698877,30698877	-	ENST00000376389,ENST00000456573,ENST00000413165,ENST00000438162	9808-9813	2,3,4	CCLE-CESC,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-STAD
chr6:30705934:->chr6:30698877:-	chr6	30705894	30705934	-	chr6	30698877	30698877,30698877,30698877,30698877	-	ENST00000376389,ENST00000456573,ENST00000413165,ENST00000438162	9814-9819	11,23,4	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC

chr6:30706130:->chr6:30698877:-	chr6	30706123	30706130	-	chr6	30698877	30698877,30698877,30698877,30698877	-	ENST00000376389,ENST00000456573,ENST00000413165,ENST00000438162	9820-9825	5,19,1	CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr6:30708723:->chr6:30708575:-	chr6	30708634	30708723	-	chr6	30708575	30708575,30708575,30708575,30708575,30708575,30708575	-	ENST00000376389,ENST00000456573,ENST00000413165,ENST00000438162,ENST00000445853,ENST00000416018,ENST00000454845	9826-9833	2,12,38	CCLE-SKCM
chr6:30708763:->chr6:30708575:-	chr6	30708634	30708763	-	chr6	30708575	30708575,30708575,30708575,30708575,30708575,30708575	-	ENST00000376389,ENST00000456573,ENST00000413165,ENST00000438162,ENST00000445853,ENST00000416018,ENST00000454845	9834-9841	11,3,25	CCLE-LGG,CCLE-LUSC
chr6:30708795:->chr6:30708575:-	chr6	30708634	30708795	-	chr6	30708575	30708575,30708575,30708575,30708575,30708575,30708575	-	ENST00000376389,ENST00000456573,ENST00000413165,ENST00000438162,ENST00000445853,ENST00000416018,ENST00000454845	9842-9849	1,23,14	CCLE-LUSC
chr6:30708813:->chr6:30708368:-	chr6	30708634	30708813	-	chr6	30708368	30708368,30708368,30708368,30708368,30708368,30708368	-	ENST00000376389,ENST00000456573,ENST00000413165,ENST00000438162,ENST00000445853,ENST00000416018,ENST00000454845	9850-9860	17,8	CCLE-ESCA,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr6:30708813:->chr6:30708575:-	chr6	30708634	30708813	-	chr6	30708575	30708575,30708575,30708575,30708575,30708575,30708575	-	ENST00000376389,ENST00000456573,ENST00000413165,ENST00000438162,ENST00000445853,ENST00000416018,ENST00000454845	9861-9868	17,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr6:30844336:+>chr6:30856465:+	chr6	30844257	30844336	+	chr6	30856465	30856591,31	+	ENST00000508312,ENST00000503495	9869-9872	15,1,27	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr6:3094622:+>chr6:3104459:+	chr6	3094448	3094622	+	chr6	3104459	3104549,3104549,3104549	+	ENST00000259808,ENST00000541791,ENST00000380409	9873-9875	17,2,34	CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr6:31364169:->chr6:31322299:-	chr6	31364135	31364169	-	chr6	31322299	31322303	-	ENST00000412585	9876-9877	18,32	CCLE-LUSC
chr6:31700981:->chr6:31700175:-	chr6	31700918	31700981	-	chr6	31700175	31700175,31700175,31700175	-	ENST00000375784,ENST00000375779,ENST00000375780,ENST00000395892	9878-9880	7,11,34	CCLE-CESC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD
chr6:32149741:->chr6:32149409:-	chr6	32149489	32149741	-	chr6	32149409	32149409,32149409,32149409,32149409	-	ENST00000375067,ENST00000375055,ENST00000375076,ENST00000375070,ENST00000438221	9881-9887	1,23,14	CCLE-LCLL
chr6:32600686:+>chr6:32609087:+	chr6	32600656	32600686	+	chr6	32609087	32609335,32609335,32609335,32609335	+	ENST00000343139,ENST00000395363,ENST00000496318,ENST00000374949	9888-9891	10,4	CCLE-DLBC
chr6:33037992:->chr6:33037663:-	chr6	33037962	33037992	-	chr6	33037663	33037663,33037663,33037663	-	ENST00000419277,ENST00000428995,ENST00000453337	9892-9895	21,6,40	CCLE-DLBC,CCLE-LCLL,CCLE-SKCM
chr6:35282003:+>chr6:35285668:+	chr6	35281903	35282003	+	chr6	35285668	35285776,35	+	ENST00000542066,ENST00000316637	9896-9898	7,34,11	CCLE-LCLL
chr6:37662166:->chr6:37631882:-	chr6	37662146	37662166	-	chr6	37631882	37631882,37631882,37631882	-	ENST00000297153,ENST00000434837,ENST00000505425	9899-9903	2,27	CCLE-LUSC
chr6:41259171:->chr6:41250489:-	chr6	41258635	41259171	-	chr6	41250489	41250489,41250489,41250489,41250489	-	ENST00000589614,ENST00000244709,ENST00000334475,ENST00000591620	9904-9909	5,9,26	CCLE-DLBC
chr6:44119935:+>chr6:44120330:+	chr6	44119864	44119935	+	chr6	44120330	44120435,44120435,44120435,44120435	+	ENST00000259746,ENST00000323267,ENST00000371893,ENST00000533121	9910-9912	24	CCLE-LUSC
chr6:47213511:->chr6:47202634:-	chr6	47213474	47213511	-	chr6	47202634	47202634	-	ENST00000296861	9913-9915	14,45,5	CCLE-DLBC
chr6:47213556:->chr6:47202634:-	chr6	47213474	47213556	-	chr6	47202634	47202634	-	ENST00000296861	9916-9918	30,13,97	CCLE-DLBC,CCLE-LCLL
chr6:47220354:->chr6:47202634:-	chr6	47220230	47220354	-	chr6	47202634	47202634	-	ENST00000296861	9919-9921	13,1,4	CCLE-DLBC,CCLE-LCLL
chr6:47235556:->chr6:47221257:-	chr6	47235412	47235556	-	chr6	47221257	47221257	-	ENST00000296861	9922-9924	4,9,1	CCLE-BLCA,CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr6:56387085:->chr6:56382418:-	chr6	56386966	56387085	-	chr6	56382418	56382418,56382418,56382418,56382418,56382418,56382418	-	ENST00000244364,ENST00000446842,ENST00000370769,ENST00000421834,ENST00000370754,ENST00000370788,ENST00000361203	9925-9930	13,2,4	CCLE-LIHC
chr6:56536462:->chr6:56535605:-	chr6	56536415	56536462	-	chr6	56535605	56535605,56535605,56535605,56535605,56535605,56535605	-	ENST00000312431,ENST00000370769,ENST00000421834,ENST00000370754,ENST00000370788,ENST00000361203,ENST00000520645,ENST00000449297,ENST00000522538,ENST00000523817	9931-9940	2,11	CCLE-SKCM
chr6:56650569:->chr6:56600087:-	chr6	56644523	56650569	-	chr6	56600087	56600087,56600087,56600087,56600087,56600087,56600087	-	ENST00000312431,ENST00000370769,ENST00000421834,ENST00000370754,ENST00000370788,ENST00000361203,ENST00000520645,ENST00000449297,ENST00000523817	9941-9950	1,7,32	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr6:69783684:+>chr6:69785887:+	chr6	69783613	69783684	+	chr6	69785887	69785930	+	ENST00000370598	9951-9953	7,24,3	CCLE-LIHC
chr6:69783814:+>chr6:69785887:+	chr6	69783781	69783814	+	chr6	69785887	69785930	+	ENST00000370598	9954-9956	4,6,11	CCLE-LIHC
chr6:71460761:+>chr6:71464683:+	chr6	71460661	71460761	+	chr6	71464683	71464768,71464768,71464768,71464768	+	ENST00000316999,ENST00000370452,ENST00000370455,ENST00000422334	9957-9963	7,11,34	CCLE-COAD,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM
chr6:71507534:+>chr6:71508360:+	chr6	71507487	71507534	+	chr6	71508360	71508440,71508440,71508440,71508440	+	ENST00000316999,ENST00000370452,ENST00000370455,ENST00000439432	9964-9968	3,16	CCLE-LGG,CCLE-LUSC,CCLE-PRAD
chr6:73816580:->chr6:73821031:+	chr6	73816509	73816580	+	chr6	73821031	73821126,73821126,73821126,73821126,73821126,73821126	+	ENST00000342056,ENST00000355194,ENST00000370398,ENST00000370392,ENST00000355635,ENST00000402622,ENST00000403813,ENST00000414165	9969-9977	12,24,1	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr6:73818334:->chr6:73821031:+	chr6	73818269	73818334	+	chr6	73821031	73821126,73821126,73821126,73821126,73821126,73821126	+	ENST00000342056,ENST00000355194,ENST00000370398,ENST00000370392,ENST00000355635,ENST00000402622,ENST00000403813,ENST00000414165	9978-9986	18,22,13	CCLE-LCLL
chr6:74143411:->chr6:74138534:-	chr6	74143208	74143411	-	chr6	74138534	74138534,74	-	ENST00000370318,ENST00000370315	9987-9989	33,32	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr6:74143459:->chr6:74138534:-	chr6	74143208	74143459	-	chr6	74138534	74138534,74	-	ENST00000370318,ENST00000370315	9990-9993	17,16,8	CCLE-LCLL
chr6:74143555:->chr6:74138534:-	chr6	74143509	74143555	-	chr6	74138534	74138534,74	-	ENST00000370318,ENST00000370315	9994-9996	14,7	CCLE-LUSC
chr6:74238420:->chr6:74229620:-	chr6	74238244	74238420	-	chr6	74229620	74229749,74229749,74229749,74229749	-	ENST00000316292,ENST00000309268,ENST00000331523,ENST00000356303,ENST00000455918	9997-10000	3,1	CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr6:74261567:->chr6:74138534:-	chr6	74261372	74261567	-	chr6	74138534	74138534,74	-	ENST00000370318,ENST00000370315	10001-10003	33	CCLE-LCLL,CCLE-LUSC
chr6:74273187:->chr6:74138534:-	chr6	74272994	74273187	-	chr6	74138534	74138534,74	-	ENST00000370318,ENST00000370315	10004-10006	33	CCLE-LCLL,CCLE-LUSC
chr6:74531315:+>chr6:74533182:+	chr6	74531051	74531315	+	chr6	74533182	74533357,74533357,74533357,74533357	+	ENST00000422508,ENST00000437994,ENST00000287097	10007-10009	12,30,1	CCLE-HNSC,CCLE-KIRC,CCLE-LUSC,CCLE-SKCM
chr6:76529589:+>chr6:76532499:+	chr6	76529489	76529589	+	chr6	76532499	76532568,76532568,76532568,76532568	+	ENST00000369981,ENST00000369985,ENST00000369977,ENST00000369975	10010-10014	11,5	CCLE-LUSC
chr6:84288801:->chr6:84285772:-	chr6	84287434	84288801	-	chr6	84285772	84285772,84285772,84285772,84285772,84285772,84285772,84285772,84285772,84285772,84285772,84285772,84285772	-	ENST00000521485,ENST00000195649,ENST00000369694,ENST00000439399,ENST00000428679,ENST00000437520,ENST00000521743,ENST00000520302,ENST00000520213,ENST00000523448,ENST00000521931	10015-10021	36,42,3	CCLE-LGG
chr6:86165209:+>chr6:86176778:+	chr6	86164842	86165209	+	chr6	86176778	86177000,86177000,86177000,86177000	+	ENST00000369646,ENST00000257770,ENST00000369651	10022-10026	11,14,65	CCLE-SARC
chr6:91288707:->chr6:91281526:-	chr6	91288587	91288707	-	chr6	91281526	91281526,91281526,91281526,91281526	-	ENST00000369325,ENST00000369327,ENST00000369329,ENST00000369332	10027-10032	1,15,14	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr7:100230403:->chr7:100228675:-	chr7	100230165	100230403	-	chr7	100228675	100228675,100228675,100228675,100228675	-	ENST00000223051,ENST00000431692,ENST00000490084,ENST00000462107	10033-10038	30,17,8	CCLE-COAD,CCLE-ESCA,CCLE-LUSC,CCLE-STAD

chr7:100230403:->chr7:100229821:-	chr7	100230165	100230403	-	chr7	100229821	100229821,100229821,100229821	-	ENST00000223051,ENST00000490084,ENST00000462107	10039-10043	30,17,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr7:100333758:+>chr7:100334106:+	chr7	100333658	100333758	+	chr7	100334106	100334252,100334252,100334252,100334252,100334252,100334252,100334252,100334252,100334252,100334252	+	ENST00000348028,ENST00000349350,ENST00000421100,ENST00000427578,ENST00000443370,ENST00000449052,ENST00000538115,ENST00000542585,ENST00000546292	10044-10048	7,11	CCLE-BRCA
chr7:100457191:+>chr7:100457507:+	chr7	100457057	100457191	+	chr7	100457507	100457664,100457571,100457664,100457664,100457664,100457664,100457664,100457664	+	ENST00000540482,ENST00000448342,ENST00000418037,ENST00000027572,ENST00000428758,ENST00000415287,ENST00000354161,ENST00000416675	10049-10057	29,2,36	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr7:102138908:->chr7:102137411:-	chr7	102138698	102138908	-	chr7	102137411	102137411,102137411,102137411	-	ENST00000541662,ENST00000465829,ENST00000306682	10058-10061	11,32,24	CCLE-LUSC
chr7:102238072:->chr7:102236576:-	chr7	102237861	102238072	-	chr7	102236576	102236576,102236576,102236576,102236576,102236576	-	ENST00000262940,ENST00000461209,ENST00000449870,ENST00000462172,ENST00000522801	10062-10067	11,33,24	CCLE-BRCA,CCLE-LUSC,CCLE-SKCM
chr7:102246056:->chr7:102143691:-	chr7	102245850	102246056	-	chr7	102143691	102143691,102143691,102143691	-	ENST00000541662,ENST00000465829,ENST00000306682	10068-10071	11,3,25	CCLE-BLCA,CCLE-DLBC,CCLE-SARC,CCLE-SKCM
chr7:103047024:->chr7:103038461:-	chr7	103044643	103047024	-	chr7	103038461	103038461,103038461,103038461,103038461,103038461,103038461,103038461,103038461,103038461,103038461	-	ENST00000339444,ENST00000356767,ENST00000393735,ENST00000393730,ENST00000454864,ENST00000306312,ENST00000432958,ENST00000423416,ENST00000393729,ENST00000393723,ENST00000393727	10072-10082	15,22,21	CCLE-MM
chr7:104749105:+>chr7:104749389:+	chr7	104749017	104749105	+	chr7	104749389	104749675,104749675,104749675,104749675	+	ENST00000311117,ENST00000334914,ENST00000257745,ENST00000334877	10083-10084	17,15	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr7:104749109:+>chr7:104749389:+	chr7	104749017	104749109	+	chr7	104749389	104749675,104749675,104749675,104749675	+	ENST00000311117,ENST00000334914,ENST00000257745,ENST00000334877	10085-10086	16,2	CCLE-LUSC,CCLE-STAD
chr7:105560053:+>chr7:105615290:+	chr7	105559739	105560053	+	chr7	105615290	105615492,105615492,105615492,105615492	+	ENST00000542731,ENST00000317716,ENST00000496633,ENST00000541203	10087-10091	10,7,33	CCLE-LUSC
chr7:106750402:+>chr7:106762397:+	chr7	106750281	106750402	+	chr7	106762397	106762449	+	ENST00000265717	10092-10094	5,32,14	CCLE-DLBC
chr7:111475146:->chr7:111474742:-	chr7	111475068	111475146	-	chr7	111474742	111474742,111474742,111474742,111474742	-	ENST00000423057,ENST00000428084,ENST00000437633,ENST00000445943	10095-10099	12,18,20	CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr7:111726569:->chr7:111644186:-	chr7	111726533	111726569	-	chr7	111644186	111644186,111644186,111644186	-	ENST00000428084,ENST00000437633,ENST00000445943	10100-10104	3,21,7	CCLE-KIRC
chr7:11606819:->chr7:11582744:-	chr7	11606738	11606819	-	chr7	11582744	11582744	-	ENST00000423059	10105-10107	1,11,46	CCLE-DLBC
chr7:116139622:+>chr7:116139895:+	chr7	116139613	116139622	+	chr7	116139895	116139985,116139985,116139985	+	ENST00000222693,ENST00000343213,ENST00000393480	10108-10114	3,4	CCLE-HNSC,CCLE-KIRC,CCLE-LUSC,CCLE-OV,CCLE-PAAD
chr7:116198570:+>chr7:116199000:+	chr7	116198533	116198570	+	chr7	116199000	116199341,116199341,116199311,116199341,116199341	+	ENST00000341049,ENST00000393470,ENST00000405348,ENST00000045647,ENST00000393468,ENST00000393467	10115-10118	12,13	CCLE-BLCA,CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr7:117129380:+>chr7:117144307:+	chr7	117129200	117129380	+	chr7	117144307	117144417,117144417,117144417	+	ENST00000003084,ENST00000454343,ENST00000426809	10119-10123	11,4,12	CCLE-COAD
chr7:117294775:+>chr7:117304742:+	chr7	117294491	117294775	+	chr7	117304742	117304914,117304914,117304914	+	ENST00000003084,ENST00000454343,ENST00000426809,ENST00000600166	10124-10128	8,38,20	CCLE-COAD
chr7:126155693:->chr7:126086426:-	chr7	126155505	126155693	-	chr7	126086426	126086426,126086426,126086426,126086426	-	ENST00000444921,ENST00000339582,ENST00000358373,ENST00000472701	10129-10132	14,4,2	CCLE-LGG,CCLE-LUSC
chr7:126341143:->chr7:126249552:-	chr7	126341117	126341143	-	chr7	126249552	126249552,126249552,126249552,126249552,126249552	-	ENST00000444921,ENST00000339582,ENST00000358373,ENST00000341617,ENST00000472701,ENST00000405249	10133-10137	10,6,11	CCLE-BLCA,CCLE-KIRC
chr7:131189781:->chr7:131189267:-	chr7	131189755	131189781	-	chr7	131189267	131189267,131189267,131189267	-	ENST00000537928,ENST00000541194,ENST00000378555,ENST00000322985	10138-10140	4,6,22	CCLE-LUSC,CCLE-PAAD
chr7:131190106:->chr7:131189267:-	chr7	131189986	131190106	-	chr7	131189267	131189267,131189267,131189267	-	ENST00000537928,ENST00000541194,ENST00000378555,ENST00000322985	10141-10143	7,6	CCLE-LUSC
chr7:131207480:->chr7:131196192:-	chr7	131207444	131207480	-	chr7	131196192	131196192,131196192,131196192,131196192,131196192	-	ENST00000446198,ENST00000537928,ENST00000541194,ENST00000378555,ENST00000322985	10144-10148	2,1	CCLE-COAD,CCLE-LCLL,CCLE-LGG,CCLE-MM,CCLE-PAAD
chr7:132174411:->chr7:132174233:-	chr7	132174310	132174411	-	chr7	132174233	132174233,132174233,132174233,132174233	-	ENST00000321063,ENST00000359827,ENST00000423507,ENST00000378539	10149-10153	27,33	CCLE-LCLL
chr7:132183096:->chr7:132174233:-	chr7	132183031	132183096	-	chr7	132174233	132174233,132174233,132174233,132174233	-	ENST00000321063,ENST00000359827,ENST00000423507,ENST00000378539	10154-10158	21,8,43	CCLE-LGG
chr7:137387856:->chr7:137374748:-	chr7	137387779	137387856	-	chr7	137374748	137374748,137374748,137374748	-	ENST00000288490,ENST00000424189,ENST00000446122	10159-10162	4,16	CCLE-LGG
chr7:141730907:+>chr7:141731480:+	chr7	141730692	141730907	+	chr7	141731480	141731593,1	+	ENST00000549489,ENST00000475668	10163-10166	25,37,13	CCLE-COAD
chr7:142030458:+>chr7:142032230:+	chr7	142030037	142030458	+	chr7	142032230	142032527	+	ENST00000547918	10167-10169	41,13,6	CCLE-LUSC
chr7:142196085:->chr7:142124428:-	chr7	142196009	142196085	-	chr7	142124428	142124428	-	ENST00000390376	10170-10172	19,8,60	CCLE-LCLL
chr7:142196085:->chr7:142162225:-	chr7	142196009	142196085	-	chr7	142162225	142162225	-	ENST00000390371	10173-10175	19,8,60	CCLE-LCLL
chr7:142196085:->chr7:142180809:-	chr7	142196009	142196085	-	chr7	142180809	142180809	-	ENST00000390368	10176-10178	19,8,60	CCLE-LCLL
chr7:143325587:+>chr7:143416776:+	chr7	143325532	143325587	+	chr7	143416776	143417767,143417767,143417767,143417767,143417767,143417767	+	ENST00000444908,ENST00000518791,ENST00000357344,ENST00000441159,ENST00000411935,ENST00000409703	10179-10183	3,11,19	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr7:143404806:+>chr7:143416776:+	chr7	143404751	143404806	+	chr7	143416776	143417767,143417767,143417767,143417767,143417767,143417767	+	ENST00000444908,ENST00000518791,ENST00000357344,ENST00000441159,ENST00000411935,ENST00000409703	10184-10188	3,11,19	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr7:14386685:->chr7:14385016:-	chr7	14386608	14386685	-	chr7	14385016	14385016,14385016,14385016,14385016,14385016,14385016	-	ENST00000258767,ENST00000399322,ENST00000403951,ENST00000402815,ENST00000407950,ENST00000444700,ENST00000406247	10189-10192	6,8	CCLE-LCLL
chr7:1476990:->chr7:1476472:-	chr7	1476875	1476990	-	chr7	1476472	1476492,148	-	ENST00000405088,ENST00000297508	10193-10195	23,24,14	CCLE-STAD
chr7:1476990:->chr7:1476481:-	chr7	1476875	1476990	-	chr7	1476481	1476492,148	-	ENST00000405088,ENST00000297508	10196-10198	23,24,14	CCLE-PAAD
chr7:150655920:->chr7:150648787:-	chr7	150655811	150655920	-	chr7	150648787	150648923,150648923,150648923	-	ENST00000330883,ENST00000392968,ENST00000262186,ENST00000430723	10199-10202	5	CCLE-LCLL,CCLE-LUSC
chr7:158172537:->chr7:158109624:-	chr7	158172454	158172537	-	chr7	158109624	158109624,158109624,158109624,158109624,158109624	-	ENST00000389413,ENST00000389416,ENST00000389418,ENST00000404321	10203-10206	22,8,19	CCLE-DLBC
chr7:158229356:->chr7:158109624:-	chr7	158229273	158229356	-	chr7	158109624	158109624,158109624,158109624,158109624,158109624	-	ENST00000389413,ENST00000389416,ENST00000389418,ENST00000404321	10207-10210	36,23,19	CCLE-LUSC
chr7:158583866:->chr7:158581108:-	chr7	158583650	158583866	-	chr7	158581108	158581108,2	-	ENST00000251527,ENST00000275418	10211-10214	23,5,1	CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-STAD
chr7:158583871:->chr7:158581108:-	chr7	158583650	158583871	-	chr7	158581108	158581108,2	-	ENST00000251527,ENST00000275418	10215-10218	21,36,4	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr7:20708127:+>chr7:20721128:+	chr7	20707326	20708127	+	chr7	20721128	20721289,21	+	ENST00000404938,ENST00000258738	10219-10221	15,1,38	CCLE-LUSC

