METHODS OF DIAGNOSING AND TREATING CONDUCT 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 OF THE INVENTION

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

BACKGROUND AND SUMMARY

[003] Conduct disorder encompasses a group of behavioral and emotional problems in children that lead them to have great difficulty in following rules and behaving in a socially acceptable manner. Conduct disorder is characterized by repetitive patterns of behaviors that violate the rights of others or that break societal rules. Children and adolescents with conduct disorder display behaviors such as aggression to people and animals; destruction of property; deceitfulness, lying or stealing; and/or seriously violating age-appropriate rules. Factors that may contribute to the development of conduct disorder include brain damage, child abuse, genetic vulnerability, school failure, and traumatic life experiences (see *American Academy of Child & Adolescent Psychiatry:*

Conduct Disorders (2013) and Ercan ES, et al. *Child Adolesc Psychiatry Ment Health.* 5(1):10 (2011)).

[004] The estimated lifetime prevalence of conduct disorder in the US is 9.5%, with more males than females affected (*see* Nock MK, et al. *Psychol. Med.* 36(5):699-710 (2006)). Symptoms of conduct disorder, such as aggression and antisocial behaviors, are the primary presenting problems that lead to psychiatric referral in children and adolescents in the US. Many children and adolescents with conduct disorder also have coexisting conditions such as mood disorders, anxiety, post-traumatic stress disorder (PTSD), substance abuse, attention deficit hyperactivity disorder (ADHD), or learning disorders. Children and adolescents with conduct disorder who do not receive treatment are likely to exhibit antisocial behavior in adulthood and to have continuing difficulty as adults with relationships and in the workplace. Conduct disorder during childhood or adolescence is associated with increased risk of associated mental disorders, legal troubles, and premature mortality.

[005] Currently, conduct disorder is diagnosed using one or more rating scales, such as the Conduct Disorder Rating Scale (CDRS) as described in *Waschbusch DA Assessment* 14(1):65-74(2007)), which has been validated in patients from 5 years to 12 years of age and has been shown to be appropriate for clinical studies of conduct disorder. Alternatively, the Aberrant Behavior Checklist (ABC) (*see* Sansone SM *J Autism Dev Disord* 42(7): 1377–1392 (2012)) may be used to assess conduct disorder, as the ABC has been widely used, has shown sensitivity in clinical trials of agents to treat problematic behaviors, and can be used in patients with intellectual disability.

[006] Behavior and psychotherapy are usually necessary to help patients with conduct disorder to express and control anger (see *American Academy of Child & Adolescent Psychiatry: Conduct Disorders* (2013)). Medication may also help patients with conduct disorder control symptoms of depression, impulse control, and ADHD. In both children and adolescents, antipsychotics may be used to attempt to control aggressive symptoms of conduct disorder, although their efficacy is unproven (Toteja N, *Int J Neuropsychopharmacol* 17(7):1095-105 (2014)). The use of antipsychotics in children and adolescents with conduct disorder can reduce aggression; however, their use also raises concerns of side effects such as changes in prolactin levels (*see* James AC *Adv Psychiatr Treat* 16:63–75 (2010) and *Ercan* 2011). Currently, there are limited pharmacotherapy options for children and adolescents with conduct disorder, and these treatments are only considered when behavioral treatments and family interventions do not provide benefit.

SUMMARY

[007] The inventors have studied the genotypes of over 800 patients diagnosed with conduct 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 in healthy controls. The frequency of genetic alterations in mGluR network genes was also substantially higher in this conduct disorder population than in control populations that do not have other neuropsychological disorders.

[008] Thus, provided herein are methods of treating conduct disorder in a subject, comprising administering an effective amount of a nonselective activator of metabotropic glutamate receptors (mGluRs) to a subject, thereby treating conduct disorder. In some embodiments the subject has at least one genetic alteration in a mGluR

network gene, such as a copy number variation (CNV) or single nucleotide variation (SNV). Also provided herein are methods of treating conduct 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 conduct disorder. In some embodiments, where the subject has a CNV in a mGluR network gene, the CNV is a duplication or deletion.

[008a] In one aspect of the disclosure, there is provided a use of fasoracetam in the preparation of a medicament for treating conduct disorder in a subject, wherein an effective amount of fasoracetam is to be administered to the subject, thereby treating conduct disorder.

[009] Also provided are methods of treating conduct 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.

