METHODS OF DIAGNOSING AND TREATING ANXIETY DISORDER

CROSS-REFERENCE TO RELATED APPLICATIONS

[001] This application claims priority to the following four United States Provisional Patent Applications, each filed on September 8. 2015: 62/215,628; 62/215,633; 62/215,636; and 62/215,673, each of which is incorporated herein by reference in its entirety.

FIELD

[002] This application relates to the treatment of anxiety disorders with nonselective activators of metabotropic glutamate receptors (mGluRs) and of diagnosis and treatment of anxiety disorders in subjects having genetic alterations, such as copy number variations (CNVs), in one or more mGluR network genes.

BACKGROUND

[003] Anxiety is a group of disorders characterized by excessive, irrational fear and dread. Anxiety disorders include panic disorder, obsessive-compulsive disorder (OCD), post-traumatic stress disorder (PTSD), social anxiety disorder/social phobia, separation anxiety disorder, phobias, and generalized anxiety disorder.

[004] Anxiety disorders are often classified by having a duration of at least 6 months. The stress and fearfulness triggered by a stressful event may develop into an anxiety disorder over time if not treated.

[005] Anxiety disorders affect approximately 40 million Americans each year, which is equivalent to about 18% of the population (see National Institutes of Health

(2009): Anxiety Disorders, Publication No. 09 3879). In many patients, anxiety disorders occur along with other mental or physical illnesses or with alcohol or substance abuse. Anxiety disorders, such as panic disorder, can become disabling, with patients developing such intense fears of everyday situations that they become housebound.

[006] Anxiety disorders can also result in exaggerated worry and tension that interferes with sleep and concentration and that leads to physical symptoms such as headaches, nausea, difficulty swallowing, and lightheadedness. Anxiety disorders can also lead to difficulty in performing simple, everyday tasks and are often accompanied by substance abuse or depression.

[007] Presently, anxiety disorders may be diagnosed using a patient history, which may include a variety of rating scales (Ebell MH (2008) Am Fam Physician. 78(4):501-502). Standard scales may be used to evaluate the efficacy of treatment response and remission in pediatric anxiety, such as the Pediatric Anxiety Rating Scale (PARS), which is a validated clinician-rated measure of symptom severity and associated impairment that has been used for evaluation of therapies for generalized anxiety disorder, social phobia, and separation anxiety disorder (see Caporino NE (2013) J Am Acad Child Adolesc Psychiatry 52(1): 57–67). Rating scales that may be used in pediatric patients for associated or comorbid conditions include the Children's Depressive Rating Scale and Children's Yale-Brown Obsessive Compulsive Scale.

[008] People with anxiety disorders may be treated with medications and/or psychotherapy. However, medications to treat anxiety disorders, such as antidepressants, anti-anxiety medications, and beta-blockers, cannot cure the disorders, although they can be helpful in controlling some physical symptoms.

[009] Antidepressants have a long onset, so patients must be willing to continue medications until symptoms begin to improve.

[0010] Benzodiazepines are anti-anxiety medications that can work quickly, but often patients develop tolerance to these medications and need to escalate dosing to see an effect. Beta-blockers can provide some relief from physical symptoms of anxiety and may be helpful for patients who know that they are going to do an activity that generates anxiety, but they do not necessarily impact the underlying anxiety disorder. Because of the high prevalence of anxiety disorders and the limits of present pharmacotherapy, new treatment options are needed.

[0011] Precision or personalized medicine is a concept relating to prevention and treatment strategies that take individual variability into account. Recently, a precision-medicine-based clinical trial was completed reporting successful treatment of ADHD in subjects having at least one genetic alteration in a metabotropic glutamate receptor (mGluR) network gene. In that study, subjects having a genetic alteration in an mGluR network gene were successfully treated with fasoracetam (NFC-1), which has been shown in vitro to be a nonselective activator against all classes of mGluRs (See Hirouchi M, et al. (2000) European Journal of Pharmacology 387:9–17). We herein describe that patients with anxiety disorders, including those patients that are characterized by genetic alterations in mGluR network genes, may also benefit from treatment with nonselective mGluR activators such as NFC-1.

SUMMARY

[0012] The inventors have studied the genotypes of over 900 patients diagnosed with anxiety disorder and have found that these patients possess genetic alterations in one or more metabotropic glutamate receptor (mGluR) network genes at a significantly

higher frequency than patients diagnosed with phobia, obsessive compulsive disorder (OCD), or depression. The frequency of genetic alterations in mGluR network genes was also substantially higher in this anxiety population than in control populations that do not have other neuropsychological disorders.

[0013] Thus, provided herein are methods of treating anxiety disorder in a subject comprising administering an effective amount of a nonselective activator of metabotropic glutamate receptors (mGluRs) to a subject, thereby treating anxiety disorder. In some embodiments the subject has at least one genetic alteration in an mGluR network gene, such as a copy number variation (CNV).

[0013a] In one aspect of the disclosure, there is provided a use of fasoracetam in the preparation of a medicament for treating anxiety disorder in a subject determined to have at least one genetic alteration in a metabotropic glutamate receptor (mGluR) network gene, wherein an effective amount of fasoracetam is to be administered the subject, thereby treating anxiety disorder.

[0014] In some embodiments, a method of treating anxiety disorder in a subject is provided comprising administering an effective amount of a nonselective activator of metabotropic glutamate receptors (mGluRs) to a subject that has one symptom of anxiety and at least one genetic alteration in an mGluR network gene, thereby treating anxiety disorder. In another embodiment, a method of treating anxiety disorder in a subject is provided comprising administering an effective amount of a nonselective activator of metabotropic glutamate receptors (mGluRs) to a subject that has one symptom of anxiety, thereby treating anxiety disorder. The symptom may be any symptom known to those of skill in the art, including the symptoms provided in the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5 2013), including, but not limited to, fear and anxiety.

[0015] Also provided herein are methods of treating anxiety disorder comprising administering an effective amount of a nonselective activator of metabotropic glutamate receptors (mGluRs) to a subject that has at least one genetic alteration in an mGluR network gene, such as a CNV, thereby treating anxiety disorder. In some embodiments,

where the subject has a CNV in an mGluR network gene, the CNV is a duplication or deletion.

[0016] Also provided are methods of treating anxiety disorder in a subject comprising obtaining results from a genetic screen that determines whether a subject has a genetic alteration in an mGluR network gene, and, if the results show that the subject has at least one genetic alteration in an mGluR network gene, treating the subject by administering an effective amount of a nonselective activator of mGluRs.

[0017] In some embodiments of the above methods, the nonselective activator of mGluRs is fasoracetam, such as fasoracetam monohydrate (NS-105 or NFC-1). In some embodiments the fasoracetam is administered at a dose of 50 mg, 100mg, 150 mg, 200 mg, 250 mg, 300 mg, 350 mg, or 400 mg, wherein the dose is administered once, twice, or three times daily. In some embodiments, fasoracetam is administered at a dose of 50-400 mg, 100-400 mg, or 200-400 mg, and administered once, twice, or three times daily. In some embodiments, the fasoracetam is administered at a dose of 200-400 mg, such as 200 mg, 300 mg, or 400 mg, and administered twice daily.

[0018] In some embodiments the method comprises considering results of a screen to determine whether the subject has a genetic alteration such as a CNV in an mGluR network gene. In some embodiments of the above methods, the subject has a CNV in at least 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 mGluR network genes. In some embodiments a CNV in an mGluR network gene is determined by obtaining a nucleic acid-comprising sample from the subject and subjecting the sample to a screen that assesses CNVs in at least 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50, 60, 70, or all of Tier 1 mGluR network genes. In some embodiments a CNV in an mGluR network gene is determined by obtaining a nucleic acid-comprising sample from the subject and subjecting the sample

to a screen that assesses CNVs in at least 50, at least 100, at least 150, at least 175, or all of Tier 2 mGluR network genes. In some embodiments a CNV in an mGluR network gene is determined by obtaining a nucleic acid sample from the subject and subjecting the sample to a screen that assesses CNVs in at least 50, at least 100, at least 200, at least 300, at least 400, at least 500, or all of Tier 3 mGluR network genes. In some embodiments the screen does not assess CNVs in one or more of GRM1, GRM2, GRM3, GRM4, GRM5, GRM6, GRM7, or GRM8. In certain embodiments the subject does not have a CNV in one or more of GRM1, GRM2, GRM3, GRM4, GRM5, GRM6, GRM7, or GRM8.

[0019] In some embodiments of the above methods, the anxiety disorder is one or more of generalized anxiety disorder, phobia, social anxiety disorder, social phobia, panic disorder, panic attack, post-traumatic stress disorders, separation anxiety disorder, selective mutism, agoraphobia, or an anxiety disorder induced by a substance/medication or due to another medical condition. In some embodiments, the methods reduce at least one symptom of anxiety disorder in the subject, such as fear, anxiety, separation anxiety, and/or panic attacks (e.g. frequency and severity of attacks). In some embodiments, the methods reduce other behavioral symptoms such as inattentiveness, hyperactivity, and/or impulsiveness. In some embodiments, the methods also comprise assessing symptoms such as fear, anxiety, separation anxiety, panic attacks and their frequency or severity, as well as inattentiveness, hyperactivity, and/or impulsiveness during or after administration, for example, to determine if one or more of those symptoms have been reduced in the subject. In some methods, such assessment may be performed based on the Pediatric Anxiety Rating Scale (PARS). In some embodiments, the methods further comprise obtaining a clinical global impression of severity or improvement for the subject during

or after administration. In some embodiments, the methods may improve clinical global improvement scores in the subject.

[0020] In some embodiments the subject is a pediatric or adolescent subject, such as between the ages of 5 and 17, 5 and 8, 8 and 17, 8 and 12, 12 and 18, 13 and 18, or 12 and 17. In other embodiments the subject is an adult. In some embodiments, the subject has experienced symptoms of anxiety for at least six months, while in other embodiments, anxiety symptoms have endured for less than six months yet anxiety disorder has been diagnosed in the subject.

[0021] In some embodiments of the above methods, the nonselective activator of mGluRs is administered in combination with another pharmaceutical or non-pharmaceutical therapy. In some embodiments, the non-pharmaceutical therapy comprises brain stimulation, such as vagus nerve stimulation, repetitive transcranial magnetic stimulation, magnetic seizure therapy, or deep brain stimulation. In some embodiments, the activator is administered in combination with an anxiolytic agent such as benzodiazepine, an antidepressant, a pregabalin, or a beta-blocker.

[0022] Also provided herein are methods for diagnosing anxiety disorder in a subject comprising isolating a nucleic-acid comprising sample from a subject, analyzing the sample for the presence or absence of a genetic alteration in at least one mGluR network genes, and diagnosing anxiety disorder if the subject has at least one genetic alteration in a mGluR network gene. Also provided are methods for diagnosing anxiety disorder in a subject comprising isolating a nucleic-acid comprising sample from a subject, isolating nucleic acid from the sample, analyzing the nucleic acid for the presence or absence of a genetic alteration in at least one mGluR network genes, and diagnosing anxiety disorder if the subject has at least one genetic alteration in a mGluR network

gene. Provided as well are methods for identifying a subject as having anxiety disorder comprising obtaining a sample from a patient, optionally isolating nucleic acid from the sample, optionally amplifying the nucleic acid, and analyzing the nucleic acid in the sample for the presence or absence of a genetic alteration, such as a CNV, in at least one mGluR network gene, wherein the subject is identified as having anxiety disorder if at least one genetic alteration, such as a CNV, in an mGluR network gene is detected. The invention also provides methods for diagnosing anxiety disorder in a subject comprising analyzing genetic information about one or more mGluR network genes, comparing the subject's information to a control subject that does not have anxiety disorder, and diagnosing anxiety disorder if the genetic information suggests that the subject has at least one genetic alteration in a mGluR network gene.

[0023] Provided herein also are methods of confirming a diagnosis of anxiety disorder in a subject comprising: obtaining a nucleic acid-comprising sample from a subject diagnosed with anxiety disorder by a method that does not comprise detecting or analyzing genetic alterations in mGluR network genes; optionally amplifying the nucleic acid in the sample; and determining whether the subject has at least one genetic alteration, such as a CNV, in an mGluR network gene, and confirming a diagnosis of anxiety disorder if the subject has at least one genetic alteration in a mGluR network gene.

[0024] In any of the above methods, the analysis for the presence or absence of at least one genetic alteration in a mGluR network gene may comprise microarrays, whole genome sequencing, exome sequencing, targeted sequencing, FISH, comparative genomic hybridization, genome mapping, or other methods using next-generation sequencing, Sanger sequencing, PCR, or TaqMan technologies

[0025] In some embodiments, the subject has CNVs in one, two, or more mGluR network genes. In some embodiments, the methods comprise detecting CNVs in mGluR network genes by subjecting the sample to a screen that assesses CNVs in at least 2, 3, 4, 5, 6, 7, 8, 9, or 10 mGluR network genes. In some embodiments, CNVs in mGluR network genes are determined by subjecting the sample to a screen that assesses CNVs in at least 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50, 60, 70, or all of Tier 1 mGluR network genes. In some embodiments, CNVs in mGluR network genes are determined by subjecting the sample to a screen that assesses CNVs in at least 50, at least 100, at least 150, at least 175, or all of Tier 2 mGluR network genes. In some embodiments, CNVs in mGluR network genes are determined by subjecting the sample to a screen that assesses CNVs in at least 50, at least 100, at least 200, at least 300, at least 400, at least 500, or all of Tier 3 mGluR network genes.

[0026] In some embodiments of the above methods, the anxiety disorder is one or more of generalized anxiety disorder, phobia, social anxiety disorder, social phobia, panic disorder, panic attack, post-traumatic stress disorders, separation anxiety disorder, selective mutism, agoraphobia, or an anxiety disorder induced by a substance/medication or due to another medical condition. In some embodiments, the subject is a pediatric or adolescent subject, such as a subject between the ages of 5 and 17, 5 and 8, 8 and 17, 8 and 12, 12 and 18, 13 and 18, or 12 and 17. In other embodiments, the subject is an adult subject. In some embodiments, the subject has experienced symptoms of anxiety for at least six months.

[0027] In some embodiments, the screening method for determining the presence or absence of at least one mGluR network gene genetic alteration comprises microarrays, whole genome sequencing, exome sequencing, targeted sequencing, FISH, comparative

genomic hybridization, genome mapping, or other methods using next-generation sequencing, Sanger sequencing, PCR, or TaqMan technologies.

[0028] In some embodiments, the subject is not assessed for genetic alterations or CNVs in one or more of GRM1, GRM2, GRM3, GRM4, GRM5, GRM6, GRM7, and GRM8. In some embodiments, the subject does not have CNVs in one or more of GRM1, GRM2, GRM3, GRM4, GRM5, GRM6, GRM7, and GRM8. In some embodiments, the subject does not have CNVs in any of GRM1, GRM2, GRM3, GRM4, GRM5, GRM6, GRM7, and GRM8.

[0029] In any of the methods and embodiments described in the preceding paragraphs of this Summary, in the claims, or in the Detailed Description, the subject may have anxiety disorder as well as one or more comorbid conditions such as attention-deficit hyperactivity disorder (ADHD), oppositional defiant disorder (ODD), conduct disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a movement disorder, a mood disorder, or depression. In other cases, the subject does not have one or more of ADHD, ODD, conduct disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a movement disorder, a mood disorder, or depression. In yet other cases, the subject does not have any of ADHD, ODD, conduct disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficult controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression. In some embodiments, the anxiety subject does not have OCD, phobia, or depression.

[0030] In any of the methods and embodiments described herein, symptoms of inattentiveness, hyperactivity, and/or impulsiveness may be reduced in the subject. For example, these symptoms may be lessened after 1 week of treatment with the activator, such as after 2 weeks, after 3 weeks, or after 4 weeks of treatment.

[0031] In some embodiments, the subject has co-morbid symptoms of ADHD and in some cases, the method reduces ADHD symptoms. In some embodiments, the subject has OCD and in some cases, the method reduces OCD symptoms. In some cases, the subject has co-morbid symptoms of dermatillomania, such as excessive skin picking, and the method reduces those symptoms. In some embodiments, the subject has one or more co-morbid developmental disorders, and in some cases, the method reduces the severity of symptoms related to the developmental disorders. For example, these symptoms may be lessened after 1 week of treatment with the activator, such as after 2 weeks, after 3 weeks, or after 4 weeks of treatment.

[0032] In some embodiments, the subject may have one or more of the following changes in symptoms after at least one, two, three, or four weeks of treatment with the activator: (a) the subject has symptoms of anger control and the anger control symptoms are reduced; (b) the subject has symptoms of disruptive behavior and the disruptive behavior symptoms are reduced; (c) the subject's CGI-I is reduced by at least 1 or by at least 2; (d) the subject's CGI-I score after one, two, three, or four weeks of treatment is 1 or 2; (e) the subject's CGI-S score after one, two, three, or four weeks of treatment is 1; (f) the subject has ADHD and the subject's ADHD Rating Scale score is reduced by at least 25%, such as at least 30%, at least 35%, or at least 40%; (g) the subject has symptoms of inattentiveness and the inattentiveness symptoms are reduced; (h) the subject has symptoms of hyperactivity and the hyperactivity symptoms are reduced; (i)

the subject has symptoms of impulsiveness and the impulsiveness symptoms are reduced; (j) the subject has symptoms of ODD such as anger and irritability, argumentation and defiance, and/or vindictiveness and the ODD symptoms are reduced; (k) the subject has symptoms of conduct disorder and the conduct disorder symptoms are reduced; (l) the subject has a movement disorder and the associated symptoms are reduced; (m) the subject has symptoms of OCD, and the OCD symptoms are reduced; (n) the subject has symptoms of autism, and the autism symptoms are reduced; and (o) the subject has symptoms of Tourette's syndrome and the Tourette's syndrome symptoms are reduced. In any of the methods and embodiments described herein, a subject may be treated when a clinician notes that the subject is more interested in doing things and/or becomes socially proactive.

[0033] In one embodiment, a method for diagnosing an mGluR-associated disorder is provided, wherein a subject is diagnosed with an mGluR-associated disorder if at least one genetic alteration in an mGluR network gene is detected.

BRIEF DESCRIPTION OF THE DRAWINGS

[0034] **Figure 1** shows the number of samples from patients with anxiety, depression, obsessive-compulsive disorder (OCD), and phobias included in a genotyping study designed to assess genetic alterations in mGluR network genes. Only those patient samples that were fully genotyped are included in the data analysis.

[0035] **Figure 2** shows the mGluR network genes included in the Tier 1 gene set. These genes have 2 degrees of protein-protein interaction with mGluR genes (GRM1-8) based on the Cytoscape Human Interactome, which is software for integrating biomolecular interaction networks with high-throughput data (as described in Shannon P (2003) Genome Research 13:2498-2504). The Tier 1 gene set includes 76 genes. The

exact location for each gene in Tier 1 is listed in both the Human Genome version 18 (hg18) and Human Genome version 19 (hg19). In addition, the exact gene location plus 500 kilobase (i.e., the range from 500 kilobase before and 500 kilobase after the gene of interest) is listed for hg19. The start single nucleotide polymorphism (StartSNP) (i.e., the SNP located 500 kilobases before the gene of interest) and the EndSNP (i.e., the SNP located 500 kilobases after the gene of interest) are also listed. Genes of the mGluRs themselves are noted as "GRM." The expanded regions (i.e., 500 kg up and down stream) frequently harbor regulatory elements and if impacted by a CNV, can have the same impact on the gene expression and function as a CNV residing in the gene sequence itself.

[0036] **Figure 3** shows the mGluR network genes included in the Tier 2 gene set. These genes have 2 degrees of protein-protein interaction with mGluR genes (GRM1-8) based on the Cytoscape Human Interactome but exclude genes from Tier 1. The Tier 2 gene set includes 197 genes. The exact location for each gene in Tier 2 is listed in both the Human Genome version 18 (hg18) and Human Genome version 19 (hg19). In addition, the exact gene location plus 500 kilobase (i.e., the range from 500 kilobase before and 500 kilobase after the gene of interest) is listed for hg19. The start single nucleotide polymorphism (StartSNP) (i.e., the SNP located 500 kilobases before the gene of interest) and the EndSNP (i.e., the SNP located 500 kilobases after the gene of interest) in hg19 are also listed.

[0037] **Figure 4** shows genes within the Tier 3 gene set. Genes with reciprocal gene querying with 2 degrees of protein-protein interaction with mGluR genes based on Cytoscape Human Interactome are included. Genes contained within Tiers 1 and 2 are excluded from Tier 3. The Tier 3 gene set includes 599 genes. The exact location for each

gene in Tier 3 is listed in both the Human Genome version 18 (hg18) and Human Genome version 19 (hg19). In addition, the exact gene location plus 500 kilobase (i.e., the range from 500 kilobase before and 500 kilobase after the gene of interest) is listed for hg19. The StartSNP (i.e., the SNP located 500 kilobases before the gene of interest) and the EndSNP (i.e., the SNP located 500 kilobases after the gene of interest) in hg19 are also listed.

[0038] **Figure 5** shows the number of copy number variation (CNV) calls containing Tier gene (mGluR network gene) within the samples from the 925 anxiety patients who were fully genotyped; the 95 depression patients who were fully genotyped; the 150 OCD patients that were fully genotyped; and the 55 phobia patients that were fully genotyped. Note that some patients had more than one CNV call that contained a mGluR network genes in a Tier gene.

[0039] **Figure 6** shows the percentage of fully-genotyped patients with anxiety, depression, OCD, or phobia who had a CNV within Tier 1, Tiers 1 + 2, or Tiers 1 + 2 + 3 mGluR network gene sets.

DESCRIPTION OF THE EMBODIMENTS

I. Definitions

[0040] A "mGluR" or metabotropic glutamate receptor refers to one of eight glutamate receptors expressed in neural tissue named mGluR1, mGluR2, mGluR3, mGluR4, mGluR5, mGluR6, mGluR7, and mGluR8. Their genes are abbreviated GRM1 to GRM8. The mGluR proteins are G-protein-coupled receptors. They are typically placed into three sub-groups, Group I receptors including mGluR1 and mGluR5 are classed as slow excitatory receptors. Group II includes mGluR2 and mGluR3. Group III includes mGluR4, mGluR6, mGluR7, and mGluR8. Groups II and III are classed as slow

inhibitory receptors. The mGluRs are distinguished from the ionotropic GluRs or iGluRs, which are ion channel-associated glutamate receptors and are classed as fast excitatory receptors.

[0041] A "mGluR network gene," for purposes of this invention, comprises not only the mGluR genes GRM1, GRM2, GRM3, GRM4, GRM5, GRM6, GRM7, and GRM8, but also each of the other genes listed herein in Figs. 2-4 as well as the regions of DNA that regulate the genes listed in Figs 2-4. In addition, "mGluR network proteins" are the proteins encoded by the mGluR network genes.

[0042] The mGluR network genes are grouped into three subsets: Tier 1, Tier2, and Tier 3. (See Figs. 2-4.) Tier 1 mGluR network genes, shown in Fig. 2, comprise 76 genes, including some GRM genes themselves as well as a number of other genes. The Tier 2 mGluR network genes, shown in Fig. 3, comprise 197 genes, and exclude the Tier 1 genes.

[0043] Tiers 1 and 2 together are included in the "primary mGluR network." The "primary network" of mGluR genes also includes the genes 4-Sep, LOC642393, and LOC653098, for a total of 276 genes. There are presently technical difficulties in assessing the 4-Sep, LOC642393, and LOC653098 genes. Thus, they are not included in the genes of Tiers 1 and 2, although they are included in the primary network of genes of the present invention. The genes of Tier 1 and Tier 2 differ in that alterations in Tier 1 genes had been documented in previous genotyping studies of subjects suffering from mental disorders.

[0044] Tier 3 mGluR network genes, shown in Fig. 4, comprise 599 genes that are in the distal part of the mGluR network based on the merged human interactome provided by the Cytoscape Software (Shannon P et al. (2003) Genome Research 13:2498-

2504), and exclude the Tier 1 and Tier 2 genes. The Tier 3 genes are thus part of the "distal mGluR network." In addition to the Tier 3 genes, the genes LOC285147, LOC147004, and LOC93444 are included in the "distal mGluR network," although they were not assessed in the present study and are not included in Tier 3 due to technical difficulties in assessing genetic alterations in these genes.

[0045] A "genetic alteration" as used herein means any alteration in the DNA of a gene, or in the DNA regulating a gene, that, for example, may result in a gene product that is functionally changed as compared to a gene product produced from a non-altered DNA. A functional change may be differing expression levels (up-regulation or down-regulation) or loss or change in one or more biological activities, for example. A genetic alteration includes without limitation, copy number variations (CNVs), single nucleotide variants (SNVs), also called single nucleotide polymorphisms (SNPs) herein, frame shift mutations, or any other base pair substitutions, insertions, and deletions or duplications.

[0046] A "copy number variation" or "CNV" is a duplication or deletion of a DNA segment encompassing a gene, genes, segment of a gene, or DNA region regulating a gene, as compared to a reference genome. In some embodiments, a CNV is determined based on variation from a normal diploid state. In some embodiments, a CNV represents a copy number change involving a DNA fragment that is 1 kilobase (kb) or larger. CNVs described herein do not include those variants that arise from the insertion/deletion of transposable elements (e.g., 6-kb KpnI repeats). The term CNV therefore encompasses terms such as large-scale copy number variants (LCVs; Iafrate et al. 2004), copy number polymorphisms (CNPs; Sebat et al. 2004), and intermediate-sized variants (ISVs; Tuzun et al. 2005), but not retrotransposon insertions.

[0047] A "CNV deletion" or "deletion CNV" or similar terms refer to a CNV in which a gene, DNA segment regulating a gene, or gene segment is deleted. A "CNV duplication" or "duplication CNV" or similar terms refer to a CNV in which a gene, DNA segment regulating a gene, or gene segment is present in at least two, and possibly more than two, copies in comparison with the single copy found in a normal reference genome.

[0048] A "sample" refers to a sample from a subject that may be tested, for example, for presence of a CNV in one or more mGluR network proteins, as described herein. The sample may comprise cells, and it may comprise body fluids, such as blood, serum, plasma, cerebral spinal fluid, urine, saliva, tears, pleural fluid, and the like.

[0049] "Anxiety disorders" are defined in the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5 2013) as a group of disorders that share features of persistent, excessive fear and anxiety. Anxiety disorders typically have a duration of at least 6 months, although, in some embodiments herein the anxiety disorder is diagnosed after less than 6 months of duration. In children, anxiety disorders are typically diagnosed using one or more rating scales, such as, the Pediatric Anxiety Rating Scale (PARS), the Children's Depressive Rating Scale, and the Children's Yale- Brown Obsessive Compulsive Scale. We herein describe new methods for diagnosing and treating anxiety disorders.

[0050] Anxiety disorders include, but are not limited to, "generalized anxiety disorder," "social anxiety disorder," "social phobia," "panic attack," "panic disorder," "post-traumatic stress disorder," "agoraphobia," "separation anxiety disorder," "separation anxiety disorder," "anxiety disorder induced by a substance/medication or due to another medical condition," and "selective mutism," among others.

[0051] "Generalized anxiety disorder" is excessive worry about a variety of everyday problems occurring more days than not for at least 6 months. "Social anxiety disorder" is a marked fear or anxiety about one or more social situations and is interchangeable with "social phobia". "Panic attacks" are the abrupt onset of intense fear or discomfort associated with symptoms such as heart palpitations, sweating, dizziness, or nausea. "Panic disorder" is diagnosed in patients with recurrent unexpected panic attacks. "Post-traumatic stress disorder" (or "PTSD") is a condition that can occur in people who have been exposed to an actual or threatened death, serious injury, or sexual violence, wherein the individual experiences recurrent distressing memories, flashbacks, psychological distress, and/or physiological reactions to cues following the event. "Agoraphobia" is a condition wherein an individual has marked fear about situations such as being in public spaces, standing in crowds, or being outside of their home alone. "Separation anxiety disorder" is developmentally inappropriate and excessive fear or anxiety concerning separation from those to whom the individual is attached. "Selective mutism" is a condition characterized by consistent failure to speak in specific social situations in which there is an expectation to speak (e.g., in school), despite having the ability to speak in other situations.

[0052] Patients with an anxiety disorder may also have inattention, hyperactivity, anxiety, mood, and sleep disturbances.

[0053] The terms "subject" and "patient" are used interchangeably to refer to a human. The terms "pediatric subject" or "pediatric patient" are used interchangeably to refer to a human less than 18 years of age. An "adult patient" refers to a human 18 years of age or older. An "adolescent patient" or "adolescent subject" is a subject typically about 12 to 18, such as 12 to 17 or 13 to 18, years old.

[0054] In addition to definitions included in this sub-section, further definitions of terms are interspersed throughout the text.

II. Methods of Diagnosing Anxiety Disorders

[0055] In some embodiments, the invention comprises methods of diagnosing anxiety disorder in a subject comprising analyzing the genetic information of the subject to determine whether the subject has a genetic variation in at least one mGluR network gene, and diagnosing the subject as having anxiety disorder if a genetic variation is found. In some embodiments, a screen for the presence of mGluR network gene variations is one of two or more tests or evaluations that are performed to diagnose a subject. In some embodiments, the subject has anxiety disorder but does not have ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behaviors, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression. In some embodiments, the subject has anxiety disorder and also one or more of ADHD, oppositional-defiant disorder (ODD), conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, and depression. In some embodiments, the subject does not have any of ADHD, oppositional-defiant disorder (ODD), conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression. In some embodiments, the subject does not have any of OCD, phobia, or depression. A subject has anxiety

rather than anxiety disorder if the symptoms of the disorder have been present for less than six months.

[0056] In other embodiments, the invention encompasses confirming a diagnosis of anxiety disorder in a subject. As used herein, "confirming a diagnosis of anxiety disorder" means re-diagnosing a subject who has already been diagnosed with anxiety disorder. In this one embodiment, the method of confirming a diagnosis of anxiety disorder comprises analyzing the genetic information of a subject that has been diagnosed as having anxiety disorder by a method that does not comprise analyzing mGluR network genes, to determine whether the subject has a genetic variation in at least one mGluR network gene, and confirming the diagnosis of anxiety disorder if a genetic variation in at least one mGluR network gene is found. In some embodiments, a screen for the presence of mGluR network gene variations is one of two or more tests or evaluations that are performed to confirm a diagnosis in a subject. In some embodiments, the subject has anxiety disorder but does not have any of ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression. In some embodiments, the subject has anxiety disorder and also one or more of ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, and depression. A subject has anxiety rather than anxiety disorder if the symptoms of the disorder have been present for less than six months.

[0057] In another embodiment, the invention comprises confirming a diagnosis of anxiety disorder in a subject who does not have ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression, comprising analyzing the genetic information of a subject that has been diagnosed as having anxiety disorder by a method that does not comprise analyzing mGluR network genes, to determine whether the subject has a genetic variation in at least one mGluR network gene, and confirming the diagnosis of anxiety disorder if a genetic variation in at least one mGluR network gene is found.