chr7:23086305:->chr7:23023664:-	chr7	23084916	23086305	-	chr7	23023664	23023664,23023664,23023664,23023664,23023664	-	ENST00000432176,ENST00000440481,ENST00000409923,ENST00000409763	10222-10226	27,12,38	CCLE-ESCA,CCLE-HNSC
chr7:23086305:->chr7:23053658:-	chr7	23084916	23086305	-	chr7	23053658	23053749	-	ENST00000440481	10227-10229	27,12,38	CCLE-ESCA
chr7:23301184:+>chr7:23306100:+	chr7	23300950	23301184	+	chr7	23306100	23306234,23	+	ENST00000381990,ENST00000453162	10230-10232	17,79,34	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr7:23301184:+>chr7:23306136:+	chr7	23300950	23301184	+	chr7	23306136	23306234,23306234,23306234,23306234	+	ENST00000258733,ENST00000381990,ENST00000539136,ENST00000453162	10233-10235	17,79,34	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr7:23358043:->chr7:23357332:-	chr7	23357849	23358043	-	chr7	23357332	23357332	-	ENST00000258729	10236-10237	11,25	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr7:23385778:->chr7:23385681:-	chr7	23385746	23385778	-	chr7	23385681	23385681	-	ENST00000258729	10238-10240	6,9	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV
chr7:23435746:->chr7:23401360:-	chr7	23435739	23435746	-	chr7	23401360	23401360	-	ENST00000258729	10241-10243	19,36,32	CCLE-LUSC,CCLE-MM
chr7:23455748:->chr7:23401360:-	chr7	23455586	23455748	-	chr7	23401360	23401360	-	ENST00000258729	10244-10246	26,8,2	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr7:23455820:->chr7:23401360:-	chr7	23455586	23455820	-	chr7	23401360	23401360	-	ENST00000258729	10247-10249	1,2	CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr7:24823940:->chr7:24784373:-	chr7	24823837	24823940	-	chr7	24784373	24784373,25	-	ENST00000342947,ENST00000409775	10250-10252	29,24,2	CCLE-LCLL
chr7:24834709:->chr7:24784373:-	chr7	24833400	24834709	-	chr7	24784373	24784373,25	-	ENST00000342947,ENST00000409775	10253-10255	64,39,16	CCLE-LCLL
chr7:24849836:->chr7:24849570:-	chr7	24849711	24849836	-	chr7	24849570	24849570,24849570,24849570,24849570,24849570	-	ENST00000313367,ENST00000352860,ENST00000353930,ENST00000431825,ENST00000396431,ENST00000396429,ENST00000409069	10256-10257	9	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SKCM
chr7:2819777:->chr7:2773135:-	chr7	2819729	2819777	-	chr7	2773135	2773135,2773135,2773135,2773135	-	ENST00000275364,ENST00000407904,ENST00000396960,ENST00000407653	10258-10260	1,3,39	CCLE-KIRC,CCLE-LUSC,CCLE-STAD
chr7:2854766:->chr7:2854023:-	chr7	2854676	2854766	-	chr7	2854023	2854023	-	ENST00000407904	10261-10263	41,26,32	CCLE-LUSC
chr7:2882047:->chr7:2834777:-	chr7	2881967	2882047	-	chr7	2834777	2834777,2834777,2834777,2834777	-	ENST00000275364,ENST00000407904,ENST00000544127,ENST00000447791	10264-10268	3,1,8	CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr7:30267361:+>chr7:30363258:+	chr7	30267335	30267361	+	chr7	30363258	30363353	+	ENST00000323037	10269-10271	9,1	CCLE-BRCA,CCLE-COAD,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-STAD
chr7:30360270:+>chr7:30363258:+	chr7	30360246	30360270	+	chr7	30363258	30363353	+	ENST00000323037	10272-10274	4,8,1	CCLE-DLBC
chr7:30363918:+>chr7:30395344:+	chr7	30363868	30363918	+	chr7	30395344	30395449	+	ENST00000323037	10275-10277	17,8	CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr7:3646035:+>chr7:3658712:+	chr7	3645663	3646035	+	chr7	3658712	3658871,366	+	ENST00000404826,ENST00000389531	10278-10281	1,11,4	CCLE-ESCA,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr7:37209001:->chr7:37172839:-	chr7	37202948	37209001	-	chr7	37172839	37172839,37172839,37172839,37172839,37172839,37172839	-	ENST00000341056,ENST00000310758,ENST00000442504,ENST00000448602,ENST00000420636,ENST00000433246	10282-10287	1,7,32	CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LUSC
chr7:38376214:->chr7:38370254:-	chr7	38375699	38376214	-	chr7	38370254	38370254	-	ENST00000390343	10288-10290	66,24,6	CCLE-LCLL
chr7:39704889:+>chr7:39736284:+	chr7	39702783	39704889	+	chr7	39736284	39736458,4	+	ENST00000005257,ENST00000434466	10291-10292	1,66	CCLE-LUSC
chr7:51089142:->chr7:51085265:-	chr7	51089021	51089142	-	chr7	51085265	51085265,51085265,51085265,51085265	-	ENST00000431948,ENST00000445054,ENST00000265136,ENST00000395542	10293-10295	39,27,1	CCLE-COAD,CCLE-ESCA,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr7:51089187:->chr7:51085265:-	chr7	51089021	51089187	-	chr7	51085265	51085265,51085265,51085265,51085265	-	ENST00000431948,ENST00000445054,ENST00000265136,ENST00000395542	10296-10298	2,24,12	CCLE-BRCA,CCLE-LUSC
chr7:5340708:+>chr7:5342458:+	chr7	5340608	5340708	+	chr7	5342458	5342570,5342570,5342570	+	ENST00000396872,ENST00000297195,ENST00000406453	10299-10301	34,11,7	CCLE-LUSC
chr7:55205435:+>chr7:55209979:+	chr7	55205366	55205435	+	chr7	55209979	55210130,55210130,55210130,55210130,55210130,55210130	+	ENST00000455089,ENST00000342916,ENST00000344576,ENST00000420316,ENST00000275493,ENST00000442591	10302-10309	9,10,18	CCLE-BLCA,CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC
chr7:618352:->chr7:591107:-	chr7	618307	618352	-	chr7	591107	591107,591107,591107,591107,591107	-	ENST00000544935,ENST00000537384,ENST00000406797,ENST00000403562,ENST00000360274,ENST00000400758	10310-10312	13,35,22	CCLE-LUSC
chr7:6213821:->chr7:6213364:-	chr7	6213741	6213821	-	chr7	6213364	6213364	-	ENST00000350796	10313-10315	16,14,21	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr7:6307875:->chr7:6230162:-	chr7	6307801	6307875	-	chr7	6230162	6230162	-	ENST00000350796	10316-10318	7,35,21	CCLE-PRAD
chr7:6463467:->chr7:6461435:-	chr7	6463222	6463467	-	chr7	6461435	6461435,6461435,6461435,6461435,6461435	-	ENST00000297056,ENST00000425398,ENST00000436575,ENST00000428902,ENST00000421761	10319-10323	13,8	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD
chr7:6485343:->chr7:6461435:-	chr7	6485141	6485343	-	chr7	6461435	6461435,6461435,6461435,6461435,6461435	-	ENST00000297056,ENST00000425398,ENST00000436575,ENST00000428902,ENST00000421761	10324-10328	17,8	CCLE-LUSC
chr7:6485343:->chr7:6470238:-	chr7	6485141	6485343	-	chr7	6470238	6470238,6470238,6470238	-	ENST00000297056,ENST00000436575,ENST00000428902	10329-10332	17,8	CCLE-BRCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr7:6485343:->chr7:6472590:-	chr7	6485141	6485343	-	chr7	6472590	6472590,6472590,6472590,6472590,6472590	-	ENST00000297056,ENST00000425398,ENST00000436575,ENST00000428902,ENST00000421761,ENST00000454738	10333-10341	17,8	CCLE-BLCA,CCLE-BRCA,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC,CCLE-SKCM
chr7:6485343:->chr7:6476164:-	chr7	6485141	6485343	-	chr7	6476164	6476164,6476164,6476164,6476164	-	ENST00000297056,ENST00000425398,ENST00000436575,ENST00000432248	10342-10346	17,8	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr7:660934:->chr7:647089:-	chr7	660776	660934	-	chr7	647089	647089,647089,647089,647089,647089,647089	-	ENST00000544935,ENST00000537384,ENST00000406797,ENST00000403562,ENST00000360274,ENST00000430040,ENST00000414568,ENST00000417852	10347-10352	11,7	CCLE-BLCA,CCLE-HNSC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr7:6620531:+>chr7:6621238:+	chr7	6620403	6620531	+	chr7	6621238	6621311,6621311,6621311,6621311,6621311,6621311	+	ENST00000405731,ENST00000396707,ENST00000396713,ENST00000335965,ENST00000396709,ENST00000483589,ENST00000396706	10353-10356	13,43,11	CCLE-BLCA,CCLE-LUSC
chr7:71288786:->chr7:71275477:-	chr7	71288724	71288786	-	chr7	71275477	71275477,71275477,71275477,71275477,71275477,71275477	-	ENST00000329008,ENST00000395275,ENST00000395276,ENST00000405452,ENST00000412588,ENST00000431984	10357-10359	8,4,42	CCLE-LGG,CCLE-LIHC,CCLE-SKCM,CCLE-THCA
chr7:71591273:->chr7:71571279:-	chr7	71591083	71591273	-	chr7	71571279	71571279,71571279,71571279,71571279,71571279,71571279	-	ENST00000329008,ENST00000395275,ENST00000395276,ENST00000405452,ENST00000412588,ENST00000431984,ENST00000446128	10360-10362	4,6	CCLE-MM
chr7:71787096:->chr7:71743795:-	chr7	7178692O	71787096	-	chr7	71743795	71743795,72	-	ENST00000395275,ENST00000412588	10363-10365	4,29,1	CCLE-LUSC,CCLE-MM
chr7:73124269:->chr7:73123452:-	chr7	73124231	73124269	-	chr7	73123452	73123452,73123452,73123452,73123452	-	ENST00000222812,ENST00000395156,ENST00000395154,ENST00000395155	10366-10371	31,9	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr7:76044541:+>chr7:76054369:+	chr7	76044411	76044541	+	chr7	76054369	76054593	+	ENST00000394857	10372-10374	3,9,2	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-KIRC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr7:79763628:+>chr7:79818267:+	chr7	79763586	79763628	+	chr7	79818267	79818309	+	ENST00000351004	10375-10377	8,15,14	CCLE-LCLL
chr7:87130521:->chr7:87092224:-	chr7	87130444	87130521	-	chr7	87092224	87092224,87092224,87092224,87092224,87092224,87092224	-	ENST00000359206,ENST00000358400,ENST00000265723,ENST00000453593,ENST00000545634,ENST00000417608	10378-10384	13,44,56	CCLE-DLBC