[0010] In some embodiments, a method for treating conduct disorder is provided comprising administering an effective amount of a nonselective activator of metabotropic glutamate receptors (mGluRs) to a subject, wherein the subject has at least one symptom of conduct disorder, thereby treating conduct disorder. In some embodiments, a method for treating conduct disorder is provided comprising administering an effective amount of a nonselective activator of metabotropic glutamate receptors (mGluRs) to a subject, wherein the subject has at least one symptom of conduct disorder and at least one genetic

alteration in an mGluR network gene, thereby treating conduct disorder. The skilled artisan can identify symptoms of conduct disorder, for example, by referring to the *Diagnostic and Statistical Manual of Mental Disorders Fifth Edition* (DSM-5) (2013). Symptoms

include persistent, repetitive patterns of behavior that violate either the basic rights of others or major societal norms.

[0011] 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.

[0012] 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 a 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 a 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.

[0013] In some embodiments of the above methods, the subject has antisocial personality disorder. 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.

[0014] In some embodiments of the above methods, the nonselective activator of mGluRs is administered in combination with another pharmaceutical, such as an antipsychotic agent, or non-pharmaceutical therapy. The non-pharmaceutical therapy may comprise brain stimulation, such as vagus nerve stimulation, repetitive transcranial magnetic stimulation, magnetic seizure therapy, or deep brain stimulation.

[0015] In some embodiments, symptoms of inattentiveness, hyperactivity, and/or impulsiveness are reduced in the subject. In some embodiments, symptoms of aggressiveness or antisocial behavior are reduced. In some embodiments, the methods reduce other behavioral symptoms such as mood disorders or sleep disorders. In some embodiments, the methods also comprise assessing symptoms such as aggressiveness or antisocial behavior 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 Conner's comprehensive behavior rating scale. 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. Such symptoms may be reduced, for example, after 1 week of treatment with the activator, such as after 2 weeks, 3 weeks, or 4 weeks of treatment.

[0016] Also provided herein are methods for diagnosing conduct 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 conduct disorder if the subject has at least one genetic alteration in a mGluR network gene. Also provided are methods for diagnosing conduct 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 conduct 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 conduct 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 conduct disorder if at least one genetic alteration, such as a CNV, in an mGluR network gene is detected. Also provided are methods for diagnosing conduct 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 conduct disorder, and diagnosing

conduct disorder if the genetic information suggests that the subject has at least one genetic alteration in a mGluR network gene.

[0016a] In another aspect of the disclosure, there is provided a method for diagnosing conduct disorder in a subject comprising: analyzing a sample comprising nucleic acid which has been isolated from the subject, for the presence or absence of a copy number variation (CNV) in at least one metabotropic glutamate receptor (mGluR) network gene, and diagnosing conduct disorder if the subject has at least one genetic alteration in a mGluR network gene.

[0017] Provided herein also are methods of confirming a diagnosis of conduct disorder in a subject comprising: obtaining a nucleic acid-comprising sample from a subject diagnosed with conduct 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 conduct disorder if the subject has at least one genetic alteration in an mGluR network gene.

[0018] In any of the above methods, the analysis for the presence or absence of at least one genetic alteration in an mGluR network gene may comprise the use of 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.

[0019] 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.

[0020] In some embodiments of the above methods, the subject has antisocial personality disorder. 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.

[0021] In some embodiments, the screening method for determining the presence or absence of at least one mGluR network gene genetic alteration comprises the use of 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.

[0022] 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.

[0023] In any of the methods and embodiments described in the preceding paragraphs of this Summary, the subject may have conduct disorder as well as one or more comorbid conditions such as attention-deficit hyperactivity disorder (ADHD), oppositional defiant disorder (ODD), autism, a mood disorder, Tourette syndrome,

anxiety disorder, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression. In other cases, the subject does not have one or more of ADHD, ODD, autism, a mood disorder, Tourette syndrome, anxiety disorder, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression. In yet other cases, the subject does not have any of ADHD, ODD, autism, a mood disorder, Tourette syndrome, anxiety disorder, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression. In some embodiments, the subject does not have any of OCD, phobia, or depression.

[0024] In some embodiments, the subject has co-morbid symptoms of anxiety and in some cases, the method reduces anxiety 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.