[0058] In one embodiment, anxiety disorder is diagnosed and/or confirmed if at least one CNV, SNV, frameshift mutation, or any other base pair substitution, insertion, deletion or duplication in an mGluR network gene is detected. In other embodiments, anxiety disorder is diagnosed and/or confirmed if at least one CNV, SNV, frameshift mutation, or any other base pair substitution, insertion, deletion, or duplication in a Tier 1 mGluR network gene is detected. In another embodiment, anxiety disorder is diagnosed and/or confirmed if at least one CNV, SNV, frameshift mutation, or any other base pair substitution, insertion, deletion, or duplication in a Tier 2 mGluR network gene is detected. In still other embodiments, anxiety disorder is diagnosed and/or confirmed if at least one CNV, SNV, frameshift mutation, or any other base pair substitution, insertion, deletion, or duplication in a Tier 3 mGluR network gene is detected.

[0059] A diagnosis or confirmation of diagnosis of anxiety disorder may be based or confirmed on finding a genetic alteration in a Tier 1, Tier 2, and/or Tier 3 mGluR network gene. The genetic alteration may be a CNV. The CNV may be a duplication or

deletion of a region of DNA that contains some or all of the DNA encoding and controlling/regulating an mGluR network gene. In some embodiments, the diagnosis or confirmation of diagnosis of anxiety disorder is made in a patient who does not have any of ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression. In some embodiments, the diagnosis or confirmation of diagnosis of anxiety disorder is made in a patient who has anxiety disorder and also one or more of ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, and depression.

[0060] In some embodiments, the diagnosis or confirmation of diagnosis of anxiety disorder is based on a finding that the copy number of an mGluR network gene deviates from the normal diploid state. In some embodiments, the diagnosis or confirmation of diagnosis of anxiety disorder is based on a copy number of zero or one, which indicates a CNV deletion. In some embodiments, the diagnosis or confirmation of diagnosis of anxiety disorder is based on a copy number of three or greater, which indicates a CNV duplication. In some embodiments, the diagnosis or confirmation of diagnosis of an anxiety disorder is made in a patient who does not have ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression by the

presence of a copy number of zero or one, or by a copy number of three or greater, or by any deviation from the diploid state.

[0061] In some embodiments, a more severe form of anxiety disorder is diagnosed or confirmed if at least two CNVs in mGluR network genes are detected. In one embodiment, a more severe form of anxiety disorder in a patient who does not have ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression is diagnosed or confirmed if at least two CNVs in mGluR network genes are detected. In one embodiment, a more severe form of anxiety disorder in a patient who also has at least one of ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression is diagnosed or confirmed if at least two CNVs in mGluR network genes are detected.

[0062] In one embodiment, a method of diagnosing and/or confirming anxiety disorder comprises obtaining a nucleic acid-containing sample from a subject; optionally amplifying the nucleic acid; optionally labeling the nucleic acid sample; applying the nucleic acid to a solid support that comprises one or more nucleic acids of mGluR network genes, wherein the nucleic acids optionally comprise SNVs of mGluR network genes; removing any unbound nucleic acid sample; and detecting any nucleic acid that has bound to the nucleic acid on the solid support, wherein the subject is diagnosed or confirmed as having anxiety disorder if bound nucleic acids are detected. In one embodiment the method further comprises comparing any bound nucleic acids to a

standard or control and diagnosing or confirming anxiety disorder if the analysis finds that the test sample is different from the control or standard. In another embodiment of this method, the patient with anxiety disorder does not have ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression. In another embodiment, the patient with anxiety disorder also has at least one of ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression.

[0063] In each diagnostic, confirming, and treatment method of the invention, the anxiety disorder may be generalized anxiety disorder, phobia, social anxiety disorder, social phobia, panic disorder, panic attack, post-traumatic stress disorders, separation anxiety disorder, selective mutism, agoraphobia, or an anxiety disorder induced by a substance/medication or due to another medical condition. In each diagnostic, confirming, and treatment method of the invention, the subject may have an anxiety disorder but not have ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression. In other diagnostic, confirming, and treatment methods of the invention, the subject has anxiety disorder and one or more additional disorders such as ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior

symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression.

III. Methods and Uses for Treating Anxiety Disorder

[0064] Encompassed herein are methods of treating anxiety disorder in a subject comprising administering an effective amount of a nonselective mGluR activator. The term "treatment," as used herein, includes any administration or application of a therapeutic for a disease or disorder in a subject, and includes inhibiting the disease, arresting its development, relieving the symptoms of the disease, or preventing occurrence or reoccurrence of the disease or symptoms of the disease.

[0065] The mGluR proteins are typically placed into three sub-groups, group I receptors including mGluR1 and mGluR5 are classed as slow excitatory receptors.

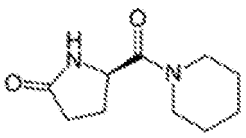
[0066] Group II includes mGluR2 and mGluR3. Group III includes mGluR4, mGluR6, mGluR7, and mGluR8. Groups II and III are classed as slow inhibitory receptors. The mGluRs are distinguished from the ionotropic GluRs or iGluRs, which are ion channel-associated glutamate receptors and are classed as fast excitatory receptors.

[0067] A "nonselective activator of mGluRs" refers to a molecule that activates mGluRs from more than one of the group I, II, and III categories. Thus, a nonselective activator of mGluRs may provide for a general stimulation of the mGluR networks. This is in contrast to specific mGluR activators that may only significantly activate a single mGluR, such as mGluR5, for example. Nonselective mGluR activators also include nonselective mGluR agonists.

[0068] In some embodiments, the nonselective mGluR activator is fasoracetam. Fasoracetam is a nootropic (i.e., cognitive-enhancing) drug that can stimulate both group

I and group II/III mGluRs in in vitro studies. (See Hirouchi M, et al. (2000) European Journal of Pharmacology 387:9–17.) Fasoracetam may stimulate adenylate cyclase activity through activation of group I mGluRs, while it may also inhibit adenylate cyclase activity by stimulating group II and III mGluRs. (Oka M, et al (1997) Brain Research 754:121–130.) Fasoracetam has been observed to be highly bioavailable (79%-97%) with a half-life of 5-6.5 hours in prior human studies (see Malykh AG, et al. (2010) Drugs 70(3):287-312). Fasoracetam is a member of the racetam family of chemicals that share a five-carbon oxopyrrolidone ring.

[0069] The structure of fasoracetam is:



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[0070] The term "fasoracetam" as used herein encompasses pharmaceutically acceptable hydrates and any solid state, amorphous, or crystalline forms of the fasoracetam molecule. For example, the term fasoracetam herein includes forms such as NFC-1: fasoracetam monohydrate. In addition to NFC-1, fasoracetam is also known as C-NS-105, NS105, and LAM-105.

[0071] NFC-1 has been previously studied in Phase I-III clinical trials in dementia-related cognitive impairment but did not show sufficient efficacy in dementia in Phase III trials. These trials demonstrated that NFC-1 was generally safe and well tolerated for those indications. Phase III data indicated that NFC-1 showed beneficial effects on psychiatric symptoms in cerebral infarct patients and adult dementia patients with cerebrovascular diseases.

[0072] In each of the method of treatment embodiments, a metabotropic glutamate receptor positive allosteric modulator, a metabotropic glutamate receptor negative allosteric modulator, or a tachykinin-3/neurokinin-3 receptor (TACR- 3/NK3R) antagonist may be administered alone or in combination with a nonselective activator of mGluRs, for example, to subjects having an alteration in a mGluR network gene. In some embodiments, the treatment agent comprises ADX63365, ADX50938, ADX71149, AMN082, a 1-(hetero)aryl-3-amino-pyrrolidine derivative, LY341495, ADX48621, GSK1144814, or SB223412.

[0073] Also encompassed herein are methods of treating anxiety disorder comprising administering fasoracetam to a subject that has a genetic alteration in at least one mGluR network gene. In some embodiments, this subject has anxiety disorder but does not have ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression, while in other embodiments, the subject has anxiety disorder as well as at least one of ADHD, ODD, autism, conduct disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression.

[0074] In some embodiments, the treatment methods comprise identifying or diagnosing a subject as having a genetic alteration in at least one mGluR network gene, and administering a nonselective mGluR activator such as fasoracetam to the identified or diagnosed subject. In some of the embodiments, the subject has anxiety disorder, but does not have ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia,

obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression. In other embodiments, the subject has anxiety disorder, as well as one or more neuropsychological disorders such as ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, and depression.

[0075] In each method of treating embodiment of the invention, the anxiety disorder may be generalized anxiety disorder, phobia, social anxiety disorder, social phobia, panic disorder, panic attack, post-traumatic stress disorders, separation anxiety disorder, selective mutism, agoraphobia, or an anxiety disorder induced by a substance/medication or due to another medical condition. In each method of treating embodiment of the invention, the subject may have an anxiety disorder, but not one or more neuropsychological disorders such as ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, and depression.

[0076] In each method of treating embodiment of the invention, the nonselective mGluR activator may improve symptoms of inattention, hyperactivity, anxiety, mood, and sleep disturbances that may be seen in patients with an anxiety disorder.

[0077] In one embodiment, the nonselective mGluR activator is administered to a subject that has anxiety disorder and has been confirmed as having at least one genetic alteration in an mGluR network gene. The genetic alteration may be in a Tier 1 mGluR network gene. The genetic alteration may be in a Tier 2 mGluR network gene. The

genetic alteration may be in a Tier 3 mGluR network gene. The genetic alteration may be more than one genetic alteration, and the more than one alteration may be in one of Tiers 1, 2, or 3, or in any combination of Tiers.

[0078] Some embodiments include a method of treating anxiety disorder comprising obtaining genetic information about a subject's mGluR network genes, and administering a nonselective mGluR activator if the subject has at least one genetic alteration, such as a CNV, in an mGluR network gene. Other embodiments encompass a method of treating anxiety disorder comprising obtaining genetic information about a subject's mGluR network genes, and administering a nonselective mGluR activator if the subject has least one genetic alteration, such as a CNV, in a Tier 1 mGluR network gene.

[0079] Other embodiments include a method of treating anxiety disorder comprising obtaining genetic information about a subject's mGluR network genes, and administering a nonselective mGluR activator if the subject has at least one genetic alteration, such as a CNV, in a Tier 2 mGluR network gene. Still other embodiments encompass a method of treating anxiety disorder comprising obtaining genetic information about a subject's mGluR network genes, and administering a nonselective mGluR activator if the subject has at least one genetic alteration, such as a CNV, in a Tier 3 mGluR network gene. Subjects having more than one CNV in any one Tier, or in a combination of any of the three Tiers, may be treated by administering a nonselective mGluR activator. In some embodiments, subjects having anxiety disorder, but not having ADHD, ODD, conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression, may be treated. In other method of treatment embodiments of the invention,

the subject has one or more neuropsychological disorders such as ADHD, ODD conduct disorder, autism, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, and depression in addition to anxiety disorder.

IV. Methods for Determining the Presence or Absence of Genetic Alterations

[0080] Any biological sample may be used to determine the presence or absence of mGluR network gene alterations, including, but not limited to, blood, urine, serum, gastric lavage, CNS fluid, any type of cell (such as brain cells, white blood cells, mononuclear cells) or body tissue. Any biological sample whereby DNA can be extracted may be used to determine the presence or absence of mGluR network gene alterations. Samples may be freshly collected, or samples may have been previously collected for any use/purpose and stored until the time of testing for genetic alterations. DNA that was previously purified for a different purpose may also be used.

[0081] Various methods for determining genetic alterations are known, including the following:

A. Single Nucleotide Variant (SNV) / Single Nucleotide Polymorphism (SNP) Genotyping

[0082] Determining whether a patient has a genetic alteration, such as a CNV, in an mGluR network gene may be done by SNP/SNV Genotyping. A "single nucleotide variant (SNV)," also called a "single nucleotide polymorphism (SNP)" herein, refers to a change in which a single base in the DNA differs from the usual base at that position. Millions of SNVs have been cataloged in the human genome. Some SNVs are normal variations in the genome, while others are associated with disease. While specific SNVs

may be associated with disease states or susceptibility, high-density SNV genotyping can also be undertaken, whereby sequencing information on SNVs is used to determine the unique genetic makeup of an individual.

[0083] In SNV genotyping, SNVs can be determined by hybridizing complementary DNA probes to the SNV site. A wide range of platforms can be used with SNV genotyping tools to accommodate varying sample throughputs, multiplexing capabilities, and chemistries. In high-density SNV arrays, hundreds of thousands of probes are arrayed on a small chip, such that many SNVs can be interrogated simultaneously when target DNA is processed on the chip. By determining the amount of hybridization of target DNA in a sample to a probe (or redundant probes) on the array, specific SNV alleles can be determined. Use of arrays for SNV genotyping allows the large-scale interrogation of SNVs.

[0084] When analyzing CNVs, after SNVs have been analyzed, a computer program can be used to manipulate the SNV data to arrive at CNV data. PennCNV or a similar program, can then be used to detect signal patterns across the genome and identify consecutive genetic markers with copy number changes. (See Wang K, et al. (June 2008) Cold Spring Harb Protoc). PennCNV allows for kilobase-resolution detection of CNVs. (See Wang K, et al. (Nov 2007) Genome Res. 17(11):1665-74).

[0085] In CNV analysis, the SNV genotyping data is compared with the behavior of normal diploid DNA. The software uses SNV genotyping data to determine the signal intensity data and SNV allelic ratio distribution and to then use these data to determine when there is deviation from the normal diploid condition of DNA that indicates a CNV. This is done in part by using the log R Ratio (LRR), which is a normalized measure of the total signal intensity for the two alleles of the SNV (Wang 2008). If the software detects

regions of contiguous SNVs with intensity (LRR) trending below 0, this indicates a CNV deletion. If the software instead detects regions of contiguous SNVs with intensity (LRR) trending above 0, this indicates a CNV duplication. If no change in LRR is observed compared to the behavior of diploid DNA, the sequence is in the normal diploid state with no CNV present. The software also uses B allele frequency (BAF), a normalized measure of the allelic intensity ratio of two alleles that changes when alleles are lost or gained as with a CNV deletion or duplication. For example, a CNV deletion is indicated by both a decrease in LRR values and a lack of heterozygotes in BAF values. In contrast, a CNV duplication is indicated by both an increase in LRR values and a splitting of the heterozygous genotype BAF clusters into two distinct clusters. The software automates the calculation of LRR and BAF to detect CNV deletions and duplications for whole-genome SNV data. The simultaneous analysis of intensity and genotype data accurately defines the normal diploid state and determines CNVs.

[0086] Array platforms such as those from Illumina, Affymetrix, and Agilent may be used in SNV Genotyping. Custom arrays may also be designed and used based on the data described herein.

B. Comparative Genomic Hybridization

[0087] Comparative genomic hybridization (CGH) is another method that may be used to evaluate genetic alterations such as CNVs. CGH is a molecular cytogenetic method for analyzing genetic alterations such as CNVs in comparison to a reference sample using competitive fluorescence in situ hybridization (FISH). DNA is isolated from a patient and a reference source and independently labeled with fluorescent molecules (i.e., fluorophores) after denaturation of the DNA. Hybridization of the fluorophores to the resultant samples are compared along the length of each

chromosome to identify chromosomal differences between the two sources. A mismatch of colors indicates a gain or loss of material in the test sample in a specific region, while a match of the colors indicates no difference in genetic alterations such as copy number between the test and reference samples at a particular region.

C. Comparative Genomic Hybridization

[0088] Whole genome sequencing, whole exome sequencing, or targeted sequencing may also be used to analyze genetic alterations such as CNVs. Whole genome sequencing (also known as full genome sequencing, complete genome sequencing, or entire genome sequencing) involves sequencing of the full genome of a species, including genes that do or do not code for proteins. Whole exome sequencing, in contrast, is sequencing of only the protein-coding genes in the genome (approximately 1% of the genome). Targeted sequencing involves sequencing of only selected parts of the genome.

[0089] A wide range of techniques would be known to those skilled in the art to perform whole genome, whole exome, or targeted sequencing with DNA purified from a subject. Similar techniques could be used for different types of sequencing.

[0090] Techniques used for whole genome sequencing include nanopore technology, fluorophore technology, DNA nanoball technology, and pyrosequencing (i.e., sequencing by synthesis). In particular, next-generation sequencing (NGS) involves sequencing of millions of small fragments of DNA in parallel followed by use of bioinformatics analyses to piece together sequencing data from the fragments.

[0091] As whole exome sequencing does not need to sequence as large an amount of DNA as whole genome sequencing, a wider range of techniques are may be used. Methods for whole exome sequencing include polymerase chain reaction methods, NGS methods, molecular inversion probes, hybrid capture using microarrays, in-solution

capture, and classical Sanger sequencing. Targeted sequencing allows for providing sequence data for specific genes rather than whole genomes and can use any of the techniques used for other types of sequencing, including specialized microarrays containing materials for sequencing genes of interest.

D. Other Methods for Determining Genetic Alterations

[0092] Proprietary methodologies, such as those from BioNano or OpGen, using genome mapping technology can also be used to evaluate genetic alterations such as CNVs.

[0093] Standard molecular biology methodologies such as quantitative polymerase chain reaction (PCR), droplet PCR, and TaqMan probes (i.e., hydrolysis probes designed to increase the specificity of quantitative PCR) can be used to assess genetic alterations such as CNVs. Fluorescent in situ hybridization (FISH) probes may also be used to evaluate genetic alterations such as CNVs. The analysis of genetic alterations such as CNVs present in patients with anxiety is not limited by the precise methods whereby the genetic alterations such as CNVs are determined.

V. Methods for Diagnosing Anxiety Based on CNV Data

[0094] In some embodiments, the genetic alteration is a SNV or CNV. The SNV(s) or CNV(s) associated with anxiety disorder are found in an mGluR network gene, such as a gene listed in Tier1, Tier2, or Tier3 as shown in Figs. 2-4 or a set or panel of such genes.

[0095] In some embodiments, gene sets of mGluR network genes are used for analyzing samples from patients with or suspected of having anxiety disorder. In some embodiments, the presence of CNV duplications or deletions within these gene sets or panels is determined. In some embodiments, CNVs in the Tier 1 genes shown in Fig. 2

are determined. In some embodiments a panel of at least 10, at least 20, at least 30, at least 40, at least 50, at least 60, at least 70, or all 76 of the Tier 1 genes is evaluated for the presence of CNVs. Within any such panel of genes, individual, specific Tier 1 genes may be excluded from the analysis set. Any or all of GRM1-8 may be excluded from the panel, for example.

[0096] In some embodiments, the Tier 2 genes as shown in Figure 3 are analyzed for the presence of genetic alterations such as CNVs. Tier 2 genes are those that are tightly associated with mGluRs, but which are not contained within Tier 1.

[0097] In some embodiments, the Tier 2 genes are evaluated together with Tier 1 genes. In some embodiments, at least 100 Tier 2 genes are evaluated, while in some embodiments, at least 150, or 197 of the Tier 2 genes are evaluated. Individual, specific Tier 2 genes may be excluded from the gene set for evaluation in some embodiments.

[0098] In some embodiments, the 599 Tier 3 genes shown in Figure 4 are evaluated for genetic alterations such as CNVs. In some embodiments, the Tier 3 genes are evaluated together with Tier 1 and/or Tier 2 genes. In some embodiments, at least 100 Tier 3 genes are evaluated, while in some embodiments, at least 150, 200, 250, 300, 350, 400, 450, or 599 of the Tier 3 genes are evaluated. Individual, specific Tier 3 genes may be excluded from the gene set for evaluation in some embodiments.

VI. Methods of Administration and Combination Therapy

[0099] In some embodiments, the agent that modulates mGluR signaling is fasoracetam or fasoracetam monohydrate (also known as C-NS-105, NFC1, NS105, or LAM-105).

A. Dosing

[00100] In some embodiments, fasoracetam may be administered as fasoracetam monohydrate (NFC-1). In some embodiments, fasoracetam may be administered by mouth (i.e., per os). In some embodiments, fasoracetam may be administered as capsules. In some embodiments, fasoracetam capsules may contain 50, 60, 70, 80, 90, 100, 110, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, or 200 mg of fasoracetam monohydrate. In some embodiments, fasoracetam may be dosed once daily or twice daily. In some embodiments, the daily dose of fasoracetam may be 50 mg once-daily, 100 mg once-daily, 200 mg once-daily, 400 mg once-daily, 50 mg twice-daily, 100 mg twice-daily, 200 mg twice-daily, or 400 mg twice-daily. In some embodiments, fasoracetam dosing may be adjusted using a series of dose escalations. In some embodiments, pharmacokinetic data on drug level or clinical response is used to determine changes in dosing. In some embodiments, dose escalation of fasoracetam is not used. In some embodiments, subjects are treated at a dose of fasoracetam expected to be clinically efficacious without a dose- escalation protocol.

B. Combination Therapies

[00101] In some embodiments, fasoracetam is used in combination with other agents for the treatment of anxiety disorder. The other agent used in combination with fasoracetam may be an anxiolytic (such as barbiturates, pregabalin, or benzodiazepines, including chlordiazepoxide, clorazepate, diazepam, flurazepam, halazepam, prazepam, lorazepam, lormetazepam, oxazepam, temazepam, clonazepam, flunitrazepam, nimetazepam, nitrazepam, adinazolam, alprazolam, estazolam, triazolam, climazolam, loprazolam, or midazolam), antidepressant (such as fluoxetine, escitalopram, bupropion, mirtazapine, amitriptyline, imipramine, venlafaxine, sertraline, paroxetine, or

other compounds in the classes of tricyclic antidepressants, selective serotonin reuptake inhibitors, serotonin and norepinephrine reuptake inhibitors, norepinephrine and dopamine reuptake inhibitors, monoamine oxidase inhibitors, or other drugs approved for the use of depression), or beta- blocker (such as acebutolol, atenolol, betaxolol, bisoprolol, esmolol, nebivolol, metoprolol, cartelol, penbutolol, pindolol, carvedilol, labetalol, levobunolol, metipranolol, nadolol, propranolol, sotalol, timolol, or other selective or nonselective blockers of beta-adrenergic receptors).

[00102] In some embodiments, fasoracetam may be used in combination with a non-pharmacologic treatment, such as psychotherapy or brain stimulation therapies. In some embodiments, fasoracetam is used in combination with brain stimulation, which may be vagus nerve stimulation, repetitive transcranial magnetic stimulation, magnetic seizure therapy, deep brain stimulation, or any other therapies involving modulation of brain function by electricity, magnets, or implants.

VII. Articles of Manufacture

[00103] In some embodiments, the invention comprises articles of manufacture that may be used in the methods and treatments described herein. In one embodiment, the manufacture is a solid support or microarray for use in detecting genetic alterations in some or all of the mGluR network genes listed in Figs. 1-3 (i.e., Tiers 1-3). (See also Tables 1-3 herein providing start and stop locations for different mGluR network-related SNPs. This information may be useful in constructing a microarray.) In some embodiments, genes contained in multiple Tiers are assessed within the same solid support or microarray. In some embodiments, certain mGluR network genes are excluded. In some embodiments, the GRM genes are excluded.

[00104] Thus, for example, in some embodiments in which mGluR network genes are assayed to determine if there is a genetic alteration in one or more of the genes, such as a CNV, a solid support or microarray, such as on a chip, is used that contains appropriate probes for determining the presence of genetic alterations in 10, 20, 30, 40, 50, 60, 70 or all of the Tier 1 genes. In certain embodiments, the detectable labels are not naturally occurring. In some embodiments, the solid support or microarray may also include appropriate probes for determining the presence of genetic alterations in at least 10, 20, 30, 50, 100, 150, or all of the Tier 2 genes. In some embodiments, it may further include appropriate probes for determining the presence of genetic alterations in at least 10, 20, 50, 100, 200, 300, 400, 500 or all of the Tier 3 genes. For example, such a solid support, microarray, or chip may be used to determine the presence of genetic alterations such as CNVs or SNVs in the Tier 1, Tier 1+2, or Tier 1+2+3 mGluR gene networks as part of a method of treating an ADHD or 22q deletion and/or duplication patient.

[00105] In some embodiments, the manufacture is a set of probes for mGluR network genes of interest from Tiers 1, 2, and/or 3. In some embodiments the probes are labelled. Similarly, sets of probes may be manufactured for determining the presence of genetic alterations in 10, 20, 30, 40, 50, 60, 70 or all of the Tier 1 genes. In some embodiments, probes may be manufactured for determining the presence of genetic alterations in at least 10, 20, 30, 50, 100, 150, or all of the Tier 2 genes. In some embodiments, probes may further include those for determining the presence of genetic alterations in at least 10, 20, 50, 100, 200, 300, 400, 500 or all of the Tier 3 genes. These various probe sets may be used in methods of determining the presence of genetic alterations, such as CNVs and SNVs in the Tier 1, Tier 1+2, or Tier 1+2+3 mGluR gene

networks as part of a method of treating an ADHD or 22q deletion and/or duplication patient.

EXAMPLES

Example 1. Enrichment of CNV calls containing mGluR network genes in samples from patients with anxiety disorders

[00106] A study of potential enrichment of mGluR network genes was undertaken in patients who had anxiety, phobias, depression, and obsessive-compulsive disorders (OCD). Given the critical role of mGluRs and their signaling networks, changes in copy number of mGluR network genes may provide new approaches for diagnostics or treatments for psychiatric disorders.

[00107] Previously, a large-scale genome association study for copy-number variations enriched in patients with ADHD was performed as described in Elia et al., Nature Genetics, 44(1): 78-84 (2012)). Elia's study included about 2,493 patients with ADHD and about 9,222 controls, all of whom were of European ancestry and were between the ages of 6 and 18 years of age. This study noted that the rate of CNVs that contained a mGluR network gene was 1.2% in the control group, and that this rate increased to 11.3% in ADHD patients.

[00108] Samples for the present study were selected based on ICP-9 codes for diagnoses of children and adolescents from electronic health records that were treated at the Children's Hospital of Philadelphia (CHOP). All subjects had been evaluated by a pediatric psychiatrist who had entered a diagnosis of anxiety, depression, obsessive-compulsive disorder (OCD), or phobia. Figure 1 shows the number of patient samples analyzed in each of the anxiety, depression, OCD and phobia groups. Certain patients for

each group were fully genotyped as shown in Figure 1. Data from fully genotyped patients were used for analysis.

[00109] Single nucleotide variant (SNV) / single nucleotide polymorphism (SNP) genotype data were used to determine CNVs. SNV genotyping provides a genetic fingerprint of an individual using a large number of SNV markers to provide high-density SNV genotyping data (see Wang K, et al. (Nov 2007) Genome Res.17(11):1665-74). HumanHap550 Genotyping BeadChip™ (Illumina) or Human610- Quad v1.0 BeadChip™ (Illumina) were used in this study. For both chips, the same 520 SNVs were analyzed; therefore, data from these two chips are interchangeable. Standard manufacturer protocols were used for all genotyping assays. Illumina readers were used for all experiments.

[00110] SNV genotyping data from each fully genotyped patient sample were analyzed with the PennCNV software to determine the signal intensity data and SNV allelic ratio distribution. These data were then used to determine CNVs via simultaneous analysis of intensity and genotype data (as previously described in Wang 2008). Using this analysis, data indicating a region of loss of contiguous SNVs lead to a call of a CNV deletion. Data indicating a region of gain of contiguous SNVs lead to a call of a CNV duplication. A single individual may have multiple CNV deletions/duplications or may not have any CNVs.

[00111] As discussed previously, three tiers of mGluR network genes were developed. Figures 2-4 show the genes that are included in the three gene sets – Tier 1 (76 genes) in Figure 2, Tier 2 (197 genes) in Figure 3, and Tier 3 (599 genes) in Figure 4. Note that these gene sets were non-inclusive, so a single gene was only contained in a single Tier.

[00112] Figure 5 shows data on the number of CNV calls in each mGluR gene Tier for the different patient groups. CNVs are either a duplication or deletion. The data indicate that a larger number of CNV calls were seen for each gene set of mGluR network genes in the samples from patients with anxiety as compared to patients with depression, OCD, and phobia.

[00113] The percentage of patients who had a CNV call (either duplication or deletion) in each gene set of mGluR network genes is shown in Figure 6. These data indicate that a substantially higher percentage of patients with anxiety had a CNV call within each of the mGluR network gene sets compared with patients with depression, phobia, or OCD. The control frequency of patients with CNVs in mGluR network genes has previously been estimated in a large study of over 9,000 controls of European ancestry to be 1.2% (see Elia), supporting the specificity of the enrichment of mGluR network genes within CNVs in patients with anxiety disorders. Based on data in the present study, the frequency of patients with OCD, phobia, or depression for CNVs was less than 1.6% for the Tier 1 gene set, while the frequency of patients with CNVs in patients with anxiety was 7.91% for Tier 1, 12.20% for Tier 1 and 2, and 26.65% for Tiers 1, 2, and 3. See Figure 6.

[00114] As indicated in Figures 5-6, there was a significant enrichment of mGluR network gene alterations in the patients with anxiety. Therefore, diagnostics and treatments focused on modulation of mGluR gene networks may be of particular use in patients with anxiety disorders.

Example 2. Analysis of mGluR network genes contained within CNVs from samples of patients with anxiety disorder

[00115] We next analyzed genotyping data from the 925 fully genotyped patients with anxiety disorder to identify the genes associated with the CNVs. The mGluR network genes that are contained within CNVs from this group of 925 patients are presented as examples of genes within the mGluR network that are contained within CNVs either as duplications or deletions.

[00116] Table 1 shows data of representative CNVs from patients with anxiety wherein a Tier 1 mGluR network gene was located within, or in the vicinity of, a CNV in the patient's sample. CNVs can lead to structural changes that affect the transcription of genes located outside of, but in the vicinity of, the CNV. As such, mGluR network genes within one of the Tiers that were located within 500,000 base pairs of a CNV were also included in the analysis. When an mGluR network gene is contained within the listed CNV, this is noted with a "distance from gene" value of 0. When an mGluR network gene is contained in close proximity to a CNV but not within it, this is presented with a "distance from gene" value of greater than 0.

[00117] Table 1 lists the chromosome wherein the CNV was located, with its start and stop location in relation to the Human Genome version 19 (hg19). The number of SNVs located within the CNV is noted as "Num SNP," and the length of the CNV is noted in base pairs. The StartSNP and EndSNP of the CNV are also provided.

[00118] The "State, CN" column indicates the copy number resulting from the CNV. As normal human DNA (i.e. with no CNV) should be diploid and would have a "State, CN" of 2. CNVs with a "State, CN" of 0 or 1 indicate a copy number deletion.

In contrast, CNVs with a "State, CN" of three or greater indicate a copy number duplication.

[00119] The confidence value indicates the relative confidence that the call of the CNV is correct. All CNVs included in this analysis had a positive confidence value, indicating a high likelihood that the CNV call is correct. A value of 15 or greater was seen for most CNVs and is considered extremely high confidence in the CNV call based on qPCR and Taqman genotyping validation.