chr7:87130521:->chr7:87101991:-	chr7	87130444	87130521	-	chr7	87101991	87101991,87101991,87101991,87101991,87101991,87101991	-	ENST00000359206,ENST00000358400,ENST00000265723,ENST00000453593,ENST00000545634,ENST00000041760	10385-10390	13,44,56	CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-SKCM
chr7:87157259:->chr7:87150192:-	chr7	87157176	87157259	-	chr7	87150192	87150192,87	-	ENST00000265724,ENST00000543898	10391-10393	39,8,37	CCLE-LUSC
chr7:87166354:->chr7:87165857:-	chr7	87166033	87166354	-	chr7	87165857	87165857,87	-	ENST00000265724,ENST00000543898	10394-10395	10	CCLE-COAD,CCLE-LUSC
chr7:90413323:+>chr7:90419888:+	chr7	90412754	90413323	+	chr7	90419888	90419943,90419942,90419943,90419967,90419967,90419967,90419967,90419967	+	ENST00000449528,ENST00000446224,ENST00000430760,ENST00000456689,ENST00000380050,ENST00000026574,ENST00000406263,ENST00000431029,ENST00000436577	10396-10401	57,41,2	CCLE-MM
chr7:90492313:+>chr7:90492490:+	chr7	90492214	90492313	+	chr7	90492490	90492584,90492584,90492520,90492584	+	ENST00000380050,ENST00000265741,ENST00000406263,ENST00000431029,ENST00000436577	10402-10405	7,33,11	CCLE-MM
chr7:91862256:->chr7:91855996:-	chr7	91862005	91862256	-	chr7	91855996	91855996,91855996,91855596,91855996,91855596,91855996	-	ENST00000394507,ENST00000340022,ENST00000412043,ENST00000394505,ENST00000394503,ENST00000445516	10406-10409	17,16,8	CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SKCM,CCLE-STAD
chr7:94270159:->chr7:94268760:-	chr7	94269949	94270159	-	chr7	94268760	94268760	-	ENST00000415788	10410-10412	16,11,34	CCLE-LUSC
chr7:94316874:->chr7:94259153:-	chr7	94316797	94316874	-	chr7	94259153	94259153,94259153,94259153,94259153	-	ENST00000265735,ENST00000445866,ENST00000447873,ENST00000428696,ENST00000415788	10413-10419	14,17,6	CCLE-BRCA
chr7:960874:->chr7:959687:-	chr7	960717	960874	-	chr7	959687	959687,959687,959687,959687,959687,959687,959687,959687	-	ENST00000265846,ENST00000446141,ENST00000449296,ENST00000539900,ENST00000437486,ENST00000454383,ENST00000453823,ENST00000435943	10420-10426	20,16,10	CCLE-COAD
chr7:960963:->chr7:959687:-	chr7	960963	960963	-	chr7	959687	959687,959687,959687,959687,959687,959687,959687,959687	-	ENST00000265846,ENST00000446141,ENST00000449296,ENST00000539900,ENST00000437486,ENST00000454383,ENST00000453823,ENST00000435943	10427-10433	9,4,31	CCLE-COAD
chr7:961155:->chr7:959687:-	chr7	960963	961155	-	chr7	959687	959687,959687,959687,959687,959687,959687,959687,959687	-	ENST00000265846,ENST00000446141,ENST00000449296,ENST00000539900,ENST00000437486,ENST00000454383,ENST00000453823,ENST00000435943	10434-10440	32,19,23	CCLE-COAD,CCLE-STAD
chr7:98635020:->chr7:98634810:-	chr7	98634870	98635020	-	chr7	98634810	98634810,99	-	ENST00000361368,ENST00000361125	10441-10443	25,12,2	CCLE-LUSC
chr7:98651080:->chr7:98650069:-	chr7	98651023	98651080	-	chr7	98650069	98650069,99	-	ENST00000361368,ENST00000361125	10444-10448	9,11,2	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr7:986892:->chr7:975141:-	chr7	986669	986892	-	chr7	975141	975141,975141,975141,975141,975141	-	ENST00000265846,ENST00000539900,ENST00000457254,ENST00000435943	10449-10452	11,25	CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr7:986910:->chr7:975141:-	chr7	986669	986910	-	chr7	975141	975141,975141,975141,975141,975141,975141	-	ENST00000265846,ENST00000539900,ENST00000457254,ENST00000435943	10453-10457	5,28,19	CCLE-COAD,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr7:99532778:->chr7:99521226:-	chr7	99532695	99532778	-	chr7	99521226	99521226	-	ENST00000312891	10458-10460	8,19,37	CCLE-COAD,CCLE-DLBC,CCLE-MM,CCLE-SKCM
chr8:104325460:+>chr8:104330818:+	chr8	104325256	104325460	+	chr8	104330818	104331014,104331014,104331014,104331014,104331014,104331014	+	ENST00000522566,ENST00000358755,ENST00000522484,ENST00000523933,ENST00000523739	10461-10465	8,68,14	CCLE-LUSC
chr8:104538219:+>chr8:104709314:+	chr8	104538059	104538219	+	chr8	104709314	104709524,1	+	ENST00000504942,ENST00000406091	10466-10469	18,15,50	CCLE-LUSC
chr8:104963633:+>chr8:104973293:+	chr8	104963547	104963633	+	chr8	104973293	104973361,104973361,104973361,104973361,104973361,104973361	+	ENST00000504942,ENST00000406091,ENST00000262231,ENST00000507740,ENST00000408894,ENST00000436393	10470-10476	7,1,29	CCLE-LUSC
chr8:104999232:+>chr8:105001533:+	chr8	104999138	104999232	+	chr8	105001533	105001649,105001649,105001649,105001649,105001649,105001649	+	ENST00000504942,ENST00000406091,ENST00000262231,ENST00000507740,ENST00000408894,ENST00000436393	10477-10483	4,26,10	CCLE-LUSC
chr8:104999529:+>chr8:105001533:+	chr8	104999504	104999529	+	chr8	105001533	105001649,105001649,105001649,105001649,105001649,105001649	+	ENST00000504942,ENST00000406091,ENST00000262231,ENST00000507740,ENST00000408894,ENST00000436393	10484-10490	8,3	CCLE-LUSC
chr8:10795840:->chr8:10782340:-	chr8	10789936	10795840	-	chr8	10782340	10782340,11	-	ENST00000382461,ENST00000416569	10491-10493	24,1,32	CCLE-COAD,CCLE-ESCA,CCLE-MM
chr8:113319624:->chr8:113318421:-	chr8	113319522	113319624	-	chr8	113318421	113318421,113318421,113318421,113318421,113318421,113318421	-	ENST00000343508,ENST00000297405,ENST00000339701,ENST00000455883,ENST00000352409	10494-10497	13,1,8	CCLE-LUSC
chr8:113410443:->chr8:113403017:-	chr8	113410041	113410443	-	chr8	113403017	113403017,113403017,113403017,113403017,113403017,113403017	-	ENST00000343508,ENST00000297405,ENST00000339701,ENST00000455883,ENST00000352409	10498-10501	1,26,62	CCLE-COAD
chr8:113686332:->chr8:113678644:-	chr8	113686115	113686332	-	chr8	113678644	113678644,113678644,113678644,113678644,113678644,113678644	-	ENST00000343508,ENST00000297405,ENST00000339701,ENST00000455883,ENST00000352409	10502-10506	18,25,29	CCLE-COAD,CCLE-LUSC
chr8:113686427:->chr8:113678644:-	chr8	113686115	113686427	-	chr8	113678644	113678644,113678644,113678644,113678644,113678644,113678644	-	ENST00000343508,ENST00000297405,ENST00000339701,ENST00000455883,ENST00000352409	10507-10511	44,1,11	CCLE-COAD,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-SARC
chr8:113686489:->chr8:113678644:-	chr8	113686115	113686489	-	chr8	113678644	113678644,113678644,113678644,113678644,113678644,113678644	-	ENST00000343508,ENST00000297405,ENST00000339701,ENST00000455883,ENST00000352409	10512-10516	24,40,1	CCLE-COAD,CCLE-LUSC
chr8:117963358:+>chr8:118159193:+	chr8	117963295	117963358	+	chr8	118159193	118159392	+	ENST00000456015	10517-10519	7,13,2	CCLE-LIHC,CCLE-MM
chr8:117963358:+>chr8:118165183:+	chr8	117963295	117963358	+	chr8	118165183	118165329,118165321,118165329,118165329,118165329,118165329	+	ENST00000521243,ENST00000524274,ENST00000427715,ENST00000519688,ENST00000456015	10520-10523	7,13,2	CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr8:121565078:->chr8:121561198:-	chr8	121564900	121565078	-	chr8	121561198	121561198,1	-	ENST00000395601,ENST00000517992	10524-10526	32,4,12	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr8:121815024:->chr8:121706148:-	chr8	121815011	121815024	-	chr8	121706148	121706148,1	-	ENST00000395601,ENST00000517992	10527-10528	28,12	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-UCEC
chr8:133192002:->chr8:133187855:-	chr8	133191816	133192002	-	chr8	133187855	133187855,133187855,133187855	-	ENST00000388996,ENST00000521134,ENST00000519445	10529-10532	11,12	CCLE-LUSC,CCLE-THCA
chr8:13965940:->chr8:13965744:-	chr8	13965864	13965940	-	chr8	13965744	13965744,14	-	ENST00000382080,ENST00000421524	10533-10535	8,46,40	CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-STAD,CCLE-THCA
chr8:141677896:->chr8:141675096:-	chr8	141677819	141677896	-	chr8	141675096	141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096,141675096	-	ENST00000522684,ENST00000519654,ENST00000535192,ENST00000519465,ENST00000517887,ENST00000521059,ENST00000395218,ENST00000517712,ENST00000523539,ENST00000538769,ENST00000340930,ENST00000519419,ENST00000430260,ENST00000521986	10536-10538	2,39,18	CCLE-LUSC
chr8:141722987:->chr8:141716304:-	chr8	141722117	141722987	-	chr8	141716304	141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304,141716304	-	ENST00000522684,ENST00000519654,ENST00000535192,ENST00000519465,ENST00000517887,ENST00000521059,ENST00000395218,ENST00000523539,ENST00000538769,ENST00000340930,ENST00000519419,ENST00000430260,ENST00000521986,ENST00000522424,ENST00000521562,ENST00000523388	10539-10552	73,8,34	CCLE-LUSC

chr8:141732574:->chr8:141727808:-	chr8	141732374	141732574	-	chr8	141727808	141727808,141727808,141727808,141727808,141727808,141727808,141727808,141727808,141727808,141727808,141727808,141727808,141727808,141727808	-	ENST00000522684,ENST00000519654,ENST00000535192,ENST00000519465,ENST00000517887,ENST00000521059,ENST00000395218,ENST00000523539,ENST00000538769,ENST00000340930,ENST00000519419,ENST00000521250,ENST00000521981	10553-10561	17,15,22	CCLE-BLCA,CCLE-HNSC,CCLE-LUSC
chr8:141777761:->chr8:141774389:-	chr8	141777593	141777761	-	chr8	141774389	141774389,141774389,141774389,141774450,141774389,141774389,141774389,141774389,141774389,141774389,141774389,141774389,141774389,141774389,141774389,141774450,141774450,141774450	-	ENST00000522684,ENST00000519654,ENST00000535192,ENST00000519465,ENST00000517887,ENST00000521059,ENST00000395218,ENST00000523539,ENST00000538769,ENST00000340930,ENST00000519419,ENST00000524202,ENST00000521986,ENST00000521981,ENST00000521029,ENST00000520151,ENST00000523670,ENST00000519024	10562-10575	37,14,19	CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chr8:141831638:->chr8:141829119:-	chr8	141831324	141831638	-	chr8	141829119	141829119,141829119,141829119,141829119,141829119,141829119,141829119,141829119	-	ENST00000522684,ENST00000519654,ENST00000535192,ENST00000517887,ENST00000521059,ENST00000395218,ENST00000340930,ENST00000519419,ENST00000524202,ENST00000524357	10576-10583	19,26,8	CCLE-BLCA,CCLE-LGG,CCLE-LIHC,CCLE-LUSC
chr8:141842353:->chr8:141840625:-	chr8	141842161	141842353	-	chr8	141840625	141840625,141840625,141840625,141840625,141840625,141840625,141840625,141840625	-	ENST00000522684,ENST00000519654,ENST00000535192,ENST00000517887,ENST00000521059,ENST00000395218,ENST00000340930,ENST00000519419,ENST00000524202,ENST00000524357	10584-10585	11,25	CCLE-LUSC
chr8:141854046:->chr8:141840625:-	chr8	141853794	141854046	-	chr8	141840625	141840625,141840625,141840625,141840625,141840625,141840625,141840625,141840625	-	ENST00000522684,ENST00000519654,ENST00000535192,ENST00000517887,ENST00000521059,ENST00000395218,ENST00000340930,ENST00000519419,ENST00000524202,ENST00000524357	10586-10593	2,33,7	CCLE-LUSC
chr8:141884562:->chr8:141874498:-	chr8	141884485	141884562	-	chr8	141874498	141874498,141874498,141874498,141874498,141874498,141874498,141874498,141874498,141874498,141874498,141874498,141874498,141874498,141874498	-	ENST00000522684,ENST00000519654,ENST00000535192,ENST00000517887,ENST00000521059,ENST00000395218,ENST00000340930,ENST00000519993,ENST00000519419,ENST00000521791,ENST00000523067,ENST00000520828,ENST00000520475	10594-10602	14,3	CCLE-LIHC,CCLE-LUSC
chr8:143762099:+>chr8:143762745:+	chr8	143762061	143762099	+	chr8	143762745	143762852,1	+	ENST00000301258,ENST00000513264	10603-10607	13	CCLE-LUSC
chr8:144637366:+>chr8:144640548:+	chr8	144637271	144637366	+	chr8	144640548	144640621	+	ENST00000533063	10608-10610	12,32,2	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PRAD,CCLE-SARC,CCLE-STAD
chr8:17517462:->chr8:17513574:-	chr8	17517244	17517462	-	chr8	17513574	17513574,17513574,17513574,17513574,17513574,17513574,17513574,17513574	-	ENST00000400046,ENST00000544260,ENST00000381869,ENST00000297488,ENST00000381861,ENST00000262102,ENST00000519263	10611-10613	15,5,1	CCLE-LUSC,CCLE-STAD
chr8:17517471:->chr8:17513574:-	chr8	17517244	17517471	-	chr8	17513574	17513574,17513574,17513574,17513574,17513574,17513574,17513574,17513574	-	ENST00000400046,ENST00000544260,ENST00000381869,ENST00000297488,ENST00000381861,ENST00000262102,ENST00000519263	10614-10616	14,12,2	CCLE-BLCA,CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chr8:17523277:->chr8:17513574:-	chr8	17523245	17523277	-	chr8	17513574	17513574,17513574,17513574,17513574,17513574,17513574,17513574,17513574	-	ENST00000400046,ENST00000544260,ENST00000381869,ENST00000297488,ENST00000381861,ENST00000262102,ENST00000519263	10617-10619	18,4	CCLE-LIHC
chr8:17543672:->chr8:17542051:-	chr8	17543649	17543672	-	chr8	17542051	17542051,17542051,17542051,17542051,17542051,17542051,17542051,17542051	-	ENST00000544260,ENST00000381869,ENST00000297488,ENST00000381861,ENST00000262102,ENST00000519263	10620-10622	32,17,12	CCLE-DLBC,CCLE-ESCA,CCLE-LUSC
chr8:17567229:->chr8:17542051:-	chr8	17567074	17567229	-	chr8	17542051	17542051,17542051,17542051,17542051,17542051,17542051,17542051,17542051	-	ENST00000544260,ENST00000381869,ENST00000297488,ENST00000381861,ENST00000262102,ENST00000519263	10623-10625	2,3,1	CCLE-COAD,CCLE-ESCA,CCLE-PAAD
chr8:18797602:->chr8:18793652:-	chr8	18797563	18797602	-	chr8	18793652	18793652,18793652,18793652,18793652	-	ENST00000327040,ENST00000440756,ENST00000521475	10626-10630	32,28,50	CCLE-LUSC
chr8:18797623:->chr8:18793652:-	chr8	18797563	18797623	-	chr8	18793652	18793652,18793652,18793652,18793652	-	ENST00000327040,ENST00000440756,ENST00000521475	10631-10635	25,21,43	CCLE-LGG,CCLE-SKCM
chr8:20061594:+>chr8:20061995:+	chr8	20061546	20061594	+	chr8	20061995	20062050,20062050,20062050,20062050	+	ENST00000276390,ENST00000523478,ENST00000519667	10636-10640	1,16,15	CCLE-SKCM
chr8:21569754:->chr8:21563553:-	chr8	21569195	21569754	-	chr8	21563553	21563553,21563553,21563553,21563553,21563553,21563553,21563553,21563553	-	ENST00000524240,ENST00000400782,ENST00000517328,ENST00000518077,ENST00000517892,ENST00000522071	10641-10645	1,38,25	CCLE-LGG,CCLE-SARC
chr8:21569831:->chr8:21563553:-	chr8	21569195	21569831	-	chr8	21563553	21563553,21563553,21563553,21563553,21563553,21563553,21563553,21563553	-	ENST00000524240,ENST00000400782,ENST00000517328,ENST00000518077,ENST00000517892,ENST00000522071	10646-10650	27,12,38	CCLE-LGG,CCLE-SARC
chr8:21605876:->chr8:21563553:-	chr8	21605857	21605876	-	chr8	21563553	21563553,21563553,21563553,21563553,21563553,21563553,21563553,21563553	-	ENST00000524240,ENST00000400782,ENST00000517328,ENST00000518077,ENST00000517892,ENST00000522071	10651-10655	4,1,10	CCLE-LCLL
chr8:21693246:->chr6:31324195:-	chr8	21693213	21693246	-	chr6	31324195	31324219,31	-	ENST00000412585,ENST00000434333	10656-10659	42,7,58	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-MM,CCLE-PAAD
chr8:21932484:+>chr8:21937691:+	chr8	21932420	21932484	+	chr8	21937691	21937755,21937755,21937755,21937755,21937755,21937755,21937755,21937755,21937755,21937755,21937755,21937755,21937755,21937755	+	ENST00000381470,ENST00000432128,ENST00000443491,ENST00000517600,ENST00000523782,ENST00000265800,ENST00000358242,ENST00000415253,ENST00000523266,ENST00000519907,ENST00000517305	10660-10664	11,22	CCLE-COAD,CCLE-LCLL
chr8:22947801:+>chr8:22969233:+	chr8	22947731	22947801	+	chr8	22969233	22969338	+	ENST00000356864	10665-10667	23,13,16	CCLE-OV
chr8:25155387:+>chr8:25156460:+	chr8	25155287	25155387	+	chr8	25156460	25156617,25156617,25156617,25156617	+	ENST00000481100,ENST00000276440,ENST00000444569	10668-10673	34,13,2	CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr8:27834547:->chr8:27824059:-	chr8	27834476	27834547	-	chr8	27824059	27824059,27824059,27824059,27824059	-	ENST00000354914,ENST00000380385,ENST00000524352	10674-10679	23,14,17	CCLE-COAD,CCLE-LUSC,CCLE-SARC
chr8:29929861:->chr8:29927575:-	chr8	29928980	29929861	-	chr8	29927575	29927575,29927575,29927575,29927575,29927575,29927575,29927575,29927575	-	ENST00000256255,ENST00000521265,ENST00000520303,ENST00000518340,ENST00000522794,ENST00000523761	10680-10687	1,5,40	CCLE-CESC,CCLE-COAD,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr8:36762383:+>chr8:36763226:+	chr8	36762118	36762383	+	chr8	36763226	36763322,37	+	ENST00000399881,ENST00000522372	10688-10690	2,26	CCLE-COAD,CCLE-LUSC,CCLE-SARC
chr8:38933794:+>chr8:38934747:+	chr8	38933444	38933794	+	chr8	38934747	38934930,38934930,38934930,38934930,38934930,38934930,38934930,38934930	+	ENST00000487273,ENST00000481873,ENST00000379917,ENST00000468065	10691-10696	6,3,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr8:38946750:+>chr8:38947566:+	chr8	38946487	38946750	+	chr8	38947566	38947707,38947571,38947571,38947571	+	ENST00000487273,ENST00000379917,ENST00000468065	10697-10701	5,34,21	CCLE-BRCA,CCLE-LUSC,CCLE-OV
chr8:41131137:->chr8:41123008:-	chr8	41131022	41131137	-	chr8	41123008	41123008,41	-	ENST00000220772,ENST00000379845	10702-10703	2,1	CCLE-BRCA,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr8:41520137:->chr8:41519459:-	chr8	41520131	41520137	-	chr8	41519459	41519459,41519459,41519459,41519459,41519459,41519459,41519459,41519459	-	ENST00000289734,ENST00000347528,ENST00000396942,ENST00000522231,ENST00000522543,ENST00000314214,ENST00000520299,ENST00000265709	10704-10711	32,44,4	CCLE-LCLL,CCLE-LUSC