[0025] In any of the methods herein, the subject may have ADHD as well as conduct disorder. In any of the methods herein, the subject may have one or more of the following phenotypic changes after at least 1 week, such as at least 2 weeks, at least 3 weeks, or at least 4 weeks of treatment with the activator: (a) the subject has difficulty controlling anger and the anger control symptoms are improved; (b) the subject has

disruptive behaviors and the disruptive behaviors are reduced; (c) the subject's CGI-I is reduced by at least 1 or by at least 2; the subject's CGI-I score after one, two, three, or four weeks of treatment is 1 or 2; (d) the subject's CGI-S score after one, two, three, or four weeks of treatment is 1; 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%; (e) the subject has symptoms of inattentiveness and the inattentiveness symptoms are reduced; the subject has symptoms of hyperactivity and the hyperactivity symptoms are reduced; (f) the subject has symptoms of impulsiveness and the impulsiveness symptoms are reduced; (g) the subject has symptoms of ODD such as anger and irritability, argumentation and defiance, and/or vindictiveness and the ODD symptoms are reduced; (h) the subject has symptoms of anxiety and the anxiety symptoms are reduced; (i) the subject has symptoms of Tourette's syndrome, and the Tourette's syndrome symptoms are reduced; (j) the subject has symptoms of autism, and the autism symptoms are reduced; and (k) the subject has symptoms of movement disorder and the movement disorder symptoms are reduced.

[0026] 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

[0027] **Figure 1** shows the number of samples from patients with conduct disorder, 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.

[0028] **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., 500kg 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.

[0029] **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.

[0030] **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.

[0031] **Figure 5** shows the number of copy number variation (CNV) calls containing a Tier gene (mGluR network gene) within the samples from the 861 conduct disorder 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 an mGluR network gene.

[0032] **Figure 6** shows the percentage of fully-genotyped patients with conduct disorder, 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 PARTICULAR EMBODIMENTS

Definitions

[0033] In addition to definitions included in this sub-section, further definitions of terms are interspersed throughout the text.

[0034] In this invention, "a" or "an" means "at least one" or "one or more," etc., unless clearly indicated otherwise by context. The term "or" means "and/or" unless stated otherwise. In the case of a multiple-dependent claim, however, use of the term "or" refers back to more than one preceding claim in the alternative only.

[0035] 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.

[0036] 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.

[0037] The mGluR network genes are grouped into three subsets: Tier 1, Tier 2, 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.

[0038] 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.

[0039] 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.

[0040] A "genetic alteration" as used herein means any alteration in the DNA of a gene, or in the DNA regulating a gene, for example, that 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 variations (SNVs) (also called single nucleotide polymorphisms (SNPs), frame shift mutations, or any other base pair substitutions, insertions, and deletions or duplications.

[0041] 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.

[0042] 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.

[0043] 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.

[0044] "Conduct disorder" is defined in the *Diagnostic and Statistical Manual of Mental Disorders Fifth Edition* (DSM-5) (2013) as a persistent, repetitive pattern of behavior that violates either the basic rights of others or major societal norms. Typically, conduct disorder is diagnosed in patients prior to adulthood (i.e., younger than 18 years of age). A diagnosis of conduct disorder may be based on significant impairment in social, academic, or occupational functioning. Currently, conduct disorder is diagnosed using one or more rating scales, such as, the CDRS (*Waschbusch 2007*) or the ABC (*Sansone* 2012). Patients with conduct disorder may also have inattention, hyperactivity, anxiety, mood, and sleep disturbances.

[0045] "Antisocial personality disorder" is defined by the DSM-5 (2013) as a pervasive pattern of disregard for and violation of the rights of others in individuals who are at least 18 years of age and who exhibited onset of symptoms before 15 years of age. Therefore, antisocial personality disorder may be later diagnosed in adulthood in an individual who displayed symptoms consistent with those of conduct disorder during childhood or adolescence. A patient with antisocial personality disorder may have been previously diagnosed with conduct disorder during childhood or adolescence. In this application, a patient with conduct disorder includes subject who are older than 18 years of age and who were previously diagnosed with conduct disorder. In this application, a patient with conduct disorder also includes patients older than 18 years of age who were

not diagnosed with conduct disorder as a child or adolescent, but who displayed symptoms consistent with conduct disorder as a child or adolescent. Therefore, antisocial personality disorder is included in the definition of conduct disorder within this application.

[0046] 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.

Methods of Diagnosing Conduct Disorder

[0047] In some embodiments, the invention comprises a method of diagnosing conduct 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 conduct disorder if a genetic variation is found. In some embodiments, the subject has conduct disorder but does not have any of ADHD, oppositional defiant disorder (ODD), autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression. In some embodiments, the subject has conduct disorder and also one or more of ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, and depression.

[0048] "Developmental disorders" herein include, for example, those classified under the International Classification of Diseases 9th Ed. (World Health Organization) under codes 299.80, 299.90, 315.2, 315.39, 315.4, 315.5, 315.8, and 315.9, and may affect behaviors such as learning, coordination, and speech. "Dermatillomania" is also called skin picking disorder or excoriation, and is a disorder involving excessive picking at one's own skin to the extent of causing damage, and includes picking at normal skin as well as at real or imagined skin defects such as moles, freckles, or acne.