[00120] In Table 1, the "mGluR gene" column lists the specific mGluR network gene within Tier 1 contained within the listed CNV. Table 1 is sorted to show all of the CNVs that included a given Tier 1 mGluR network gene. Some Tier 1 genes may be represented in multiple CNVs from different patients in the study, leading to multiple rows for those particular mGluR network genes. Some Tier 1 genes may not have been represented in a CNV from this particular patient population.

[00121] Table 2 shows data from specific CNVs that contained a Tier 1 or Tier 2 mGluR network gene. The organization of Table 2 follows that of Table 1. The "mGluR gene" column lists the specific mGluR network gene within Tier 1 or Tier 2 contained within the listed CNV. Table 2 is sorted to show all of the CNVs that included a given Tier 1 or Tier 2 mGluR network gene. Some Tier 1 or Tier 2 genes may be represented in multiple CNVs from different patients in the study, leading to multiple rows for those particular genes. Some Tier 1 or Tier 2 genes may not have been represented in a CNV from this particular patient population.

[00122] Table 3 shows data from specific CNVs that contained a Tier 1, 2, or 3 mGluR network gene. The organization of Table 3 follows that of Tables 1 and 2. The "mGluR gene" column lists the specific mGluR network gene within Tier 1, Tier 2,

or Tier 3 contained within the listed CNV. Table 3 is sorted to show all the CNVs that included a given Tier 1, 2, or 3 mGluR network gene. Some Tier 1, 2, or 3 genes may be represented in multiple CNVs from different patients in the study, leading to multiple rows for those particular mGluR network genes. Some Tier 1, 2, or 3 genes may not have been represented in a CNV from this particular patient population.

[00123] Together, the data in Tables 1-3 indicate that a wide variety of mGluR network genes contained within each Tier are present in CNVs from patients with anxiety. If a larger patient cohort with anxiety phenotype was genotyped, all the genes in Tier-1, Tier-2, and Tier-3 would show enrichment for CNVs in patients with anxiety.

Example 3. Improvements in anxiety/mood in ADHD patients given fasoracetam monohydrate (NFC-1)

[00124] An open-label Phase Ib clinical trial was conducted to investigate the safety, pharmacokinetics and efficacy of NFC-1 (fasoracetam monohydrate) in adolescent subjects between the ages of 12 and 17 previously diagnosed with ADHD who also had at least one genetic alteration in an mGluR network gene.

[00125] The study included 30 ADHD subjects who were between ages 12 and 17, of any ancestry or race, and of weight within the 5th to 95th percentile for their age, and otherwise judged to be in good medical health. Subjects were genotyped and included in the trial if they possess at least one genetic alteration in the form of at least one copy number variation (deletion or duplication) in an mGluR network gene that potentially disrupts the function of the gene. Seventeen of the 30 subjects have a CNV in a tier 1 mGluR network gene, while 7 subjects have a CNV in a Tier 2 gene and 6 in a Tier 3 gene. At enrollment, several trial subjects showed evidence of co-morbid

phenotypes such as anxiety and mood disorders, based on the results of items 19-47 of a parent-conducted Vanderbilt Scale.

[00126] Exclusion criteria comprised subjects suffering from a clinically significant illness, either mental or physical, that, in the investigator's opinion, might confound the results of the study or that might prevent them from completing the study, subjects that are pregnant or nursing, subjects that test positive for illicit drugs of that have a history of drug abuse, subjects that consume alcoholic beverages, or subjects for which the investigator is otherwise concerned regarding their compliance or suitability.

[00127] NFC-1 capsules of either 50 mg or 200 mg comprising fasoracetam monohydrate as active ingredient and placebo capsules comprising microcellulose were used for the study. The design of the trial was a phone screening (1 day), enrollment phase (1 to 2 days), a wash-out phase for subjects currently on ADHD medications (1-14 days), pharmacokinetic (PK) assessment (2 days), followed by a dose-escalation phase (35 days) and a follow-up phone visit approximately four weeks after the last dose, for a maximum of 127 days. All ADHD medications were discontinued during the wash-out phase prior to the study. The wash-out period for stimulants was 2-3 days and that for atomoxetine or noradrenergic agonists was 10-12 days. No new ADHD medications were started during the study.

[00128] A dose-escalation phase of the trial ran over a 5-week period, after the initial wash-out period and the PK and initial safety assessments. During week 1, all subjects were administered placebo capsules twice daily. After one week of placebo treatment, patients were started on 50 mg bid NFC-1 for 1 week. If safety and responsiveness data from prior dose level of fasoracetam indicated it was appropriate, subjects were then escalated to the next higher dose (100, 200, or 400 mg). Subjects who

showed tolerance to the 50 mg bid dose as well as response to the drug were to be maintained at that level for the remaining 3 weeks of the trial. Subjects who showed tolerance but lack of response or partial response to the 50 mg bid dose were to be moved up to the next higher dose of 100 mg during the following week. Subjects who showed tolerance at 100 mg but lack of response or partial response were to be moved up to the 200 mg dose the following week while those who showed both tolerance and response at 100 mg were to be kept at 100 mg bid for the remainder of the trial. Similarly, subjects moved up to the 200 mg dose who showed both tolerance and response were to be kept at 200 mg for the final week of the trial while those showing tolerance but lack of response or partial response were moved to a 400 mg dose for the final week. Of the 30 trial subjects, 3 received a maximum dose of 100 mg, 9 received a maximum dose of 200 mg, and the remaining 18 received a maximum dose of 400 mg.

[00129] Certain subjects in the study also displayed other co-morbid phenotypes such as anxiety, depression, mood disorders, and sleep disturbances such as insomnia, according to the information recorded in the enrollment and week 1. At enrollment, two subjects had maximum scores of 3 on 2 of the 3 Vanderbilt Scale items (nos. 41, 42, and 47) that are related to anxiety. At week 5, these subjects scored 3 on all 3 items.

[00130] Results of a BRIEF scale were also analyzed for changes in anxiety/mood scores in all 30 subjects. The BRIEF scale, performed by parents, requests information on the frequency of the following behaviors:

1. Over-reacts to small problems;

6. Upset with new situations;

7. Explosive-angry outbursts;

12. Upset by changes in plans;

13. Disturbed by change of teacher/class;

20. Easily tearful;

23. Resists change of routine, foods, plans;

25. Outbursts for little reason;

26. Mood changes frequently;

30. Trouble getting used to new situations;

45. Reacts more strongly to situations than other children;

50. Mood easily influenced by situation;

62. Angry or tearful outbursts are intense but end suddenly;

64. Small events trigger big reactions; and

70. Becomes upset too easily.

[00131] The answers to these questions are scored as "never," "sometimes," or "often." The BRIEF test was administered at enrollment and again after each week of the dose escalation treatment from placebo week to week 5. All scores for all 30 subjects for each question above were added up for enrollment and week 5, giving 1 point for each "never" or "often" score. It was found that the total "never" score for all questions for all subjects at enrollment was 125 and at week 5 was 191, showing a trend toward improvement. Similarly, the total "often" score at enrollment was 154 while the total "often" score at week 5 was 77, again showing a trend toward improvement in anxiety and mood symptoms in the ADHD subjects.

Example 4. Treatment with Fasoracetam Monohydrate (NFC-1) of ADHD Patients with CNVs in mGluR Network Genes and Impact on Obsessive Compulsive Symptoms

[00132] Among the 30 ADHD subjects tested in the open-label Phase Ib clinical trial described in Example 2, eight had symptoms of obsessive compulsive-disorder (OCD). One of the subjects with tics also had symptoms of OCD. In all eight subjects, OCD symptoms improved during therapy with NFC-1.

[00133] One subject with OCD also had a history of ear scratching (i.e dermatillomania), leading to a bleeding ulcer. The bleeding ulcer healed during therapy with NFC-1, indicating that the subject's dermatillomania symptoms had reduced during NFC-1 therapy.

Example 5. Study of Phenotypes Associated with mGluR Network CNVs

[00134] A total of 1,000 ADHD patients aged 6-17 years were enrolled in a trial to consider phenotypes that may be associated with CNVs in Tier 1 or 2 mGluR network genes. Study sites collected saliva for a DNA sample. Each DNA sample was then subjected to DNA extraction, genetic sequencing, and biobanking of DNA.

[00135] Genetic sequencing results together with medical history were used to evaluate genotype (based on genetic sequencing) and phenotype (based on interviews conducted by a clinician with the subject's parent(s)/guardian(s)). Subjects had ADHD as defined by the Diagnostic and Statistical Manual of Mental Disorders, 5th Edition (DSM-V).

[00136] A single clinician posed a series of questions related to potential behavioral or health phenotypes to the parent(s) or legal guardian(s) of the subjects. For each individual phenotype, the parent/guardian was asked: "Is this a current concern" and a Yes or No answer was collected. The clinician determined the frequency of Yes and No responses to generate phenotype data.

[00137] The study found that prevalence of anger control as a current concern for parents was 58.9% in ADHD subjects with a Tier 1 or 2 mGluR network gene CNV but only 47.4% in ADHD subjects without such an mGluR network gene CNV. This difference was statistically significant (odds ratio of 1.59, $P = 0.003$). This odds ratio of greater than 1 implies a higher prevalence of current anger control concerns in parents in ADHD subjects who had a Tier 1 or 2 mGluR network gene CNV versus those without such a CNV.

[00138] The prevalence of disruptive behavior as a current concern for parents was 57.1% in ADHD subjects with a Tier 1 or 2 mGluR network gene CNV and 43.9% in ADHD subjects without such an mGluR network gene CNV. This difference was also statistically significant (odds ratio of 1.70, $P < 0.001$), indicating a higher prevalence of current disruptive behavior concerns in parents in ADHD subjects who also had an mGluR network gene mutation versus those without a mutation.

Example 6: Copy Number Variation in mGluR Network Genes in ADHD Subjects with Co-Morbid Disorders

[00139] Samples from 2707 known ADHD pediatric subjects (mean age of about 10-10.5 years) were genotyped on 550/610 Illumina chips to determine if they have one or more CNVs in Tier 1 or Tier 2 genes. The 2707 subjects included 759 females and 1778 males of African American or white ethnicity (1063 and 1483, respectively). 430 of the 2707 subjects (16.9%) had at least one CNV in an mGluR Tier 1 or Tier 2 gene.

[00140] The 2707 subjects' records were also checked to determine if they had co-morbid diagnoses according to the World Health Organization International Classification of Diseases 9th Edition (ICD-9). Of the 2707 subjects, 1902 (about 70%)

had comorbidities while 805 did not. Of those 1902 subjects with comorbidities, about 30% had more than one comorbidity, and about 20% had two or more, while smaller percentages had larger numbers of comorbidities.

[00141] The most prevalent comorbidities, each occurring in more than 100 of the subjects, are listed in Table 4. The table lists the comorbidities by ICD-9 code and provides the number of cases among the 2707 subjects (column titled "N") and name for each co-morbid condition or disorder.

Table 4

ICD-9 Code	N	Name
N_299.00	342	Autistic disorder, current or active state
N_299.80	267	Other specified pervasive developmental disorders, current or active state
N_299.90	179	Unspecified pervasive developmental disorder, current or active state
N_300.00	407	Anxiety state unspecified
N_311	244	Depressive disorder not elsewhere classified
N_312.9	568	Unspecified disturbance of conduct
N_313.81	313	Oppositional defiant disorder (ODD)
N_314.9	120	Unspecified hyperkinetic syndrome of childhood
N_315.2	320	Other specific developmental learning difficulties
N_315.31	189	Expressive language disorder
N_315.32	157	Mixed receptive-expressive language disorder
N_315.39	327	Other developmental speech disorder
N_315.4	116	Developmental coordination disorder
N_315.5	160	Mixed development disorder
N_315.8	398	Other specified delays in development
N_315.9	479	Unspecified delay in development
N_319	110	Unspecified intellectual disabilities

[00142] The comorbidies in Table 4 tend to cluster into a few different groups: disorders related to anxiety, depression, or mood; prevalent developmental disorders; less prevalent developmental disorders; and autism and related disorders.

[00143] The genotype data and the comorbidity data were then combined to determine how many of the subjects with CNVs in Tier 1 or 2 mGluR network genes also had comorbidities. It was found that 316 of the subjects with such a CNV also had at least one comorbidity (about 18% of the CNV-positive subjects or about 12% of the total subjects) while 114 of the subjects without a Tier 1 or 2 mGluR network gene CNV had at least one comorbidity (about 15% of the CNV-negative subjects or about 4% of the total subjects). This difference showed a P value of 0.118. Thus, comorbidities tended to be more common in CNV-positive than in CNV-negative subjects overall. When only subjects identifying as white ethnicity are considered, there was a highly significant correlation between mGluR CNVs and ADHD comorbidities. Specifically, 218 of 1483 subjects had at least one CNV in a Tier 1 or 2 mGluR network gene, and, of those 218 subjects, 169 also had a comorbidity whereas 49 did not. That difference showed a P value of 0.004.

[00144] The foregoing written specification is considered to be sufficient to enable one skilled in the art to practice the embodiments. The foregoing description and Examples detail certain embodiments and describes the best mode contemplated by the inventors. It will be appreciated, however, that no matter how detailed the foregoing may appear in text, the embodiment may be practiced in many ways and should be construed in accordance with the appended claims and any equivalents thereof.

[00145] As used herein, the term about refers to a numeric value, including, for example, whole numbers, fractions, and percentages, whether or not explicitly

indicated. The term about generally refers to a range of numerical values (e.g., +/-5-10% of the recited range) that one of ordinary skill in the art would consider equivalent to the recited value (e.g., having the same function or result). When terms such as at least and about precede a list of numerical values or ranges, the terms modify all of the values or ranges provided in the list. In some instances, the term about may include numerical values that are rounded to the nearest significant figure.

Table 1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	ACAT1
chr11:98062720-121890280	5422	23827561	1	rs6589308	rs1944465	29.075	0	ACAT1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	ACAT1
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	ACAT1
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	ACAT1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	ACCN1
chr17:32104675-32822032	239	717358	4	rs6505377	rs213135	113.523	0	ACCN1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	ACCN1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	ACTR2
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	ACTR2
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	ACTR2
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	ACTR2
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	ADCY1
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	ADCY1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	ADCY1
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	ADCY1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	ADCY1
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	ADRBK1
chr11:66898492-67136981	22	238490	1	rs11227699	rs3781941	17.955	0	ADRBK1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	ADRBK1
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	ADRBK1
chr11:66933410-67046501	14	113092	1	rs1253784	rs12274774	5.288	0	ADRBK1
chr16:29441284-33923125	585	4481842	3	rs7206789	rs4043755	42.437	0	ALDOA

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	ALDOA
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	APP
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	APP
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	APP
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	APP
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	APP
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	APP
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	ARL15
chr5:39526068-67275356	4441	27749289	1	rs16869031	rs999826	77.848	0	ARL15
chr5:52884614-53418318	145	533705	1	rs524289	rs9292039	31.471	0	ARL15
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	ARL15
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	ATXN7L3
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	ATXN7L3
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	BDKRB2
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	BDKRB2
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	BDKRB2
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	CA8
chr8:60494752-60667231	25	172480	1	rs12674637	rs6471803	14.25	434192	CA8
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	CA8
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	CA8
chr8:43235525-66712108	3632	23476584	3	rs10091311	rs7001138	58.838	0	CA8
chr9:139492789-140913833	196	1421045	1	rs28485548	cnvi0002661	28.211	0	CACNA1B
chr9:139821068-141105225	163	1284158	3	rs3750512	rs11559363	55.611	0	CACNA1B
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	CACYBP
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	CACYBP
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	CACYBP

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CACYBP
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	CACYBP
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	CALM1
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	CALM1
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	CALM1
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	CHRM3
chr1:238655362-242087644	1078	3432283	3	rs2392861	rs4658565	806.215	0	CHRM3
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	CHRM3
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	CHRM3
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CHRM3
chr1:236848751-249219320	3293	12370570	3	rs819666	cnvi0018731	920.725	0	CHRM3
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	CIC
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	CIC
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	CNP
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	CNP
chr3:1850547-2114929	103	264383	3	rs4543005	rs9880266	402.844	25621	CNTN4
chr3:1819843-1962536	66	142694	1	rs9875417	rs4685465	225.117	178014	CNTN4
chr3:234726-6328081	2293	6093356	3	rs7632811	rs1595039	106.207	0	CNTN4
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	CNTN4
chr3:1818056-1981567	55	163512	1	rs7624354	rs1488757	186.651	158983	CNTN4
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	CRHR1
chr17:43657921-44064851	65	406931	3	rs9898857	rs8079215	86.447	0	CRHR1
chr17:43657921-44354796	88	696876	3	rs9898857	rs2732700	21.196	0	CRHR1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	CRHR1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	CTNNA2
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	CTNNA2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	CTNNA2
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	CTNNA2
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	CTNNA2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	DISC1
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	DISC1
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	DISC1
chr1:231711489-231813134	28	101646	3	rs1765782	rs6541281	70.39	0	DISC1
chr1:231711489-231813134	22	101646	3	rs1765782	rs6541281	42.561	0	DISC1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	DISC1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	DISC1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	DISC1
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	DISC1
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	DPP6
chr7:153503148-153662151	40	159004	3	rs2622200	rs4726357	86.109	0	DPP6
chr7:153843805-153946551	29	102747	3	rs9690764	rs9640345	36.97	0	DPP6
chr7:153694399-153811655	11	117257	3	rs10235799	rs3115192	13.736	0	DPP6
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	DPP6
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	DPP6
chr7:143807304-158827326	3603	15020023	3	rs10252253	rs2071624	54.584	0	DPP6
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	DYNLL1
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	DYNLL1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	DYNLL1
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	DYNLL1
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	FPR1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	FPR1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	FPR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:6562293-6711147	27	148855	1	rs2041385	rs1639122	19.307	0	GAPDH
chr12:6485661-6711147	48	225487	1	rs3759324	rs1639122	18.66	0	GAPDH
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	GAPDH
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	GNA15
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	GNA15
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	GNA15
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	GNAI2
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	GNAI2
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	GNAI2
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	GNAO1
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	GNAQ
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	GNAQ
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	GNAQ
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	GNAQ
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	GRIK1
chr21:30057145-31992864	372	1935720	1	rs6516861	rs1702405	41.668	0	GRIK1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	GRIK1
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	GRIK1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	GRIK1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	GRIK1
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	GRIK1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	GRIK3
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	GRIK3
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	GRM1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	GRM1
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	GRM1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	GRM1
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	GRM1
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	GRM1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	GRM1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	GRM1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	GRM1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	GRM1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GRM1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GRM1
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	GRM1
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	GRM1
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	GRM3
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	GRM3
chr7:85117732-86026526	122	908795	1	rs4728584	rs10242995	65.094	246704	GRM3
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	GRM3
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	GRM3
chr7:84302877-110993169	5183	26690293	3	rs4338048	rs10254893	203.09	0	GRM3
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	GRM5
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	GRM5
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	GRM5
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	GRM5
chr11:81251505-103234729	4842	21983225	3	rs7935238	rs1913462	26.176	0	GRM5
chr11:81251505-103234729	4842	21983225	3	rs7935238	rs1913462	26.176	0	GRM5
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	GRM5
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	GRM5
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	GRM5

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	GRM5
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	GRM5
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	GRM5
chr3:5824878-8781331	952	2956454	3	rs2470628	rs11916022	924.891	0	GRM7
chr3:5824878-8781331	952	2956454	3	rs2470628	rs11916022	924.891	0	GRM7
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	GRM7
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	GRM7
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	GRM8
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	GRM8
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	GRM8
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	GRM8
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	GRM8
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	GRM8
chr7:125676925-125780682	24	103758	1	rs1419535	rs10267757	26.358	297970	GRM8
chr7:125676925-125780682	24	103758	1	rs1419535	rs10267757	26.358	297970	GRM8
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	GRM8
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	GRM8
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	GSN
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	GSN
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	GSN
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	HOMER1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	HOMER1
chr5:78520731-78765405	35	244675	1	rs4704546	rs7710089	12.78	0	HOMER1
chr5:78542290-79057477	95	515188	1	rs10474578	rs259126	38.26	0	HOMER1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	HOMER1
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	HTR2A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	HTR2A
chr13:36707502-103656104	13622	66948603	1	rs3827890	rs1952590	38.726	0	HTR2A
chr13:47300055-47409034	48	108980	1	rs1539177	rs6314	25.525	0	HTR2A
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	HTR2A
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	LARP7
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	LARP7
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	LARP7
chr4:89603085-113991140	4018	24388056	3	rs2972038	rs2279892	28.405	0	LARP7
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	LARP7
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	LARP7
chr4:113385223-113578609	25	193387	1	cnvi0012240	rs1129065	19.233	0	LARP7
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	LARP7
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	MAPK1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	MTHFD1
chr14:64926097-65063315	19	137219	1	rs2281603	rs10134770	14.377	0	MTHFD1
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	MTHFD1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	MX1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	MX1
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	MX1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	MX1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	MX1
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	MX1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	NEGR1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	NEGR1
chr1:72606418-72717743	14	111326	1	rs1385919	rs1776012	17.335	0	NEGR1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	NEGR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	NLN
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	NLN
chr5:39526068-67275356	4441	27749289	1	rs16869031	rs999826	77.848	0	NLN
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	NLN
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	NMI
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	NMI
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	NMI
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	NMI
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	NMI
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	PCBP3
chr21:44839153-47856106	674	3016954	1	rs2838302	rs2236616	38.158	0	PCBP3
chr21:47091361-47226895	18	135535	1	rs2838973	rs2839002	14.709	0	PCBP3
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	PCBP3
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	PCBP3
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	PCBP3
chr21:46381900-48098560	448	1716661	1	rs8132265	cnvi0019195	712.68	0	PCBP3
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	PCBP3
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	PCBP3
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	PDE1C
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	PDE1C
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	PDE1C
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	PDE1C
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	PDE1C
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	PPP2R1A
chr19:52365654-54612628	524	2246975	3	rs4514789	rs254262	59.657	0	PPP2R1A
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PPP2R1A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PPP2R1A
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	PRPSAP1
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	PRPSAP1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	PSMD11
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	PSMD11
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PSMD13
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	PXN
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	PXN
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	PXN
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	PXN
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	QRICH2
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	QRICH2
chr22:18907405-21465780	610	2558376	3	rs9618419	rs11703181	1799.961	0	RANBP1
chr22:19601238-20241160	201	639923	3	rs8135473	rs1567871	11.687	0	RANBP1
chr22:18877787-21462353	613	2584567	1	rs2543958	rs140392	772.063	0	RANBP1
chr22:18877787-21462353	512	2584567	1	rs2543958	rs140392	1596.687	0	RANBP1
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	RANBP1
chr13:87746779-104646511	3908	16899733	3	rs9301986	rs17414312	27.724	0	RAP2A
chr13:90018392-105190802	4136	15172411	1	rs7335222	rs11841281	42.954	0	RAP2A
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	RAP2A
chr13:36707502-103656104	13622	66948603	1	rs3827890	rs1952590	38.726	0	RAP2A
chr13:65193124-115053155	12025	49860032	3	rs9598811	rs7327124	78.057	0	RAP2A
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	RCC1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	RCC1
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	RGS12
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	RIF1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	RIF1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	RIF1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	RIF1
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	RIF1
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	RUVBL2
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	RUVBL2
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	RUVBL2
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	RYR1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	RYR1
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	RYR2
chr1:237570457-237675464	37	105008	1	rs4659495	rs2618721	15.007	0	RYR2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RYR2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RYR2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RYR2
chr1:237584925-237904870	86	319946	1	rs4593814	rs10925504	31.95	0	RYR2
chr1:236848751-249219320	3293	12370570	3	rs819666	cnvi0018731	920.725	0	RYR2
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	SDC3
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	SDC3
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	SELE
chr1:169556446-171300348	340	1743903	1	rs9332480	rs7541160	32.81	0	SELE
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	SELE
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	SELE
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	SELE
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	428.177	0	SERPINB9
chr6:2585208-31281876	-2	28696669	1	rs1634746	rs1634747	31.615	0	SERPINB9
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	63.572	0	SERPINB9

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:1175965-29899147	43	28723183	0	rs1611522	rs2394704	52.089	0	SERPINB9
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	53.123	0	SERPINB9
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	80.695	0	SERPINB9
chr6:1177990-29899147	39	28721158	0	rs2428530	rs2394704	44.381	0	SERPINB9
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	390.234	0	SERPINB9
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	34.598	0	SERPINB9
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	31.699	0	SERPINB9
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	43.568	0	SERPINB9
chr6:181089-30430875	1806	30249787	3	rs1535053	rs35792611	80.394	0	SERPINB9
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	SETD4
chr21:36927793-37647438	142	719646	3	rs2205031	rs9980084	187.28	0	SETD4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	SETD4
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	SETD4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	SETD4
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	SETD4
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	SETD4
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	SGTB
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	SGTB
chr5:39526068-67275356	4441	27749289	1	rs16869031	rs999826	77.848	0	SGTB
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	SGTB
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	SHANK1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	SHANK1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	SHANK1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	SLC7A10
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	SLC7A10
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	SORD

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr15:44763598-47394943	502	2631346	3	rs7172106	rs4095484	142.088	0	SORD
chr15:43392075-66051345	4963	22659271	3	rs8028608	rs6494537	59.842	0	SORD
chr12:8171838-32535863	5853	24364026	3	rs11609309	rs7963182	23.697	0	STRAP
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	STRAP
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	STRAP
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	STRAP
chr17:75730493-79302149	880	3571657	3	rs7210773	rs2864474	14.319	0	TK1
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	TK1
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	TK1
chr3:145967173-173899890	4912	27932718	3	rs9863647	rs7618997	46.396	0	TNIK
chr3:164955741-191742104	5741	26786364	1	rs2218152	rs9835019	52.438	0	TNIK
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	TNIK
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	TNIK
chr3:166503411-190576461	4854	24073051	1	rs11925936	rs1393054	31.414	0	TNIK
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	TNIK
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	USP24
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	USP24
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	VHL

Table 2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	ACAT1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	ACAT1
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	ACAT1
chr11:98062720-121890280	5422	23827561	1	rs6589308	rs1944465	29.075	0	ACAT1
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	ACAT1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	ACAT2
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	ACAT2
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	ACAT2
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	ACAT2
chr6:151495387-165969396	3761	14474010	3	rs9322304	rs1022180	22.826	0	ACAT2
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	ACAT2
chr17:32104675-32822032	239	717358	4	rs6505377	rs213135	113.523	0	ACCN1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	ACCN1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	ACCN1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	ACCN2
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	ACCN2
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	ACCN2
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	ACCN2
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	ACP1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	ACTB
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	ACTR2
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	ACTR2
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	ACTR2
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	ACTR2
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	ADA

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	ADA
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	ADA
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	ADA
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	ADCY1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	ADCY1
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	ADCY1
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	ADCY1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	ADCY1
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	ADD1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	ADD2
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	ADD2
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	ADD2
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	ADD2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	ADORA1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	ADORA1
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	ADORA1
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	ADORA1
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	ADORA1
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	ADORA1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ADORA1
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	ADORA1
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	ADRA1B
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	ADRA1B
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	ADRA1B
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	ADRA2A
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	ADRA2A
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	ADRA2A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	ADRA2A
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	ADRA2A
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	ADRA2C
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	ADRB2
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	ADRB2
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	ADRB2
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	ADRB2
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	ADRBK1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	ADRBK1
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	ADRBK1
chr11:66898492-67136981	22	238490	1	rs11227699	rs3781941	17.955	0	ADRBK1
chr11:66933410-67046501	14	113092	1	rs1253784	rs12274774	5.288	0	ADRBK1
chr16:29441284-33923125	585	4481842	3	rs7206789	rs4043755	42.437	0	ALDOA
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	ALDOA
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	ANXA2
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	ANXA2
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	ANXA2
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	ANXA2
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	ANXA2
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	ANXA2
chr15:43392075-66051345	4963	22659271	3	rs8028608	rs6494537	59.842	0	ANXA2
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	APP
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	APP
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	APP
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	APP
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	APP
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	APP

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	APTX
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	APTX
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	APTX
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	AQP1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	AQP1
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	AQP1
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	AQP1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	AQP1
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	ARHGAP24
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	ARHGAP24
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	ARHGAP24
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	ARHGAP24
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	ARHGAP24
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	ARHGAP24
chr5:39526068-67275356	4441	27749289	1	rs16869031	rs999826	77.848	0	ARL15
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	ARL15
chr5:52884614-53418318	145	533705	1	rs524289	rs9292039	31.471	0	ARL15
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	ARL15
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	ARRB1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	ARRB1
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	ARRB1
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	ARRB1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	ARRB2
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	ATXN7L3
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	ATXN7L3
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	BDKRB1
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	BDKRB1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	BDKRB1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	BDKRB2
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	BDKRB2
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	BDKRB2
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	BTBD2
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	BTBD2
chr19:1130986-2128054	143	997069	1	rs10413074	rs1017084	25.799	0	BTBD2
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	BTBD2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	BTG2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	BTG2
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	BTG2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	BTG2
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	BTG2
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	BTG2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	BTG2
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	BTG2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	C1orf116
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	C1orf116
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	C1orf116
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	C1orf116
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	C1orf116
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	C1orf116
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	C1orf116
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	C1orf116
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	C7orf25
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	C7orf25
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	C7orf25

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	C7orf25
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	C7orf25
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	CA8
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	CA8
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	CA8
chr8:60494752-60667231	25	172480	1	rs12674637	rs6471803	14.25	434192	CA8
chr8:43235525-66712108	3632	23476584	3	rs10091311	rs7001138	58.838	0	CA8
chr9:139492789-140913833	196	1421045	1	rs28485548	cnvi0002661	28.211	0	CACNA1B
chr9:139821068-141105225	163	1284158	3	rs3750512	rs11559363	55.611	0	CACNA1B
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	CACYBP
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	CACYBP
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	CACYBP
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CACYBP
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	CACYBP
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	CALB2
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	CALB2
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	CALB2
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	CALM1
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	CALM1
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	CALM1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	CALM2
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	CALM2
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	CALM2
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	CALM2
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	CALM3
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	CALM3
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	CALM3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	CALM3
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	CALM3
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	CALM3
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	CAMK1
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	CAMK2B
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	CAMK2B
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	CAMK2B
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	CAMK2B
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	CAMK2B
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	CAMK4
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	CAMK4
chr5:80735161-125293366	8499	44558206	1	rs1541830	rs327816	52.167	0	CAMK4
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	CAMK4
chr5:108979318-132114847	4575	23135530	1	rs31595	rs30514	35.063	0	CAMK4
chr5:108284342-111242002	627	2957661	1	rs3797817	rs17133870	44.164	0	CAMK4
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	CAMK4
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	CCNB1
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	CCNB1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	CCNB1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	CDC42
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	CDC42
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	CHGB
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	CHGB
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	CHP
chr15:32939946-43104406	2544	10164461	3	rs12594777	rs13380301	32.942	0	CHP
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	CHRM2
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	CHRM2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	CHRM2
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	CHRM2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	CHRM3
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	CHRM3
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	CHRM3
chr1:238655362-242087644	1078	3432283	3	rs2392861	rs4658565	806.215	0	CHRM3
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CHRM3
chr1:236848751-249219320	3293	12370570	3	rs819666	cnvi0018731	920.725	0	CHRM3
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	CIC
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	CIC
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	CNP
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	CNP
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	CNR1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	CNR1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	CNR1
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	CNR1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	CNR1
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	CNR1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	CNR1
chr6:79198069-99893938	4062	20695870	3	rs1321584	rs4504482	200.961	0	CNR1
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	COPB2
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	COPB2
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	COPB2
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	COPB2
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	COPB2
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	COPB2
chr17:43657921-44354796	88	696876	3	rs9898857	rs2732700	21.196	0	CRHR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	CRHR1
chr17:43657921-44064851	65	406931	3	rs9898857	rs8079215	86.447	0	CRHR1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	CRHR1
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	CYCS
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	CYCS
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	CYCS
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	CYCS
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	CYCS
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	DCN
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	DCN
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	DCN
chr12:84589672-93258498	1292	8668827	1	rs1482434	rs11106721	43.425	0	DCN
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	DCN
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	DHCR7
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	DHCR7
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	DHCR7
chr11:67086298-74446791	1348	7360494	3	rs1944096	rs7103136	173.017	0	DHCR7
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	DISC1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	DISC1
chr1:231711489-231813134	28	101646	3	rs1765782	rs6541281	70.39	0	DISC1
chr1:231711489-231813134	22	101646	3	rs1765782	rs6541281	42.561	0	DISC1
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	DISC1
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	DISC1
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	DISC1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	DISC1
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	DISC1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	DLST