chr8:41670390:->chr8:41615655:-	chr8	41670177	41670390	-	chr8	41615655	41615655,41615655,41615655,41615655,41615655,41615655,41615655,41615655	-	ENST00000289734,ENST00000347528,ENST00000352337,ENST00000379758,ENST00000396942,ENST00000396945,ENST00000265709	10712-10720	16,6,13	CCLE-LUSC
chr8:42277113:->chr8:42275485:-	chr8	42277099	42277113	-	chr8	42275485	42275485,42275485	-	ENST00000342228,ENST00000520262,ENST00000520179	10721-10723	7,20,12	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr8:42301038:->chr8:42297171:-	chr8	42300841	42301038	-	chr8	42297171	42297171,42297171,42297171	-	ENST00000342228,ENST00000520262,ENST00000520179	10724-10726	14,3,28	CCLE-BLCA,CCLE-COAD,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr8:42651476:->chr8:42620347:-	chr8	42650837	42651476	-	chr8	42620347	42620347,43	-	ENST00000276410,ENST00000534622	10727-10731	3,47,22	CCLE-LUSC
chr8:54841324:+>chr8:54852139:+	chr8	54841106	54841324	+	chr8	54852139	54852284,54852284,54852284	+	ENST00000297313,ENST00000344277,ENST00000276500	10732-10734	34,19,7	CCLE-SKCM
chr8:54844227:+>chr8:54852136:+	chr8	54844161	54844227	+	chr8	54852136	54852284,54852284,54852284	+	ENST00000297313,ENST00000344277,ENST00000276500	10735-10737	5,15,8	CCLE-BRCA,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr8:54857930:+>chr8:54859225:+	chr8	54857306	54857930	+	chr8	54859225	54859308,54859308,54859308,54859236,54859308	+	ENST00000297313,ENST00000344277,ENST00000517659,ENST00000276500	10738-10742	37,67,10	CCLE-BRCA,CCLE-CESC,CCLE-ESCA,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr8:54858011:+>chr8:54859225:+	chr8	54857306	54858011	+	chr8	54859225	54859308,54859308,54859308,54859236,54859308	+	ENST00000297313,ENST00000344277,ENST00000517659,ENST00000276500	10743-10747	34,18,5	CCLE-LUSC
chr8:54991955:->chr8:54978373:-	chr8	54991939	54991955	-	chr8	54978373	54978373,54978373,54978373	-	ENST00000316963,ENST00000343231,ENST00000518546	10748-10754	16,4,29	CCLE-LUSC
chr8:54994122:->chr8:54965316:-	chr8	54994020	54994122	-	chr8	54965316	54965316,54965316,54965316,54965316,54965316,54965316	-	ENST00000316963,ENST00000343231,ENST00000518546,ENST00000521352	10755-10761	1,51,8	CCLE-COAD,CCLE-LUSC
chr8:54994122:->chr8:54975935:-	chr8	54994020	54994122	-	chr8	54975935	54975935,55	-	ENST00000316963,ENST00000521898	10762-10765	1,51,8	CCLE-COAD,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-STAD
chr8:54994122:->chr8:54978373:-	chr8	54994020	54994122	-	chr8	54978373	54978373,54978373,54978373	-	ENST00000316963,ENST00000343231,ENST00000518546	10766-10772	1,51,8	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chr8:54994224:->chr8:54978373:-	chr8	54994020	54994224	-	chr8	54978373	54978373,54978373,54978373	-	ENST00000316963,ENST00000343231,ENST00000518546	10773-10779	17,8	CCLE-KIRC,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr8:54994449:->chr8:54975935:-	chr8	54994275	54994449	-	chr8	54975935	54975935,55	-	ENST00000316963,ENST00000521898	10780-10783	2,46,38	CCLE-LUSC,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr8:54994449:->chr8:54978373:-	chr8	54994275	54994449	-	chr8	54978373	54978373,54978373,54978373	-	ENST00000316963,ENST00000343231,ENST00000518546	10784-10790	2,46,38	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr8:54994521:->chr8:54975935:-	chr8	54994275	54994521	-	chr8	54975935	54975935,55	-	ENST00000316963,ENST00000521898	10791-10794	1,22,14	CCLE-LUSC
chr8:54994521:->chr8:54978373:-	chr8	54994275	54994521	-	chr8	54978373	54978373,54978373,54978373	-	ENST00000316963,ENST00000343231,ENST00000518546	10795-10801	1,22,14	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr8:55007788:->chr8:54978373:-	chr8	55007595	55007788	-	chr8	54978373	54978373,54978373,54978373	-	ENST00000316963,ENST00000343231,ENST00000518546	10802-10808	14,23,1	CCLE-LCLL,CCLE-LUSC,CCLE-OV
chr8:67426607:+>chr8:67428128:+	chr8	67426513	67426607	+	chr8	67428128	67428311,67428154,67428154	+	ENST00000305454,ENST00000521495,ENST00000522977	10809-10812	31,27,32	CCLE-MM
chr8:81900729:->chr8:81899701:-	chr8	81900688	81900729	-	chr8	81899701	81899701	-	ENST00000220597	10813-10815	13,28,11	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-SKCM
chr8:89058431:->chr8:89054023:-	chr8	89058062	89058431	-	chr8	89054023	89054023	-	ENST00000286614	10816-10818	28,16,14	CCLE-BRCA,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-MM,CCLE-SKCM
chr8:89070236:->chr8:89068506:-	chr8	89070002	89070236	-	chr8	89068506	89068506	-	ENST00000286614	10819-10821	38,5,1	CCLE-SKCM
chr8:92016596:->chr8:92008972:-	chr8	92016251	92016596	-	chr8	92008972	92008972,92008972,92008972,92008972,92008972,92008972	-	ENST00000285419,ENST00000520709,ENST00000518359,ENST00000520014	10822-10827	18,8,13	CCLE-LCLL
chr8:94824101:+>chr8:94827533:+	chr8	94824096	94824101	+	chr8	94827533	94827675,94827675,94827675	+	ENST00000453321,ENST00000409623,ENST00000323130	10828-10830	2	CCLE-LUSC
chr8:95154584:->chr8:95143220:-	chr8	95154411	95154584	-	chr8	95143220	95143220,95143220,95143220	-	ENST00000027335,ENST00000441892,ENST00000450165	10831-10834	1,2,57	CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr8:95205779:->chr8:95201513:-	chr8	95205616	95205779	-	chr8	95201513	95201513,95201513,95201513,95201513,95201513,95201513	-	ENST00000027335,ENST00000441892,ENST00000450165,ENST00000521491	10835-10839	14,3	CCLE-COAD
chr8:98819269:+>chr8:98827556:+	chr8	98819170	98819269	+	chr8	98827556	98827629,98827629,98827629	+	ENST00000445593,ENST00000521545,ENST00000517924	10840-10843	19,8,33	CCLE-BLCA,CCLE-LUSC
chr8:98822589:+>chr8:98827556:+	chr8	98822486	98822589	+	chr8	98827556	98827629,98827629,98827629	+	ENST00000445593,ENST00000521545,ENST00000517924	10844-10847	27,12,4	CCLE-HNSC
chr9:101067129:->chr9:101065705:-	chr9	101067076	101067129	-	chr9	101065705	101065705	-	ENST00000259455	10848-10850	8,12,66	CCLE-LUSC
chr9:101867407:+>chr9:101891137:+	chr9	101867374	101867407	+	chr9	101891137	101891382,101891382,101891382,101891382,101891382,101891382	+	ENST00000374994,ENST00000374990,ENST00000549766,ENST00000552516,ENST00000546584	10851-10857	11,2	CCLE-LUSC
chr9:103289606:+>chr9:103310026:+	chr9	103289511	103289606	+	chr9	103310026	103310174,103310174,103310174	+	ENST00000502978,ENST00000334943,ENST00000374879	10858-10860	13,7,1	CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-STAD
chr9:103289650:+>chr9:103310026:+	chr9	103289511	103289650	+	chr9	103310026	103310174,103310174,103310174	+	ENST00000502978,ENST00000334943,ENST00000374879	10861-10863	22,15,8	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-STAD
chr9:104392017:->chr9:104390683:-	chr9	104391949	104392017	-	chr9	104390683	104390683	-	ENST00000361820	10864-10866	1,6,16	CCLE-LUSC
chr9:104437795:->chr9:104433389:-	chr9	104437757	104437795	-	chr9	104433389	104433389	-	ENST00000361820	10867-10868	6,25	CCLE-LUSC
chr9:107589635:->chr9:107589450:-	chr9	107589578	107589635	-	chr9	107589450	107589450	-	ENST00000374736	10869-10871	20,2	CCLE-DLBC,CCLE-PAAD
chr9:108014617:+>chr9:108061501:+	chr9	108014537	108014617	+	chr9	108061501	108061590,108061590,108061590,108061590	+	ENST00000374720,ENST00000374723,ENST00000470972,ENST00000374724	10872-10875	25,6	CCLE-ESCA,CCLE-LIHC
chr9:111764433:->chr9:111761536:-	chr9	111764359	111764433	-	chr9	111761536	111761536,111761536,111761536,111761536	-	ENST00000374595,ENST00000325551,ENST00000325580,ENST00000374593	10876-10881	54,86,9	CCLE-SKCM
chr9:112168615:->chr9:112166888:-	chr9	112168394	112168615	-	chr9	112166888	112166888,112166888,112166888,112166888,112166888	-	ENST00000412145,ENST00000446349,ENST00000374541,ENST00000398827,ENST00000262539	10882-10884	6,10,12	CCLE-DLBC
chr9:112173363:->chr9:112172695:-	chr9	112173283	112173363	-	chr9	112172695	112172695,112172695,112172695	-	ENST00000412145,ENST00000446349,ENST00000374541,ENST00000262539	10885-10887	3,33,1	CCLE-DLBC
chr9:113553475:+>chr9:113562586:+	chr9	113553378	113553475	+	chr9	113562586	113563268,113563268,113563268	+	ENST00000189978,ENST00000374448,ENST00000416899	10888-10890	7,32,1	CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-STAD
chr9:113706404:->chr9:113704448:-	chr9	113706390	113706404	-	chr9	113704448	113704448,113704448,113704448,113704448,113704448,113704448	-	ENST00000374431,ENST00000541779,ENST00000374430,ENST00000358883,ENST00000538760,ENST00000441240	10891-10894	18,35	CCLE-COAD,CCLE-SKCM
chr9:113773828:->chr9:113704448:-	chr9	113773536	113773828	-	chr9	113704448	113704448,113704448,113704448,113704448,113704448,113704448	-	ENST00000374431,ENST00000541779,ENST00000374430,ENST00000358883,ENST00000538760,ENST00000441240	10895-10898	17,40,7	CCLE-ESCA,CCLE-LUSC,CCLE-OV,CCLE-THCA
chr9:114424090:+>chr9:114429095:+	chr9	114424054	114424090	+	chr9	114429095	114429220,114429220	+	ENST00000556107,ENST00000374294,ENST00000374293	10899-10901	12,13	CCLE-LUSC
chr9:116344522:+>chr9:116345730:+	chr9	116344507	116344522	+	chr9	116345730	116346707,116346707,116346707,116345970,116346707,116346707,116345951,116345996	+	ENST00000374140,ENST00000350696,ENST00000343817,ENST00000496113,ENST00000462143,ENST00000374134,ENST00000471324,ENST00000467805	10902-10910	5,6,1	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC

chr9:116348280:+>chr9:116353613:+	chr9	116348238	116348280	+	chr9	116353613	116353677,116353677,116353677,116353677,116353677,116353677	+	ENST00000374140,ENST00000350696,ENST00000343817,ENST00000394646,ENST00000462143,ENST00000374134,ENST00000467805	10911-10914	14,15	CCLE-LUSC
chr9:117186263:->chr9:117185803:-	chr9	117186232	117186263	-	chr9	117185803	117185803,117185803,117185803	-	ENST00000265134,ENST00000374059,ENST00000362057	10915-10917	30,19,45	CCLE-LUSC,CCLE-SKCM
chr9:117226633:->chr9:117188693:-	chr9	117226562	117226633	-	chr9	117188693	117188693	-	ENST00000362057	10918-10920	1,11,17	CCLE-COAD
chr9:117226640:->chr9:117188693:-	chr9	117226562	117226640	-	chr9	117188693	117188693	-	ENST00000362057	10921-10923	30,9,14	CCLE-COAD
chr9:124515375:+>chr9:124519292:+	chr9	124515187	124515375	+	chr9	124519292	124519445,124519445,124519445	+	ENST00000394340,ENST00000259371,ENST00000408936,ENST00000373782	10924-10928	63,13,5	CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chr9:126117568:+>chr9:126125305:+	chr9	126117506	126117568	+	chr9	126125305	126125467,1	+	ENST00000359999,ENST00000373631	10929-10932	1,21	CCLE-LGG
chr9:126148037:->chr9:126146192:-	chr9	126147935	126148037	-	chr9	126146192	126146192,126146192,126146192	-	ENST00000373624,ENST00000542603,ENST00000394219	10933-10934	2,2	CCLE-DLBC
chr9:126269007:->chr9:126220176:-	chr9	126268915	126269007	-	chr9	126220176	126220176,126220176,126220176,126220176,126220176,126220176	-	ENST00000373624,ENST00000542603,ENST00000394219,ENST00000373620,ENST00000394215,ENST00000373618	10935-10940	9,30,4	CCLE-LUSC
chr9:128096997:+>chr9:128099297:+	chr9	128096330	128096997	+	chr9	128099297	128099374,128099374,128099374,128099374,128099374,128099374,128099374	+	ENST00000394105,ENST00000394104,ENST00000470056,ENST00000394083,ENST00000495955,ENST00000467750,ENST00000297933,ENST00000312123,ENST00000436712	10941-10947	11,47,25	CCLE-COAD,CCLE-LUSC
chr9:128221093:->chr9:128206877:-	chr9	128220495	128221093	-	chr9	128206877	128206877,128206877,128206877,128206877,128206877,128206877,128206877	-	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000373503,ENST00000265960,ENST00000394063,ENST00000444226,ENST00000373497,ENST00000420643	10948-10951	67,51,14	CCLE-BRCA
chr9:128221249:->chr9:128206877:-	chr9	128220495	128221249	-	chr9	128206877	128206877,128206877,128206877,128206877,128206877,128206877,128206877	-	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000373503,ENST00000265960,ENST00000394063,ENST00000444226,ENST00000373497,ENST00000420643	10952-10955	15,28,12	CCLE-LCLL,CCLE-LGG,CCLE-LUSC
chr9:128221289:->chr9:128206877:-	chr9	128220495	128221289	-	chr9	128206877	128206877,128206877,128206877,128206877,128206877,128206877,128206877	-	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000373503,ENST00000265960,ENST00000394063,ENST00000444226,ENST00000373497,ENST00000420643	10956-10959	28,15,1	CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-SARC,CCLE-STAD
chr9:128221329:->chr9:128206877:-	chr9	128220495	128221329	-	chr9	128206877	128206877,128206877,128206877,128206877,128206877,128206877,128206877	-	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000373503,ENST00000265960,ENST00000394063,ENST00000444226,ENST00000373497,ENST00000420643	10960-10963	15,1,38	CCLE-STAD
chr9:128244598:->chr9:128230388:-	chr9	128244446	128244598	-	chr9	128230388	128230388,128230388,128230388,128230388,128230388,128230388,128230388	-	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000373503,ENST00000265960,ENST00000394063,ENST00000373497,ENST00000497932,ENST00000420643	10964-10968	9,6,12	CCLE-LUSC
chr9:128320169:->chr9:128305447:-	chr9	128320143	128320169	-	chr9	128305447	128305447,128305447,128305447,128305447,128305447,128305447,128305447,128305447	-	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000373503,ENST00000265960,ENST00000394063,ENST00000373497,ENST00000497932,ENST00000420643,ENST00000394060,ENST00000427078	10969-10980	12,13,15	CCLE-STAD
chr9:128421519:->chr9:128420078:-	chr9	128421464	128421519	-	chr9	128420078	128420078,128420078,128420078,128420078,128420078,128420078	-	ENST00000373511,ENST00000373498,ENST00000350766,ENST00000265960,ENST00000394060,ENST00000373496	10981-10987	3,42,36	CCLE-COAD,CCLE-LCLL,CCLE-LIHC,CCLE-LUSC,CCLE-SARC,CCLE-SKCM
chr9:130271069:->chr9:130270817:-	chr9	130271016	130271069	-	chr9	130270817	130270817,1	-	ENST00000373314,ENST00000373312	10988-10990	4,26,25	CCLE-LUSC
chr9:130280503:->chr9:130280220:-	chr9	130280451	130280503	-	chr9	130280220	130280220,1	-	ENST00000373314,ENST00000373312	10991-10993	1,3,32	CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-SKCM,CCLE-UCEC
chr9:130280813:->chr9:130280220:-	chr9	130280693	130280813	-	chr9	130280220	130280220,1	-	ENST00000373314,ENST00000373312	10994-10996	31,3	CCLE-CESC
chr9:130293903:->chr9:130289601:-	chr9	130293798	130293903	-	chr9	130289601	130289601,1	-	ENST00000373314,ENST00000373312	10997-10999	2,3	CCLE-BLCA,CCLE-COAD,CCLE-LGG
chr9:130323753:->chr9:130294057:-	chr9	130323738	130323753	-	chr9	130294057	130294057,1	-	ENST00000373314,ENST00000373312	11000-11002	6,14,16	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr9:130323888:->chr9:130294057:-	chr9	130323738	130323888	-	chr9	130294057	130294057,1	-	ENST00000373314,ENST00000373312	11003-11005	6,5	CCLE-BLCA,CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr9:130330138:->chr9:130294057:-	chr9	130330041	130330138	-	chr9	130294057	130294057,1	-	ENST00000373314,ENST00000373312	11006-11008	9,2	CCLE-BLCA,CCLE-BRCA,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM
chr9:130332413:->chr9:130294057:-	chr9	130332362	130332413	-	chr9	130294057	130294057,1	-	ENST00000373314,ENST00000373312	11009-11010	13,9	CCLE-CESC,CCLE-COAD,CCLE-KIRC,CCLE-LUSC,CCLE-OV
chr9:130332602:->chr9:130294057:-	chr9	130332602	130332602	-	chr9	130294057	130294057,1	-	ENST00000373314,ENST00000373312	11011-11012	1,3	CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SARC,CCLE-THCA
chr9:130334619:->chr9:130294057:-	chr9	130334602	130334619	-	chr9	130294057	130294057,1	-	ENST00000373314,ENST00000373312	11013-11014	6,8	CCLE-STAD
chr9:130334623:->chr9:130294057:-	chr9	130334602	130334623	-	chr9	130294057	130294057,1	-	ENST00000373314,ENST00000373312	11015-11016	5,6	CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-SARC
chr9:130338643:->chr9:130294057:-	chr9	130338604	130338643	-	chr9	130294057	130294057,1	-	ENST00000373314,ENST00000373312	11017-11019	15	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr9:130513204:->chr9:130511944:-	chr9	130513176	130513204	-	chr9	130511944	130511944,130511944,130511944,130511944,130511944,130511944	-	ENST00000373277,ENST00000373274,ENST00000420366,ENST00000373276,ENST00000314830,ENST00000440630,ENST00000414380	11020-11024	2,38,7	CCLE-LCLL
chr9:130529048:->chr9:130523929:-	chr9	130528822	130529048	-	chr9	130523929	130523929,130523929,130523929	-	ENST00000373277,ENST00000373276,ENST00000314830,ENST00000440630	11025-11028	11,33,25	CCLE-DLBC,CCLE-LCLL
chr9:130540276:->chr9:130536746:-	chr9	130540257	130540276	-	chr9	130536746	130536746	-	ENST00000314830	11029-11030	43,3	CCLE-LCLL,CCLE-MM
chr9:13156400:->chr9:13150687:-	chr9	13156317	13156400	-	chr9	13150687	13150687,13150687,13150687,13150687,13150687,13150687,13150687	-	ENST00000319217,ENST00000541718,ENST00000381022,ENST00000545857,ENST00000538841,ENST00000536827,ENST00000381015,ENST00000447879,ENST00000546205,ENST00000433359,ENST00000542239	11031-11039	75,8,19	CCLE-LUSC
chr9:131672740:+>chr9:131678375:+	chr9	131672690	131672740	+	chr9	131678375	131678650,131678650	+	ENST00000372600,ENST00000372599,ENST00000259324	11040-11042	17,4,8	CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chr9:132707026:->chr9:132691974:-	chr9	132706937	132707026	-	chr9	132691974	132691974,132691974,132691974,132691974	-	ENST00000446176,ENST00000420781,ENST00000449089,ENST00000355681	11043-11048	12,32,31	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chr9:132884985:+>chr9:132887194:+	chr9	132884754	132884985	+	chr9	132887194	132887243,132887243	+	ENST00000347136,ENST00000372406,ENST00000372410	11049-11051	77,26,41	CCLE-ESCA
chr9:132963746:+>chr9:132980111:+	chr9	132963658	132963746	+	chr9	132980111	132980249,1	+	ENST00000372398,ENST00000458469	11052-11054	5,29,30	CCLE-COAD
chr9:132964146:+>chr9:132980111:+	chr9	132964113	132964146	+	chr9	132980111	132980249,1	+	ENST00000372398,ENST00000458469	11055-11057	11,12	CCLE-LGG
chr9:139123591:->chr9:139118720:-	chr9	139123541	139123591	-	chr9	139118720	139118720	-	ENST00000358701	11058-11060	1,28,7	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC

chr9:139123901:->chr9:139118720:-	chr9	139123888	139123901	-	chr9	139118720	139118720	-	ENST00000358701	11061-11063	64,2,39	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LCLL,CCLE-LUSC,CCLE-MM
chr9:139131237:->chr9:139118720:-	chr9	139131035	139131237	-	chr9	139118720	139118720	-	ENST00000358701	11064-11066	15,14,6	CCLE-DLBC,CCLE-LUSC
chr9:139131249:->chr9:139118720:-	chr9	139131035	139131249	-	chr9	139118720	139118720	-	ENST00000358701	11067-11069	11,10,2	CCLE-LUSC
chr9:140487257:->chr9:140483170:-	chr9	140487250	140487257	-	chr9	140483170	140483170	-	ENST00000298585	11070-11072	27,3	CCLE-BRCA
chr9:14629695:->chr9:14619680:-	chr9	14629432	14629695	-	chr9	14619680	14619680	-	ENST00000380916	11073-11075	26,20,27	CCLE-CESC,CCLE-DLBC,CCLE-LGG,CCLE-LUSC,CCLE-SARC
chr9:19323981:+>chr9:19324360:+	chr9	19323881	19323981	+	chr9	19324360	19324505,19324505,19324505	+	ENST00000434457,ENST00000602925,ENST00000380432	11076-11079	12,10,16	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-LCLL,CCLE-LUSC
chr9:19333600:+>chr9:19334975:+	chr9	19333559	19333600	+	chr9	19334975	19335103,19335103,19335103	+	ENST00000434457,ENST00000602925,ENST00000380432	11080-11083	3,9,1	CCLE-LCLL
chr9:307852:+>chr9:311954:+	chr9	307685	307852	+	chr9	311954	312166,312166,312166,312166	+	ENST00000453981,ENST00000432829,ENST00000483757,ENST00000469391	11084-11088	4,56,12	CCLE-DLBC,CCLE-LCLL
chr9:308289:+>chr9:311954:+	chr9	307685	308289	+	chr9	311954	312166,312166,312166,312166	+	ENST00000453981,ENST00000432829,ENST00000483757,ENST00000469391	11089-11093	9,17,7	CCLE-DLBC,CCLE-LCLL,CCLE-MM
chr9:33133223:->chr9:33120604:-	chr9	33133201	33133223	-	chr9	33120604	33120604	-	ENST00000379731	11094-11095	39,13	CCLE-LUSC
chr9:33445341:->chr9:33443890:-	chr9	33445168	33445341	-	chr9	33443890	33443890	-	ENST00000297991	11096-11098	22,6,2	CCLE-BLCA,CCLE-HNSC,CCLE-LUSC
chr9:35790337:+>chr9:35793895:+	chr9	35790327	35790337	+	chr9	35793895	35794100	+	ENST00000342694	11099-11101	4,3	CCLE-DLBC,CCLE-LUSC
chr9:36057010:+>chr9:36058824:+	chr9	36056971	36057010	+	chr9	36058824	36058898	+	ENST00000377966	11102-11104	13,12	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chr9:36110253:+>chr9:36112302:+	chr9	36110201	36110253	+	chr9	36112302	36112473	+	ENST00000377966	11105-11107	17,3,1	CCLE-LUSC,CCLE-SARC
chr9:36113868:+>chr9:36116982:+	chr9	36113624	36113868	+	chr9	36116982	36117174	+	ENST00000377966	11108-11110	2,4,47	CCLE-HNSC,CCLE-LCLL,CCLE-SKCM
chr9:36573195:+>chr9:36589533:+	chr9	36573126	36573195	+	chr9	36589533	36589649,36589649,36589649,36589649	+	ENST00000298048,ENST00000536860,ENST00000545008,ENST00000541717,ENST00000543751	11111-11116	24,23,9	CCLE-BRCA,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM
chr9:37949473:->chr9:37948751:-	chr9	37949420	37949473	-	chr9	37948751	37948751	-	ENST00000377707	11117-11119	17,34,50	CCLE-LUSC
chr9:37955634:->chr9:37948751:-	chr9	37955476	37955634	-	chr9	37948751	37948751	-	ENST00000377707	11120-11122	16,2,50	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD
chr9:37976509:->chr9:37974834:-	chr9	37976333	37976509	-	chr9	37974834	37974834	-	ENST00000377707	11123-11125	20,2,6	CCLE-LUSC,CCLE-PAAD
chr9:37977234:->chr9:37974834:-	chr9	37977015	37977234	-	chr9	37974834	37974834	-	ENST00000377707	11126-11127	85,62	CCLE-BRCA,CCLE-LGG,CCLE-LUSC,CCLE-PAAD
chr9:37991249:->chr9:37974834:-	chr9	37991195	37991249	-	chr9	37974834	37974834	-	ENST00000377707	11128-11130	23,7,16	CCLE-BRCA,CCLE-LUSC
chr9:39170806:->chr9:39166073:-	chr9	39170732	39170806	-	chr9	39166073	39166073,39166073,39166073,39166073,39166073	-	ENST00000297668,ENST00000377656,ENST00000358144,ENST00000443583,ENST00000323947,ENST00000377659	11131-11138	18,1	CCLE-LUSC,CCLE-SKCM
chr9:457636:+>chr9:463517:+	chr9	457559	457636	+	chr9	463517	463687,463687,463687,463687	+	ENST00000453981,ENST00000432829,ENST00000469391,ENST00000382329	11139-11141	20,26	CCLE-LCLL
chr9:5439143:->chr9:5361888:-	chr9	5438898	5439143	-	chr9	5361888	5361888	-	ENST00000223864	11142-11144	36,52,27	CCLE-MM
chr9:71770431:+>chr9:71827464:+	chr9	71770337	71770431	+	chr9	71827464	71827517,71827517,71827517,71827517	+	ENST00000377245,ENST00000348208,ENST00000265384,ENST00000535702,ENST00000539225	11145-11150	18,32,31	CCLE-BLCA,CCLE-COAD,CCLE-ESCA,CCLE-LIHC,CCLE-LUSC,CCLE-OV,CCLE-STAD
chr9:71805776:+>chr9:71827464:+	chr9	71805772	71805776	+	chr9	71827464	71827517,71827517,71827517,71827517,71827517	+	ENST00000377245,ENST00000348208,ENST00000265384,ENST00000535702,ENST00000539225	11151-11156	2,1	CCLE-DLBC
chr9:71848507:+>chr9:71849355:+	chr9	71848407	71848507	+	chr9	71849355	71849463,71849463,71849463,71849463,71849463	+	ENST00000453658,ENST00000377245,ENST00000348208,ENST00000265384,ENST00000535702,ENST00000539225	11157-11162	11,25,17	CCLE-LUSC
chr9:73215929:->chr9:73213586:-	chr9	73215822	73215929	-	chr9	73213586	73213586,73213586,73213586,73213586,73213586,73213586,73213586,73213586,73213586,73213586	-	ENST00000377110,ENST00000377111,ENST00000360823,ENST00000377105,ENST00000377106,ENST00000357533,ENST00000358082,ENST00000396280,ENST00000396285,ENST00000396292,ENST00000408909,ENST00000423814	11163-11167	10,11,2	CCLE-SKCM
chr9:75772388:+>chr9:75773438:+	chr9	75772288	75772388	+	chr9	75773438	75773517	+	ENST00000456643	11168-11169	33,9	CCLE-LUSC
chr9:75773043:+>chr9:75773438:+	chr9	75773023	75773043	+	chr9	75773438	75773517	+	ENST00000456643	11170-11172	1,7,3	CCLE-COAD,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-PAAD,CCLE-SARC,CCLE-STAD
chr9:75784170:+>chr9:75784967:+	chr9	75784157	75784170	+	chr9	75784967	75785023,76	+	ENST00000257497,ENST00000376911	11173-11174	1,5	CCLE-CESC,CCLE-ESCA,CCLE-HNSC,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-PAAD,CCLE-STAD
chr9:77462806:->chr9:77457259:-	chr9	77462789	77462806	-	chr9	77457259	77457259,77457259,77457259,77457259,77457259,77457259,77457259,77457259	-	ENST00000361255,ENST00000449912,ENST00000360774,ENST00000376871,ENST00000376872,ENST00000450410,ENST00000376864,ENST00000359047	11175-11182	24,1,20	CCLE-DLBC
chr9:80439718:->chr9:80430686:-	chr9	80439397	80439718	-	chr9	80430686	80430686,8	-	ENST00000286548,ENST00000411677	11183-11186	32,7,12	CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chr9:86983367:->chr9:86928369:-	chr9	86983355	86983367	-	chr9	86928369	86928369	-	ENST00000376238	11187-11189	15,28,7	CCLE-LCLL,CCLE-SKCM
chr9:87325380:+>chr9:87325552:+	chr9	87325348	87325380	+	chr9	87325552	87325706,87325706,87325706,87325706,87325706,87325706,87325706,87325706	+	ENST00000376213,ENST00000376214,ENST00000395882,ENST00000304053,ENST00000376208,ENST00000277120,ENST00000323115,ENST00000359847	11190-11196	4,11	CCLE-BRCA
chr9:90344000:+>chr9:90344488:+	chr9	90343819	90344000	+	chr9	90344488	90344650,9	+	ENST00000343150,ENST00000340342	11197-11199	1,26,14	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-LUSC
chr9:90344000:+>chr9:90344492:+	chr9	90343819	90344000	+	chr9	90344492	90344650,9	+	ENST00000343150,ENST00000340342	11200-11202	1,26,14	CCLE-LUSC
chr9:92007873:->chr9:92007451:-	chr9	92007644	92007873	-	chr9	92007451	92007451,92007451,92007451,92007451,92007451,92007451,92007451,92007451,92007451,92007451	-	ENST00000339861,ENST00000420987,ENST00000455551,ENST00000429836,ENST00000343780,ENST00000537934,ENST00000450295,ENST00000438547,ENST00000356444,ENST00000422704	11203-11207	1,4,3	CCLE-DLBC,CCLE-LCLL
chr9:96222157:+>chr9:96233423:+	chr9	96221986	96222157	+	chr9	96233423	96233669,96233669,96233669,96233669,96233669	+	ENST00000277165,ENST00000375389,ENST00000333936,ENST00000340893,ENST00000446420	11208-11214	3,6,13	CCLE-BRCA,CCLE-COAD,CCLE-DLBC,CCLE-HNSC,CCLE-LUSC
chr9:96322435:+>chr9:96323391:+	chr9	96322294	96322435	+	chr9	96323391	96323532,96323532,96323532,96323532,96323532	+	ENST00000277165,ENST00000333936,ENST00000340893,ENST00000427765	11215-11217	4,2,38	CCLE-BRCA,CCLE-LIHC,CCLE-LUSC
chrX:119590089:->chrX:119589425:-	chrX	119589892	119590089	-	chrX	119589425	119589425,119589425,119589425,119589425	-	ENST00000434600,ENST00000200639,ENST00000371335,ENST00000540603	11218-11221	7,28	CCLE-SKCM
chrX:123559179:->chrX:123556488:-	chrX	123558882	123559179	-	chrX	123556488	123556488,1	-	ENST00000371130,ENST00000422452	11222-11224	5,29	CCLE-LUSC
chrX:123891399:->chrX:123871047:-	chrX	123885344	123891399	-	chrX	123871047	123871047,1	-	ENST00000371130,ENST00000422452	11225-11228	14,7,31	CCLE-BRCA,CCLE-MM
chrX:128876664:+>chrX:128877937:+	chrX	128876596	128876664	+	chrX	128877937	128878047,1	+	ENST00000371105,ENST00000371106	11229-11232	23,14,1	CCLE-LCLL
chrX:1326619:->chrX:1325492:-	chrX	1326523	1326619	-	chrX	1325492	1325492,1325492,1325492	-	ENST00000381567,ENST00000400841,ENST00000381566	11233-11237	13,40,21	CCLE-DLBC
chrX:13883175:->chrX:13803927:-	chrX	13882932	13883175	-	chrX	13803927	13803927,13803927,13803927,13803927,13803927	-	ENST00000316715,ENST00000454189,ENST00000493677,ENST00000355135,ENST00000356942,ENST00000475307	11238-11241	23,25	CCLE-LGG