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	DLST
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	DRD2
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	DRD2
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	DRD2
chr11:98062720-121890280	5422	23827561	1	rs6589308	rs1944465	29.075	0	DRD2
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	DRD2
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	DRD3
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	DRD3
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	DRD3
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	DRD3
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	DRD3
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	DRD3
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	DSTN
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	DSTN
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	DSTN
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	DSTN
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	DYNLL1
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	DYNLL1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	DYNLL1
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	DYNLL1
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	ECHS1
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	EGFR
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	EGFR
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	EGFR
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	EGFR
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	ERBB2
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	ERBB2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	F2R
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	F2R
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	F2R
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	F2RL2
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	F2RL2
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	F2RL2
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	F2RL3
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	F2RL3
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	F3
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	F3
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	F3
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	F3
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	F3
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	FKBP3
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	FKBP3
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	FPR1
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	FPR1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	FPR1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	FSCN1
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	FURIN
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	FURIN
chr15:91345348-91492877	34	147530	3	rs16944840	rs749938	0	0	FURIN
chr15:66108544-102427006	8615	36318463	3	cnvi0007613	rs11632620	159.164	0	FURIN
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	FYN
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	FYN
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	FYN
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	FYN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	FYN
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	FYN
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	FYN
chr12:6485661-6711147	48	225487	1	rs3759324	rs1639122	18.66	0	GAPDH
chr12:6562293-6711147	27	148855	1	rs2041385	rs1639122	19.307	0	GAPDH
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	GAPDH
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	GLP1R
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	GLP1R
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	GLP1R
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	GLP2R
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	GNA15
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	GNA15
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	GNA15
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	GNAI1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	GNAI1
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	GNAI1
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	GNAI1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	GNAI1
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	GNAI2
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	GNAI2
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	GNAI2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	GNAI3
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	GNAI3
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	GNAI3
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	GNAI3
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	GNAO1
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	GNAQ

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	GNAQ
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	GNAQ
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	GNAQ
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	GNB2L1
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	GOT1
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	GOT1
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	GOT1
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	GOT1
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	GOT1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	GP1BA
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	GPR26
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	GPR26
chr10:124668629-135157955	2949	10489327	3	rs11248331	rs10776672	23.553	0	GPR26
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	GPR26
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	GRB2
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	GRB2
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	GRB7
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	GRB7
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	GRIA1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	GRIA1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	GRIA1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	GRIK1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	GRIK1
chr21:30057145-31992864	372	1935720	1	rs6516861	rs1702405	41.668	0	GRIK1
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	GRIK1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	GRIK1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	GRIK1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	GRIK1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	GRIK3
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	GRIK3
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	GRM1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	GRM1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	GRM1
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	GRM1
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	GRM1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GRM1
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	GRM1
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	GRM2
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	GRM2
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	GRM2
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	GRM3
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	GRM3
chr7:85117732-86026526	122	908795	1	rs4728584	rs10242995	65.094	246704	GRM3
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	GRM3
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	GRM3
chr7:84302877-110993169	5183	26690293	3	rs4338048	rs10254893	203.09	0	GRM3
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	GRM4
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	GRM4
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	GRM4
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	GRM5
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	GRM5
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	GRM5
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	GRM5
chr11:81251505-103234729	4842	21983225	3	rs7935238	rs1913462	26.176	0	GRM5

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	GRM5
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	GRM6
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	GRM6
chr3:5824878-8781331	952	2956454	3	rs2470628	rs11916022	924.891	0	GRM7
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	GRM7
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	GRM8
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	GRM8
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	GRM8
chr7:125676925-125780682	24	103758	1	rs1419535	rs10267757	26.358	297970	GRM8
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	GRM8
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	GSN
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	GSN
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	GSN
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	HBXIP
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	HBXIP
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	HBXIP
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	HBXIP
chr5:78520731-78765405	35	244675	1	rs4704546	rs7710089	12.78	0	HOMER1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	HOMER1
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	HOMER1
chr5:78542290-79057477	95	515188	1	rs10474578	rs259126	38.26	0	HOMER1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	HOMER1
chr19:18622443-22202166	372	3579724	3	rs4808812	rs10412244	11.197	0	HOMER3
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	HOMER3
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	HSP90AB1
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	HSP90AB1
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	HSP90AB1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr13:36707502-103656104	13622	66948603	1	rs3827890	rs1952590	38.726	0	HTR2A
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	HTR2A
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	HTR2A
chr13:47300055-47409034	48	108980	1	rs1539177	rs6314	25.525	0	HTR2A
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	HTR2A
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	IMPDH2
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	IMPDH2
chr3:48801929-49362892	29	560964	1	rs6766238	rs1865741	15.852	0	IMPDH2
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	IMPDH2
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	IQGAP2
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	IQGAP2
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	IQGAP2
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	ITGB1
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	ITGB1
chr10:88874-53366180	12853	53277307	3	cnvi0015449	rs10998465	319.021	0	ITGB1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	ITGB7
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	ITGB7
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	ITGB7
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	ITGB7
chr3:3748218-4590681	268	842464	1	rs901050	rs6802929	33.083	0	ITPR1
chr3:234726-6328081	2293	6093356	3	rs7632811	rs1595039	106.207	0	ITPR1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	ITPR1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	KIAA0090
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	KIAA0090
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	KIAA1683
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	LAMA4
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	LAMA4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	LAMA4
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	LAMA4
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	LAMA4
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	LAMA4
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	LAMA4
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	LRP2BP
chr4:162592024-189861553	6129	27269530	1	rs5005966	rs6853039	63.501	0	LRP2BP
chr4:163766726-189931630	5627	26164905	3	rs10033012	rs10018868	25.326	0	LRP2BP
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	LRP2BP
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	LRRC59
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	LRRC59
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	LRRC59
chr6:31337633-32449411	1650	1111779	1	rs9266433	rs1964995	124.395	0	LTA
chr6:31281438-32874796	-7311	1593359	1	cnvi0006173	rs9469310	36.913	0	LTA
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	LTA
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	LTA
chr6:31289284-32512613	10001	1223330	3	rs9265170	rs35571839	45.035	0	LTA
chr6:31281438-32449411	-7879	1167974	1	cnvi0006173	rs1964995	24.023	0	LTA
chr6:31281438-32354428	-8033	1072991	1	cnvi0006173	rs4424066	37.329	0	LTA
chr6:31289284-31960770	9811	671487	3	rs9265170	cnvi0006385	29.628	0	LTA
chr6:26430981-31878433	-8001	5447453	1	rs2893848	rs519417	55.651	0	LTA
chr6:29253756-32671521	2267	3417766	1	rs9468508	rs9275439	51.553	0	LTA
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	LTA
chr6:30475431-32449411	-7687	1973981	3	cnvi0005997	rs1964995	153.275	0	LTA
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	LYAR
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	LYN
chr8:56843930-57035027	38	191098	1	rs10091244	rs4386955	14.478	0	LYN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	LYN
chr8:56706994-56851419	31	144426	3	rs2316972	rs1126327	1.58	0	LYN
chr8:43235525-66712108	3632	23476584	3	rs10091311	rs7001138	58.838	0	LYN
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	MAP4
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	MAP4
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	MAP4
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	MAPK1
chr17:43657921-44354796	88	696876	3	rs9898857	rs2732700	21.196	0	MAPT
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	MAPT
chr17:43657921-44064851	65	406931	3	rs9898857	rs8079215	86.447	0	MAPT
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	MAPT
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	MARK4
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	MARK4
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	MARK4
chr18:25388300-75954881	11539	50566582	1	rs11083228	rs1876021	39.235	0	MC4R
chr18:26162481-67193217	9255	41030737	1	rs12458903	rs9961907	31.327	0	MC4R
chr18:1583633-58142042	11490	56558410	3	rs9945988	rs1560399	3.736	0	MC4R
chr18:26550830-63713914	8241	37163085	1	rs16945738	rs2715304	17.922	0	MC4R
chr18:46516210-68441007	5088	21924798	1	rs7229153	rs1282652	51.891	0	MC4R
chr18:44788908-78015180	8492	33226273	3	rs9944807	rs12960632	579.2	0	MC4R
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	MRPL14
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	MRPL14
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	MRPL14
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	MRPS16
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	MRPS16
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	MRPS16
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	MRPS16

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	MRPS16
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	MTHFD1
chr14:64926097-65063315	19	137219	1	rs2281603	rs10134770	14.377	0	MTHFD1
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	MTHFD1
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	MTNR1A
chr4:162592024-189861553	6129	27269530	1	rs5005966	rs6853039	63.501	0	MTNR1A
chr4:163766726-189931630	5627	26164905	3	rs10033012	rs10018868	25.326	0	MTNR1A
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	MTNR1A
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	MTNR1B
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	MTNR1B
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	MTNR1B
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	MTNR1B
chr11:81251505-103234729	4842	21983225	3	rs7935238	rs1913462	26.176	0	MTNR1B
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	MTNR1B
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	MX1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	MX1
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	MX1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	MX1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	MX1
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	MX1
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	MYC
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	MYC
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	MYC
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	MYC
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	MYO6
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	MYO6
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	MYO6

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	MYO6
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	MYO6
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	MYO6
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	MYO6
chr6:75600804-78928379	602	3327576	3	rs7743423	rs1416055	49.19	0	MYO6
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	NANS
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	NANS
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	NANS
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	NANS
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	NCK1
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	NCK1
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	NCK1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	NCK1
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	NCK1
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	NCK1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	NFKBIA
chr14:26018408-44486343	3682	18467936	3	rs10138454	rs9323093	17.669	0	NFKBIA
chr14:35433187-35884639	78	451453	3	rs2273154	rs1012919	170.85	0	NFKBIA
chr14:35760062-35886955	27	126894	4	rs17536892	rs2415290	5.425	0	NFKBIA
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	NFKBIA
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	NMI
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	NMI
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	NMI
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	NMI
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	NMI
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	NPY2R
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	NPY2R

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	NPY2R
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	NPY2R
chr4:126374899-162380016	6166	36005118	1	rs4834042	rs17041092	33.404	0	NPY2R
chr4:137206602-158430547	3577	21223946	3	rs1597600	rs12507865	83.533	0	NPY2R
chr4:155739051-165849854	1997	10110804	1	rs7691720	rs10005938	26.215	0	NPY2R
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	NPY2R
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	NUDC
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	NUDC
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	OPRD1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	OPRD1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PAFAH1B3
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PAFAH1B3
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	PCBP1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	PCBP1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	PCBP1
chr2:69979290-70389900	49	410611	3	rs10177224	rs11677137	16.309	0	PCBP1
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	PCBP1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	PCBP3
chr21:47091361-47226895	18	135535	1	rs2838973	rs2839002	14.709	0	PCBP3
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	PCBP3
chr21:44839153-47856106	674	3016954	1	rs2838302	rs2236616	38.158	0	PCBP3
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	PCBP3
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	PCBP3
chr21:46381900-48098560	448	1716661	1	rs8132265	cnvi0019195	712.68	0	PCBP3
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	PCBP3
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	PCBP3
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	PCDHA4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	PCDHA4
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	PCDHA4
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	PCDHA4
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	PCMT1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	PCMT1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	PCMT1
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	PCMT1
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	PCMT1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PDCD5
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PDCD5
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	PDE1B
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	PDE1B
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	PDE1B
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	PDE1B
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	PDE1C
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	PDE1C
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	PDE1C
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	PDE1C
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	PDE1C
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	PDE6G
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	PDE6G
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	PGM1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	PGM1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	PGM1
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	PHKB
chr16:29441284-33923125	585	4481842	3	rs7206789	rs4043755	42.437	0	PHKG2
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	PHKG2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	PICK1
chr3:166503411-190576461	4854	24073051	1	rs11925936	rs1393054	31.414	0	PIK3CA
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	PIK3CA
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	PIK3CA
chr3:164955741-191742104	5741	26786364	1	rs2218152	rs9835019	52.438	0	PIK3CA
chr3:177912894-197551411	4129	19638518	3	rs9290640	rs1273562	185.507	0	PIK3CA
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	PIK3R1
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	PIK3R1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	PIK3R1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	PLA2G7
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	PLA2G7
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	PLA2G7
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	PLCB1
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	PLCB1
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	PLCB1
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	PLCB3
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	PLCB3
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	PLCB3
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PLCB3
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	PLCG2
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	PLCG2
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	PLCG2
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	PPIH
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	PPIH
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PPP2R1A
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	PPP2R1A
chr19:52365654-54612628	524	2246975	3	rs4514789	rs254262	59.657	0	PPP2R1A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PPP2R1A
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	PRDX1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	PRDX1
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	PRKCA
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	PRKCA
chr17:59314257-66170047	1135	6855791	1	rs758467	rs4558468	71.379	0	PRKCA
chr17:61016209-66240093	890	5223885	1	rs1588368	rs11658645	37.309	0	PRKCA
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	PRKCA
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	PRLHR
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	PRLHR
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	PRLHR
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	PRLHR
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PRMT1
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	PRMT1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PRMT1
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	PRPSAP1
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	PRPSAP1
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	PSAT1
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	PSAT1
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	PSAT1
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	PSAT1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	PSEN1
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	PSEN1
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	PSMA1
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PSMA1
chr14:90716051-90836365	22	120315	1	rs11159958	rs11626241	15.241	0	PSMC1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	PSMC1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	PSMC1
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	PSMC1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	PSMD1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	PSMD1
chr2:231927569-232035793	10	108225	1	rs3815844	rs2032953	14.229	0	PSMD1
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	PSMD1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	PSMD11
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	PSMD11
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PSMD13
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	PSMD6
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	PSMD6
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	PSMD6
chr14:22513116-32242747	1997	9729632	1	rs4982546	rs17098165	31.673	0	PSME1
chr14:22349686-25012115	755	2662430	1	rs994827	rs7142675	27.602	0	PSME1
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	PSME1
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	PXN
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	PXN
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	PXN
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	PXN
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	PYGL
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	PYGL
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	PYGM
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	PYGM
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	PYGM
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PYGM
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	QRICH2
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	QRICH2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	RALA
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	RALA
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	RALA
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	RALA
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	RALA
chr22:18877787-21462353	613	2584567	1	rs2543958	rs140392	772.063	0	RANBP1
chr22:18907405-21465780	610	2558376	3	rs9618419	rs11703181	1799.961	0	RANBP1
chr22:19601238-20241160	201	639923	3	rs8135473	rs1567871	11.687	0	RANBP1
chr22:19613784-21462353	380	1848570	3	rs5993743	rs140392	153.49	0	RANBP1
chr22:18877787-21462353	512	2584567	1	rs2543958	rs140392	1596.687	0	RANBP1
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	RANBP1
chr13:36707502-103656104	13622	66948603	1	rs3827890	rs1952590	38.726	0	RAP2A
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	RAP2A
chr13:87746779-104646511	3908	16899733	3	rs9301986	rs17414312	27.724	0	RAP2A
chr13:90018392-105190802	4136	15172411	1	rs7335222	rs11841281	42.954	0	RAP2A
chr13:65193124-115053155	12025	49860032	3	rs9598811	rs7327124	78.057	0	RAP2A
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	RCC1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	RCC1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	RCC2
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	RCC2
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	RGS12
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RGS2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RGS2
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	RGS2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	RGS2
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	RGS2
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	RGS2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS2
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	RGS2
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	RHOA
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	RHOA
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	RHOA
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	RIF1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	RIF1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	RIF1
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	RIF1
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	RIF1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	RPA2
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	RPA2
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	RPLP2
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	RPLP2
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	RPN2
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	RPN2
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	RPN2
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	RPN2
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	RPS14
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	RPS14
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	RPS14
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	RPS14
chr11:3906740-4201641	55	294902	1	rs11600857	rs2044138	27.361	0	RRM1
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	RRM1
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	RRM1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	RUVBL2
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	RUVBL2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	RUVBL2
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	RYR1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	RYR1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RYR2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RYR2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	RYR2
chr1:237570457-237675464	37	105008	1	rs4659495	rs2618721	15.007	0	RYR2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RYR2
chr1:237584925-237904870	86	319946	1	rs4593814	rs10925504	31.95	0	RYR2
chr1:236848751-249219320	3293	12370570	3	rs819666	cnvi0018731	920.725	0	RYR2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	S100A6
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	S100A6
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	S100A6
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	S100A6
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	SACS
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	SACS
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	SACS
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	SARS
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	SARS
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	SARS
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	SARS
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	SCTR
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	SCTR
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	SCTR
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	SCTR
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	SCTR
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	SDC3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	SDC3
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	SELE
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	SELE
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	SELE
chr1:169556446-171300348	340	1743903	1	rs9332480	rs7541160	32.81	0	SELE
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	SELE
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	428.177	0	SERPINB9
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	80.695	0	SERPINB9
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	63.572	0	SERPINB9
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	53.123	0	SERPINB9
chr6:1175965-29899147	43	28723183	0	rs1611522	rs2394704	52.089	0	SERPINB9
chr6:1177990-29899147	39	28721158	0	rs2428530	rs2394704	44.381	0	SERPINB9
chr6:2585208-31281876	-2	28696669	1	rs1634746	rs1634747	31.615	0	SERPINB9
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	390.234	0	SERPINB9
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	34.598	0	SERPINB9
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	31.699	0	SERPINB9
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	43.568	0	SERPINB9
chr6:181089-30430875	1806	30249787	3	rs1535053	rs35792611	80.394	0	SERPINB9
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	SET
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	SET
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	SET
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	SETD4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	SETD4
chr21:36927793-37647438	142	719646	3	rs2205031	rs9980084	187.28	0	SETD4
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	SETD4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	SETD4
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	SETD4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	SETD4
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	SF3B14
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	SF3B14
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	SHANK1
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	SHANK1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	SHANK1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	SHBG
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	SIAH1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	SLC2A1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	SLC2A1
chr5:141659-19010008	4662	18868350	3	rs11741126	rs4642370	50.124	0	SLC6A3
chr5:506051-4746181	1345	4240131	3	rs6864158	rs7716294	447.942	0	SLC6A3
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	SNCA
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	SNCA
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	SNCA
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	SNCA
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	SNCA
chr4:89603085-113991140	4018	24388056	3	rs2972038	rs2279892	28.405	0	SNCA
chr4:90618264-90784528	33	166265	1	rs17286290	rs2736994	16.242	0	SNCA
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	SNCA
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	SNRPB2
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	SNRPB2
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	SNRPB2
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	SNRPB2
chr18:25388300-75954881	11539	50566582	1	rs11083228	rs1876021	39.235	0	SOCS6
chr18:46516210-68441007	5088	21924798	1	rs7229153	rs1282652	51.891	0	SOCS6
chr18:64480206-70125971	1534	5645766	3	rs10516001	rs1347013	65.248	0	SOCS6

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr18:65585580-69281510	1074	3695931	1	rs11875790	rs8090683	111.579	0	SOCS6
chr18:62041997-76047493	3846	14005497	1	rs1421538	rs8085865	33.212	0	SOCS6
chr18:44788908-78015180	8492	33226273	3	rs9944807	rs12960632	579.2	0	SOCS6
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	SOCS7
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	SOCS7
chr15:44763598-47394943	502	2631346	3	rs7172106	rs4095484	142.088	0	SORD
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	SORD
chr15:43392075-66051345	4963	22659271	3	rs8028608	rs6494537	59.842	0	SORD
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	SRC
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	SRC
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	SRC
chr20:35942718-36175566	43	232849	3	rs6104528	rs4810841	2.708	0	SRC
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	SRC
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	STAU1
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	STAU1
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	STAU1
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	STAU1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	STRAP
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	STRAP
chr12:8171838-32535863	5853	24364026	3	rs11609309	rs7963182	23.697	0	STRAP
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	STRAP
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	STX12
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	STX12
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	SYK
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	SYK
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	SYK
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	SYK

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	TBCA
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	TBCA
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	TBCA
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	TBXA2R
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	TBXA2R
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	TBXA2R
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	TCP1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	TCP1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	TCP1
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	TCP1
chr6:151495387-165969396	3761	14474010	3	rs9322304	rs1022180	22.826	0	TCP1
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	TCP1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	TEAD3
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	TEAD3
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	TEAD3
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	TFAM
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	TFAM
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	TFAM
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	TFAM
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	TFAM
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	TFAM
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	TGM2
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	TGM2
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	TGM2
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	TGM2
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	TJP1
chr15:29659013-30239328	126	580316	1	rs4779618	rs12905328	41.602	0	TJP1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr15:20058438-32544679	2394	12486242	3	rs12591240	cnvi0018163	296.82	0	TJP1
chr15:22267462-32461463	2232	10194002	3	rs4123826	rs286103	218.215	0	TJP1
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	TK1
chr17:75730493-79302149	880	3571657	3	rs7210773	rs2864474	14.319	0	TK1
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	TK1
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	TLR10
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	TLR10
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	TLR10
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	TLR10
chr3:166503411-190576461	4854	24073051	1	rs11925936	rs1393054	31.414	0	TNIK
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	TNIK
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	TNIK
chr3:145967173-173899890	4912	27932718	3	rs9863647	rs7618997	46.396	0	TNIK
chr3:164955741-191742104	5741	26786364	1	rs2218152	rs9835019	52.438	0	TNIK
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	TNIK
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	TPI1
chr9:139492789-140913833	196	1421045	1	rs28485548	cnvi0002661	28.211	0	TRAF2
chr9:139492789-140212642	109	719854	3	rs28485548	rs13295516	12.464	0	TRAF2
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	TRAF2
chr9:139725120-140176250	50	451131	1	rs2811750	rs28576426	24.435	0	TRAF2
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	TRMT112
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	TRMT112
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	TRMT112
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	TRMT112
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	TUBA1A
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	TUBA1A
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	TUBA1A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	TUBA1A
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	TUBA1B
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	TUBA1B
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	TUBA1B
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	TUBA1B
chr6:10123365-31221039	-3135	21097675	1	rs2181334	rs4416711	318.459	0	TUBB
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	TUBB
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	428.177	0	TUBB
chr6:2585208-31281876	-2	28696669	1	rs1634746	rs1634747	31.615	0	TUBB
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	TUBB
chr6:19044000-31286381	-6774	12242382	1	rs6922929	rs9265057	31.384	0	TUBB
chr6:24697388-31341340	-8293	6643953	1	rs2092404	rs9266515	38.794	0	TUBB
chr6:26430981-31878433	-8001	5447453	1	rs2893848	rs519417	55.651	0	TUBB
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	390.234	0	TUBB
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	34.598	0	TUBB
chr6:29253756-32671521	2267	3417766	1	rs9468508	rs9275439	51.553	0	TUBB
chr6:19044000-31286381	-6774	12242382	0	rs6922929	rs9265057	33.119	0	TUBB
chr6:30475431-32449411	-7687	1973981	3	cnvi0005997	rs1964995	153.275	0	TUBB
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	TUBG1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	TUBG1
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	TXN
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	TXN
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	TXN
chr18:10274-30780701	6393	30770428	3	cnvi0008694	rs271534	338.777	0	TYMS
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	UBQLN4
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	UBQLN4
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	UBQLN4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	UBQLN4
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	UCHL1
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	UCHL1
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	UCHL1
chr4:39472311-63464732	3456	23992422	3	rs2687975	rs4403080	120.672	0	UCHL1
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	UCHL1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	VHL
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	VIPR1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	VIPR1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	VIPR1
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	YWHAQ
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	ZAP70
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	ZAP70
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	ZAP70
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	ZAP70
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	ZAP70

Table 3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	ABI3
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	ABI3
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	ABI3
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	ACAT1
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	ACAT1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	ACAT1
chr11:98062720-121890280	5422	23827561	1	rs6589308	rs1944465	29.075	0	ACAT1
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	ACAT1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	ACAT2
chr6:151495387-165969396	3761	14474010	3	rs9322304	rs1022180	22.826	0	ACAT2
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	ACAT2
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	ACAT2
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	ACAT2
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	ACAT2
chr17:32104675-32822032	239	717358	4	rs6505377	rs213135	113.523	0	ACCN1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	ACCN1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	ACCN1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	ACCN2
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	ACCN2
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	ACCN2
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	ACCN2
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	ACP1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	ACTA1
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	ACTA1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	ACTA1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	ACTA1
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	ACTA1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ACTA1
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	ACTA1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	ACTB
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	ACTN2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	ACTN2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	ACTN2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ACTN2
chr1:236848751-249219320	3293	12370570	3	rs819666	cnvi0018731	920.725	0	ACTN2
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	ACTR2
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	ACTR2
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	ACTR2
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	ACTR2
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	ADA
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	ADA
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	ADA
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	ADA
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	ADCY1
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	ADCY1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	ADCY1
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	ADCY1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	ADCY1
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	ADCY5
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	ADCY5
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	ADCY5
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	ADCY5

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	ADCY5
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	ADCY5
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	ADCY8
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	ADCY8
chr8:130808973-134279601	923	3470629	3	rs7823788	rs2976574	37.758	0	ADCY8
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	ADCY8
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	ADCY8
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	ADCYAP1R1
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	ADCYAP1R1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	ADCYAP1R1
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	ADCYAP1R1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	ADCYAP1R1
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	ADD1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	ADD2
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	ADD2
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	ADD2
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	ADD2
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	ADD3
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	ADD3
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	ADD3
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	ADD3
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	ADD3
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	ADORA1
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	ADORA1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	ADORA1
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	ADORA1
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	ADORA1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	ADORA1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ADORA1
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	ADORA1
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	ADRA1B
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	ADRA1B
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	ADRA1B
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	ADRA2A
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	ADRA2A
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	ADRA2A
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	ADRA2A
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	ADRA2A
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	ADRA2C
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	ADRB2
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	ADRB2
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	ADRB2
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	ADRB2
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	ADRBK1
chr11:66898492-67136981	22	238490	1	rs11227699	rs3781941	17.955	0	ADRBK1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	ADRBK1
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	ADRBK1
chr11:66933410-67046501	14	113092	1	rs1253784	rs12274774	5.288	0	ADRBK1
chr4:6487726-29802167	5076	23314442	3	rs13117055	rs16882325	48.087	0	AFAP1
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	AFAP1
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	AGTR1
chr3:145967173-173899890	4912	27932718	3	rs9863647	rs7618997	46.396	0	AGTR1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	AGTR1
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	AGTR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	AGTR1
chr3:148403438-148598058	101	194621	1	rs201944	rs6762776	28.127	0	AGTR1
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	AGTR1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	AHCYL1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	AHCYL1
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	AHCYL1
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	AHCYL1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	AKAP12
chr6:151495387-165969396	3761	14474010	3	rs9322304	rs1022180	22.826	0	AKAP12
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	AKAP12
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	AKAP12
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	AKAP12
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	AKAP12
chr15:86103176-86282934	60	179759	1	rs16941432	rs11630179	16.029	0	AKAP13
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	AKAP13
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	AKAP13
chr15:85877017-86143504	76	266488	3	rs6497007	rs1551971	67.92	0	AKAP13
chr15:85607670-86109582	80	501913	1	rs11073917	rs8034125	17.186	0	AKAP13
chr15:66108544-102427006	8615	36318463	3	cnvi0007613	rs11632620	159.164	0	AKAP13
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	AKAP5
chr14:64926097-65063315	19	137219	1	rs2281603	rs10134770	14.377	0	AKAP5
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	AKAP5
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	AKAP9
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	AKAP9
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	AKAP9
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	AKAP9
chr7:84302877-110993169	5183	26690293	3	rs4338048	rs10254893	203.09	0	AKAP9

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	AKR1C3
chr10:88874-53366180	12853	53277307	3	cnvi0015449	rs10998465	319.021	0	AKR1C3
chr14:105154105-105277209	16	123105	1	rs3809456	rs4983559	17.771	0	AKT1
chr14:105163532-105277209	15	113678	1	rs7140154	rs4983559	13.231	0	AKT1
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	AKT1
chr14:104921616-105268228	55	346613	1	rs11622864	rs4983387	29.892	0	AKT1
chr14:105163532-106766841	179	1603310	3	rs7140154	rs8010546	35.65	0	AKT1
chr14:103847274-107188715	464	3341442	3	rs8020912	rs4280141	104.64	0	AKT1
chr16:29441284-33923125	585	4481842	3	rs7206789	rs4043755	42.437	0	ALDOA
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	ALDOA
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	ANK2
chr4:89603085-113991140	4018	24388056	3	rs2972038	rs2279892	28.405	0	ANK2
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	ANK2
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	ANK2
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	ANK2
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	ANK2
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	ANK2
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	ANKRD24
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	ANKRD24
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	ANXA2
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	ANXA2
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	ANXA2
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	ANXA2
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	ANXA2
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	ANXA2
chr15:43392075-66051345	4963	22659271	3	rs8028608	rs6494537	59.842	0	ANXA2
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	ANXA6