chrX:138883183:->chrX:138882269:-	chrX	138883057	138883183	-	chrX	138882269	138882269,138882269,138882269,138882269	-	ENST00000370557,ENST00000327569,ENST00000361648,ENST00000370543,ENST00000359686	11242-11243	27,12	CCLE-DLBC,CCLE-LCLL,CCLE-LUSC,CCLE-STAD
chrX:13907571:->chrX:13825888:-	chrX	13907479	13907571	-	chrX	13825888	13825888,14	-	ENST00000316715,ENST00000355135	11244-11246	1,13	CCLE-LCLL,CCLE-SKCM
chrX:1409700:+>chrX:1413221:+	chrX	1409476	1409700	+	chrX	1413221	1413354,1413354,1413354,1413354,1413288,1413354,1413354,1413354,1413354,14133354	+	ENST00000381529,ENST00000361535,ENST00000432318,ENST00000501036,ENST00000381524,ENST00000412290,ENST00000381509,ENST00000355432,ENST00000486791,ENST00000417535,ENST00000381500	11247-11259	7,1,44	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-LCLL,CCLE-LUSC,CCLE-OV,CCLE-PAAD,CCLE-SKCM,CCLE-STAD
chrX:149786268:+>chrX:149787511:+	chrX	149786239	149786268	+	chrX	149787511	149787612,149787612	+	ENST00000370396,ENST00000542741,ENST00000413012	11260-11261	10,8	CCLE-CESC
chrX:149904099:+>chrX:149905067:+	chrX	149904011	149904099	+	chrX	149905067	149905252,149905252,149905252,149905252,149905252,149905252	+	ENST00000541925,ENST00000485376,ENST00000370390,ENST00000451863,ENST00000544228,ENST00000445323	11262-11265	29,18,2	CCLE-BLCA,CCLE-BRCA,CCLE-DLBC,CCLE-LCLL,CCLE-LUSC
chrX:149914211:+>chrX:149919202:+	chrX	149914203	149914211	+	chrX	149919202	149919315,149919315,149919315,149919315,149919315,149919315,149919315,149919315	+	ENST00000541925,ENST00000485376,ENST00000370390,ENST00000451863,ENST00000544228,ENST00000445323,ENST00000488357,ENST00000553506	11266-11267	3	CCLE-LUSC
chrX:149945390:->chrX:149944766:-	chrX	149945216	149945390	-	chrX	149944766	149944766,149944766,149944766,149944766	-	ENST00000370377,ENST00000355149,ENST00000437787,ENST00000466436	11268-11270	41,39,10	CCLE-LUSC,CCLE-PAAD,CCLE-SKCM
chrX:149996779:->chrX:149945955:-	chrX	149996757	149996779	-	chrX	149945955	149945955,149945955,149945955,149945955,149945955,149945955	-	ENST00000370377,ENST00000355149,ENST00000437787,ENST00000466436,ENST00000418547	11271-11275	27,16,9	CCLE-LGG,CCLE-LUSC
chrX:149996779:->chrX:149984551:-	chrX	149996757	149996779	-	chrX	149984551	149984551,149984551,149984551	-	ENST00000370377,ENST00000437787,ENST00000418547	11276-11280	27,16,9	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-PRAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA,CCLE-UCEC
chrX:150023888:->chrX:149999766:-	chrX	150023754	150023888	-	chrX	149999766	149999766,149999766,149999766,149999766,149999766	-	ENST00000370377,ENST00000355149,ENST00000437787,ENST00000466436,ENST00000320893	11281-11282	1,39	CCLE-LUSC
chrX:151138525:->chrX:151138208:-	chrX	151138373	151138525	-	chrX	151138208	151138208,2	-	ENST00000370328,ENST00000370325	11283-11285	1	CCLE-HNSC,CCLE-LUSC,CCLE-PAAD
chrX:151397952:->chrX:151393317:-	chrX	151397912	151397952	-	chrX	151393317	151393317,2	-	ENST00000370314,ENST00000535043	11286-11288	1,27,52	CCLE-LUSC
chrX:154042475:->chrX:154020560:-	chrX	154041321	154042475	-	chrX	154020560	154020560,154020560,154020560,154020560,154020560	-	ENST00000369534,ENST00000413259,ENST00000393531,ENST00000417435,ENST00000369531	11289-11295	9,1,19	CCLE-KIRC
chrX:154049249:->chrX:154020560:-	chrX	154049133	154049249	-	chrX	154020560	154020560,154020560,154020560,154020560,154020560	-	ENST00000369534,ENST00000413259,ENST00000393531,ENST00000417435,ENST00000369531	11296-11298	5,11	CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-OV
chrX:15685653:->chrX:15682518:-	chrX	15685610	15685653	-	chrX	15682518	15682518	-	ENST00000380342	11299-11301	46,15,4	CCLE-CESC,CCLE-COAD,CCLE-LUSC,CCLE-STAD
chrX:16026822:+>chrX:16168428:+	chrX	16026701	16026822	+	chrX	16168428	16168779	+	ENST00000380289	11302-11303	21,9	CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LUSC,CCLE-SKCM
chrX:16041993:+>chrX:16168428:+	chrX	16041501	16041993	+	chrX	16168428	16168779	+	ENST00000380289	11304-11306	11,30,5	CCLE-LGG
chrX:19071917:->chrX:19058342:-	chrX	19071835	19071917	-	chrX	19058342	19058342,19058342,19058342,19058342,19058342,19058342,19058342,19058342,19058342,19058342	-	ENST00000354791,ENST00000379873,ENST00000379876,ENST00000379878,ENST00000357991,ENST00000357544,ENST00000360279,ENST00000379869,ENST00000356606,ENST00000340581	11307-11313	38,8	CCLE-LUSC
chrX:2686581:+>chrX:2688591:+	chrX	2686527	2686581	+	chrX	2688591	2688632,2688632,2688632	+	ENST00000381174,ENST00000419513,ENST00000426774	11314-11320	19,18,9	CCLE-LUSC
chrX:32536470:->chrX:32536248:-	chrX	32536446	32536470	-	chrX	32536248	32536248,32536248,32536248	-	ENST00000378677,ENST00000357033,ENST00000288447	11321-11324	1,13,23	CCLE-LGG
chrX:32536515:->chrX:32536248:-	chrX	32536446	32536515	-	chrX	32536248	32536248,32536248,32536248	-	ENST00000378677,ENST00000357033,ENST00000288447	11325-11328	29,26,8	CCLE-LGG
chrX:37649344:+>chrX:37651228:+	chrX	37649107	37649344	+	chrX	37651228	37651312,38	+	ENST00000378588,ENST00000545017	11329-11330	3,9	CCLE-DLBC,CCLE-LCLL
chrX:46474637:->chrX:46466638:-	chrX	46474478	46474637	-	chrX	46466638	46466638	-	ENST00000328306	11331-11333	2,12,46	CCLE-LUSC
chrX:46474677:->chrX:46466638:-	chrX	46474478	46474677	-	chrX	46466638	46466638	-	ENST00000328306	11334-11335	33	CCLE-BRCA,CCLE-DLBC,CCLE-LUSC
chrX:46611648:->chrX:46541970:-	chrX	46611454	46611648	-	chrX	46541970	46541970	-	ENST00000328306	11336-11338	19,43,4	CCLE-BRCA,CCLE-DLBC,CCLE-PRAD
chrX:49742639:+>chrX:49806925:+	chrX	49742568	49742639	+	chrX	49806925	49807071,49807071,49807103	+	ENST00000376088,ENST00000376091,ENST00000482218	11339-11342	2,24	CCLE-LUSC
chrX:49742691:+>chrX:49806925:+	chrX	49742663	49742691	+	chrX	49806925	49807071,49807071,49807103	+	ENST00000376088,ENST00000376091,ENST00000482218	11343-11346	10,5,2	CCLE-LUSC,CCLE-SARC
chrX:49854271:+>chrX:49854773:+	chrX	49854261	49854271	+	chrX	49854773	49855171,49855171,49855171,49855171	+	ENST00000376088,ENST00000376091,ENST00000376108,ENST00000307367	11347-11349	4,3	CCLE-CESC,CCLE-COAD,CCLE-LIHC,CCLE-LUSC,CCLE-SKCM,CCLE-STAD
chrX:64832228:+>chrX:64936680:+	chrX	64831936	64832228	+	chrX	64936680	64936763	+	ENST00000360270	11350-11352	12,4,17	CCLE-LCLL
chrX:64921503:+>chrX:64936680:+	chrX	64921381	64921503	+	chrX	64936680	64936763	+	ENST00000360270	11353-11354	18,7	CCLE-BLCA,CCLE-BRCA,CCLE-CESC,CCLE-COAD,CCLE-DLBC,CCLE-ESCA,CCLE-HNSC,CCLE-KIRC,CCLE-LCLL,CCLE-LGG,CCLE-LIHC,CCLE-LUSC,CCLE-MM,CCLE-OV,CCLE-PAAD,CCLE-SARC,CCLE-SKCM,CCLE-STAD,CCLE-THCA
chrX:69218743:+>chrX:69243068:+	chrX	69218465	69218743	+	chrX	69243068	69243091,69243091,69243091,69243091	+	ENST00000374552,ENST00000374553,ENST00000524573,ENST00000503592	11355-11362	19,8,40	CCLE-CESC,CCLE-LIHC,CCLE-STAD
chrX:70333224:->chrX:70331344:-	chrX	70333207	70333224	-	chrX	70331344	70331389	-	ENST00000374202	11363-11365	57,9,30	CCLE-DLBC,CCLE-LCLL
chrX:77115700:->chrX:77112994:-	chrX	77115584	77115700	-	chrX	77112994	77112994	-	ENST00000358075	11366-11368	2,21,15	CCLE-DLBC,CCLE-LUSC,CCLE-STAD
chrX:9715893:->chrX:9714193:-	chrX	9715737	9715893	-	chrX	9714193	9714193,9714193,9714193,9714193	-	ENST00000467482,ENST00000380929,ENST00000447366,ENST00000431126	11369-11373	11,18	CCLE-SKCM
chrX:9877608:+>chrX:9900215:+	chrX	9877043	9877608	+	chrX	9900215	9900910	+	ENST00000380913	11374-11376	37,1,73	CCLE-LGG,CCLE-LUSC
chrX:99933113:->chrX:99931173:-	chrX	99932539	99933113	-	chrX	99931173	99931173,99931173,99931173,99931173	-	ENST00000372989,ENST00000276141,ENST00000454200,ENST00000455616,ENST00000263033	11377-11379	16,12	CCLE-BRCA,CCLE-LUSC

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12832	chr1:109330138:+>chr1:109336204:+	ORF1,chr1:109330138:+:MER107>chr1:109336204:+:ENST00000370008
12833	chr1:109330138:+>chr1:109336204:+	ORF2,chr1:109330138:+:MER107>chr1:109336204:+:ENST00000370008
12834	chr1:109339834:+>chr1:109340767:+	ORF1,chr1:109339834:+:AluJo>chr1:109340767:+:ENST00000370008
12835	chr1:109339834:+>chr1:109340767:+	ORF2,chr1:109339834:+:AluJo>chr1:109340767:+:ENST00000370008
12836	chr1:109339834:+>chr1:109340767:+	ORF3,chr1:109339834:+:AluJo>chr1:109340767:+:ENST00000370008
12837	chr1:109452343:+>chr1:109456960:+	ORF1,chr1:109452343:+:AluSc>chr1:109456960:+:ENST00000406462/ORF1,chr1:109452343:+:AluSc>chr1:109456960:+:ENST00000264126
12838	chr1:109452343:+>chr1:109456960:+	ORF2,chr1:109452343:+:AluSc>chr1:109456960:+:ENST00000406462/ORF2,chr1:109452343:+:AluSc>chr1:109456960:+:ENST00000264126
12839	chr1:109452343:+>chr1:109456960:+	ORF3,chr1:109452343:+:AluSc>chr1:109456960:+:ENST00000406462/ORF3,chr1:109452343:+:AluSc>chr1:109456960:+:ENST00000264126
12840	chr1:109695699:+>chr1:109704516:+	ORF2,chr1:109695699:+:L1MC5>chr1:109704516:+:ENST00000533147
12841	chr1:109695699:+>chr1:109704516:+	ORF2,chr1:109695699:+:L1MC5>chr1:109704516:+:ENST00000534476
12842	chr1:109695699:+>chr1:109704516:+	ORF2,chr1:109695699:+:L1MC5>chr1:109704516:+:ENST00000526264
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12844	chr1:109695699:+>chr1:109704516:+	ORF2,chr1:109695699:+:L1MC5>chr1:109704516:+:ENST00000529753
12845	chr1:109695699:+>chr1:109704516:+	ORF2,chr1:109695699:+:L1MC5>chr1:109704516:+:ENST00000457623
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12852	chr1:109730292:+>chr1:109730799:+	ORF2,chr1:109730292:+:L2c>chr1:109730799:+:ENST00000369939/ORF2,chr1:109730292:+:L2c>chr1:109730799:+:ENST00000457623/ORF2,chr1:109730292:+:L2c>chr1:109730799:+:ENST00000529753
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12874	chr1:112243676:+>chr1:112245958:+	ORF2,chr1:112243676:+:L2a>chr1:112245958:+:ENST00000356415/ORF2,chr1:112243676:+:L2a>chr1:112245958:+:ENST00000436150/ORF2,chr1:112243676:+:L2a>chr1:112245958:+:ENST00000369709/ORF2,chr1:112243676:+:L2a>chr1:112245958:+:ENST00000545460
12875	chr1:112243676:+>chr1:112245958:+	ORF3,chr1:112243676:+:L2a>chr1:112245958:+:ENST00000356415/ORF3,chr1:112243676:+:L2a>chr1:112245958:+:ENST00000433097/ORF3,chr1:112243676:+:L2a>chr1:112245958:+:ENST00000436150/ORF3,chr1:112243676:+:L2a>chr1:112245958:+:ENST00000369709/ORF3,chr1:112243676:+:L2a>chr1:112245958:+:ENST00000545460
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16714	chr18:29765139:+>chr18:29771785:+	ORF1,chr18:29765139:+:MLT2D>chr18:29771785:+:ENST00000269202/ORF1,chr18:29765139:+:MLT2D>chr18:29771785:+:ENST00000581447
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17222	chr19:45374761:+>chr19:45375110:+	ORF1,chr19:45374761:+:AluJr>chr19:45375110:+:ENST00000252485
17223	chr19:45374761:+>chr19:45375110:+	ORF3,chr19:45374761:+:AluJr>chr19:45375110:+:ENST00000252485/ORF3,chr19:45374761:+:AluJr>chr19:45375110:+:ENST00000252483/ORF3,chr19:45374761:+:AluJr>chr19:45375110:+:ENST00000591581
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17225	chr19:4545583:->chr19:4544541:-	ORF1,chr19:4545583:-:AluJb>chr19:4544541:- :ENST00000301293/ORF1,chr19:4545583:-:AluJb>chr19:4544541:- :ENST00000586582/ORF1,chr19:4545583:-:AluJb>chr19:4544541:-:ENST00000586965
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17231	chr19:46021445:+>chr19:46024580:+	ORF3,chr19:46021445:+:MIR3>chr19:46024580:+:ENST00000245932
17232	chr19:46021445:+>chr19:46024580:+	ORF2,chr19:46021445:+:MIR3>chr19:46024580:+:ENST00000245932
17233	chr19:46021612:+>chr19:46024580:+	ORF3,chr19:46021612:+:AluSx>chr19:46024580:+:ENST00000245932
17234	chr19:46021612:+>chr19:46024580:+	ORF1,chr19:46021612:+:AluSx>chr19:46024580:+:ENST00000245932
17235	chr19:46021612:+>chr19:46024580:+	ORF2,chr19:46021612:+:AluSx>chr19:46024580:+:ENST00000245932
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17244	chr19:46328210:->chr19:46327133:-	ORF3,chr19:46328210:-:MIRc>chr19:46327133:-:ENST00000245934
17245	chr19:46341229:->chr19:46338486:-	ORF1,chr19:46341229:-:L2c>chr19:46338486:- :ENST00000245934/ORF1,chr19:46341229:-:L2c>chr19:46338486:-:ENST00000600237
17246	chr19:46341229:->chr19:46338486:-	ORF2,chr19:46341229:-:L2c>chr19:46338486:-:ENST00000245934
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17252	chr19:46348617:->chr19:46347458:-	ORF3,chr19:46348617:-:L1MA3>chr19:46347458:-:ENST00000600237
17253	chr19:46857525:+>chr19:46878861:+	ORF2,chr19:46857525:+:MIR>chr19:46878861:+:ENST00000478046
17254	chr19:46857525:+>chr19:46878861:+	ORF2,chr19:46857525:+:MIR>chr19:46878861:+:ENST00000012443
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17256	chr19:46857525:+>chr19:46878861:+	ORF1,chr19:46857525:+:MIR>chr19:46878861:+:ENST00000012443/ORF1,chr19:46857525:+:MIR>chr19:46878861:+:ENST00000478046/ORF1,chr19:46857525:+:MIR>chr19:46878861:+:ENST00000391919
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17258	chr19:47214727:->chr19:47214295:-	ORF1,chr19:47214727:-:AluSx>chr19:47214295:-:ENST00000597641
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17267	chr19:47350845:->chr19:47349399:-	ORF1,chr19:47350845:-:L1MB7>chr19:47349399:-:ENST00000352203/ORF1,chr19:47350845:-:L1MB7>chr19:47349399:-:ENST00000601498/ORF1,chr19:47350845:-:L1MB7>chr19:47349399:-:ENST00000599990/ORF1,chr19:47350845:-:L1MB7>chr19:47349399:-:ENST00000263270/ORF1,chr19:47350845:-:L1MB7>chr19:47349399:-:ENST00000601649
17268	chr19:47350845:->chr19:47349399:-	ORF3,chr19:47350845:-:L1MB7>chr19:47349399:-:ENST00000352203/ORF3,chr19:47350845:-:L1MB7>chr19:47349399:-:ENST00000601498/ORF3,chr19:47350845:-:L1MB7>chr19:47349399:-:ENST00000599990/ORF3,chr19:47350845:-:L1MB7>chr19:47349399:-:ENST00000263270/ORF3,chr19:47350845:-:L1MB7>chr19:47349399:-:ENST00000601649
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17272	chr19:47352462:->chr19:47349399:-	ORF2,chr19:47352462:-:AluSx1>chr19:47349399:-:ENST00000601498/ORF2,chr19:47352462:-:AluSx1>chr19:47349399:-:ENST00000599990/ORF2,chr19:47352462:-:AluSx1>chr19:47349399:-:ENST00000263270
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17276	chr19:47481190:+>chr19:47491246:+	ORF3,chr19:47481190:+:MIR>chr19:47491246:+:ENST00000404338
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17278	chr19:47486488:+>chr19:47491246:+	ORF1,chr19:47486488:+:MIRb>chr19:47491246:+:ENST00000404338
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17281	chr19:47811068:+>chr19:47823038:+	ORF2,chr19:47811068:+:MER1A>chr19:47823038:+:ENST00000355085
17282	chr19:47811068:+>chr19:47823038:+	ORF1,chr19:47811068:+:MER1A>chr19:47823038:+:ENST00000355085
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17289	chr19:48227998:+>chr19:48229069:+	ORF2,chr19:48227998:+:L2a>chr19:48229069:+:ENST00000263277/ORF2,chr19:48227998:+:L2a>chr19:48229069:+:ENST00000538399
17290	chr19:48238796:+>chr19:48239626:+	ORF1,chr19:48238796:+:FRAM>chr19:48239626:+:ENST00000263277/ORF1,chr19:48238796:+:FRAM>chr19:48239626:+:ENST00000538399
17291	chr19:48238796:+>chr19:48239626:+	ORF2,chr19:48238796:+:FRAM>chr19:48239626:+:ENST00000263277/ORF2,chr19:48238796:+:FRAM>chr19:48239626:+:ENST00000538399
17292	chr19:48238796:+>chr19:48239626:+	ORF3,chr19:48238796:+:FRAM>chr19:48239626:+:ENST00000263277/ORF3,chr19:48238796:+:FRAM>chr19:48239626:+:ENST00000538399
17293	chr19:48240305:+>chr19:48244138:+	ORF1,chr19:48240305:+:AluYk4>chr19:48244138:+:ENST00000263277/ORF1,chr19:48240305:+:AluYk4>chr19:48244138:+:ENST00000538399
17294	chr19:48240305:+>chr19:48244138:+	ORF3,chr19:48240305:+:AluYk4>chr19:48244138:+:ENST00000263277/ORF3,chr19:48240305:+:AluYk4>chr19:48244138:+:ENST00000538399
17295	chr19:48240305:+>chr19:48244138:+	ORF2,chr19:48240305:+:AluYk4>chr19:48244138:+:ENST00000263277/ORF2,chr19:48240305:+:AluYk4>chr19:48244138:+:ENST00000538399
17296	chr19:48593411:->chr19:48591969:-	ORF1,chr19:48593411:-:MIR>chr19:48591969:-:ENST00000601946
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17916	chr2:28807889:+>chr2:28808628:+	ORF3,chr2:28807889:+:MIR>chr2:28808628:+:ENST00000327757/ORF3,chr2:28807889:+:MIR>chr2:28808628:+:ENST00000422425/ORF3,chr2:28807889:+:MIR>chr2:28808628:+:ENST00000404858/ORF3,chr2:28807889:+:MIR>chr2:28808628:+:ENST00000329020/ORF3,chr2:28807889:+:MIR>chr2:28808628:+:ENST00000436544
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17918	chr2:3505450:->chr2:3504764:-	ORF2,chr2:3505450:-:AluSx1>chr2:3504764:-:ENST00000327435/ORF2,chr2:3505450:-:AluSx1>chr2:3504764:-:ENST00000382093
17919	chr2:3505450:->chr2:3504764:-	ORF3,chr2:3505450:-:AluSx1>chr2:3504764:-:ENST00000327435/ORF3,chr2:3505450:-:AluSx1>chr2:3504764:-:ENST00000382093
17920	chr2:36725498:+>chr2:36726362:+	ORF3,chr2:36725498:+:MIR>chr2:36726362:+:ENST00000280527
17921	chr2:36725498:+>chr2:36726362:+	ORF1,chr2:36725498:+:MIR>chr2:36726362:+:ENST00000280527
17922	chr2:36725498:+>chr2:36726362:+	ORF2,chr2:36725498:+:MIR>chr2:36726362:+:ENST00000280527
17923	chr2:36759987:+>chr2:36764495:+	ORF3,chr2:36759987:+:MIR>chr2:36764495:+:ENST00000280527
17924	chr2:36759987:+>chr2:36764495:+	ORF2,chr2:36759987:+:MIR>chr2:36764495:+:ENST00000280527
17925	chr2:36759987:+>chr2:36764495:+	ORF1,chr2:36759987:+:MIR>chr2:36764495:+:ENST00000280527
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17928	chr2:37490123:->chr2:37487527:-	ORF1,chr2:37490123:-:L1M5>chr2:37487527:-:ENST00000443977
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17934	chr2:37519722:->chr2:37518142:-	ORF2,chr2:37519722:-:AluY>chr2:37518142:-:ENST00000379066/ORF2,chr2:37519722:-:AluY>chr2:37518142:-:ENST00000234179/ORF2,chr2:37519722:-:AluY>chr2:37518142:-:ENST00000443187
17935	chr2:37520065:->chr2:37518142:-	ORF2,chr2:37520065:-:AluJb>chr2:37518142:-:ENST00000443187
17936	chr2:37520065:->chr2:37518142:-	ORF2,chr2:37520065:-:AluJb>chr2:37518142:-:ENST00000379066/ORF2,chr2:37520065:-:AluJb>chr2:37518142:-:ENST00000234179