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	ANXA6
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	ANXA6
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	ANXA7
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	ANXA7
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	ANXA7
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	ANXA7
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	ANXA7
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	APLP2
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	APLP2
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	APP
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	APP
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	APP
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	APP
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	APP
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	APP
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	APTX
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	APTX
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	APTX
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	AQP1
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	AQP1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	AQP1
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	AQP1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	AQP1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	ARF1
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	ARF1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	ARF1
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	ARF1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	ARF1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ARF1
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	ARF1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	ARF3
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	ARF3
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	ARF3
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	ARF3
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	ARHGAP1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	ARHGAP1
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	ARHGAP1
chr11:46370767-47132132	68	761366	1	rs876701	rs7108434	27.248	0	ARHGAP1
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	ARHGAP1
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	ARHGAP24
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	ARHGAP24
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	ARHGAP24
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	ARHGAP24
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	ARHGAP24
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	ARHGAP24
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	ARHGEF1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	ARHGEF1
chr5:39526068-67275356	4441	27749289	1	rs16869031	rs999826	77.848	0	ARL15
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	ARL15
chr5:52884614-53418318	145	533705	1	rs524289	rs9292039	31.471	0	ARL15
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	ARL15
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	ARL3
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	ARL3
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	ARL3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	ARL3
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	ARL3
chr3:234726-6328081	2293	6093356	3	rs7632811	rs1595039	106.207	0	ARL8B
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	ARL8B
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	ARRB1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	ARRB1
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	ARRB1
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	ARRB1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	ARRB2
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	ASCL2
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	ASCL2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	ATF3
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	ATF3
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	ATF3
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	ATF3
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	ATF3
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	ATF3
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ATF3
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	ATF3
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	ATN1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	ATP1B1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	ATP1B1
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	ATP1B1
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	ATP1B1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	ATP2B1
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	ATP2B1
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	ATP2B1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:84589672-93258498	1292	8668827	1	rs1482434	rs11106721	43.425	0	ATP2B1
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	ATP2B1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	ATP2B2
chr6:10123365-31221039	-3135	21097675	1	rs2181334	rs4416711	318.459	0	ATXN1
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	428.177	0	ATXN1
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	ATXN1
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	53.123	0	ATXN1
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	80.695	0	ATXN1
chr6:1177990-29899147	39	28721158	0	rs2428530	rs2394704	44.381	0	ATXN1
chr6:1175965-29899147	43	28723183	0	rs1611522	rs2394704	52.089	0	ATXN1
chr6:2585208-31281876	-2	28696669	1	rs1634746	rs1634747	31.615	0	ATXN1
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	63.572	0	ATXN1
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	34.598	0	ATXN1
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	390.234	0	ATXN1
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	31.699	0	ATXN1
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	43.568	0	ATXN1
chr6:181089-30430875	1806	30249787	3	rs1535053	rs35792611	80.394	0	ATXN1
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	ATXN3
chr14:92416364-92538953	29	122590	1	rs2498852	rs7144492	16.714	0	ATXN3
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	ATXN3
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	ATXN3
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	ATXN7
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	ATXN7
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	ATXN7
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	ATXN7L3
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	ATXN7L3
chr12:63576379-63675857	23	99479	1	rs7302283	rs4763075	12.637	29789	AVPR1A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	AVPR1A
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	AVPR1A
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	AVPR1A
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	AVPR1A
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	AVPR1A
chr9:33141752-33260632	23	118881	3	rs2770807	rs706121	26.37	0	B4GALT1
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	B4GALT1
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	B4GALT1
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	B4GALT1
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	BANK1
chr4:89603085-113991140	4018	24388056	3	rs2972038	rs2279892	28.405	0	BANK1
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	BANK1
chr4:102178963-102407109	19	228147	1	rs2850965	rs1863575	20.006	0	BANK1
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	BANK1
chr4:102974061-104493370	290	1519310	3	rs10516490	rs2588907	29.673	0	BANK1
chr4:102715888-102961880	45	245993	1	rs4522865	rs6821429	17.305	0	BANK1
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	BANK1
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	BANK1
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	BANK1
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	BCAR1
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	BCAR1
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	BCAR1
chr18:25388300-75954881	11539	50566582	1	rs11083228	rs1876021	39.235	0	BCL2
chr18:46516210-68441007	5088	21924798	1	rs7229153	rs1282652	51.891	0	BCL2
chr18:26550830-63713914	8241	37163085	1	rs16945738	rs2715304	17.922	0	BCL2
chr18:26162481-67193217	9255	41030737	1	rs12458903	rs9961907	31.327	0	BCL2
chr18:44788908-78015180	8492	33226273	3	rs9944807	rs12960632	579.2	0	BCL2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	BDKRB1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	BDKRB1
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	BDKRB1
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	BDKRB2
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	BDKRB2
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	BDKRB2
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	BMI1
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	BMI1
chr10:88874-53366180	12853	53277307	3	cnvi0015449	rs10998465	319.021	0	BMI1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	BMPR2
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	BMPR2
chr2:203285157-203545198	26	260042	1	rs6747299	rs6709463	22.241	0	BMPR2
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	BMPR2
chr2:185050218-212752193	4583	27701976	1	rs1526196	rs6727114	45.31	0	BMPR2
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	BMPR2
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	BOC
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	BOC
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	BOC
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	BOC
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	BOC
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	BOC
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	BPGM
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	BPGM
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	BPGM
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	BPGM
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	BRCA1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	BRCA1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	BRCA2
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	BRCA2
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	BRCA2
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	BRD7
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	BRF2
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	BRF2
chr8:25304020-43159151	3371	17855132	3	rs10503771	cnvi0018779	263.504	0	BRF2
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	BRMS1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	BRMS1
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	BRMS1
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	BRMS1
chr19:1130986-2128054	143	997069	1	rs10413074	rs1017084	25.799	0	BTBD2
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	BTBD2
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	BTBD2
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	BTBD2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	BTG2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	BTG2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	BTG2
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	BTG2
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	BTG2
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	BTG2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	BTG2
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	BTG2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	C1orf116
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	C1orf116
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	C1orf116
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	C1orf116

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	C1orf116
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	C1orf116
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	C1orf116
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	C1orf116
chr17:5233817-5398033	30	164217	1	rs12600505	rs9913432	15.632	0	C1QBP
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	C1QBP
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	C20orf20
chr20:54870769-62912463	2390	8041695	3	rs6069696	rs6062363	249.708	0	C20orf20
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	C20orf24
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	C20orf24
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	C20orf24
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	C20orf24
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	C4orf17
chr4:89603085-113991140	4018	24388056	3	rs2972038	rs2279892	28.405	0	C4orf17
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	C4orf17
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	C4orf17
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	C4orf17
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	C4orf17
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	C4orf17
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	C5orf25
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	C5orf25
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	C7orf25
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	C7orf25
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	C7orf25
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	C7orf25
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	C7orf25
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	C9orf25

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	C9orf25
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	C9orf25
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	C9orf25
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	CA8
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	CA8
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	CA8
chr8:60494752-60667231	25	172480	1	rs12674637	rs6471803	14.25	434192	CA8
chr8:43235525-66712108	3632	23476584	3	rs10091311	rs7001138	58.838	0	CA8
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	CABIN1
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	CABP1
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	CABP1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	CABP1
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	CABP1
chr9:139492789-140913833	196	1421045	1	rs28485548	cnvi0002661	28.211	0	CACNA1B
chr9:139821068-141105225	163	1284158	3	rs3750512	rs11559363	55.611	0	CACNA1B
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	CACNA1C
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	CACYBP
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	CACYBP
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	CACYBP
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CACYBP
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	CACYBP
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	CALB2
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	CALB2
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	CALB2
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	CALCR
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	CALCR
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	CALCR

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	CALCR
chr7:84302877-110993169	5183	26690293	3	rs4338048	rs10254893	203.09	0	CALCR
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	CALD1
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	CALD1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	CALD1
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	CALD1
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	CALM1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	CALM1
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	CALM1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	CALM2
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	CALM2
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	CALM2
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	CALM2
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	CALM3
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	CALM3
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	CALM3
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	CALM3
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	CALM3
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	CALM3
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	CAMK1
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	CAMK2A
chr5:149480879-149638360	72	157482	3	rs13362413	rs4958445	6.487	0	CAMK2A
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	CAMK2A
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	CAMK2A
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	CAMK2A
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	CAMK2B
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	CAMK2B

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	CAMK2B
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	CAMK2B
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	CAMK2B
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	CAMK2G
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	CAMK2G
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	CAMK2G
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	CAMK2G
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	CAMK2G
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	CAMK4
chr5:108979318-132114847	4575	23135530	1	rs31595	rs30514	35.063	0	CAMK4
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	CAMK4
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	CAMK4
chr5:80735161-125293366	8499	44558206	1	rs1541830	rs327816	52.167	0	CAMK4
chr5:108284342-111242002	627	2957661	1	rs3797817	rs17133870	44.164	0	CAMK4
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	CAMK4
chr17:3760621-3910613	44	149993	3	rs218722	rs1105936	4.306	0	CAMKK1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	CAMKK1
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	CAMKK2
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	CAMKK2
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	CAMKK2
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	CAMKK2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	CAPN2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	CAPN2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	CAPN2
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	CAPN2
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	CAPN2
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	CAPN2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CAPN2
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	CAPN2
chr4:163766726-189931630	5627	26164905	3	rs10033012	rs10018868	25.326	0	CASP3
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	CASP3
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	CASP3
chr4:162592024-189861553	6129	27269530	1	rs5005966	rs6853039	63.501	0	CASP3
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	CASP3
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	CASP6
chr4:89603085-113991140	4018	24388056	3	rs2972038	rs2279892	28.405	0	CASP6
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	CASP6
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	CASP6
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	CASP6
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	CASP6
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	CASP6
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	CASP7
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	CASP7
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	CASP7
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	CASP7
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	CASP7
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	CASP8
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	CASP8
chr2:201924078-202178089	27	254012	3	rs6737556	rs12986657	7.613	0	CASP8
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	CASP8
chr2:185050218-212752193	4583	27701976	1	rs1526196	rs6727114	45.31	0	CASP8
chr2:201988238-202111380	11	123143	1	rs7583529	rs3769825	18.612	0	CASP8
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	CASP8
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	CASR

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	CASR
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	CASR
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	CASR
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	CASR
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	CASR
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	CAV1
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	CAV1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	CAV1
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	CAV1
chr7:109628488-125717914	2698	16089427	1	cnvi0014315	rs1582264	33.443	0	CAV1
chr7:111385084-118923413	1217	7538330	3	rs718845	rs11978545	371.267	0	CAV1
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	CBL
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	CBL
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	CBL
chr11:98062720-121890280	5422	23827561	1	rs6589308	rs1944465	29.075	0	CBL
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	CBL
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	CBX1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	CBX1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	CBX1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	CCDC106
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	CCNB1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	CCNB1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	CCNB1
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	CCND1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	CCND1
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	CCND1
chr11:67086298-74446791	1348	7360494	3	rs1944096	rs7103136	173.017	0	CCND1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	CCNE1
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	CCR4
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	CCR4
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	CCR5
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	CCR5
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	CCR5
chr12:7383187-8099302	149	716116	1	rs7962099	rs1473164	74.227	0	CD163
chr12:7631883-8692843	157	1060961	1	rs6488336	rs10841856	50.943	0	CD163
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	CD163
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	CD5
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	CD5
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	CD5
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	CD5
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	CD9
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	CDC42
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	CDC42
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	CDKN2C
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	CDKN2C
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	CETN3
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	CETN3
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	CETN3
chr5:84160703-104650005	3339	20489303	1	rs6860783	rs560688	92.914	0	CETN3
chr5:80735161-125293366	8499	44558206	1	rs1541830	rs327816	52.167	0	CETN3
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	CETN3
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	CFTR
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	CFTR
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	CFTR

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	CFTR
chr7:109628488-125717914	2698	16089427	1	cnvi0014315	rs1582264	33.443	0	CFTR
chr7:117170774-118611141	254	1440368	1	rs1429566	rs12531411	29.859	0	CFTR
chr7:111385084-118923413	1217	7538330	3	rs718845	rs11978545	371.267	0	CFTR
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	CHAT
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	CHAT
chr10:46928388-52437780	1060	5509393	3	rs7915055	rs3001866	425.826	0	CHAT
chr10:88874-53366180	12853	53277307	3	cnvi0015449	rs10998465	319.021	0	CHAT
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	CHD3
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	CHGB
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	CHGB
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	CHP
chr15:32939946-43104406	2544	10164461	3	rs12594777	rs13380301	32.942	0	CHP
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	CHRM2
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	CHRM2
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	CHRM2
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	CHRM2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	CHRM3
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	CHRM3
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	CHRM3
chr1:238655362-242087644	1078	3432283	3	rs2392861	rs4658565	806.215	0	CHRM3
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CHRM3
chr1:236848751-249219320	3293	12370570	3	rs819666	cnvi0018731	920.725	0	CHRM3
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	CHUK
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	CHUK
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	CHUK
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	CHUK

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	CHUK
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	CIC
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	CIC
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	CISH
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	CISH
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	CISH
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	CKMT2
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	CKMT2
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	CKMT2
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	CLTB
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	CLTB
chr8:2365648-32608792	10334	30243145	3	rs2100623	rs3757934	31.188	0	CLU
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	CLU
chr8:25304020-43159151	3371	17855132	3	rs10503771	cnvi0018779	263.504	0	CLU
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	CMIP
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	CMIP
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	CMIP
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	CNN1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	CNN1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	CNP
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	CNP
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	CNR1
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	CNR1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	CNR1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	CNR1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	CNR1
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	CNR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	CNR1
chr6:79198069-99893938	4062	20695870	3	rs1321584	rs4504482	200.961	0	CNR1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	CNR2
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	CNR2
chr17:54276856-55773806	409	1496951	1	rs9911321	rs1544508	34.437	0	COIL
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	COIL
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	COIL
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	COIL
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	COPB2
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	COPB2
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	COPB2
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	COPB2
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	COPB2
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	COPB2
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	CORO1B
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	CORO1B
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	CORO1B
chr11:67186000-67288594	13	102595	1	rs1790733	rs2276118	16.171	0	CORO1B
chr11:67086298-74446791	1348	7360494	3	rs1944096	rs7103136	173.017	0	CORO1B
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	COX17
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	COX17
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	COX17
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	COX17
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	COX17
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	COX17
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	CPE
chr4:163766726-189931630	5627	26164905	3	rs10033012	rs10018868	25.326	0	CPE

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	CPE
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	CPE
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	CPE
chr4:162592024-189861553	6129	27269530	1	rs5005966	rs6853039	63.501	0	CPE
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	CPE
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	CRADD
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	CRADD
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	CRADD
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	CRADD
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	CREM
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	CREM
chr10:88874-53366180	12853	53277307	3	cnvi0015449	rs10998465	319.021	0	CREM
chr17:43657921-44354796	88	696876	3	rs9898857	rs2732700	21.196	0	CRHR1
chr17:43657921-44064851	65	406931	3	rs9898857	rs8079215	86.447	0	CRHR1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	CRHR1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	CRHR1
chr2:46812338-46995893	51	183556	1	rs1376406	rs13424717	14.574	0	CRIPT
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	CRIPT
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	CRIPT
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	CRIPT
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	CRIPT
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	CSNK2A1
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	CSNK2A1
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	CSNK2A1
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	CSNK2A2
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	CSNK2B
chr6:31289284-32512613	10001	1223330	3	rs9265170	rs35571839	45.035	0	CSNK2B

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	CSNK2B
chr6:31281438-32449411	-7879	1167974	1	cnvi0006173	rs1964995	24.023	0	CSNK2B
chr6:31337633-32449411	1650	1111779	1	rs9266433	rs1964995	124.395	0	CSNK2B
chr6:31281438-32354428	-8033	1072991	1	cnvi0006173	rs4424066	37.329	0	CSNK2B
chr6:31289284-31960770	9811	671487	3	rs9265170	cnvi0006385	29.628	0	CSNK2B
chr6:31281438-32874796	-7311	1593359	1	cnvi0006173	rs9469310	36.913	0	CSNK2B
chr6:26430981-31878433	-8001	5447453	1	rs2893848	rs519417	55.651	0	CSNK2B
chr6:29253756-32671521	2267	3417766	1	rs9468508	rs9275439	51.553	0	CSNK2B
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	CSNK2B
chr6:30475431-32449411	-7687	1973981	3	cnvi0005997	rs1964995	153.275	0	CSNK2B
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	CTNNB1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	CTNNB1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	CTNNB1
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	CYCS
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	CYCS
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	CYCS
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	CYCS
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	CYCS
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	DAPK3
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	DAPK3
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	DAPK3
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	DBN1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	DBN1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	DCN
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	DCN
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	DCN
chr12:84589672-93258498	1292	8668827	1	rs1482434	rs11106721	43.425	0	DCN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	DCN
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	DDIT4
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	DDIT4
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	DDIT4
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	DDIT4
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	DDIT4
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	DDX5
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	DDX5
chr17:61016209-66240093	890	5223885	1	rs1588368	rs11658645	37.309	0	DDX5
chr17:59314257-66170047	1135	6855791	1	rs758467	rs4558468	71.379	0	DDX5
chr17:59205829-62530143	453	3324315	3	rs7222210	rs9897203	107.455	0	DDX5
chr8:2365648-32608792	10334	30243145	3	rs2100623	rs3757934	31.188	0	DEFB1
chr8:6721326-6829085	67	107760	3	rs2738050	rs2738113	19.653	0	DEFB1
chr8:62041-25061807	9818	24999767	3	rs4710857	rs1510758	96.736	0	DEFB1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	DGKD
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	DGKD
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	DGKD
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	DGKZ
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	DGKZ
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	DGKZ
chr11:46370767-47132132	68	761366	1	rs876701	rs7108434	27.248	0	DGKZ
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	DGKZ
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	DHCR7
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	DHCR7
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	DHCR7
chr11:67086298-74446791	1348	7360494	3	rs1944096	rs7103136	173.017	0	DHCR7
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	DIRAS2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	DIRAS2
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	DIRAS2
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	DIRAS2
chr1:231711489-231813134	22	101646	3	rs1765782	rs6541281	42.561	0	DISC1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	DISC1
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	DISC1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	DISC1
chr1:231711489-231813134	28	101646	3	rs1765782	rs6541281	70.39	0	DISC1
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	DISC1
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	DISC1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	DISC1
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	DISC1
chr3:196793858-196910082	10	116225	1	rs6795358	rs9861658	12.924	0	DLG1
chr3:196793858-196993693	16	199836	1	rs6795358	rs406284	14.667	0	DLG1
chr3:196910082-197026927	10	116846	1	rs9861658	rs338217	12.736	0	DLG1
chr3:196793858-196963612	17	169755	1	rs6795358	rs338186	23.577	0	DLG1
chr3:196793858-196935657	12	141800	1	rs6795358	rs34729751	16.088	0	DLG1
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	DLG1
chr3:196793858-196935657	12	141800	1	rs6795358	rs34729751	14.018	0	DLG1
chr3:196838486-197019935	12	181450	1	rs1356612	rs1741949	16.796	0	DLG1
chr3:196793858-196963612	17	169755	1	rs6795358	rs338186	15.023	0	DLG1
chr3:177912894-197551411	4129	19638518	3	rs9290640	rs1273562	185.507	0	DLG1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	DLG4
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	DLST
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	DLST
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	DNM1
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	DNM1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	DNM1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	DNM3
chr1:172367677-172511969	31	144293	4	rs10911684	rs12087284	11.699	0	DNM3
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	DNM3
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	DNM3
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	DNM3
chr8:2365648-32608792	10334	30243145	3	rs2100623	rs3757934	31.188	0	DPYSL2
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	DPYSL2
chr8:25304020-43159151	3371	17855132	3	rs10503771	cnvi0018779	263.504	0	DPYSL2
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	DRD1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	DRD1
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	DRD2
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	DRD2
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	DRD2
chr11:98062720-121890280	5422	23827561	1	rs6589308	rs1944465	29.075	0	DRD2
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	DRD2
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	DRD3
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	DRD3
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	DRD3
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	DRD3
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	DRD3
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	DRD3
chr6:49184770-63747049	1854	14562280	3	rs2496363	rs1539022	8.974	0	DST
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	DST
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	DST
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	DST
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	DSTN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	DSTN
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	DSTN
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	DSTN
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	DVL1
chr1:536794-1682374	159	1145581	3	rs4649701	rs4648812	64.942	0	DVL1
chr1:1229770-2378046	167	1148277	1	rs6669227	rs34241773	44.903	0	DVL1
chr1:1201632-2182470	109	980839	1	rs12402622	rs260512	27.748	0	DVL1
chr1:1254841-3342804	386	2087964	1	rs10907179	rs870171	39.259	0	DVL1
chr1:1162435-1277903	19	115469	3	rs3766186	rs34411680	14.65	0	DVL1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	DVL2
chr3:166503411-190576461	4854	24073051	1	rs11925936	rs1393054	31.414	0	DVL3
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	DVL3
chr3:164955741-191742104	5741	26786364	1	rs2218152	rs9835019	52.438	0	DVL3
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	DVL3
chr3:177912894-197551411	4129	19638518	3	rs9290640	rs1273562	185.507	0	DVL3
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	DYNLL1
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	DYNLL1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	DYNLL1
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	DYNLL1
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	ECHS1
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	EDF1
chr9:139492789-140913833	196	1421045	1	rs28485548	cnvi0002661	28.211	0	EDF1
chr9:139492789-140212642	109	719854	3	rs28485548	rs13295516	12.464	0	EDF1
chr9:139725120-140176250	50	451131	1	rs2811750	rs28576426	24.435	0	EDF1
chr8:144656754-145255867	71	599114	1	rs4606077	rs7015323	34.761	0	EEF1D
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	EEF1D
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	EEF1D

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	EEF1D
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	EEF2
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	EEF2
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	EEF2
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	EFNB2
chr13:65193124-115053155	12025	49860032	3	rs9598811	rs7327124	78.057	0	EFNB2
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	EGFR
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	EGFR
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	EGFR
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	EGFR
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	EIF1B
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	EIF1B
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	EIF1B
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	ENO2
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	EPB41
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	EPB41
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	EPB41L1
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	EPB41L1
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	EPB41L1
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	EPB41L1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	EPB41L2
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	EPB41L2
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	EPB41L2
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	EPB41L2
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	EPB41L2
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	EPB41L2
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	EPB41L2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	EPHB2
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	EPHB2
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	ERBB2
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	ERBB2
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	ESR1
chr6:151495387-165969396	3761	14474010	3	rs9322304	rs1022180	22.826	0	ESR1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	ESR1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	ESR1
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	ESR1
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	ESR1
chr14:64655161-64792340	27	137180	1	rs1255986	rs3020443	16.892	0	ESR2
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	ESR2
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	ESR2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	ESRRG
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	ESRRG
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	ESRRG
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	ESRRG
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	ESRRG
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	ESRRG
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ESRRG
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	ESRRG
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	ETHE1
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	ETHE1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	ETHE1
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	EWSR1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	F11R
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	F11R

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	F11R
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	F11R
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	F2R
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	F2R
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	F2R
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	F2RL2
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	F2RL2
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	F2RL2
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	F2RL3
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	F2RL3
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	F3
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	F3
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	F3
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	F3
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	F3
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	FADD
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	FADD
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	FADD
chr11:67086298-74446791	1348	7360494	3	rs1944096	rs7103136	173.017	0	FADD
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	FAS
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	FAS
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	FAS
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	FAS
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	FAS
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	FBLIM1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	FBLIM1
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	FER

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:108343438-108490168	32	146731	1	rs11958129	rs11952637	17.906	0	FER
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	FER
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	FER
chr5:108410880-108517282	20	106403	1	rs17161593	rs7715602	19.545	0	FER
chr5:108295480-108436014	26	140535	1	rs7734092	rs3816024	16.128	0	FER
chr5:80735161-125293366	8499	44558206	1	rs1541830	rs327816	52.167	0	FER
chr5:108284342-111242002	627	2957661	1	rs3797817	rs17133870	44.164	0	FER
chr5:108029900-108145817	30	115918	1	rs10050689	rs2900037	16.489	0	FER
chr5:104968250-109596993	929	4628744	3	rs10079505	rs4367336	15.741	0	FER
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	FER
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	FEZ1
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	FEZ1
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	FEZ1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	FEZ2
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	FEZ2
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	FEZ2
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	FFAR1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	FFAR1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	FFAR2
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	FFAR2
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	FKBP1A
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	FKBP3
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	FKBP3
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	FLJ41278
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	FLJ41278
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	FLJ41278
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	FLJ41278

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	FLJ41278
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	FLNB
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	FLNB
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	FLNB
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	FPR1
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	FPR1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	FPR1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	FRS2
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	FRS2
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	FRS2
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	FRS2
chr12:69888884-69992465	15	103582	3	rs221103	rs710764	16.735	0	FRS2
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	FRS2
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	FSCN1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	FSHR
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	FSHR
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	FSHR
chr2:49646785-49758675	35	111891	1	rs10172488	rs6728261	127.406	265119	FSHR
chr2:49639121-49752589	40	113469	1	rs817060	rs4971621	119.056	257455	FSHR
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	FSHR
chr15:91345348-91492877	34	147530	3	rs16944840	rs749938	0	0	FURIN
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	FURIN
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	FURIN
chr15:66108544-102427006	8615	36318463	3	cnvi0007613	rs11632620	159.164	0	FURIN
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	FXN
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	FXN
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	FXN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	FXN
chr3:166503411-190576461	4854	24073051	1	rs11925936	rs1393054	31.414	0	FXR1
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	FXR1
chr3:164955741-191742104	5741	26786364	1	rs2218152	rs9835019	52.438	0	FXR1
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	FXR1
chr3:177912894-197551411	4129	19638518	3	rs9290640	rs1273562	185.507	0	FXR1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	FYN
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	FYN
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	FYN
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	FYN
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	FYN
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	FYN
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	FYN
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	GABRR1
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	GABRR1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	GABRR1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	GABRR1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	GABRR1
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	GABRR1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GABRR1
chr6:79198069-99893938	4062	20695870	3	rs1321584	rs4504482	200.961	0	GABRR1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	GABRR2
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	GABRR2
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	GABRR2
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	GABRR2
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	GABRR2
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	GABRR2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GABRR2
chr6:79198069-99893938	4062	20695870	3	rs1321584	rs4504482	200.961	0	GABRR2
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	GALR2
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	GALR2
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	GAP43
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	GAP43
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	GAP43
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	GAP43
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	GAP43
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	GAP43
chr12:6485661-6711147	48	225487	1	rs3759324	rs1639122	18.66	0	GAPDH
chr12:6562293-6711147	27	148855	1	rs2041385	rs1639122	19.307	0	GAPDH
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	GAPDH
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	GC
chr4:71849697-72861878	167	1012182	3	rs6446977	rs11722798	16.573	0	GC
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	GC
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	GC
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	GC
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	GC
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	GC
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	GFAP
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	GFAP
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	GFI1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	GFI1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	GFI1
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	GFI1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	GFI1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	GFI1B
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	GFI1B
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	GFPT1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	GFPT1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	GFPT1
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	GFPT1
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	GH1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	GH1
chr17:61016209-66240093	890	5223885	1	rs1588368	rs11658645	37.309	0	GH1
chr17:59314257-66170047	1135	6855791	1	rs758467	rs4558468	71.379	0	GH1
chr17:59205829-62530143	453	3324315	3	rs7222210	rs9897203	107.455	0	GH1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	GIT1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	GIT1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	GIT2
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	GIT2
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	GIT2
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	GIT2
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	GJA1
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	GJA1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	GJA1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	GJA1
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	GJA1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GJA1
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	GJA1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	GLP1R
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	GLP1R
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	GLP1R

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	GLP2R
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	GMFB
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	GMFB
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	GNA12
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	GNA15
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	GNA15
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	GNA15
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	GNAI1
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	GNAI1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	GNAI1
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	GNAI1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	GNAI1
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	GNAI2
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	GNAI2
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	GNAI2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	GNAI3
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	GNAI3
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	GNAI3
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	GNAI3
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	GNAO1
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	GNAQ
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	GNAQ
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	GNAQ
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	GNAQ
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	GNAS
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	GNAS
chr20:54870769-62912463	2390	8041695	3	rs6069696	rs6062363	249.708	0	GNAS

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr22:22998337-23649242	126	650906	1	rs6003181	rs131693	276.751	0	GNAZ
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	GNAZ
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	GNB2L1
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	GOT1
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	GOT1
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	GOT1
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	GOT1
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	GOT1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	GP1BA
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	GPM6A
chr4:163766726-189931630	5627	26164905	3	rs10033012	rs10018868	25.326	0	GPM6A
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	GPM6A
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	GPM6A
chr4:162592024-189861553	6129	27269530	1	rs5005966	rs6853039	63.501	0	GPM6A
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	GPM6A
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	GPR26
chr10:124668629-135157955	2949	10489327	3	rs11248331	rs10776672	23.553	0	GPR26
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	GPR26
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	GPR26
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	GPSM2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	GPSM2
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	GPSM2
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	GPSM2
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	GRB14
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	GRB14
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	GRB14
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	GRB14

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	GRB14
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	GRB2
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	GRB2
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	GRB7
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	GRB7
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	GRIA1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	GRIA1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	GRIA1
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	GRIA2
chr4:137206602-158430547	3577	21223946	3	rs1597600	rs12507865	83.533	0	GRIA2
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	GRIA2
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	GRIA2
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	GRIA2
chr4:126374899-162380016	6166	36005118	1	rs4834042	rs17041092	33.404	0	GRIA2
chr4:155739051-165849854	1997	10110804	1	rs7691720	rs10005938	26.215	0	GRIA2
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	GRIA2
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	GRIA4
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	GRIA4
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	GRIA4
chr11:98062720-121890280	5422	23827561	1	rs6589308	rs1944465	29.075	0	GRIA4
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	GRIA4
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	GRIA4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	GRIK1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	GRIK1
chr21:30057145-31992864	372	1935720	1	rs6516861	rs1702405	41.668	0	GRIK1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	GRIK1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	GRIK1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	GRIK1
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	GRIK1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	GRIK3
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	GRIK3
chr9:139929435-140068342	13	138908	1	rs12337910	rs4074426	9.973	0	GRIN1
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	GRIN1
chr9:139492789-140913833	196	1421045	1	rs28485548	cnvi0002661	28.211	0	GRIN1
chr9:139492789-140212642	109	719854	3	rs28485548	rs13295516	12.464	0	GRIN1
chr9:139926402-140277524	42	351123	1	200006	rs7390551	31.315	0	GRIN1
chr9:140018138-140153851	12	135714	3	rs4880094	rs28457075	17.073	0	GRIN1
chr9:139725120-140176250	50	451131	1	rs2811750	rs28576426	24.435	0	GRIN1
chr9:140018138-140392494	38	374357	1	rs4880094	rs4962232	27.672	0	GRIN1
chr9:139821068-141105225	163	1284158	3	rs3750512	rs11559363	55.611	0	GRIN1
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	GRIN2A
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	GRIN2B
chr12:8171838-32535863	5853	24364026	3	rs11609309	rs7963182	23.697	0	GRIN2B
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	GRIN2B
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	GRIN2B
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	GRK1
chr13:65193124-115053155	12025	49860032	3	rs9598811	rs7327124	78.057	0	GRK1
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	GRK4
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	GRM1
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	GRM1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	GRM1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	GRM1
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	GRM1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GRM1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	GRM1
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	GRM2
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	GRM2
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	GRM2
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	GRM3
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	GRM3
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	GRM3
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	GRM3
chr7:85117732-86026526	122	908795	1	rs4728584	rs10242995	65.094	246704	GRM3
chr7:84302877-110993169	5183	26690293	3	rs4338048	rs10254893	203.09	0	GRM3
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	GRM4
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	GRM4
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	GRM4
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	GRM5
chr11:81251505-103234729	4842	21983225	3	rs7935238	rs1913462	26.176	0	GRM5
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	GRM5
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	GRM5
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	GRM5
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	GRM5
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	GRM6
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	GRM6
chr3:5824878-8781331	952	2956454	3	rs2470628	rs11916022	924.891	0	GRM7
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	GRM7
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	GRM8
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	GRM8
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	GRM8
chr7:125676925-125780682	24	103758	1	rs1419535	rs10267757	26.358	297970	GRM8

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	GRM8
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	GSK3A
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	GSK3A
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	GSK3B
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	GSK3B
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	GSK3B
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	GSK3B
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	GSK3B
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	GSK3B
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	GSN
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	GSN
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	GSN
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	GSTM4
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	GSTM4
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	GSTM4
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	GSTM4
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	HABP4
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	HABP4
chr9:99171631-99360461	19	188831	1	rs10820564	rs6477568	18.889	0	HABP4
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	HABP4
chr9:94405452-99509624	947	5104173	3	rs10992024	rs10114863	116.934	0	HABP4
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	HAND1
chr5:153684038-153925210	100	241173	3	rs6580069	rs2253311	14.734	0	HAND1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	HAND1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	HAND1
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	HAND2
chr4:163766726-189931630	5627	26164905	3	rs10033012	rs10018868	25.326	0	HAND2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	HAND2
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	HAND2
chr4:162592024-189861553	6129	27269530	1	rs5005966	rs6853039	63.501	0	HAND2
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	HAND2
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	HARS
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	HARS
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	HARS
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	HARS
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	HBXIP
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	HBXIP
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	HBXIP
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	HBXIP
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	HES1
chr3:192603329-196181269	617	3577941	3	rs6805010	rs7648887	385.598	0	HES1
chr3:193664994-193931852	58	266859	1	rs1986907	rs4613405	104.029	0	HES1
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	HES1
chr3:177912894-197551411	4129	19638518	3	rs9290640	rs1273562	185.507	0	HES1
chr6:10123365-31221039	-3135	21097675	1	rs2181334	rs4416711	318.459	0	HLA-A
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	HLA-A
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	428.177	0	HLA-A
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	HLA-A
chr6:19044000-31286381	-6774	12242382	1	rs6922929	rs9265057	31.384	0	HLA-A
chr6:2585208-31281876	-2	28696669	1	rs1634746	rs1634747	31.615	0	HLA-A
chr6:24697388-31341340	-8293	6643953	1	rs2092404	rs9266515	38.794	0	HLA-A
chr6:29177102-30253339	1364	1076238	1	rs1883329	rs1132547	42.696	0	HLA-A
chr6:29812471-29937541	221	125071	1	rs7452613	rs11752303	122.513	0	HLA-A
chr6:26430981-31878433	-8001	5447453	1	rs2893848	rs519417	55.651	0	HLA-A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	34.598	0	HLA-A
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	390.234	0	HLA-A
chr6:29253756-32671521	2267	3417766	1	rs9468508	rs9275439	51.553	0	HLA-A
chr6:19044000-31286381	-6774	12242382	0	rs6922929	rs9265057	33.119	0	HLA-A
chr6:181089-30430875	1806	30249787	3	rs1535053	rs35792611	80.394	0	HLA-A
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	HLA-C
chr6:30792235-31321211	404	528977	1	rs4713391	rs2596501	72.355	0	HLA-C
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	428.177	0	HLA-C
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	HLA-C
chr6:19044000-31286381	-6774	12242382	1	rs6922929	rs9265057	31.384	0	HLA-C
chr6:2585208-31281876	-2	28696669	1	rs1634746	rs1634747	31.615	0	HLA-C
chr6:24697388-31341340	-8293	6643953	1	rs2092404	rs9266515	38.794	0	HLA-C
chr6:26430981-31878433	-8001	5447453	1	rs2893848	rs519417	55.651	0	HLA-C
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	34.598	0	HLA-C
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	390.234	0	HLA-C
chr6:29253756-32671521	2267	3417766	1	rs9468508	rs9275439	51.553	0	HLA-C
chr6:19044000-31286381	-6774	12242382	0	rs6922929	rs9265057	33.119	0	HLA-C
chr6:30475431-32449411	-7687	1973981	3	cnvi0005997	rs1964995	153.275	0	HLA-C
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	HLA-DQA2
chr6:32496748-33038766	-7385	542019	1	rs34955825	rs2301220	35.189	0	HLA-DQA2
chr6:32496748-32895580	-7661	398833	1	rs34955825	rs9501239	61.369	0	HLA-DQA2
chr6:32505531-32874796	-7700	369266	1	cnvi0006586	rs9469310	29.88	0	HLA-DQA2
chr6:31281438-32874796	-7311	1593359	1	cnvi0006173	rs9469310	36.913	0	HLA-DQA2
chr6:32496748-32895580	-7661	398833	1	rs34955825	rs9501239	49.158	0	HLA-DQA2
chr6:32505531-32895580	-7668	390050	1	cnvi0006586	rs9501239	48.21	0	HLA-DQA2
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	HLA-DQA2
chr6:32524224-32814659	-7820	290436	3	rs28594633	rs4711312	142.044	0	HLA-DQA2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	HMGB1
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	HMGB1
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	HMGB1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	HMGN1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	HMGN1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	HMGN1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	HMGN1
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	HMGN1
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	HMGN1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	HMGN2
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	HMGN2
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	HMMR
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	HMMR
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	HMMR
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	HMMR
chr16:2941320-7172068	1303	4230749	3	rs1034709	rs1600230	22.392	0	HMOX2
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	HMOX2
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	HMP19
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	HMP19
chr5:78520731-78765405	35	244675	1	rs4704546	rs7710089	12.78	0	HOMER1
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	HOMER1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	HOMER1
chr5:78542290-79057477	95	515188	1	rs10474578	rs259126	38.26	0	HOMER1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	HOMER1
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	HOMER2
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	HOMER2
chr15:66108544-102427006	8615	36318463	3	cnvi0007613	rs11632620	159.164	0	HOMER2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:18622443-22202166	372	3579724	3	rs4808812	rs10412244	11.197	0	HOMER3
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	HOMER3
chr18:1583633-58142042	11490	56558410	3	rs9945988	rs1560399	3.736	0	HRH4
chr18:10274-30780701	6393	30770428	3	cnvi0008694	rs271534	338.777	0	HRH4
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	HSP90AA1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	HSP90AA1
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	HSP90AA1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	HSP90AB1
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	HSP90AB1
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	HSP90AB1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	HSPA1A
chr6:31289284-32512613	10001	1223330	3	rs9265170	rs35571839	45.035	0	HSPA1A
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	HSPA1A
chr6:31281438-32449411	-7879	1167974	1	cnvi0006173	rs1964995	24.023	0	HSPA1A
chr6:31337633-32449411	1650	1111779	1	rs9266433	rs1964995	124.395	0	HSPA1A
chr6:31281438-32354428	-8033	1072991	1	cnvi0006173	rs4424066	37.329	0	HSPA1A
chr6:31289284-31960770	9811	671487	3	rs9265170	cnvi0006385	29.628	0	HSPA1A
chr6:31281438-32874796	-7311	1593359	1	cnvi0006173	rs9469310	36.913	0	HSPA1A
chr6:26430981-31878433	-8001	5447453	1	rs2893848	rs519417	55.651	0	HSPA1A
chr6:29253756-32671521	2267	3417766	1	rs9468508	rs9275439	51.553	0	HSPA1A
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	HSPA1A
chr6:30475431-32449411	-7687	1973981	3	cnvi0005997	rs1964995	153.275	0	HSPA1A
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	HSPA1B
chr6:31289284-32512613	10001	1223330	3	rs9265170	rs35571839	45.035	0	HSPA1B
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	HSPA1B
chr6:31281438-32449411	-7879	1167974	1	cnvi0006173	rs1964995	24.023	0	HSPA1B
chr6:31337633-32449411	1650	1111779	1	rs9266433	rs1964995	124.395	0	HSPA1B

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:31281438-32354428	-8033	1072991	1	cnvi0006173	rs4424066	37.329	0	HSPA1B
chr6:31289284-31960770	9811	671487	3	rs9265170	cnvi0006385	29.628	0	HSPA1B
chr6:31281438-32874796	-7311	1593359	1	cnvi0006173	rs9469310	36.913	0	HSPA1B
chr6:26430981-31878433	-8001	5447453	1	rs2893848	rs519417	55.651	0	HSPA1B
chr6:29253756-32671521	2267	3417766	1	rs9468508	rs9275439	51.553	0	HSPA1B
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	HSPA1B
chr6:30475431-32449411	-7687	1973981	3	cnvi0005997	rs1964995	153.275	0	HSPA1B
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	HSPA4
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	HSPA4
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	HSPA4
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	HSPA4
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	HSPB1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	HSPB1
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	HSPB1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	HSPB1
chr5:39526068-67275356	4441	27749289	1	rs16869031	rs999826	77.848	0	HSPB3
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	HSPB3
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	HSPB3
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	HSPB8
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	HSPB8
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	HSPB8
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	HSPB8
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	HSPBP1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	HSPE1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	HSPE1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	HSPE1
chr2:185050218-212752193	4583	27701976	1	rs1526196	rs6727114	45.31	0	HSPE1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	HSPE1
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	HSPH1
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	HSPH1
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	HSPH1
chr13:36707502-103656104	13622	66948603	1	rs3827890	rs1952590	38.726	0	HTR2A
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	HTR2A
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	HTR2A
chr13:47300055-47409034	48	108980	1	rs1539177	rs6314	25.525	0	HTR2A
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	HTR2A
chr2:231927569-232035793	10	108225	1	rs3815844	rs2032953	14.229	0	HTR2B
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	HTR2B
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	HTR2B
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	HTR2B
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	HTR6
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	HTR6
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	IKBKB
chr8:41983076-50280013	418	8296938	1	rs12544318	rs12677656	39.988	0	IKBKB
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	IKBKB
chr8:25304020-43159151	3371	17855132	3	rs10503771	cnvi0018779	263.504	0	IKBKB
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	IKBKE
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	IKBKE
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	IKBKE
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	IKBKE
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	IKBKE
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	IKBKE
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	IKBKE
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	IKBKE

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	IL4R
chr3:234726-6328081	2293	6093356	3	rs7632811	rs1595039	106.207	0	IL5RA
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	IL5RA
chr3:48801929-49362892	29	560964	1	rs6766238	rs1865741	15.852	0	IMPDH2
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	IMPDH2
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	IMPDH2
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	IMPDH2
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	INSR
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	INSR
chr3:120658659-121614175	112	955517	1	rs7618583	rs1881998	31.134	0	IQCB1
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	IQCB1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	IQCB1
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	IQCB1
chr3:121453361-121631841	22	178481	1	rs9841861	rs1523519	24.376	0	IQCB1
chr3:121459589-121614175	21	154587	1	rs12498138	rs1881998	18.424	0	IQCB1
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	IQCB1
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	IQCB1
chr3:121526849-121670405	23	143557	1	rs6770719	rs9871743	13.308	0	IQCB1
chr3:121453361-121564989	15	111629	1	rs9841861	rs6767409	18.746	0	IQCB1
chr3:121526849-121648168	25	121320	1	rs6770719	rs1143672	14.896	0	IQCB1
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	IQCB1
chr15:90962971-91108674	28	145704	3	rs17176602	rs8031453	41.934	0	IQGAP1
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	IQGAP1
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	IQGAP1
chr15:66108544-102427006	8615	36318463	3	cnvi0007613	rs11632620	159.164	0	IQGAP1
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	IQGAP2
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	IQGAP2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	IQGAP2
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	IRS1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	IRS1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	IRS1
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	IRS1
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	ITGB1
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	ITGB1
chr10:88874-53366180	12853	53277307	3	cnvi0015449	rs10998465	319.021	0	ITGB1
chr21:44839153-47856106	674	3016954	1	rs2838302	rs2236616	38.158	0	ITGB2
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	ITGB2
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	ITGB2
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	ITGB2
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	ITGB2
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	ITGB2
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	ITGB2
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	ITGB3BP
chr1:63914117-64047615	16	133499	1	rs3009577	rs10127824	22.702	0	ITGB3BP
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	ITGB3BP
chr17:73600891-73844748	34	243858	1	rs1624922	rs2290771	19.222	0	ITGB4
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	ITGB4
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	ITGB4
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	ITGB5
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	ITGB5
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	ITGB5
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	ITGB5
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	ITGB5
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	ITGB5

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	ITGB7
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	ITGB7
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	ITGB7
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	ITGB7
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	ITPKA
chr15:32939946-43104406	2544	10164461	3	rs12594777	rs13380301	32.942	0	ITPKA
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	ITPKB
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	ITPKB
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	ITPKB
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	ITPKB
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	ITPKB
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	ITPKB
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ITPKB
chr1:226423572-227452700	215	1029129	1	rs6605032	rs1969230	24.875	0	ITPKB
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	ITPKB
chr3:3748218-4590681	268	842464	1	rs901050	rs6802929	33.083	0	ITPR1
chr3:234726-6328081	2293	6093356	3	rs7632811	rs1595039	106.207	0	ITPR1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	ITPR1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	ITPR3
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	ITPR3
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	ITPR3
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	JAK1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	JAK1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	JAK1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	KCNE1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	KCNE1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	KCNE1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	KCNE1
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	KCNE1
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	KCNE1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	KCNE4
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	KCNE4
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	KCNE4
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	KCNE4
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	KCNH2
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	KCNH2
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	KCNH2
chr7:143807304-158827326	3603	15020023	3	rs10252253	rs2071624	54.584	0	KCNH2
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	KCNJ2
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	KCNJ2
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	KCNN2
chr5:108979318-132114847	4575	23135530	1	rs31595	rs30514	35.063	0	KCNN2
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	KCNN2
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	KCNN2
chr5:80735161-125293366	8499	44558206	1	rs1541830	rs327816	52.167	0	KCNN2
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	KCNN2
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	KCNN4
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	KCNN4
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	KCNN4
chr20:61852629-62212928	57	360300	1	rs6010873	rs310672	29.152	0	KCNQ2
chr20:61867454-62198348	53	330895	1	rs6011691	rs438363	35.319	0	KCNQ2
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	KCNQ2
chr20:54870769-62912463	2390	8041695	3	rs6069696	rs6062363	249.708	0	KCNQ2
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	KCNQ3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	KCNQ3
chr8:130808973-134279601	923	3470629	3	rs7823788	rs2976574	37.758	0	KCNQ3
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	KCNQ3
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	KCNQ3
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	KCNQ5
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	KCNQ5
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	KCNQ5
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	KCNQ5
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	KCNQ5
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	KCNQ5
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	KCNQ5
chr6:73376868-73489110	34	112243	1	rs12194741	rs7740606	24.362	0	KCNQ5
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	KCNQ5
chr6:73478625-75558759	448	2080135	3	rs7775641	rs9293982	54.62	0	KCNQ5
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	KDR
chr4:39472311-63464732	3456	23992422	3	rs2687975	rs4403080	120.672	0	KDR
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	KDR
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	KDR
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	KDR
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	KIAA0090
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	KIAA0090
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	KIAA1377
chr11:81251505-103234729	4842	21983225	3	rs7935238	rs1913462	26.176	0	KIAA1377
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	KIAA1377
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	KIAA1377
chr11:98062720-121890280	5422	23827561	1	rs6589308	rs1944465	29.075	0	KIAA1377
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	KIAA1377

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	KIAA1377
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	KIAA1549
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	KIAA1549
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	KIAA1549
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	KIAA1549
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	KIAA1683
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	KIF3A
chr5:108979318-132114847	4575	23135530	1	rs31595	rs30514	35.063	0	KIF3A
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	KIF3A
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	KIF3A
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	KIF3A
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	KIT
chr4:39472311-63464732	3456	23992422	3	rs2687975	rs4403080	120.672	0	KIT
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	KIT
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	KIT
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	KIT
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	KLHL20
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	KLHL20
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	KLHL20
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	KLHL20
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	KLHL3
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	KLHL3
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	KLHL3
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	KLHL3
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	KLK10
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	KLK10
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	KLK10

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:25264259-25401822	40	137564	1	rs17387019	rs4368021	16.172	0	KRAS
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	KRAS
chr12:8171838-32535863	5853	24364026	3	rs11609309	rs7963182	23.697	0	KRAS
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	KRAS
chr12:25264259-25397282	37	133024	1	rs17387019	rs17389103	24.756	0	KRAS
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	KRAS
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	KRT10
chr17:38899411-39347296	80	447886	1	rs7220877	rs7214006	23.174	0	KRT10
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	KRT10
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	KRT18
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	KRT18
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	KRT18
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	KRT18
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	LAMA4
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	LAMA4
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	LAMA4
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	LAMA4
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	LAMA4
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	LAMA4
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	LAMA4
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	LCK
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	LCK
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	LGALS2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	LMNA
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	LMNA
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	LMNA
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	LMNA

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	LMNB1
chr5:108979318-132114847	4575	23135530	1	rs31595	rs30514	35.063	0	LMNB1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	LMNB1
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	LMNB1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	LMNB1
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	LOC100133669
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	LOC100133669
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	LOC100133669
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	LOC154092
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	LOC154092
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	LOC154092
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	LOC154092
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	LOC154092
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	LOC154092
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	LOC154092
chr18:1583633-58142042	11490	56558410	3	rs9945988	rs1560399	3.736	0	LOC339290
chr18:10274-30780701	6393	30770428	3	cnvi0008694	rs271534	338.777	0	LOC339290
chr8:2365648-32608792	10334	30243145	3	rs2100623	rs3757934	31.188	0	LOC340357
chr8:11876689-15051158	1245	3174470	1	rs10096955	rs7840505	32.747	0	LOC340357
chr8:62041-25061807	9818	24999767	3	rs4710857	rs1510758	96.736	0	LOC340357
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	LOC400604
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	LOC400604
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	LOC400604
chr4:163766726-189931630	5627	26164905	3	rs10033012	rs10018868	25.326	0	LRP2BP
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	LRP2BP
chr4:162592024-189861553	6129	27269530	1	rs5005966	rs6853039	63.501	0	LRP2BP
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	LRP2BP

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	LRRC59
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	LRRC59
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	LRRC59
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	LTA
chr6:31289284-32512613	10001	1223330	3	rs9265170	rs35571839	45.035	0	LTA
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	LTA
chr6:31281438-32449411	-7879	1167974	1	cnvi0006173	rs1964995	24.023	0	LTA
chr6:31337633-32449411	1650	1111779	1	rs9266433	rs1964995	124.395	0	LTA
chr6:31281438-32354428	-8033	1072991	1	cnvi0006173	rs4424066	37.329	0	LTA
chr6:31289284-31960770	9811	671487	3	rs9265170	cnvi0006385	29.628	0	LTA
chr6:31281438-32874796	-7311	1593359	1	cnvi0006173	rs9469310	36.913	0	LTA
chr6:26430981-31878433	-8001	5447453	1	rs2893848	rs519417	55.651	0	LTA
chr6:29253756-32671521	2267	3417766	1	rs9468508	rs9275439	51.553	0	LTA
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	LTA
chr6:30475431-32449411	-7687	1973981	3	cnvi0005997	rs1964995	153.275	0	LTA
chr14:22513116-32242747	1997	9729632	1	rs4982546	rs17098165	31.673	0	LTB4R
chr14:22349686-25012115	755	2662430	1	rs994827	rs7142675	27.602	0	LTB4R
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	LTB4R
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	LTF
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	LTF
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	LTF
chr3:157117977-158675961	280	1557985	1	rs1840673	rs1112930	71.366	0	LXN
chr3:145967173-173899890	4912	27932718	3	rs9863647	rs7618997	46.396	0	LXN
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	LXN
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	LXN
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	LXN
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	LXN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	LYAR
chr8:56843930-57035027	38	191098	1	rs10091244	rs4386955	14.478	0	LYN
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	LYN
chr8:56706994-56851419	31	144426	3	rs2316972	rs1126327	1.58	0	LYN
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	LYN
chr8:43235525-66712108	3632	23476584	3	rs10091311	rs7001138	58.838	0	LYN
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	LYST
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	LYST
chr1:236039174-236265665	54	226492	4	rs17714318	rs16833290	11.648	0	LYST
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	LYST
chr1:235832555-236429953	113	597399	1	rs11810173	rs1254188	31.543	0	LYST
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	LYST
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	LYST
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	MAD2L1BP
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	MAD2L1BP
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	MAD2L1BP
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	MAP1A
chr15:43614724-43836478	29	221755	1	rs488756	rs2251844	14.185	0	MAP1A
chr15:43392075-66051345	4963	22659271	3	rs8028608	rs6494537	59.842	0	MAP1A
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	MAP1LC3A
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	MAP1LC3A
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	MAP1LC3A
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	MAP1LC3A
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	MAP2K1
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	MAP2K1
chr15:66108544-102427006	8615	36318463	3	cnvi0007613	rs11632620	159.164	0	MAP2K1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	MAP2K4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	MAP2K5
chr15:67505066-68012403	39	507338	1	rs7169664	rs4502166	30.191	0	MAP2K5
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	MAP2K5
chr15:66108544-102427006	8615	36318463	3	cnvi0007613	rs11632620	159.164	0	MAP2K5
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	MAP3K10
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	MAP3K10
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	MAP3K3
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	MAP3K3
chr17:61016209-66240093	890	5223885	1	rs1588368	rs11658645	37.309	0	MAP3K3
chr17:59314257-66170047	1135	6855791	1	rs758467	rs4558468	71.379	0	MAP3K3
chr17:59205829-62530143	453	3324315	3	rs7222210	rs9897203	107.455	0	MAP3K3
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	MAP3K7
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	MAP3K7
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	MAP3K7
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	MAP3K7
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	MAP3K7
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	MAP3K7
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	MAP3K7
chr6:79198069-99893938	4062	20695870	3	rs1321584	rs4504482	200.961	0	MAP3K7
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	MAP3K8
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	MAP3K8
chr10:88874-53366180	12853	53277307	3	cnvi0015449	rs10998465	319.021	0	MAP3K8
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	MAP4
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	MAP4
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	MAP4
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	MAP6
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	MAP6

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	MAP6
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	MAP6
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	MAPK1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	MAPK14
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	MAPK14
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	MAPK14
chr16:29441284-33923125	585	4481842	3	rs7206789	rs4043755	42.437	0	MAPK3
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	MAPK3
chr17:43657921-44354796	88	696876	3	rs9898857	rs2732700	21.196	0	MAPT
chr17:43657921-44064851	65	406931	3	rs9898857	rs8079215	86.447	0	MAPT
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	MAPT
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	MAPT
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	MARCKS
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	MARCKS
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	MARCKS
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	MARCKS
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	MARCKS
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	MARCKS
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	MARCKS
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	MARK4
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	MARK4
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	MARK4
chr18:25388300-75954881	11539	50566582	1	rs11083228	rs1876021	39.235	0	MBP
chr18:62041997-76047493	3846	14005497	1	rs1421538	rs8085865	33.212	0	MBP
chr18:44788908-78015180	8492	33226273	3	rs9944807	rs12960632	579.2	0	MBP
chr18:25388300-75954881	11539	50566582	1	rs11083228	rs1876021	39.235	0	MC4R
chr18:1583633-58142042	11490	56558410	3	rs9945988	rs1560399	3.736	0	MC4R

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr18:46516210-68441007	5088	21924798	1	rs7229153	rs1282652	51.891	0	MC4R
chr18:26550830-63713914	8241	37163085	1	rs16945738	rs2715304	17.922	0	MC4R
chr18:26162481-67193217	9255	41030737	1	rs12458903	rs9961907	31.327	0	MC4R
chr18:44788908-78015180	8492	33226273	3	rs9944807	rs12960632	579.2	0	MC4R
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	MCC
chr5:108979318-132114847	4575	23135530	1	rs31595	rs30514	35.063	0	MCC
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	MCC
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	MCC
chr5:80735161-125293366	8499	44558206	1	rs1541830	rs327816	52.167	0	MCC
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	MCC
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	MGMT
chr10:124668629-135157955	2949	10489327	3	rs11248331	rs10776672	23.553	0	MGMT
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	MGMT
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	MGMT
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	MIP
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	MIP
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	MIP
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	MIP
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	MLF2
chr9:20322932-20430468	22	107537	1	rs7048991	rs6475430	13.942	0	MLLT3
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	MLLT3
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	MLLT3
chr9:12078499-29930098	5275	17851600	1	rs4449884	rs10813203	117.912	0	MLLT3
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	MLLT3
chr14:61278684-61530401	23	251718	1	rs2020892	rs4902024	17.437	0	MNAT1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	MNAT1
chr14:60826810-61530401	106	703592	1	rs17097373	rs4902024	40.432	0	MNAT1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	MNAT1
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	MPHOSPH6
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	MPHOSPH6
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	MPHOSPH6
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	MRPL14
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	MRPL14
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	MRPL14
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	MRPS12
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	MRPS12
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	MRPS16
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	MRPS16
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	MRPS16
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	MRPS16
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	MRPS16
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	MRPS6
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	MRPS6
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	MRPS6
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	MRPS6
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	MRPS6
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	MRPS6
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	MRVI1
chr11:10323478-10713432	111	389955	3	rs4399321	rs4910170	17.647	0	MRVI1
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	MRVI1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	MTHFD1
chr14:64926097-65063315	19	137219	1	rs2281603	rs10134770	14.377	0	MTHFD1
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	MTHFD1
chr4:163766726-189931630	5627	26164905	3	rs10033012	rs10018868	25.326	0	MTNR1A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	MTNR1A
chr4:162592024-189861553	6129	27269530	1	rs5005966	rs6853039	63.501	0	MTNR1A
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	MTNR1A
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	MTNR1B
chr11:81251505-103234729	4842	21983225	3	rs7935238	rs1913462	26.176	0	MTNR1B
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	MTNR1B
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	MTNR1B
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	MTNR1B
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	MTNR1B
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	MX1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	MX1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	MX1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	MX1
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	MX1
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	MX1
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	MYC
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	MYC
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	MYC
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	MYC
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	MYF5
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	MYF5
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	MYF5
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	MYF5
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	MYF5
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	MYF6
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	MYF6
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	MYF6

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	MYF6
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	MYF6
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	MYLK
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	MYLK
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	MYLK
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	MYLK
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	MYLK
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	MYLK
chr5:141659-19010008	4662	18868350	3	rs11741126	rs4642370	50.124	0	MYO10
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	MYO10
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	MYO6
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	MYO6
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	MYO6
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	MYO6
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	MYO6
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	MYO6
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	MYO6
chr6:75600804-78928379	602	3327576	3	rs7743423	rs1416055	49.19	0	MYO6
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	MYO7A
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	MYO7A
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	MYO7A
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	MYO7A
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	MYO9B
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	MYO9B
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	MYOC
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	MYOC
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	MYOC

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	MYOC
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	MYOD1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	MYOG
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	MYOG
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	MYOG
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	MYOG
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	MYOG
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	MYOG
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	MYOG
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	MYOG
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	MYOT
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	MYOT
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	MYOT
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	MYOT
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	MYT1L
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	NACA
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	NACA
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	NACA
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	NACA
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	NANS
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	NANS
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	NANS
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	NANS
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	NCALD
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	NCALD
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	NCALD
chr8:76354446-113652365	6767	37297920	1	rs830783	rs16883889	127.023	0	NCALD

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	NCALD
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	NCF1C
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	NCF1C
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	NCF1C
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	NCF1C
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	NCK1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	NCK1
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	NCK1
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	NCK1
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	NCK1
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	NCK1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	NCL
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	NCL
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	NCL
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	NCOR2
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	NCOR2
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	NCOR2
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	NCOR2
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	NEUROD1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	NEUROD1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	NEUROD1
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	NEUROD1
chr2:180138805-193144041	2298	13005237	3	rs6746115	rs2592243	132.36	0	NEUROD1
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	NF2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	NFASC
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	NFASC
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	NFASC

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	NFASC
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	NFASC
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	NFASC
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	NFASC
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	NFASC
chr18:44788908-78015180	8492	33226273	3	rs9944807	rs12960632	579.2	0	NFATC1
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	NFATC2
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	NFATC2
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	NFATC2
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	NFATC2
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	NFKB2
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	NFKB2
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	NFKB2
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	NFKB2
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	NFKB2
chr14:26018408-44486343	3682	18467936	3	rs10138454	rs9323093	17.669	0	NFKBIA
chr14:35760062-35886955	27	126894	4	rs17536892	rs2415290	5.425	0	NFKBIA
chr14:35433187-35884639	78	451453	3	rs2273154	rs1012919	170.85	0	NFKBIA
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	NFKBIA
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	NFKBIA
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	NFKBIB
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	NFKBIB
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	NFKBIE
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	NFKBIE
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	NFKBIE
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	NGB
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	NGB

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	NHP2L1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	NMI
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	NMI
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	NMI
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	NMI
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	NMI
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	NOS1
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	NOS1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	NOS1
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	NOS1
chr2:110829655-110982530	15	152876	1	rs163667	rs13386516	42.435	0	NPHP1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	NPHP1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	NPHP1
chr2:110829655-110982530	15	152876	3	rs163667	rs13386516	33.513	0	NPHP1
chr2:110829655-110929964	12	100310	3	rs163667	rs6747701	18.706	0	NPHP1
chr2:110829655-110934723	13	105069	3	rs163667	rs1154652	10.443	0	NPHP1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	NPHP1
chr2:110871665-110983050	21	111386	1	rs17842653	rs10173717	83.324	0	NPHP1
chr2:110834186-111144295	30	310110	3	rs163660	rs2117529	40.53	0	NPHP1
chr2:110891433-111068787	18	177355	3	rs1588327	rs339216	20.575	0	NPHP1
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	NPHP1
chr2:110857243-111068787	24	211545	3	rs6716800	rs339216	35.798	0	NPHP1
chr2:110732676-111068787	32	336112	3	rs12467706	rs339216	109.625	0	NPHP1
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	NPHP1
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	NPY2R
chr4:137206602-158430547	3577	21223946	3	rs1597600	rs12507865	83.533	0	NPY2R
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	NPY2R

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	NPY2R
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	NPY2R
chr4:126374899-162380016	6166	36005118	1	rs4834042	rs17041092	33.404	0	NPY2R
chr4:155739051-165849854	1997	10110804	1	rs7691720	rs10005938	26.215	0	NPY2R
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	NPY2R
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	NRBP1
chr2:27260469-27667297	33	406829	1	rs1124649	rs4803	15.064	0	NRBP1
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	NRBP1
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	NRGN
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	NRGN
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	NRGN
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	NUCB1
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	NUCB1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	NUCB1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	NUDC
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	NUDC
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	OBSCN
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	OBSCN
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	OBSCN
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	OBSCN
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	OBSCN
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	OBSCN
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	OBSCN
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	OGG1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	OPRD1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	OPRD1
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	OPRK1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	OPRK1
chr8:53908875-54088142	47	179268	1	rs360974	rs2194910	15.819	50134	OPRK1
chr8:43235525-66712108	3632	23476584	3	rs10091311	rs7001138	58.838	0	OPRK1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	OPRM1
chr6:151495387-165969396	3761	14474010	3	rs9322304	rs1022180	22.826	0	OPRM1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	OPRM1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	OPRM1
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	OPRM1
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	OPRM1
chr3:152392877-152613883	31	221007	3	rs9828639	rs2872090	1.227	0	P2RY1
chr3:145967173-173899890	4912	27932718	3	rs9863647	rs7618997	46.396	0	P2RY1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	P2RY1
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	P2RY1
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	P2RY1
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	P2RY1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	PA2G4
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	PA2G4
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	PA2G4
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	PA2G4
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	PABPC4
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	PABPC4
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	PAEP
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	PAEP
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	PAFAH1B1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PAFAH1B3
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PAFAH1B3
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	PAM