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17938	chr2:37520065:->chr2:37518142:-	ORF3,chr2:37520065:-:AluJb>chr2:37518142:- :ENST00000379066/ORF3,chr2:37520065:-:AluJb>chr2:37518142:- :ENST00000234179/ORF3,chr2:37520065:-:AluJb>chr2:37518142:-:ENST00000443187
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17947	chr2:40439656:->chr2:40404995:-	ORF3,chr2:40439656:-:AluSc>chr2:40404995:-:ENST00000542024
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17965	chr2:40548694:->chr2:40404995:-	ORF3,chr2:40548694:-:THE1C>chr2:40404995:- :ENST00000406785/ORF3,chr2:40548694:-:THE1C>chr2:40404995:- :ENST00000402441/ORF3,chr2:40548694:-:THE1C>chr2:40404995:- :ENST00000405269/ORF3,chr2:40548694:-:THE1C>chr2:40404995:-:ENST00000406391
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17967	chr2:40548694:->chr2:40404995:-	ORF2,chr2:40548694:-:THE1C>chr2:40404995:- :ENST00000406785/ORF2,chr2:40548694:-:THE1C>chr2:40404995:- :ENST00000407929/ORF2,chr2:40548694:-:THE1C>chr2:40404995:- :ENST00000402441/ORF2,chr2:40548694:-:THE1C>chr2:40404995:- :ENST00000405269/ORF2,chr2:40548694:-:THE1C>chr2:40404995:- :ENST00000406391/ORF2,chr2:40548694:-:THE1C>chr2:40404995:- :ENST00000408028/ORF2,chr2:40548694:-:THE1C>chr2:40404995:-:ENST00000542024
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17973	chr2:42684304:->chr2:42671719:-	ORF2,chr2:42684304:-:MIR>chr2:42671719:-:ENST00000306078/ORF2,chr2:42684304:- :MIR>chr2:42671719:-:ENST00000394973

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17975	chr2:43961903:+>chr2:43965480:+	ORF1,chr2:43961903:+:L1MA4>chr2:43965480:+:ENST00000282406
17976	chr2:43961903:+>chr2:43965480:+	ORF2,chr2:43961903:+:L1MA4>chr2:43965480:+:ENST00000282406
17977	chr2:43961903:+>chr2:43965480:+	ORF3,chr2:43961903:+:L1MA4>chr2:43965480:+:ENST00000282406
17978	chr2:43965055:+>chr2:43965480:+	ORF2,chr2:43965055:+:L1MEc>chr2:43965480:+:ENST00000282406
17979	chr2:43965055:+>chr2:43965480:+	ORF1,chr2:43965055:+:L1MEc>chr2:43965480:+:ENST00000282406
17980	chr2:43965055:+>chr2:43965480:+	ORF3,chr2:43965055:+:L1MEc>chr2:43965480:+:ENST00000282406
17981	chr2:46052833:+>chr2:46070139:+	ORF3,chr2:46052833:+:AluJr>chr2:46070139:+:ENST00000421201
17982	chr2:46052833:+>chr2:46070139:+	ORF3,chr2:46052833:+:AluJr>chr2:46070139:+:ENST00000306156
17983	chr2:46052833:+>chr2:46070139:+	ORF2,chr2:46052833:+:AluJr>chr2:46070139:+:ENST00000421201/ORF2,chr2:46052833:+:AluJr>chr2:46070139:+:ENST00000306156
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17985	chr2:46807863:+>chr2:46808067:+	ORF2,chr2:46807863:+:L2a>chr2:46808067:+:ENST00000238738
17986	chr2:46807863:+>chr2:46808067:+	ORF3,chr2:46807863:+:L2a>chr2:46808067:+:ENST00000238738
17987	chr2:47177861:+>chr2:47183978:+	ORF1,chr2:47177861:+:MER33>chr2:47183978:+:ENST00000409245/ORF1,chr2:47177861:+:MER33>chr2:47183978:+:ENST00000319190/ORF1,chr2:47177861:+:MER33>chr2:47183978:+:ENST00000394850/ORF1,chr2:47177861:+:MER33>chr2:47183978:+:ENST00000441914
17988	chr2:47177861:+>chr2:47183978:+	ORF3,chr2:47177861:+:MER33>chr2:47183978:+:ENST00000409245/ORF3,chr2:47177861:+:MER33>chr2:47183978:+:ENST00000319190/ORF3,chr2:47177861:+:MER33>chr2:47183978:+:ENST00000394850/ORF3,chr2:47177861:+:MER33>chr2:47183978:+:ENST00000441914
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18100	chr2:85804390:+>chr2:85806132:+	ORF3,chr2:85804390:+:FLAM_C>chr2:85806132:+:ENST00000263864/ORF3,chr2:85804390:+:FLAM_C>chr2:85806132:+:ENST00000409760
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18121	chr2:89443312:->chr2:89442355:-	ORF2,chr2:89443312:-:MER70-int>chr2:89442355:-:ENST00000492167
18122	chr2:89443312:->chr2:89442355:-	ORF3,chr2:89443312:-:MER70-int>chr2:89442355:-:ENST00000492167
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18125	chr2:89545604:->chr2:89544574:-	ORF2,chr2:89545604:-:L1ME3>chr2:89544574:-:ENST00000468494
18126	chr2:9482778:+>chr2:9484661:+	ORF2,chr2:9482778:+:L1M4>chr2:9484661:+:ENST00000281419/ORF2,chr2:9482778:+:L1M4>chr2:9484661:+:ENST00000315273
18127	chr2:9482778:+>chr2:9484661:+	ORF3,chr2:9482778:+:L1M4>chr2:9484661:+:ENST00000281419/ORF3,chr2:9482778:+:L1M4>chr2:9484661:+:ENST00000315273
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18189	chr2:97470704:+>chr2:97474298:+	ORF3,chr2:97470704:+:FLAM_C>chr2:97474298:+:ENST00000377075
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19060	chr3:52897272:->chr3:52889460:-	ORF1,chr3:52897272:-:THE1A>chr3:52889460:-:ENST00000504329/ORF1,chr3:52897272:-:THE1A>chr3:52889460:-:ENST00000355083
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19369	chr4:46067816:->chr4:46067601:-	ORF2,chr4:46067816:-:AluY>chr4:46067601:-:ENST00000295452
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19373	chr4:47584978:+>chr4:47589097:+	ORF1,chr4:47584978:+:AluJr>chr4:47589097:+:ENST00000273859
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20973	chr8:67426607:+>chr8:67428128:+	ORF2,chr8:67426607:+:MIRb>chr8:67428128:+:ENST00000305454/ORF2,chr8:67426607:+:MIRb>chr8:67428128:+:ENST00000521495/ORF2,chr8:67426607:+:MIRb>chr8:67428128:+:ENST00000522977
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20982	chr8:89070236:->chr8:89068506:-	ORF1,chr8:89070236:-:L2a>chr8:89068506:-:ENST00000286614
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21003	chr8:98819269:+>chr8:98827556:+	ORF1,chr8:98819269:+:THE1A>chr8:98827556:+:ENST00000517924
21004	chr8:98819269:+>chr8:98827556:+	ORF1,chr8:98819269:+:THE1A>chr8:98827556:+:ENST00000445593/ORF1,chr8:98819269:+:THE1A>chr8:98827556:+:ENST00000521545
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21006	chr8:98819269:+>chr8:98827556:+	ORF2,chr8:98819269:+:THE1A>chr8:98827556:+:ENST00000445593/ORF2,chr8:98819269:+:THE1A>chr8:98827556:+:ENST00000521545/ORF2,chr8:98819269:+:THE1A>chr8:98827556:+:ENST00000517924
21007	chr8:98822589:+>chr8:98827556:+	ORF1,chr8:98822589:+:L1MC4a>chr8:98827556:+:ENST00000445593/ORF1,chr8:98822589:+:L1MC4a>chr8:98827556:+:ENST00000521545/ORF1,chr8:98822589:+:L1MC4a>chr8:98827556:+:ENST00000517924
21008	chr8:98822589:+>chr8:98827556:+	ORF3,chr8:98822589:+:L1MC4a>chr8:98827556:+:ENST00000445593/ORF3,chr8:98822589:+:L1MC4a>chr8:98827556:+:ENST00000521545/ORF3,chr8:98822589:+:L1MC4a>chr8:98827556:+:ENST00000517924
21009	chr8:98822589:+>chr8:98827556:+	ORF2,chr8:98822589:+:L1MC4a>chr8:98827556:+:ENST00000517924
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21011	chr9:101067129:->chr9:101065705:-	ORF1,chr9:101067129:-:AluJb>chr9:101065705:-:ENST00000259455
21012	chr9:101067129:->chr9:101065705:-	ORF3,chr9:101067129:-:AluJb>chr9:101065705:-:ENST00000259455
21013	chr9:101067129:->chr9:101065705:-	ORF2,chr9:101067129:-:AluJb>chr9:101065705:-:ENST00000259455
21014	chr9:101867407:+>chr9:101891137:+	ORF3,chr9:101867407:+:(CGGGG)n>chr9:101891137:+:ENST00000374994/ORF3,chr9:101867407:+:(CGGGG)n>chr9:101891137:+:ENST00000374990/ORF3,chr9:101867407:+:(CGGGG)n>chr9:101891137:+:ENST00000549766/ORF3,chr9:101867407:+:(CGGGG)n>chr9:101891137:+:ENST00000552516/ORF3,chr9:101867407:+:(CGGGG)n>chr9:101891137:+:ENST00000546584
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21022	chr9:103289606:+>chr9:103310026:+	ORF2,chr9:103289606:+:L1PA2>chr9:103310026:+:ENST00000502978/ORF2,chr9:103289606:+:L1PA2>chr9:103310026:+:ENST00000334943/ORF2,chr9:103289606:+:L1PA2>chr9:103310026:+:ENST00000374879
21023	chr9:103289606:+>chr9:103310026:+	ORF3,chr9:103289606:+:L1PA2>chr9:103310026:+:ENST00000502978/ORF3,chr9:103289606:+:L1PA2>chr9:103310026:+:ENST00000334943/ORF3,chr9:103289606:+:L1PA2>chr9:103310026:+:ENST00000374879
21024	chr9:103289650:+>chr9:103310026:+	ORF2,chr9:103289650:+:L1PA2>chr9:103310026:+:ENST00000502978/ORF2,chr9:103289650:+:L1PA2>chr9:103310026:+:ENST00000334943/ORF2,chr9:103289650:+:L1PA2>chr9:103310026:+:ENST00000374879
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21026	chr9:103289650:+>chr9:103310026:+	ORF1,chr9:103289650:+:L1PA2>chr9:103310026:+:ENST00000502978/ORF1,chr9:103289650:+:L1PA2>chr9:103310026:+:ENST00000334943/ORF1,chr9:103289650:+:L1PA2>chr9:103310026:+:ENST00000374879
21027	chr9:104392017:->chr9:104390683:-	ORF1,chr9:104392017:-:MIRb>chr9:104390683:-:ENST00000361820
21028	chr9:104392017:->chr9:104390683:-	ORF3,chr9:104392017:-:MIRb>chr9:104390683:-:ENST00000361820
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21263	chr9:35790337:+>chr9:35793895:+	ORF3,chr9:35790337:+:L2c>chr9:35793895:+:ENST00000342694
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21265	chr9:36057010:+>chr9:36058824:+	ORF2,chr9:36057010:+:Tigger12c>chr9:36058824:+:ENST00000377966
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21269	chr9:36110253:+>chr9:36112302:+	ORF2,chr9:36110253:+:MIR3>chr9:36112302:+:ENST00000377966
21270	chr9:36110253:+>chr9:36112302:+	ORF1,chr9:36110253:+:MIR3>chr9:36112302:+:ENST00000377966
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21421	chrX:1409700:+>chrX:1413221:+	ORF1,chrX:1409700:+:AluSx>chrX:1413221:+:ENST00000381529/ORF1,chrX:1409700:+:AluSx>chrX:1413221:+:ENST00000361536/ORF1,chrX:1409700:+:AluSx>chrX:1413221:+:ENST00000432318/ORF1,chrX:1409700:+:AluSx>chrX:1413221:+:ENST00000501036/ORF1,chrX:1409700:+:AluSx>chrX:1413221:+:ENST00000381524/ORF1,chrX:1409700:+:AluSx>chrX:1413221:+:ENST00000381509/ORF1,chrX:1409700:+:AluSx>chrX:1413221:+:ENST00000355432/ORF1,chrX:1409700:+:AluSx>chrX:1413221:+:ENST00000417535/ORF1,chrX:1409700:+:AluSx>chrX:1413221:+:ENST00000381500
21422	chrX:1409700:+>chrX:1413221:+	ORF1,chrX:1409700:+:AluSx>chrX:1413221:+:ENST00000486791
21423	chrX:149786268:+>chrX:149787511:+	ORF2,chrX:149786268:+:L2b>chrX:149787511:+:ENST00000370396/ORF2,chrX:149786268:+:L2b>chrX:149787511:+:ENST00000542741/ORF2,chrX:149786268:+:L2b>chrX:149787511:+:ENST00000413012
21424	chrX:149786268:+>chrX:149787511:+	ORF3,chrX:149786268:+:L2b>chrX:149787511:+:ENST00000370396/ORF3,chrX:149786268:+:L2b>chrX:149787511:+:ENST00000542741/ORF3,chrX:149786268:+:L2b>chrX:149787511:+:ENST00000413012
21425	chrX:149904099:+>chrX:149905067:+	ORF3,chrX:149904099:+:L2>chrX:149905067:+:ENST00000485376/ORF3,chrX:149904099:+:L2>chrX:149905067:+:ENST00000451863
21426	chrX:149904099:+>chrX:149905067:+	ORF3,chrX:149904099:+:L2>chrX:149905067:+:ENST00000541925/ORF3,chrX:149904099:+:L2>chrX:149905067:+:ENST00000370390/ORF3,chrX:149904099:+:L2>chrX:149905067:+:ENST00000544228/ORF3,chrX:149904099:+:L2>chrX:149905067:+:ENST00000445323
21427	chrX:149904099:+>chrX:149905067:+	ORF2,chrX:149904099:+:L2>chrX:149905067:+:ENST00000541925/ORF2,chrX:149904099:+:L2>chrX:149905067:+:ENST00000485376/ORF2,chrX:149904099:+:L2>chrX:149905067:+:ENST00000370390/ORF2,chrX:149904099:+:L2>chrX:149905067:+:ENST00000451863/ORF2,chrX:149904099:+:L2>chrX:149905067:+:ENST00000544228/ORF2,chrX:149904099:+:L2>chrX:149905067:+:ENST00000445323
21428	chrX:149904099:+>chrX:149905067:+	ORF1,chrX:149904099:+:L2>chrX:149905067:+:ENST00000541925/ORF1,chrX:149904099:+:L2>chrX:149905067:+:ENST00000485376/ORF1,chrX:149904099:+:L2>chrX:149905067:+:ENST00000370390/ORF1,chrX:149904099:+:L2>chrX:149905067:+:ENST00000451863/ORF1,chrX:149904099:+:L2>chrX:149905067:+:ENST00000544228/ORF1,chrX:149904099:+:L2>chrX:149905067:+:ENST00000445323
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21430	chrX:149914211:+>chrX:149919202:+	ORF2,chrX:149914211:+:MER5B>chrX:149919202:+:ENST00000541925/ORF2,chrX:149914211:+:MER5B>chrX:149919202:+:ENST00000485376/ORF2,chrX:149914211:+:MER5B>chrX:149919202:+:ENST00000370390/ORF2,chrX:149914211:+:MER5B>chrX:149919202:+:ENST00000451863/ORF2,chrX:149914211:+:MER5B>chrX:149919202:+:ENST00000544228/ORF2,chrX:149914211:+:MER5B>chrX:149919202:+:ENST00000445323/ORF2,chrX:149914211:+:MER5B>chrX:149919202:+:ENST00000488357/ORF2,chrX:149914211:+:MER5B>chrX:149919202:+:ENST00000538506