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:93678849-103794722	1632	10115874	3	rs160270	rs2963216	3.838	0	PAM
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	PAM
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	PAM
chr5:84160703-104650005	3339	20489303	1	rs6860783	rs560688	92.914	0	PAM
chr5:80735161-125293366	8499	44558206	1	rs1541830	rs327816	52.167	0	PAM
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	PAM
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	PARD6A
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	PARD6A
chr16:67634786-67780829	11	146044	1	cnvi0008013	rs9925393	12.023	0	PARD6A
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	PARD6A
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	PARD6B
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	PARD6B
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	PARD6B
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	PARD6B
chr18:44788908-78015180	8492	33226273	3	rs9944807	rs12960632	579.2	0	PARD6G
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	PAWR
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	PAWR
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	PAWR
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	PAWR
chr12:79291372-80266372	130	975001	1	rs1551847	rs2698261	34.672	0	PAWR
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	PAWR
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	PCBP1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	PCBP1
chr2:69979290-70389900	49	410611	3	rs10177224	rs11677137	16.309	0	PCBP1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	PCBP1
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	PCBP1
chr21:44839153-47856106	674	3016954	1	rs2838302	rs2236616	38.158	0	PCBP3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	PCBP3
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	PCBP3
chr21:47091361-47226895	18	135535	1	rs2838973	rs2839002	14.709	0	PCBP3
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	PCBP3
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	PCBP3
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	PCBP3
chr21:46381900-48098560	448	1716661	1	rs8132265	cnvi0019195	712.68	0	PCBP3
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	PCBP3
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	PCDHA4
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	PCDHA4
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	PCDHA4
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	PCDHA4
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	PCMT1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	PCMT1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	PCMT1
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	PCMT1
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	PCMT1
chr21:44839153-47856106	674	3016954	1	rs2838302	rs2236616	38.158	0	PCNT
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	PCNT
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	PCNT
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	PCNT
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	PCNT
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	PCNT
chr21:46381900-48098560	448	1716661	1	rs8132265	cnvi0019195	712.68	0	PCNT
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	PCNT
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	PCP4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	PCP4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	PCP4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	PCP4
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	PCP4
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	PCP4
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	PDC
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	PDC
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	PDC
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	PDC
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	PDC
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	PDC
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PDCD5
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PDCD5
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	PDCL
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	PDCL
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	PDCL
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	PDE1A
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	PDE1A
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	PDE1A
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	PDE1A
chr2:180138805-193144041	2298	13005237	3	rs6746115	rs2592243	132.36	0	PDE1A
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	PDE1B
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	PDE1B
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	PDE1B
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	PDE1B
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	PDE1C
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	PDE1C
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	PDE1C

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	PDE1C
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	PDE1C
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	PDE4DIP
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	PDE4DIP
chr1:121171208-145073750	112	23902543	3	rs4844616	rs634953	101.367	0	PDE4DIP
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	PDE4DIP
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	PDE4DIP
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	PDE6D
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	PDE6D
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	PDE6D
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	PDE6G
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	PDE6G
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	PDIA2
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	PDLIM7
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	PDLIM7
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	PDPK1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	PEA15
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	PEA15
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	PEA15
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	PEA15
chr5:39526068-67275356	4441	27749289	1	rs16869031	rs999826	77.848	0	PELO
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	PELO
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	PELO
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	PFDN1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	PFDN1
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	PFDN1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	PFDN1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	PFDN4
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	PFDN4
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	PFDN4
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	PFDN4
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	PFDN5
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	PFDN5
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	PFDN5
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	PFDN5
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	PFKFB2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	PFKFB2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	PFKFB2
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	PFKFB2
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	PFKFB2
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	PFKFB2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	PFKFB2
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	PFKFB2
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	PFN1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	PGM1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	PGM1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	PGM1
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	PHKB
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	PHKG1
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	PHKG1
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	PHKG1
chr7:56147898-56348924	35	201027	3	cnvi0001044	rs940494	33.6	0	PHKG1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	PHKG1
chr16:29441284-33923125	585	4481842	3	rs7206789	rs4043755	42.437	0	PHKG2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	PHKG2
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	PIAS4
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	PIAS4
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PIAS4
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	PICK1
chr18:25388300-75954881	11539	50566582	1	rs11083228	rs1876021	39.235	0	PIK3C3
chr18:1583633-58142042	11490	56558410	3	rs9945988	rs1560399	3.736	0	PIK3C3
chr18:26550830-63713914	8241	37163085	1	rs16945738	rs2715304	17.922	0	PIK3C3
chr18:26162481-67193217	9255	41030737	1	rs12458903	rs9961907	31.327	0	PIK3C3
chr18:30929223-44720664	2910	13791442	3	rs10775453	rs9304343	535.348	0	PIK3C3
chr3:166503411-190576461	4854	24073051	1	rs11925936	rs1393054	31.414	0	PIK3CA
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	PIK3CA
chr3:164955741-191742104	5741	26786364	1	rs2218152	rs9835019	52.438	0	PIK3CA
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	PIK3CA
chr3:177912894-197551411	4129	19638518	3	rs9290640	rs1273562	185.507	0	PIK3CA
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	PIK3CG
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	PIK3CG
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	PIK3CG
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	PIK3CG
chr7:84302877-110993169	5183	26690293	3	rs4338048	rs10254893	203.09	0	PIK3CG
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	PIK3R1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	PIK3R1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	PIK3R1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	PLA2G7
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	PLA2G7
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	PLA2G7
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	PLCB1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	PLCB1
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	PLCB1
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	PLCB2
chr15:32939946-43104406	2544	10164461	3	rs12594777	rs13380301	32.942	0	PLCB2
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	PLCB3
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	PLCB3
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	PLCB3
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PLCB3
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	PLCD1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	PLCD1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	PLCD1
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	PLCG2
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	PLCG2
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	PLCG2
chr3:166503411-190576461	4854	24073051	1	rs11925936	rs1393054	31.414	0	PLD1
chr3:145967173-173899890	4912	27932718	3	rs9863647	rs7618997	46.396	0	PLD1
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	PLD1
chr3:164955741-191742104	5741	26786364	1	rs2218152	rs9835019	52.438	0	PLD1
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	PLD1
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	PLD1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	PLD2
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PLEKHA4
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	PLEKHA4
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PLEKHA4
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	PLK1
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	POLA2
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	POLA2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	POLA2
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	POLA2
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	POLB
chr8:41983076-50280013	418	8296938	1	rs12544318	rs12677656	39.988	0	POLB
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	POLB
chr8:25304020-43159151	3371	17855132	3	rs10503771	cnvi0018779	263.504	0	POLB
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	POLR2C
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	POLR3F
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	POLR3F
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	POLR3F
chr20:18389203-18575485	42	186283	1	rs4814744	rs6045492	14.642	0	POLR3F
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	POLR3F
chr22:43483242-51178090	2461	7694849	3	rs8141749	rs2285395	30.687	0	PPARA
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	PPARA
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	PPEF2
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	PPEF2
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	PPEF2
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	PPEF2
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	PPEF2
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	PPEF2
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	PPIH
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	PPIH
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	PPM1A
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	PPM1A
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	PPP1R13B
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	PPP1R13B
chr14:103847274-107188715	464	3341442	3	rs8020912	rs4280141	104.64	0	PPP1R13B

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PPP1R14A
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PPP1R14A
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PPP2R1A
chr19:52365654-54612628	524	2246975	3	rs4514789	rs254262	59.657	0	PPP2R1A
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	PPP2R1A
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PPP2R1A
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	PPP3CA
chr4:89603085-113991140	4018	24388056	3	rs2972038	rs2279892	28.405	0	PPP3CA
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	PPP3CA
chr4:102178963-102407109	19	228147	1	rs2850965	rs1863575	20.006	0	PPP3CA
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	PPP3CA
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	PPP3CA
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	PPP3CA
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	PPP3CA
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	PPYR1
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	PPYR1
chr10:46990728-47670202	87	679475	3	rs7898282	rs12774812	148.333	0	PPYR1
chr10:46928388-47703613	103	775226	3	rs7915055	rs4128664	211.228	0	PPYR1
chr10:47020220-47121726	9	101507	3	rs4434936	rs6599598	18.769	0	PPYR1
chr10:46565132-49372024	398	2806893	3	cnvi0015902	rs1111323	101.866	0	PPYR1
chr10:46961667-47703613	102	741947	3	rs506372	rs4128664	61.091	0	PPYR1
chr10:47020220-47121726	9	101507	3	rs4434936	rs6599598	15.584	0	PPYR1
chr10:46928388-52437780	1060	5509393	3	rs7915055	rs3001866	425.826	0	PPYR1
chr10:46691610-49246290	367	2554681	3	rs2611445	rs1058785	74.315	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	198.089	0	PPYR1
chr10:46928388-49059803	333	2131416	3	rs7915055	rs4926101	51.799	0	PPYR1
chr10:46961667-47670202	88	708536	3	rs506372	rs12774812	112.263	0	PPYR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	124.114	0	PPYR1
chr10:46961667-49059803	332	2098137	3	rs506372	rs4926101	252.089	0	PPYR1
chr10:47020220-47748912	102	728693	3	rs4434936	rs3013867	217.507	0	PPYR1
chr10:46928388-49059803	333	2131416	3	rs7915055	rs4926101	32.715	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	139.094	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	156.17	0	PPYR1
chr10:46769902-49047366	348	2277465	1	cnvi0015917	cnvi0022253	48.528	0	PPYR1
chr10:46928388-47088968	9	160581	3	rs7915055	rs28702886	7.159	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	97.267	0	PPYR1
chr10:46928388-47149117	13	220730	3	rs7915055	rs4979753	20.682	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	15.813	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	124.017	0	PPYR1
chr10:46961667-47088968	8	127302	3	rs506372	rs28702886	21.05	0	PPYR1
chr10:46928388-49201964	334	2273577	3	rs7915055	rs3013936	217.279	0	PPYR1
chr10:47041592-47164700	10	123109	3	rs4593952	cnvi0019847	26.227	0	PPYR1
chr10:47020220-47121726	9	101507	3	rs4434936	rs6599598	19.555	0	PPYR1
chr10:46928388-47121726	12	193339	3	rs7915055	rs6599598	17.084	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	72.604	0	PPYR1
chr10:46961667-47149117	12	187451	3	rs506372	rs4979753	25.412	0	PPYR1
chr10:46961667-47099529	9	137863	3	rs506372	rs4481963	14.479	0	PPYR1
chr10:46961667-47099529	9	137863	3	rs506372	rs4481963	5.516	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	17.522	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	8.359	0	PPYR1
chr10:46928388-47748912	105	820525	3	rs7915055	rs3013867	115.204	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	21.039	0	PPYR1
chr10:47020220-47121726	9	101507	3	rs4434936	rs6599598	11.163	0	PPYR1
chr10:46892172-47149117	15	256946	3	cnvi0015924	rs4979753	35.314	0	PPYR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	13.506	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	21.312	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	15.771	0	PPYR1
chr10:46990728-47748912	103	758185	3	rs7898282	rs3013867	14.294	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	164.218	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	12.386	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	11.748	0	PPYR1
chr10:46990728-47703613	101	712886	3	rs7898282	rs4128664	119.651	0	PPYR1
chr10:88874-53366180	12853	53277307	3	cnvi0015449	rs10998465	319.021	0	PPYR1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	PRDX1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	PRDX1
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	PRG2
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	PRG2
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	PRG2
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PRG2
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	PRKACA
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PRKACA
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	PRKCA
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	PRKCA
chr17:61016209-66240093	890	5223885	1	rs1588368	rs11658645	37.309	0	PRKCA
chr17:59314257-66170047	1135	6855791	1	rs758467	rs4558468	71.379	0	PRKCA
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	PRKCA
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	PRKCD
chr3:53033796-53274602	48	240807	3	rs12635298	rs2306569	0.826	0	PRKCD
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	PRKCD
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	PRKCD
chr19:53533161-54743217	317	1210057	3	rs2870438	rs17239607	11.393	0	PRKCG

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:52365654-54612628	524	2246975	3	rs4514789	rs254262	59.657	0	PRKCG
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	PRKCG
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PRKCG
chr3:166503411-190576461	4854	24073051	1	rs11925936	rs1393054	31.414	0	PRKCI
chr3:145967173-173899890	4912	27932718	3	rs9863647	rs7618997	46.396	0	PRKCI
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	PRKCI
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	PRKCI
chr3:164955741-191742104	5741	26786364	1	rs2218152	rs9835019	52.438	0	PRKCI
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	PRKCI
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	PRKCI
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	PRKCZ
chr1:1229770-2378046	167	1148277	1	rs6669227	rs34241773	44.903	0	PRKCZ
chr1:2113565-2379248	78	265684	1	rs262688	rs11581548	72.771	0	PRKCZ
chr1:1911558-2218100	55	306543	1	rs28645431	rs12119470	41.757	0	PRKCZ
chr1:1201632-2182470	109	980839	1	rs12402622	rs260512	27.748	0	PRKCZ
chr1:1254841-3342804	386	2087964	1	rs10907179	rs870171	39.259	0	PRKCZ
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	PRKCZ
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	PRKG1
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	PRKG1
chr10:53679060-53826682	70	147623	1	rs1937683	rs10824010	27.553	0	PRKG1
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	PRKG1
chr10:88874-53366180	12853	53277307	3	cnvi0015449	rs10998465	319.021	0	PRKG1
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	PRLHR
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	PRLHR
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	PRLHR
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	PRLHR
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PRMT1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	PRMT1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PRMT1
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	PRPSAP1
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	PRPSAP1
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	PSAT1
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	PSAT1
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	PSAT1
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	PSAT1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	PSEN1
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	PSEN1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	PSEN2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	PSEN2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	PSEN2
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	PSEN2
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	PSEN2
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	PSEN2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	PSEN2
chr1:226423572-227452700	215	1029129	1	rs6605032	rs1969230	24.875	0	PSEN2
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	PSEN2
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PSG9
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	PSG9
chr19:43318068-43774853	60	456786	3	rs10410612	rs11672322	88.945	0	PSG9
chr19:43663086-43840088	54	177003	1	rs12460930	rs2159134	65.237	0	PSG9
chr19:43465816-43774853	41	309038	3	rs17345014	rs11672322	25.803	0	PSG9
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PSG9
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	PSMA1
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PSMA1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	PSMA2
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	PSMA2
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	PSMA2
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	PSMA2
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	PSMA2
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	PSMC1
chr14:90716051-90836365	22	120315	1	rs11159958	rs11626241	15.241	0	PSMC1
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	PSMC1
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	PSMC1
chr2:231927569-232035793	10	108225	1	rs3815844	rs2032953	14.229	0	PSMD1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	PSMD1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	PSMD1
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	PSMD1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	PSMD11
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	PSMD11
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PSMD13
chr3:166503411-190576461	4854	24073051	1	rs11925936	rs1393054	31.414	0	PSMD2
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	PSMD2
chr3:164955741-191742104	5741	26786364	1	rs2218152	rs9835019	52.438	0	PSMD2
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	PSMD2
chr3:177912894-197551411	4129	19638518	3	rs9290640	rs1273562	185.507	0	PSMD2
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	PSMD6
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	PSMD6
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	PSMD6
chr14:22513116-32242747	1997	9729632	1	rs4982546	rs17098165	31.673	0	PSME1
chr14:22349686-25012115	755	2662430	1	rs994827	rs7142675	27.602	0	PSME1
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	PSME1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr13:20211434-20377448	13	166015	3	rs11617480	rs9508901	22.015	0	PSPC1
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	PSPC1
chr13:20338643-20442879	14	104237	1	rs4769903	rs9552026	14.251	0	PSPC1
chr13:19771535-20664819	93	893285	1	rs9511997	rs9509033	30.263	0	PSPC1
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	PSPC1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	PTGIR
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	PTGIR
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PTGIR
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	PTP4A1
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	PTP4A1
chr6:62697746-67410283	787	4712538	1	rs6455128	rs9294717	74.311	0	PTP4A1
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	PTP4A1
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	PTP4A3
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	PTP4A3
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	PTP4A3
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	PTP4A3
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	PTPN11
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	PTPN11
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	PTPN11
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	PTPN11
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	PTPN11
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	PTPN12
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	PTPN12
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	PTPN12
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	PTPN12
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	PTPN6
chr20:2882947-3055513	33	172567	1	rs6138938	rs4813627	15.318	0	PTPRA

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	PTPRA
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	PTPRJ
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	PTPRJ
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	PTPRJ
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PTPRJ
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	PTPRS
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	PTPRS
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	PTPRU
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	PTPRU
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	PXN
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	PXN
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	PXN
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	PXN
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	PYGL
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	PYGL
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	PYGM
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	PYGM
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	PYGM
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	PYGM
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	QRICH2
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	QRICH2
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	RAB27A
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	RAB27A
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	RAB27A
chr15:43392075-66051345	4963	22659271	3	rs8028608	rs6494537	59.842	0	RAB27A
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	RAB3B
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	RAB3B

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	RAB5A
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	RAB5A
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	RAB8B
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	RAB8B
chr15:43392075-66051345	4963	22659271	3	rs8028608	rs6494537	59.842	0	RAB8B
chr19:42462788-42637232	14	174445	1	rs1075728	rs3826705	19.764	0	RABAC1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	RABAC1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	RABAC1
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	RAC1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	RACGAP1
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	RACGAP1
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	RACGAP1
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	RACGAP1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	RAF1
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	RALA
chr7:7724805-53845684	11772	46120880	3	rs10263415	rs6948633	42.007	0	RALA
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	RALA
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	RALA
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	RALA
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	RALB
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	RALB
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	RALB
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	RALB
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	RALB
chr22:19601238-20241160	201	639923	3	rs8135473	rs1567871	11.687	0	RANBP1
chr22:18907405-21465780	610	2558376	3	rs9618419	rs11703181	1799.961	0	RANBP1
chr22:18877787-21462353	613	2584567	1	rs2543958	rs140392	772.063	0	RANBP1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr22:18877787-21462353	512	2584567	1	rs2543958	rs140392	1596.687	0	RANBP1
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	RANBP1
chr13:36707502-103656104	13622	66948603	1	rs3827890	rs1952590	38.726	0	RAP2A
chr13:87746779-104646511	3908	16899733	3	rs9301986	rs17414312	27.724	0	RAP2A
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	RAP2A
chr13:90018392-105190802	4136	15172411	1	rs7335222	rs11841281	42.954	0	RAP2A
chr13:65193124-115053155	12025	49860032	3	rs9598811	rs7327124	78.057	0	RAP2A
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	RASSF1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	RASSF1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	RASSF1
chr14:22513116-32242747	1997	9729632	1	rs4982546	rs17098165	31.673	0	RBM23
chr14:22513116-24480333	636	1967218	1	rs4982546	rs4982844	28.02	0	RBM23
chr14:22349686-25012115	755	2662430	1	rs994827	rs7142675	27.602	0	RBM23
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	RBM23
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	RBM5
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	RBM5
chr3:50028385-50132131	12	103747	1	rs4688758	rs2624834	12.939	0	RBM5
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	RBM5
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	RCC1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	RCC1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	RCC2
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	RCC2
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	RCVRN
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	REL
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	REL
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	REL
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	REL

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	RELA
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	RELA
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	RELA
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	RELA
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	RELB
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	RELB
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	RELB
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	RFC5
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	RFC5
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	RFC5
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	RFC5
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	RGS10
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	RGS10
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	RGS10
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	RGS10
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	RGS12
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RGS13
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	RGS13
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RGS13
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	RGS13
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	RGS13
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	RGS13
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS13
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	RGS13
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	RGS14
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	RGS14
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RGS16

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	RGS16
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RGS16
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	RGS16
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS16
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	RGS16
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RGS18
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	RGS18
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RGS18
chr1:191636974-191875752	41	238779	1	rs12118448	rs9427811	14.635	251840	RGS18
chr1:191772972-192059022	49	286051	1	rs9427526	rs10921078	19.199	68570	RGS18
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	RGS18
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	RGS18
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	RGS18
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS18
chr1:191640296-191788524	25	148229	1	rs10920990	rs17402518	14.942	339068	RGS18
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	RGS18
chr20:54870769-62912463	2390	8041695	3	rs6069696	rs6062363	249.708	0	RGS19
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RGS2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	RGS2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RGS2
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	RGS2
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	RGS2
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	RGS2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS2
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	RGS2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RGS4
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RGS4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	RGS4
chr1:162920811-163351718	112	430908	1	rs2343490	rs3010344	311.918	0	RGS4
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	RGS4
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RGS5
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RGS5
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	RGS5
chr1:162920811-163351718	112	430908	1	rs2343490	rs3010344	311.918	0	RGS5
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	RGS5
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RGS7
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	RGS7
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RGS7
chr1:238655362-242087644	1078	3432283	3	rs2392861	rs4658565	806.215	0	RGS7
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS7
chr1:236848751-249219320	3293	12370570	3	rs819666	cnvi0018731	920.725	0	RGS7
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	RHO
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	RHO
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	RHO
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	RHO
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	RHO
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	RHO
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	RHOA
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	RHOA
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	RHOA
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	RHOH
chr4:39472311-63464732	3456	23992422	3	rs2687975	rs4403080	120.672	0	RHOH
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	RHOH
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	RHOH

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	RHOH
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	RIC8A
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	RIC8B
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	RIC8B
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	RIC8B
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	RIC8B
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	RIF1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	RIF1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	RIF1
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	RIF1
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	RIF1
chr18:1583633-58142042	11490	56558410	3	rs9945988	rs1560399	3.736	0	RIOK3
chr18:10274-30780701	6393	30770428	3	cnvi0008694	rs271534	338.777	0	RIOK3
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	428.177	0	RIPK1
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	53.123	0	RIPK1
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	80.695	0	RIPK1
chr6:1177990-29899147	39	28721158	0	rs2428530	rs2394704	44.381	0	RIPK1
chr6:1175965-29899147	43	28723183	0	rs1611522	rs2394704	52.089	0	RIPK1
chr6:2585208-31281876	-2	28696669	1	rs1634746	rs1634747	31.615	0	RIPK1
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	63.572	0	RIPK1
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	34.598	0	RIPK1
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	390.234	0	RIPK1
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	31.699	0	RIPK1
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	43.568	0	RIPK1
chr6:181089-30430875	1806	30249787	3	rs1535053	rs35792611	80.394	0	RIPK1
chr8:89855372-90385087	98	529716	1	rs10504865	rs4458917	376.728	384888	RIPK2
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	RIPK2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	RIPK2
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	RIPK2
chr8:89499072-90708428	202	1209357	3	rs7832310	rs6981616	372.548	61547	RIPK2
chr8:76354446-113652365	6767	37297920	1	rs830783	rs16883889	127.023	0	RIPK2
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	RIPK2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RIT1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RIT1
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	RIT1
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	RIT1
chr18:25388300-75954881	11539	50566582	1	rs11083228	rs1876021	39.235	0	RIT2
chr18:1583633-58142042	11490	56558410	3	rs9945988	rs1560399	3.736	0	RIT2
chr18:40271967-40472219	29	200253	1	rs1430916	rs656134	18.041	0	RIT2
chr18:26550830-63713914	8241	37163085	1	rs16945738	rs2715304	17.922	0	RIT2
chr18:26162481-67193217	9255	41030737	1	rs12458903	rs9961907	31.327	0	RIT2
chr18:30929223-44720664	2910	13791442	3	rs10775453	rs9304343	535.348	0	RIT2
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	RNF10
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	RNF10
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	RNF10
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	RNF10
chr1:51547424-51719315	12	171892	1	rs11205809	rs6701572	18.548	0	RNF11
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	RNF11
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	RNF11
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	RPA2
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	RPA2
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	RPL12
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	RPL12
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	RPL12

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	RPL37A
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	RPL37A
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	RPL37A
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	RPL37A
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	RPLP2
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	RPLP2
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	RPN2
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	RPN2
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	RPN2
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	RPN2
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	RPS14
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	RPS14
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	RPS14
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	RPS14
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	RRAD
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	RRAD
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	RRAD
chr11:3906740-4201641	55	294902	1	rs11600857	rs2044138	27.361	0	RRM1
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	RRM1
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	RRM1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	RTN4
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	RTN4
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	RTN4
chr2:55031023-55437014	143	405992	1	rs17345167	rs17039586	453.996	0	RTN4
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	RTN4
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	RUVBL2
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	RUVBL2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	RUVBL2
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	RYR1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	RYR1
chr1:237570457-237675464	37	105008	1	rs4659495	rs2618721	15.007	0	RYR2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	RYR2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	RYR2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	RYR2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RYR2
chr1:237584925-237904870	86	319946	1	rs4593814	rs10925504	31.95	0	RYR2
chr1:236848751-249219320	3293	12370570	3	rs819666	cnvi0018731	920.725	0	RYR2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	S100A6
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	S100A6
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	S100A6
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	S100A6
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	S100A8
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	S100A8
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	S100A8
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	S100A8
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	SACS
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	SACS
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	SACS
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	SARS
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	SARS
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	SARS
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	SARS
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	SCN8A
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	SCN8A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	SCN8A
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	SCN8A
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	SCTR
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	SCTR
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	SCTR
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	SCTR
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	SCTR
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	SDC1
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	SDC1
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	SDC2
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	SDC2
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	SDC2
chr8:76354446-113652365	6767	37297920	1	rs830783	rs16883889	127.023	0	SDC2
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	SDC2
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	SDC3
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	SDC3
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	SDC4
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	SDC4
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	SDC4
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	SDC4
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	SDCBP
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	SDCBP
chr8:43235525-66712108	3632	23476584	3	rs10091311	rs7001138	58.838	0	SDCBP
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	SDCBP2
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	SDPR
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	SDPR
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	SDPR

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	SDPR
chr2:185050218-212752193	4583	27701976	1	rs1526196	rs6727114	45.31	0	SDPR
chr2:180138805-193144041	2298	13005237	3	rs6746115	rs2592243	132.36	0	SDPR
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	SELE
chr1:169556446-171300348	340	1743903	1	rs9332480	rs7541160	32.81	0	SELE
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	SELE
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	SELE
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	SELE
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	SELENBP1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	SELENBP1
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	SELENBP1
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	SELENBP1
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	SEMG1
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	SEMG1
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	SEMG1
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	SEMG1
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	SEMG2
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	SEMG2
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	SEMG2
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	SEMG2
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	428.177	0	SERPINB9
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	53.123	0	SERPINB9
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	80.695	0	SERPINB9
chr6:1177990-29899147	39	28721158	0	rs2428530	rs2394704	44.381	0	SERPINB9
chr6:1175965-29899147	43	28723183	0	rs1611522	rs2394704	52.089	0	SERPINB9
chr6:2585208-31281876	-2	28696669	1	rs1634746	rs1634747	31.615	0	SERPINB9
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	63.572	0	SERPINB9

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	34.598	0	SERPINB9
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	390.234	0	SERPINB9
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	31.699	0	SERPINB9
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	43.568	0	SERPINB9
chr6:181089-30430875	1806	30249787	3	rs1535053	rs35792611	80.394	0	SERPINB9
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	SET
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	SET
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	SET
chr21:36927793-37647438	142	719646	3	rs2205031	rs9980084	187.28	0	SETD4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	SETD4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	SETD4
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	SETD4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	SETD4
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	SETD4
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	SETD4
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	SETDB1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	SETDB1
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	SETDB1
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	SETDB1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	SF3B14
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	SF3B14
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	SGOL1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	SGOL1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	SGOL2
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	SGOL2
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	SGOL2
chr2:185050218-212752193	4583	27701976	1	rs1526196	rs6727114	45.31	0	SGOL2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:193255360-242529978	10289	49274619	3	rs1351905	cnvi0010399	93.244	0	SGOL2
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	SH2B3
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	SH2B3
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	SH2B3
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	SH2B3
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	SHANK1
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	SHANK1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	SHANK1
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	SHBG
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	SHC1
chr1:154752736-154944156	62	191421	3	rs10908440	rs12076073	65.821	0	SHC1
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	SHC1
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	SHC1
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	SHC1
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	SIAH1
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	SIRT2
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	SIRT2
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	SLC1A1
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	SLC1A1
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	SLC1A1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	SLC2A1
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	SLC2A1
chr5:141659-19010008	4662	18868350	3	rs11741126	rs4642370	50.124	0	SLC6A3
chr5:506051-4746181	1345	4240131	3	rs6864158	rs7716294	447.942	0	SLC6A3
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	SLC6A9
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	SLC6A9
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	SLC9A3R1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	SLC9A3R1
chr15:51688996-102398060	11030	50709065	1	rs2459396	rs7181527	36.939	0	SMAD3
chr15:53775670-96810867	9973	43035198	1	rs657495	rs2589238	49.204	0	SMAD3
chr15:66108544-102427006	8615	36318463	3	cnvi0007613	rs11632620	159.164	0	SMAD3
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	SMAD5
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	SMAD5
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	SMAD5
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	SMAD5
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	SMN2
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	SMN2
chr5:69323596-70398523	189	1074928	1	cnvi0017237	cnvi0017343	91.012	0	SMN2
chr5:69268538-70308861	189	1040324	3	cnvi0017230	cnvi0023254	49.308	0	SMN2
chr5:69243138-69405204	46	162067	3	cnvi0023208	cnvi0023221	30.078	0	SMN2
chr5:69677532-70379466	127	701935	3	cnvi0017312	cnvi0023557	34.65	0	SMN2
chr5:69283377-70251701	177	968325	1	cnvi0023548	cnvi0021172	83.517	0	SMN2
chr5:69291141-70271505	180	980365	1	cnvi0017232	cnvi0021174	88.653	0	SMN2
chr5:69279340-70251701	179	972362	1	cnvi0017231	cnvi0021172	78.887	0	SMN2
chr5:69323596-70275720	177	952125	1	cnvi0017237	cnvi0017327	103.484	0	SMN2
chr5:69268538-70251701	181	983164	3	cnvi0017230	cnvi0021172	60.056	0	SMN2
chr5:69328641-70291250	177	962610	1	cnvi0023210	cnvi0017323	62.594	0	SMN2
chr5:69688350-70369397	124	681048	1	cnvi0017249	cnvi0018714	25.677	0	SMN2
chr5:69243138-70291250	191	1048113	1	cnvi0023208	cnvi0017323	65.988	0	SMN2
chr5:68835256-70379466	254	1544211	1	cnvi0017190	cnvi0023557	55.77	0	SMN2
chr5:69291141-70251701	176	960561	1	cnvi0017232	cnvi0021172	46.783	0	SMN2
chr5:69283377-70275720	182	992344	1	cnvi0023548	cnvi0017327	79.66	0	SMN2
chr5:69243138-70488200	217	1245063	1	cnvi0023208	cnvi0021181	90.718	0	SMN2
chr5:68976129-70599000	267	1622872	3	cnvi0017227	cnvi0017334	64.229	0	SMN2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:68835256-70450158	262	1614903	3	cnvi0017190	cnvi0017349	49.942	0	SMN2
chr5:69440806-70593467	185	1152662	1	cnvi0017247	cnvi0026040	53.84	0	SMN2
chr5:69688350-70379466	126	691117	3	cnvi0017249	cnvi0023557	32.967	0	SMN2
chr5:69174834-70636542	245	1461709	3	cnvi0017202	cnvi0017338	140.179	0	SMN2
chr5:68894461-70636542	283	1742082	3	cnvi0017213	cnvi0017338	68.289	0	SMN2
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	SMN2
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	SMPD3
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	SMPD3
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	SMPD3
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	SNAP23
chr15:32939946-43104406	2544	10164461	3	rs12594777	rs13380301	32.942	0	SNAP23
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	SNAP25
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	SNAP25
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	SNAP25
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	SNAP91
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	SNAP91
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	SNAP91
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	SNAP91
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	SNAP91
chr6:84250330-84391540	19	141211	1	rs7741310	rs1454130	14.57	0	SNAP91
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	SNAP91
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	SNAP91
chr6:79198069-99893938	4062	20695870	3	rs1321584	rs4504482	200.961	0	SNAP91
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	SNCA
chr4:89603085-113991140	4018	24388056	3	rs2972038	rs2279892	28.405	0	SNCA
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	SNCA
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	SNCA

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:90618264-90784528	33	166265	1	rs17286290	rs2736994	16.242	0	SNCA
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	SNCA
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	SNCA
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	SNCA
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	SNRPB2
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	SNRPB2
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	SNRPB2
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	SNRPB2
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	SNTA1
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	SNTA1
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	SNTA1
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	SNTA1
chr15:20058438-32544679	2394	12486242	3	rs12591240	cnvi0018163	296.82	0	SNURF
chr15:22267462-32461463	2232	10194002	3	rs4123826	rs286103	218.215	0	SNURF
chr18:25388300-75954881	11539	50566582	1	rs11083228	rs1876021	39.235	0	SOCS6
chr18:64480206-70125971	1534	5645766	3	rs10516001	rs1347013	65.248	0	SOCS6
chr18:46516210-68441007	5088	21924798	1	rs7229153	rs1282652	51.891	0	SOCS6
chr18:65585580-69281510	1074	3695931	1	rs11875790	rs8090683	111.579	0	SOCS6
chr18:62041997-76047493	3846	14005497	1	rs1421538	rs8085865	33.212	0	SOCS6
chr18:44788908-78015180	8492	33226273	3	rs9944807	rs12960632	579.2	0	SOCS6
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	SOCS7
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	SOCS7
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	SORD
chr15:44763598-47394943	502	2631346	3	rs7172106	rs4095484	142.088	0	SORD
chr15:43392075-66051345	4963	22659271	3	rs8028608	rs6494537	59.842	0	SORD
chr6:10123365-31221039	-3135	21097675	1	rs2181334	rs4416711	318.459	0	SOX4
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	428.177	0	SOX4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	SOX4
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	53.123	0	SOX4
chr6:19044000-31286381	-6774	12242382	1	rs6922929	rs9265057	31.384	0	SOX4
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	80.695	0	SOX4
chr6:1177990-29899147	39	28721158	0	rs2428530	rs2394704	44.381	0	SOX4
chr6:1175965-29899147	43	28723183	0	rs1611522	rs2394704	52.089	0	SOX4
chr6:2585208-31281876	-2	28696669	1	rs1634746	rs1634747	31.615	0	SOX4
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	63.572	0	SOX4
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	34.598	0	SOX4
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	390.234	0	SOX4
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	31.699	0	SOX4
chr6:1171596-29895228	43	28723633	0	rs3128994	rs9259831	43.568	0	SOX4
chr6:19044000-31286381	-6774	12242382	0	rs6922929	rs9265057	33.119	0	SOX4
chr6:181089-30430875	1806	30249787	3	rs1535053	rs35792611	80.394	0	SOX4
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	SPAG1
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	SPAG1
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	SPAG1
chr8:76354446-113652365	6767	37297920	1	rs830783	rs16883889	127.023	0	SPAG1
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	SPAG1
chr16:88780175-89789898	143	1009724	1	rs4782321	rs6500437	27.339	0	SPG7
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	SPP1
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	SPP1
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	SPP1
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	SPP1
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	SPP1
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	SPP1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	SPTBN1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	SPTBN1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	SPTBN1
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	SPTBN1
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	SQSTM1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	SQSTM1
chr20:35942718-36175566	43	232849	3	rs6104528	rs4810841	2.708	0	SRC
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	SRC
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	SRC
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	SRC
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	SRC
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	SRGAP3
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	STARD13
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	STARD13
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	STARD13
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	STAU1
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	STAU1
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	STAU1
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	STAU1
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	STC2
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	STC2
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	STRAP
chr12:8171838-32535863	5853	24364026	3	rs11609309	rs7963182	23.697	0	STRAP
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	STRAP
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	STRAP
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	STRN
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	STRN
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	STRN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	STRN4
chr19:43257015-55294329	-7309	12037315	3	rs7246152	rs2569676	21.402	0	STRN4
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	STRN4
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	STX12
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	STX12
chr16:29441284-33923125	585	4481842	3	rs7206789	rs4043755	42.437	0	STX4
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	STX4
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	STX5
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	STX5
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	STX5
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	STX5
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	STXBP1
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	STXBP1
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	STXBP1
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	STXBP3
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	STXBP3
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	STXBP3
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	STXBP3
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	SULT1E1
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	SULT1E1
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	SULT1E1
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	SULT1E1
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	SULT1E1
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	SULT1E1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	SUMO4
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	SUMO4
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	SUMO4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	SUMO4
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	SUMO4
chr9:1989033-107532317	18263	105543285	1	rs7864828	rs10820726	39.824	0	SYK
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	SYK
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	SYK
chr9:46587-94335290	17484	94288704	3	rs10814410	rs9409606	762.393	0	SYK
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	SYT1
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	SYT1
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	SYT1
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	SYT1
chr12:79291372-80266372	130	975001	1	rs1551847	rs2698261	34.672	0	SYT1
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	SYT1
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	SYT9
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	SYT9
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	TANC1
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	TANC1
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	TANC1
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	TANC1
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	TANC1
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	TANK
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	TANK
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	TANK
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	TANK
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	TANK
chr16:29441284-33923125	585	4481842	3	rs7206789	rs4043755	42.437	0	TAOK2
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	TAOK2
chr5:49952847-89853069	7268	39900223	3	rs12188654	rs42467	26.225	0	TBCA

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	TBCA
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	TBCA
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	TBCD
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	TBCD
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	TBCE
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	TBCE
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	TBCE
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	TBCE
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	TBCE
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	TBK1
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	TBK1
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	TBK1
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	TBK1
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	TBK1
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	TBXA2R
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	TBXA2R
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	TBXA2R
chr19:1130986-2128054	143	997069	1	rs10413074	rs1017084	25.799	0	TCF3
chr19:859214-1650134	121	790921	1	rs1683564	rs1860661	36.427	0	TCF3
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	TCF3
chr19:629303-4119012	709	3489710	1	rs2283575	rs350887	26.758	0	TCF3
chr19:1351916-1716865	58	364950	1	rs11670805	rs11878765	31.586	0	TCF3
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	TCF3
chr18:25388300-75954881	11539	50566582	1	rs11083228	rs1876021	39.235	0	TCF4
chr18:1583633-58142042	11490	56558410	3	rs9945988	rs1560399	3.736	0	TCF4
chr18:46516210-68441007	5088	21924798	1	rs7229153	rs1282652	51.891	0	TCF4
chr18:26550830-63713914	8241	37163085	1	rs16945738	rs2715304	17.922	0	TCF4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr18:26162481-67193217	9255	41030737	1	rs12458903	rs9961907	31.327	0	TCF4
chr18:44788908-78015180	8492	33226273	3	rs9944807	rs12960632	579.2	0	TCF4
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	TCP1
chr6:151495387-165969396	3761	14474010	3	rs9322304	rs1022180	22.826	0	TCP1
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	TCP1
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	TCP1
chr6:94117546-165103679	15579	70986134	1	rs3799792	rs9347902	34.066	0	TCP1
chr6:100082983-170909002	16393	70826020	3	rs594231	rs12213906	261.313	0	TCP1
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	TDGF1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	TDGF1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	TDGF1
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	TEAD3
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	TEAD3
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	TEAD3
chr14:19917123-65327288	10286	45410166	3	rs2495197	rs9323455	270.291	0	TEP1
chr5:141659-19010008	4662	18868350	3	rs11741126	rs4642370	50.124	0	TERT
chr5:830376-1276121	128	445746	3	rs12657470	cnvi0012572	5.026	0	TERT
chr5:506051-4746181	1345	4240131	3	rs6864158	rs7716294	447.942	0	TERT
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	TFAM
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	TFAM
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	TFAM
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	TFAM
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	TFAM
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	TFAM
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	TGFA
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	TGFA
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	TGFA

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:41212010-82396211	9721	41184202	3	rs12614285	rs934310	396.396	0	TGFA
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	TGM2
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	TGM2
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	TGM2
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	TGM2
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	12047.211	0	TIAM1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	41.154	0	TIAM1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	TIAM1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	TIAM1
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	TIAM1
chr21:10708231-47970581	8807	37262351	3	rs4044122	rs2255397	73.188	0	TIAM1
chr15:29325866-56044189	5303	26718324	3	rs4779705	rs2414433	21.732	0	TJP1
chr15:29659013-30239328	126	580316	1	rs4779618	rs12905328	41.602	0	TJP1
chr15:20058438-32544679	2394	12486242	3	rs12591240	cnvi0018163	296.82	0	TJP1
chr15:22267462-32461463	2232	10194002	3	rs4123826	rs286103	218.215	0	TJP1
chr17:75730493-79302149	880	3571657	3	rs7210773	rs2864474	14.319	0	TK1
chr17:44458950-81047708	-8195	36588759	1	cnvi0016818	rs35680231	35.591	0	TK1
chr17:62662507-81047708	-11496	18385202	3	rs6504246	rs35680231	56.048	0	TK1
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	TLR10
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	TLR10
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	TLR10
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	TLR10
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	TM4SF1
chr3:145967173-173899890	4912	27932718	3	rs9863647	rs7618997	46.396	0	TM4SF1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	TM4SF1
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	TM4SF1
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	TM4SF1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	TM4SF1
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	TNFRSF14
chr1:1254841-3342804	386	2087964	1	rs10907179	rs870171	39.259	0	TNFRSF14
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	TNFRSF14
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	TNFRSF1A
chr1:1005806-105612342	19173	104606537	3	rs3934834	rs1584633	44.152	0	TNFRSF1B
chr1:2006108-109527861	22130	107521754	3	rs2254669	rs839879	162.269	0	TNFRSF1B
chr3:166503411-190576461	4854	24073051	1	rs11925936	rs1393054	31.414	0	TNIK
chr3:145967173-173899890	4912	27932718	3	rs9863647	rs7618997	46.396	0	TNIK
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	TNIK
chr3:164955741-191742104	5741	26786364	1	rs2218152	rs9835019	52.438	0	TNIK
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	TNIK
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	TNIK
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	TNIP2
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	TNNI2
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	TNNI2
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	TNNI3
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	TNNT2
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	TNNT2
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	TNNT2
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	TNNT2
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	TNNT2
chr1:189128124-227340790	7927	38212667	1	rs7515205	rs12752546	167.428	0	TNNT2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	TNNT2
chr1:197187605-226404457	6316	29216853	3	rs10922187	rs3008192	130.989	0	TNNT2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	TOMM20
chr1:178626526-244159143	13064	65532618	3	rs2761477	rs479338	11.373	0	TOMM20

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	TOMM20
chr1:188850774-235423607	10060	46572834	1	rs16829466	rs12409696	43.25	0	TOMM20
chr1:191875752-235423607	9517	43547856	1	rs9427811	rs12409696	62.01	0	TOMM20
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	TOMM20
chr1:226536645-236803753	2600	10267109	3	rs874583	rs10925178	100.109	0	TOMM20
chr17:38388040-38909192	55	521153	3	rs9916782	rs2109217	3.141	0	TOP2A
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	TOP2A
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	TOP2A
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	TP53
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	TPI1
chr16:59854720-89273883	7609	29419164	3	rs1373880	rs8046156	31.884	0	TRADD
chr16:64107047-82920737	4544	18813691	1	rs2319723	rs918661	28.887	0	TRADD
chr16:50219449-89544756	10324	39325308	3	rs6500298	rs3803681	108.108	0	TRADD
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	TRAF1
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	TRAF1
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	TRAF1
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	TRAF2
chr9:139492789-140913833	196	1421045	1	rs28485548	cnvi0002661	28.211	0	TRAF2
chr9:139492789-140212642	109	719854	3	rs28485548	rs13295516	12.464	0	TRAF2
chr9:139725120-140176250	50	451131	1	rs2811750	rs28576426	24.435	0	TRAF2
chr11:24610019-42414566	3388	17804548	3	rs1858156	rs7127426	27.914	0	TRAF6
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	TRAF6
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	TRAF6
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	TRAF6
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	TRIM2
chr4:137206602-158430547	3577	21223946	3	rs1597600	rs12507865	83.533	0	TRIM2
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	TRIM2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	TRIM2
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	TRIM2
chr4:126374899-162380016	6166	36005118	1	rs4834042	rs17041092	33.404	0	TRIM2
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	TRIM2
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	TRIM29
chr11:84128537-120941583	7678	36813047	1	rs488925	rs4643089	29.271	0	TRIM29
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	TRIM29
chr11:98062720-121890280	5422	23827561	1	rs6589308	rs1944465	29.075	0	TRIM29
chr11:74545378-134940416	14496	60395039	3	rs512780	rs11224228	527.758	0	TRIM29
chr5:141659-19010008	4662	18868350	3	rs11741126	rs4642370	50.124	0	TRIO
chr5:13798559-14174106	121	375548	3	rs795544	rs32571	239.534	0	TRIO
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	TRIO
chr11:42185849-126756938	15451	84571090	1	rs4375424	rs10750356	36.99	0	TRMT112
chr11:21723471-131521797	20508	109798327	1	rs11828478	rs2512898	27.565	0	TRMT112
chr11:23168804-106781292	16332	83612489	1	rs11027007	rs7103285	49.747	0	TRMT112
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	TRMT112
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	TRPC1
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	TRPC1
chr3:102240202-195550366	17318	93310165	1	rs1620217	rs11711870	41.031	0	TRPC1
chr3:103140700-144883172	8539	41742473	1	rs4314176	rs6797159	44.122	0	TRPC1
chr3:83075971-196935657	21465	113859687	1	rs9872858	rs34729751	44.35	0	TRPC1
chr3:114889454-177826047	12700	62936594	3	rs6795297	rs7628308	102.526	0	TRPC1
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	TRPC3
chr4:117433230-126039335	1532	8606106	3	rs11734105	rs3956574	31.166	0	TRPC3
chr4:68173959-185767176	20235	117593218	1	rs6552083	rs4862428	61.893	0	TRPC3
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	TRPC3
chr4:63726348-173015421	19817	109289074	1	rs17082970	rs2131002	30.251	0	TRPC3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:69590353-190872778	23145	121282426	3	rs293433	rs12646565	315.633	0	TRPC3
chr13:36707502-103656104	13622	66948603	1	rs3827890	rs1952590	38.726	0	TRPC4
chr13:19584477-81204088	13265	61619612	3	rs1334954	rs1176297	22.162	0	TRPC4
chr13:23742931-115064482	19829	91321552	1	rs4770401	rs7999630	44.074	0	TRPC4
chr13:19121741-63373781	10326	44252041	3	rs9578050	rs9539575	82.761	0	TRPC4
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	TRPV1
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	TRPV4
chr12:59512781-127744939	13469	68232159	3	rs908394	rs7966946	20.62	0	TRPV4
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	TRPV4
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	TRPV4
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	TRPV6
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	TRPV6
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	TRPV6
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	TRPV6
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	TSC22D4
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	TSC22D4
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	TSC22D4
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	TSC22D4
chr7:84302877-110993169	5183	26690293	3	rs4338048	rs10254893	203.09	0	TSC22D4
chr14:80818058-105348552	5492	24530495	3	rs6574553	rs2028416	15.874	0	TSHR
chr14:26898958-104436931	17396	77537974	1	rs1245195	rs11851097	57.233	0	TSHR
chr14:65405722-103799039	8979	38393318	3	rs11623705	rs11628472	266.153	0	TSHR
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	TTBK1
chr6:31289284-56929863	15402	25640580	3	rs9265170	cnvi0015437	25.647	0	TTBK1
chr6:32968276-73449742	15442	40481467	3	rs2395300	rs4235869	415.87	0	TTBK1
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	TTC1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	TTC1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	TTC1
chr6:64844594-169078546	21567	104233953	1	rs4710465	rs601639	46.524	0	TTK
chr6:66609532-147053632	15315	80444101	3	rs9354335	rs4896886	44.941	0	TTK
chr6:73120320-165130872	18715	92010553	1	rs9442780	rs10946016	76.383	0	TTK
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	TTK
chr6:66541198-162520133	19344	95978936	1	rs2000382	rs6901071	27.509	0	TTK
chr6:62697746-94090076	6391	31392331	1	rs6455128	rs3799807	108.85	0	TTK
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	TTK
chr6:79198069-99893938	4062	20695870	3	rs1321584	rs4504482	200.961	0	TTK
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	TTN
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	TTN
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	TTN
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	TTN
chr2:175243501-180024167	926	4780667	3	rs2305292	rs17454311	283.917	0	TTN
chr11:345515-17408630	4247	17063116	3	rs11246094	rs5215	30.474	0	TUB
chr11:211482-66910826	13813	66699345	3	rs2293168	rs4375446	30.249	0	TUB
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	TUBA1A
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	TUBA1A
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	TUBA1A
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	TUBA1A
chr12:10113083-116370432	20594	106257350	1	rs2012504	rs7958254	35.157	0	TUBA1B
chr12:10020267-129866293	23654	119846027	1	rs1597097	rs2170504	45.428	0	TUBA1B
chr12:39967134-84174413	8879	44207280	1	rs11172661	rs11116039	39.568	0	TUBA1B
chr12:207886-50770291	11565	50562406	3	rs868249	rs4477515	43.892	0	TUBA1B
chr22:16871137-51184393	9245	34313257	3	rs131538	rs7284680	209.79	0	TUBA8
chr6:10123365-31221039	-3135	21097675	1	rs2181334	rs4416711	318.459	0	TUBB
chr6:26922906-93578359	19746	66655454	1	rs9348738	rs9363009	27.061	0	TUBB

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	428.177	0	TUBB
chr6:3760708-31957364	8062	28196657	3	rs2187825	cnvi0006380	39.016	0	TUBB
chr6:19044000-31286381	-6774	12242382	1	rs6922929	rs9265057	31.384	0	TUBB
chr6:2585208-31281876	-2	28696669	1	rs1634746	rs1634747	31.615	0	TUBB
chr6:24697388-31341340	-8293	6643953	1	rs2092404	rs9266515	38.794	0	TUBB
chr6:26430981-31878433	-8001	5447453	1	rs2893848	rs519417	55.651	0	TUBB
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	34.598	0	TUBB
chr6:2681610-31453618	81	28772009	3	rs1131896	rs9267212	390.234	0	TUBB
chr6:29253756-32671521	2267	3417766	1	rs9468508	rs9275439	51.553	0	TUBB
chr6:19044000-31286381	-6774	12242382	0	rs6922929	rs9265057	33.119	0	TUBB
chr6:30475431-32449411	-7687	1973981	3	cnvi0005997	rs1964995	153.275	0	TUBB
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	TUBG1
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	TUBG1
chr9:2522475-140068342	25719	137545868	3	rs10966757	rs4074426	93.386	0	TXN
chr9:33180228-132003792	14691	98823565	1	rs7854765	rs9408988	28.69	0	TXN
chr9:100158052-139077343	9815	38919292	3	rs1020884	rs4842126	470.601	0	TXN
chr18:10274-30780701	6393	30770428	3	cnvi0008694	rs271534	338.777	0	TYMS
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	UBE2V2
chr8:49046707-49170958	16	124252	1	rs4433176	rs4552930	12.646	72253	UBE2V2
chr8:41983076-50280013	418	8296938	1	rs12544318	rs12677656	39.988	0	UBE2V2
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	UBE2V2
chr8:43235525-66712108	3632	23476584	3	rs10091311	rs7001138	58.838	0	UBE2V2
chr1:64114301-245591329	29842	181477029	1	rs11208257	rs1173850	37.504	0	UBQLN4
chr1:75098453-243531649	27360	168433197	1	rs12117493	rs10927002	32.113	0	UBQLN4
chr1:79710545-188898319	17303	109187775	1	rs417181	rs16829637	45.89	0	UBQLN4
chr1:109645793-194560463	12025	84914671	3	cnvi0008281	rs10921616	63.121	0	UBQLN4
chr4:31222833-180548076	24457	149325244	1	rs7662351	rs3849606	36.162	0	UCHL1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:39472311-63464732	3456	23992422	3	rs2687975	rs4403080	120.672	0	UCHL1
chr4:22401728-188608857	28456	166207130	1	rs4697297	rs7687115	35.717	0	UCHL1
chr4:29179713-117038307	15513	87858595	1	rs1507441	rs1068807	71.6	0	UCHL1
chr4:179131-68998153	13495	68819023	3	rs7686948	rs7687396	625.133	0	UCHL1
chr12:131894274-133778796	308	1884523	1	rs10848373	rs7975069	29.931	0	ULK1
chr12:131564183-133161346	306	1597164	1	rs2141189	rs11208	31.414	0	ULK1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	ULK1
chr12:132378017-133778796	190	1400780	1	rs11246867	rs7975069	39.951	0	ULK1
chr12:50855195-133778796	17748	82923602	3	rs4351895	rs7975069	159.589	0	ULK1
chr16:176743-50013967	8328	49837225	3	rs2562164	rs12597023	174.392	0	USP7
chr19:266034-18061509	3100	17795476	3	rs2312724	rs7250332	19.51	0	VAV1
chr19:6812891-7000401	66	187511	3	rs2174759	rs11665875	138.272	0	VAV1
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	VAV1
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	VCL
chr10:58385643-124973104	13625	66587462	1	rs7920235	rs17663304	36.18	0	VCL
chr10:57671424-133349223	16243	75677800	1	rs11005106	rs4301710	37.114	0	VCL
chr10:55492162-117205017	13465	61712856	1	rs6481032	rs1933664	62.56	0	VCL
chr10:53602190-135522754	19167	81920565	3	rs12247820	rs10909028	139.373	0	VCL
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	VDAC1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	VDAC1
chr5:98442871-150317237	9828	51874367	1	rs1447379	rs7710790	38.687	0	VDAC1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	VDAC1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	VHL
chr10:7188484-134205354	26672	127016871	1	rs1977295	rs3923858	50.772	0	VIM
chr10:734229-69155636	14859	68421408	3	rs1769236	rs2394375	72.104	0	VIM
chr10:88874-53366180	12853	53277307	3	cnvi0015449	rs10998465	319.021	0	VIM
chr3:13878889-149737330	24723	135858442	1	rs12634112	rs2007869	55.663	0	VIPR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:33409611-170735099	23775	137325489	1	rs3915062	rs11924032	26.867	0	VIPR1
chr3:179527-114630641	23879	114451115	3	rs4684741	rs1587972	207.852	0	VIPR1
chr17:21685812-67308196	12365	45622385	1	rs34864328	rs17686852	50.018	0	VTN
chr17:26648492-58955084	5831	32306593	3	rs1981512	rs8068776	15.642	0	VTN
chr19:31569338-53780966	3788	22211629	1	rs2867544	rs10407424	33.9	0	WDR62
chr19:288246-59110628	11009	58822383	3	rs10409452	cnvi0009466	100.582	0	WDR62
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	WDR91
chr7:78621315-155831817	13678	77210503	3	rs1006818	rs6969015	123.319	0	WDR91
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	WDR91
chr7:134696740-135170448	89	473709	1	rs4329203	rs2696888	28.6	0	WDR91
chr7:120061880-143606234	4616	23544355	3	rs12531689	rs10247493	18.96	0	WDR91
chr5:84830796-171903310	16642	87072515	1	rs300657	rs10042482	42.208	0	WWC1
chr5:161172541-179954615	4271	18782075	3	rs4921415	rs10059433	6.291	0	WWC1
chr5:57343495-171903310	21683	114559816	1	rs10940593	rs10042482	61.169	0	WWC1
chr5:4872310-180709915	35876	175837606	3	rs816467	rs10071993	179.394	0	WWC1
chr20:13712393-55093901	8218	41381509	1	rs6033810	rs6999	41.237	0	YWHAB
chr20:7869025-62424661	11941	54555637	3	rs2294306	rs6010652	9.732	0	YWHAB
chr20:4591715-58420336	11753	53828622	1	rs6139494	rs1416388	40.922	0	YWHAB
chr20:236802-54845796	12646	54608995	3	rs448294	rs6064362	286.151	0	YWHAB
chr17:108420-26610769	5548	26502350	3	rs12452527	rs658591	82.699	0	YWHAE
chr7:11855636-156148608	26852	144292973	1	rs6947930	rs6945016	36.446	0	YWHAG
chr7:8872727-156383359	27773	147510633	1	rs917038	rs878717	32.336	0	YWHAG
chr7:8794418-119068130	23484	110273713	1	rs2189621	rs6977904	70.867	0	YWHAG
chr7:60392-84158180	19095	84097789	3	rs12670102	rs2715048	208.308	0	YWHAG
chr2:18856-41136833	9721	41117978	3	rs11901199	rs10187704	191.638	0	YWHAQ
chr8:30757798-142750969	20699	111993172	1	rs10101203	rs6421025	34.223	0	YWHAZ
chr8:60424884-145286483	17030	84861600	3	rs1401422	rs9720889	8.858	0	YWHAZ

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:23218101-146274708	23020	123056608	1	rs7010362	rs7822726	38.828	0	YWHAZ
chr8:76354446-113652365	6767	37297920	1	rs830783	rs16883889	127.023	0	YWHAZ
chr8:66822030-144791126	16557	77969097	3	rs6472235	rs10100154	251.068	0	YWHAZ
chr2:12056323-227979775	39094	215923453	1	rs966391	rs1922020	31.384	0	ZAP70
chr2:34870277-241929621	37755	207059345	3	rs13422005	rs10205276	46.946	0	ZAP70
chr2:38101137-241482099	36812	203380963	1	rs879321	rs7576043	52.099	0	ZAP70
chr2:77041264-194763754	21140	117722491	1	rs2102827	rs16835406	94.091	0	ZAP70
chr2:83383702-175194550	16291	91810849	3	rs12469609	rs11891208	154.4	0	ZAP70
chr18:25388300-75954881	11539	50566582	1	rs11083228	rs1876021	39.235	0	ZNF24
chr18:1583633-58142042	11490	56558410	3	rs9945988	rs1560399	3.736	0	ZNF24
chr18:32722154-33260373	96	538220	3	rs13512	rs508284	245.257	0	ZNF24
chr18:26550830-63713914	8241	37163085	1	rs16945738	rs2715304	17.922	0	ZNF24
chr18:26162481-67193217	9255	41030737	1	rs12458903	rs9961907	31.327	0	ZNF24
chr18:30929223-44720664	2910	13791442	3	rs10775453	rs9304343	535.348	0	ZNF24

What is Claimed is:

1. Use of fasoracetam in the preparation of a medicament for treating anxiety disorder in a subject determined to have at least one genetic alteration in a metabotropic glutamate receptor (mGluR) network gene, wherein an effective amount of fasoracetam is to be administered to the subject, thereby treating anxiety disorder.

2. The use according to claim 1, wherein the use comprises obtaining results from a genetic screen that determines whether a subject has a genetic alteration in an mGluR network gene.

3. The use according to claim 1or claim 2, wherein the genetic alteration is a copy number variation (CNV).

4. The use according to claim 3, wherein the CNV is a duplication or deletion.

5. The use of any one of claims 1-4, wherein fasoracetam is to be administered at a dose of 50-400 mg, 100-400 mg, or 200-400 mg, and wherein the dose is to be administered once, twice, or three times daily.

6. The use according to any one of claims 1-5, wherein the anxiety disorder is one or more of generalized anxiety disorder, social anxiety disorder, or an anxiety disorder induced by a substance/medication or due to another medical condition.

7. The use according to any one of claims 1-6, wherein the subject has anxiety disorder as well as one or more of attention-deficit hyperactivity disorder (ADHD), oppositional defiant disorder (ODD), conduct disorder, Tourette's syndrome, phobia,

obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behaviors, dermatillomania, a developmental disorder, a mood disorder, a movement disorder, or depression.

8. The use according to any one of claims 1-7, wherein the subject is between the ages of 5 and 17, 5 and 8, 8 and 17, 8 and 12, 12 and 18, 13 and 18, or 12 and 17.

9. The use according to any one of claims 1-8, wherein fasoracetam is to be administered in combination with another pharmaceutical or non-pharmaceutical therapy.

10. The use according to claim 9, wherein fasoracetam is to be administered in combination with an anxiolytic agent.

11. The use of claim 1, wherein the subject has CNVs in at least 2, 3, 4, 5, 6, 7, 8, 9, or 10 mGluR network genes.

12. The use of claim 11, wherein the use comprises detecting CNVs in mGluR network genes by subjecting the sample to a screen that detects CNVs in at least 2, 3, 4, 5, 6, 7, 8, 9, or 10 mGluR network genes.

13. The use of any one of claim 11 or 12, wherein CNVs in mGluR network genes are determined by subjecting the sample to a genetic screen that detects CNVs in at least 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50, 60, 70, or all of Tier 1 mGluR network genes.

14. The use of any one of claims 11-13, wherein CNVs in mGluR network genes are determined by subjecting the sample to a genetic screen that detects CNVs in at least 50, at least 100, at least 150, at least 175, or all of Tier 2 mGluR network genes.

15. The use of any one of claims 11-14, wherein CNVs in mGluR network genes are determined by subjecting the sample to a genetic screen that detects CNVs in at least 50, at least 100, at least 200, at least 300, at least 400, at least 500, or all of Tier 3 mGluR network genes.

16. The use of any one of the previous claims, wherein inattentiveness symptoms, hyperactivity symptoms, impulsiveness symptoms, fear symptoms, anxiety symptoms, panic attacks, and/or disruptive behavior are reduced in frequency and/or severity in the subject after at least 1 week, such as at least 2 weeks, at least 3 weeks, or at least 4 weeks of the treatment with fasoracetam.

17. The use of any one of claims 12-15, wherein the genetic screen comprises microarrays, whole genome sequencing, exome sequencing, targeted sequencing, FISH, comparative genomic hybridization, genome mapping, next-generation sequencing, Sanger sequencing, PCR, or TaqMan technologies.