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21432	chrX:149945390:->chrX:149944766:-	ORF1,chrX:149945390:-:MER4A>chrX:149944766:- :ENST00000370377/ORF1,chrX:149945390:-:MER4A>chrX:149944766:- :ENST00000355149/ORF1,chrX:149945390:-:MER4A>chrX:149944766:- :ENST00000437787/ORF1,chrX:149945390:-:MER4A>chrX:149944766:- :ENST00000466436
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21434	chrX:149996779:->chrX:149945955:-	ORF2,chrX:149996779:-:MIR>chrX:149945955:- :ENST00000370377/ORF2,chrX:149996779:-:MIR>chrX:149945955:- :ENST00000355149/ORF2,chrX:149996779:-:MIR>chrX:149945955:- :ENST00000437787/ORF2,chrX:149996779:-:MIR>chrX:149945955:- :ENST00000466436/ORF2,chrX:149996779:-:MIR>chrX:149945955:-:ENST00000418547
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21447	chrX:151138525:->chrX:151138208:-	ORF2,chrX:151138525:-:MIR3>chrX:151138208:-:ENST00000370325
21448	chrX:151138525:->chrX:151138208:-	ORF1,chrX:151138525:-:MIR3>chrX:151138208:- :ENST00000370328/ORF1,chrX:151138525:-:MIR3>chrX:151138208:- :ENST00000370325
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21453	chrX:154042475:->chrX:154020560:-	ORF3,chrX:154042475:-:MER4-int>chrX:154020560:- :ENST00000369534/ORF3,chrX:154042475:-:MER4-int>chrX:154020560:- :ENST00000413259/ORF3,chrX:154042475:-:MER4-int>chrX:154020560:- :ENST00000393531/ORF3,chrX:154042475:-:MER4-int>chrX:154020560:- :ENST00000369531
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21462	chrX:15685653:->chrX:15682518:-	ORF1,chrX:15685653:-:L1ME4a>chrX:15682518:-:ENST00000380342
21463	chrX:15685653:->chrX:15682518:-	ORF2,chrX:15685653:-:L1ME4a>chrX:15682518:-:ENST00000380342
21464	chrX:15685653:->chrX:15682518:-	ORF3,chrX:15685653:-:L1ME4a>chrX:15682518:-:ENST00000380342
21465	chrX:16026822:+>chrX:16168428:+	ORF1,chrX:16026822:+:L2c>chrX:16168428:+:ENST00000380289
21466	chrX:16026822:+>chrX:16168428:+	ORF2,chrX:16026822:+:L2c>chrX:16168428:+:ENST00000380289
21467	chrX:16041993:+>chrX:16168428:+	ORF2,chrX:16041993:+:MLT1E1>chrX:16168428:+:ENST00000380289
21468	chrX:16041993:+>chrX:16168428:+	ORF1,chrX:16041993:+:MLT1E1>chrX:16168428:+:ENST00000380289
21469	chrX:16041993:+>chrX:16168428:+	ORF3,chrX:16041993:+:MLT1E1>chrX:16168428:+:ENST00000380289
21470	chrX:19071917:->chrX:19058342:-	ORF1,chrX:19071917:-:THE1B>chrX:19058342:-:ENST00000357991
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21473	chrX:19071917:->chrX:19058342:-	ORF1,chrX:19071917:-:THE1B>chrX:19058342:-:ENST00000379876
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21477	chrX:2686581:+>chrX:2688591:+	ORF1,chrX:2686581:+:AluSz>chrX:2688591:+:ENST00000426774
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21480	chrX:2686581:+>chrX:2688591:+	ORF3,chrX:2686581:+:AluSz>chrX:2688591:+:ENST00000381174/ORF3,chrX:2686581:+:AluSz>chrX:2688591:+:ENST00000419513/ORF3,chrX:2686581:+:AluSz>chrX:2688591:+:ENST00000426774
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21484	chrX:32536470:->chrX:32536248:-	ORF2,chrX:32536470:-:L3>chrX:32536248:-:ENST00000378677/ORF2,chrX:32536470:-:L3>chrX:32536248:-:ENST00000357033/ORF2,chrX:32536470:-:L3>chrX:32536248:-:ENST00000288447
21485	chrX:32536470:->chrX:32536248:-	ORF1,chrX:32536470:-:L3>chrX:32536248:-:ENST00000378677/ORF1,chrX:32536470:-:L3>chrX:32536248:-:ENST00000357033
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21488	chrX:32536515:->chrX:32536248:-	ORF1,chrX:32536515:-:L3>chrX:32536248:-:ENST00000378677/ORF1,chrX:32536515:-:L3>chrX:32536248:-:ENST00000357033
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21492	chrX:37649344:+>chrX:37651228:+	ORF3,chrX:37649344:+:LTR16C>chrX:37651228:+:ENST00000378588/ORF3,chrX:37649344:+:LTR16C>chrX:37651228:+:ENST00000545017
21493	chrX:37649344:+>chrX:37651228:+	ORF1,chrX:37649344:+:LTR16C>chrX:37651228:+:ENST00000378588/ORF1,chrX:37649344:+:LTR16C>chrX:37651228:+:ENST00000545017
21494	chrX:46474637:->chrX:46466638:-	ORF1,chrX:46474637:-:AluSc>chrX:46466638:-:ENST00000328306
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21497	chrX:46474677:->chrX:46466638:-	ORF1,chrX:46474677:-:AluSc>chrX:46466638:-:ENST00000328306
21498	chrX:46474677:->chrX:46466638:-	ORF3,chrX:46474677:-:AluSc>chrX:46466638:-:ENST00000328306
21499	chrX:46611648:->chrX:46541970:-	ORF2,chrX:46611648:-:L1MC4>chrX:46541970:-:ENST00000328306
21500	chrX:46611648:->chrX:46541970:-	ORF3,chrX:46611648:-:L1MC4>chrX:46541970:-:ENST00000328306
21501	chrX:46611648:->chrX:46541970:-	ORF1,chrX:46611648:-:L1MC4>chrX:46541970:-:ENST00000328306
21502	chrX:49742639:+>chrX:49806925:+	ORF1,chrX:49742639:+:MIR>chrX:49806925:+:ENST00000376088/ORF1,chrX:49742639:+:MIR>chrX:49806925:+:ENST00000376091/ORF1,chrX:49742639:+:MIR>chrX:49806925:+:ENST00000482218
21503	chrX:49742639:+>chrX:49806925:+	ORF3,chrX:49742639:+:MIR>chrX:49806925:+:ENST00000376088/ORF3,chrX:49742639:+:MIR>chrX:49806925:+:ENST00000376091
21504	chrX:49742639:+>chrX:49806925:+	ORF3,chrX:49742639:+:MIR>chrX:49806925:+:ENST00000482218
21505	chrX:49742639:+>chrX:49806925:+	ORF2,chrX:49742639:+:MIR>chrX:49806925:+:ENST00000376088/ORF2,chrX:49742639:+:MIR>chrX:49806925:+:ENST00000376091/ORF2,chrX:49742639:+:MIR>chrX:49806925:+:ENST00000482218
21506	chrX:49742691:+>chrX:49806925:+	ORF2,chrX:49742691:+:MIRb>chrX:49806925:+:ENST00000376088/ORF2,chrX:49742691:+:MIRb>chrX:49806925:+:ENST00000376091
21507	chrX:49742691:+>chrX:49806925:+	ORF2,chrX:49742691:+:MIRb>chrX:49806925:+:ENST00000482218
21508	chrX:49742691:+>chrX:49806925:+	ORF1,chrX:49742691:+:MIRb>chrX:49806925:+:ENST00000376088/ORF1,chrX:49742691:+:MIRb>chrX:49806925:+:ENST00000376091/ORF1,chrX:49742691:+:MIRb>chrX:49806925:+:ENST00000482218

21509	chrX:49742691:+>chrX:49806925:+	ORF3,chrX:49742691:+:MIRb>chrX:49806925:+:ENST00000376088/ORF3,chrX:49742691:+:MIRb>chrX:49806925:+:ENST00000376091/ORF3,chrX:49742691:+:MIRb>chrX:49806925:+:ENST00000482218
21510	chrX:49854271:+>chrX:49854773:+	ORF1,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000376088/ORF1,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000376091/ORF1,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000376108/ORF1,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000307367
21511	chrX:49854271:+>chrX:49854773:+	ORF3,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000376088/ORF3,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000376091/ORF3,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000376108/ORF3,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000307367
21512	chrX:49854271:+>chrX:49854773:+	ORF2,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000376088/ORF2,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000376091/ORF2,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000376108/ORF2,chrX:49854271:+:AluJb>chrX:49854773:+:ENST00000307367
21513	chrX:64832228:+>chrX:64936680:+	ORF2,chrX:64832228:+:MSTD>chrX:64936680:+:ENST00000360270
21514	chrX:64832228:+>chrX:64936680:+	ORF1,chrX:64832228:+:MSTD>chrX:64936680:+:ENST00000360270
21515	chrX:64832228:+>chrX:64936680:+	ORF3,chrX:64832228:+:MSTD>chrX:64936680:+:ENST00000360270
21516	chrX:64921503:+>chrX:64936680:+	ORF1,chrX:64921503:+:MER5A>chrX:64936680:+:ENST00000360270
21517	chrX:64921503:+>chrX:64936680:+	ORF3,chrX:64921503:+:MER5A>chrX:64936680:+:ENST00000360270
21518	chrX:69218743:+>chrX:69243068:+	ORF3,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000503592
21519	chrX:69218743:+>chrX:69243068:+	ORF3,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000374552
21520	chrX:69218743:+>chrX:69243068:+	ORF3,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000374553
21521	chrX:69218743:+>chrX:69243068:+	ORF3,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000524573
21522	chrX:69218743:+>chrX:69243068:+	ORF2,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000374552/ORF2,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000374553/ORF2,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000524573/ORF2,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000503592
21523	chrX:69218743:+>chrX:69243068:+	ORF1,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000503592
21524	chrX:69218743:+>chrX:69243068:+	ORF1,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000374552/ORF1,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000374553
21525	chrX:69218743:+>chrX:69243068:+	ORF1,chrX:69218743:+:THE1A>chrX:69243068:+:ENST00000524573
21526	chrX:70333224:->chrX:70331344:-	ORF1,chrX:70333224:-:MLT1C>chrX:70331344:-:ENST00000374202
21527	chrX:70333224:->chrX:70331344:-	ORF3,chrX:70333224:-:MLT1C>chrX:70331344:-:ENST00000374202
21528	chrX:70333224:->chrX:70331344:-	ORF2,chrX:70333224:-:MLT1C>chrX:70331344:-:ENST00000374202
21529	chrX:77115700:->chrX:77112994:-	ORF2,chrX:77115700:-:AluSz>chrX:77112994:-:ENST00000358075
21530	chrX:77115700:->chrX:77112994:-	ORF3,chrX:77115700:-:AluSz>chrX:77112994:-:ENST00000358075
21531	chrX:77115700:->chrX:77112994:-	ORF1,chrX:77115700:-:AluSz>chrX:77112994:-:ENST00000358075
21532	chrX:9715893:->chrX:9714193:-	ORF3,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000467482/ORF3,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000380929/ORF3,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000447366/ORF3,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000431126
21533	chrX:9715893:->chrX:9714193:-	ORF1,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000431126
21534	chrX:9715893:->chrX:9714193:-	ORF1,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000447366
21535	chrX:9715893:->chrX:9714193:-	ORF1,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000467482/ORF1,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000380929
21536	chrX:9715893:->chrX:9714193:-	ORF2,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000467482/ORF2,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000380929/ORF2,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000447366/ORF2,chrX:9715893:-:MER58A>chrX:9714193:-:ENST00000431126
21537	chrX:9877608:+>chrX:9900215:+	ORF2,chrX:9877608:+:L1MC3>chrX:9900215:+:ENST00000380913
21538	chrX:9877608:+>chrX:9900215:+	ORF3,chrX:9877608:+:L1MC3>chrX:9900215:+:ENST00000380913
21539	chrX:9877608:+>chrX:9900215:+	ORF1,chrX:9877608:+:L1MC3>chrX:9900215:+:ENST00000380913
21540	chrX:99933113:->chrX:99931173:-	ORF1,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000372989/ORF1,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000276141/ORF1,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000454200/ORF1,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000455616/ORF1,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000263033

21541	chrX:99933113:->chrX:99931173:-	ORF2,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000372989/ORF2,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000276141/ORF2,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000454200/ORF2,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000455616/ORF2,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000263033
21542	chrX:99933113:->chrX:99931173:-	ORF3,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000372989/ORF3,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000276141/ORF3,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000454200/ORF3,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000455616/ORF3,chrX:99933113:-:L2a>chrX:99931173:-:ENST00000263033

Description of the sequences :

Corresponding table and origin of the sequences	SEQ ID NOs
Table 14:pJETs from exon donor fusions	1-1423
Table 15: pJETs from TE donor fusions	1424-8202
Table 9: pJETS from proteomics	8203-8259
Table 10 pJETS from proteomics	8260-8269
Table 11 pJETS from proteomics	8270-8285
Table 12 pJETS from proteomics	8286-8387
Table 13 pJETS from proteomics	8388-9165
Table 18: translated pJETs from metafusions	9166-10163
Table 19: translated pJETs from exon donor fusions	10164-12830
Table 20: translated pJETs from TE donor fusions	12831-21542
Table LUAD: pJETs	21543-21659
pJETs from Figures 11-18	21660-21698

CLAIMS

1. A chimeric polypeptide comprising or consisting of any one of SEQ ID NO:1 to 21542, or a fragment thereof, optionally of at least 4, 5, 6, 7 or 9 amino acids, wherein said chimeric polypeptide is expressed at the cell membrane.

2. The chimeric polypeptide according to claim ,1 which is expressed in more than 1 %, notably more than 5 %, and typically more than 10% of the tumor samples.

3. The chimeric polypeptide according to any one of claim 1 or 2, which is expressed at higher levels in tumor samples as compared to normal samples.

4. The chimeric polypeptide according to any one of claims 1 to 3, which is expressed in less than 20%, notably less than 10 %, less than 5 % or less than 1 % of the normal samples.

5. The chimeric polypeptide according to any one of claims 1 to 4, wherein the part of the sequence derived from the TE nucleotide sequence is exposed at the cell surface.

6. An antigen binding domain that binds a chimeric polypeptide or a fragment thereof according to any one of claims 1 to 5 with a Kd binding affinity of less than about 10^{-5} M

7. The antigen binding domain according to claim 6 which binds a neoantigenic peptide sequence from any one of the chimeric polypeptides of claims 1 to 5, wherein neoantigenic peptide sequence a) is from any one of SEQ ID NO:1-21542 or a fragment thereof and comprises at least a sequence derived from the TE-derived amino acid sequence, optionally (i) a fragment that overlaps the breakpoint between, the TE-derived amino acid sequence and an exon-derived amino acid sequence or, optionally (ii) a pure TE sequence; or b) is from any one of SEQ ID NO:1-1423, 8203-12830 or a fragment thereof and is encoded by a non-canonical ORF downstream of the junction between the TE-derived amino acid sequence and the exon-derived amino acid sequence.

8. The antigen binding domain according to any one of claim 6 or 7 which comprises one or more, typically one or two immunoglobulin region(s).

9. The antigen binding domain according to any one of claims 6 to 8, which comprises a heavy chain variable region (VH) of an antibody, or optionally three CDRs of a VH.

10. The antigen binding domain according to any one of claims 6 to 9, which comprises a light chain variable region (VL) of an antibody, or optionally three CDRs of a VL.

11. An antibody comprising an antigen binding domain according to any one of claims 6 to 10, optionally wherein the antibody is selected from an intact IgG, an scFv, a BiTE, or a multispecific antibody.

12. A chimeric antigen receptor (CAR) or a recombinant non-HLA restricted T cell receptor (TCR) comprising an antigen-binding domain as defined in any one of claims 6 to 10.

13. A recombinant non-HLA restricted TCR according to claim 12, wherein the extracellular antigen-binding domain is capable of dimerizing with a second extracellular antigen-binding domain.

14. The recombinant non-HLA restricted TCR according to claim 13, wherein the second extracellular antigen-binding domain binds a tumor antigen, preferably wherein the tumor antigen is selected from pHER95, CD19, MUC16, MUC1, CAIX, CEA, CD8, CD7, CD10, CD20, CD22, CD30, CD70, CLL1, CD33, CD34, CD38, CD41, CD44, CD49f, CD56, CD74, CD133, CD138, EGP-2, EGP-40, EpCAM, Erb-B2, Erb-B3, Erb-B4, FBP, Fetal acetylcholine receptor, folate receptor-a, GD2, GD3, HER-2, hTERT, IL-13R-a2, κ-light chain, KDR, LeY, L1 cell adhesion molecule, MAGE-A1, Mesothelin, MAGEA3, p53, MART1,GP100, Proteinase3 (PR1), Tyrosinase, Survivin, hTERT, EphA2, NKG2D ligands, NY-ESO-1, oncofetal antigen (h5T4), PSCA, PSMA, ROR1, TAG-72, VEGF-R2, WT-1, BCMA, CD123, CD44V6, NKCS1, EGF1R, EGFR-VIII, CD99, CD70, ADGRE2, CCR1, LILRB2, LILRB4, PRAME, and ERBB.

15. A CAR according to claim 12 comprising:

a) an extracellular comprising the antigen-binding domain of any one of claims 6 to 10,

b) a transmembrane domain,

c) optionally one or more costimulatory domains

d) an intracellular signaling domain comprising a modified CD3zeta intracellular signaling domain in which ITAM2 and ITAM3 have been inactivated,

16. The CAR of claim 15 wherein the transmembrane domain is from CD28, CD8 or CD3-zeta.

17. The CAR of any one of claim 15 or 16, wherein the one or more costimulatory domains are selected from the group consisting of: 4-1BB, CD28, ICOS, OX40 and DAP10.

18. The CAR of any one of claims 15 to 17, wherein the intracellular signaling domain comprises the intracellular signaling domain of a CD3-zeta polypeptide, or a fragment thereof, optionally a CD3-zeta polypeptide wherein immunoreceptor tyrosine-based activation motif 2 (ITAM2) and immunoreceptor tyrosine-based activation motif 3 (ITAM3) are inactivated.

19. A method of producing an antibody, a non-HLA restricted TCR or a CAR as defined in claims 11-18 comprising an antigen-binding domain as defined in any one of claims 6-10, comprising the step of selecting an antibody, a non-HLA restricted TCR or a CAR that binds to a neoantigenic peptide, or a cell expressing a neoantigenic peptide, of any of claims 1-5 with a Kd binding affinity of about 10^{-6} M or less.

20. An antibody, a TCR or a CAR produced by the method of claim 19, optionally wherein the TCR is a non-HLA restricted TCR.

21. A polynucleotide encoding a neoantigenic peptide as defined in claims 1-5, or an antibody, a CAR or a non-HLA restricted TCR as defined in any one of claims 11-18, optionally linked to a heterologous regulatory control sequence.

22. A vector comprising the polynucleotide of claim 21.

23. An immune cell comprising a CAR or a non-HLA restricted TCR as defined in any one of claims 12-18

24. The immune cell of claim 23, which is an allogenic or autologous cell selected from T cells, Natural Killer T cells, CD4+/CD8+ T cells, TILs/tumor derived CD8 T cells, central memory CD8+ T cells, Treg, MAIT, Yδ T cells, human embryonic stem cells, and pluripotent stem cells from which lymphoid cells may be differentiated.

25. The immune cell of any one of claims 23-24 which is defective for Suv39h1.

26. A pharmaceutical composition comprising an effective amount of an immune cell as defined in any one of claims 23-25 and a pharmaceutically acceptable excipient.

27. The chimeric polypeptide of any one of claims 1-5, the antigen binding domain of any one of claims 6-10, the antibody of claim 11, the non-HLA restricted TCR or the CAR of any one of claims 12-18, the polynucleotide of claim 21, the vector of claim 22, the immune cell of any one of claims 23-25, or the composition comprising thereof for use for inhibiting cancer cell proliferation, or for use in the treatment of cancer in a subject in need thereof, optionally wherein the composition further comprise a pharmaceutical excipient.

28. The chimeric polypeptide of any one of claims 1-5, the antigen binding domain of any one of claims 6-10, the antibody of claim 11, the non-HLA restricted TCR or the CAR of any one of claims 12-18, the polynucleotide of claim 21, the vector of claim 22, the immune cell of any one of claims 23-25, or the composition comprising thereof optionally in combination with a pharmaceutical excipient for use in in cell therapy of cancer.

29. The chimeric polypeptide of any one of claims 1-5, the antigen binding domain of any one of claims 6-10, the antibody of claim 11, the non-HLA restricted TCR or the CAR of any one of claims 12-18, the polynucleotide of claim 21, the vector of claim 22, the immune cell of any one of claims 23-25, or the composition comprising thereof optionally in combination with a pharmaceutical excipient for use according to claim 27 or 28, which is administered in combination with at least one further therapeutic agent.

30. The neoantigenic peptide of any one of claims 1-5, the antigen binding domain of any one of claims 6-10, the antibody of claim 11, the non-HLA restricted TCR or the CAR of any one of claims 12-18, the polynucleotide of claim 21, the vector of claim 22, the immune cell of any one of claims 23-25, or the composition comprising thereof optionally in combination with a pharmaceutical excipient for use according to claim 29, wherein said at least one further therapeutic agent is a chemotherapeutic agent, or an immunotherapeutic agent, optionally a checkpoint inhibitor.