[0049] In other embodiments, the invention encompasses confirming a diagnosis of conduct disorder in a subject. As used herein, "confirming a diagnosis of conduct disorder" means diagnosing a subject who has already been diagnosed with conduct disorder. In this one embodiment, the method of confirming a diagnosis of conduct disorder comprises analyzing the genetic information of a subject that has been diagnosed as having conduct 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 conduct disorder if a genetic variation in at least one mGluR network gene is found. In some embodiments, the subject has conduct disorder but does not have any of ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression. In some embodiments, the subject has conduct disorder and also one or more of ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder

(OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, and depression.

[0050] In other embodiments, the invention comprises confirming a diagnosis of conduct disorder in a subject who does not have ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression, comprising analyzing the genetic information of a subject that has been diagnosed as having conduct 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 conduct disorder if a genetic variation in at least one mGluR network gene is found.

[0051] In one embodiment, conduct 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, conduct 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, conduct disorder is diagnosed and/or confirmed if at least one CNV, SNV, frameshift mutation, or any other base pair substitution, insertion, duplication or deletion in a Tier 2 mGluR network gene is detected. In still other embodiments, conduct disorder is diagnosed and/or confirmed if at least one CNV, SNV, frameshift mutation, or any other base pair substitution, insertion, duplication or deletion in a Tier 3 mGluR network gene is detected.

[0052] A diagnosis or confirmation of diagnosis of conduct 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 another embodiment, the diagnosis or confirmation of diagnosis of conduct disorder is made in a patient who does not have ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression. In some embodiments, the diagnosis or confirmation of diagnosis of conduct disorder is made in a patient who has ADHD, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, and/or depression.

[0053] In some embodiments, the diagnosis or confirmation of diagnosis of conduct 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 conduct 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 conduct 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, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive

compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental 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.

[0054] In other embodiments, the diagnosis or confirmation of diagnosis of conduct disorder is made in a patient who has ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression by the presence of a copy number of zero or one, by a copy number of three or greater, or by any deviation from the diploid state. In another embodiment, the diagnosis or confirmation of diagnosis of conduct disorder is made in a patient who does not have ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression by the presence of a copy number of zero or one, by a copy number of three or greater, or by any deviation from the diploid state.

[0055] In some embodiments, a more severe form of conduct disorder is diagnosed if at least two CNVs in mGluR network genes are detected. In one embodiment, a more severe form of conduct disorder in a patient who does not have ADHD, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a

movement disorder, a developmental disorder, or depression is diagnosed if at least two CNVs in mGluR network genes are detected.

[0056] In one embodiment, a method of diagnosing and/or confirming conduct 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 SNPs 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 conduct 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 conduct 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 conduct disorder does not have any of ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression. In some embodiments, the patient with conduct disorder has one or more of ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior

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

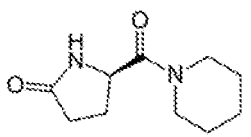
[0057] In each diagnostic, confirming, and treatment method of the invention, the subject may have a conduct disorder but not have ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression. In other diagnostic, confirming, and treatment methods of the invention, the subject has conduct disorder and one or more additional disorders such as ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression.

Methods of Treating Conduct Disorder

[0058] Encompassed herein are methods of treating conduct 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. In some embodiments, conduct disorder is said to be treated if there is an improvement in antisocial behavior, a reduction in episodes of violation of others rights, or a reduction in conflicts with the law.

[0059] The mGluR proteins 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.

[0060] 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 include, for example, nonselective mGluR agonists.

[0061] 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. The structure of fasoracetam is: .

[0062] 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.

[0063] 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.

[0064] 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.

[0065] Also encompassed herein are methods of treating conduct disorder, comprising administering a nonselective mGluR activator such as 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, autism,

a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression, while in other embodiments, the subject has conduct disorder as well as at least one of ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression.

[0066] 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 conduct disorder, but does not have ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression. In other embodiments, the subject has conduct disorder, as well as one or more neuropsychological disorders such as ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, and depression.

[0067] In each method of treating embodiment of the invention, nonselective mGluR activator may improve symptoms of inattention, hyperactivity, anxiety, mood, and sleep disturbances that may be seen in patients with conduct disorder. It may also reduce symptoms of aggression and/or antisocial behavior.

[0068] Some embodiments include a method of treating conduct disorder comprising identifying or diagnosing a subject as having a genetic alteration in at least one mGluR network gene, and administering an effective amount of a nonselective activator of mGluRs such as fasoracetam to the identified or diagnosed subject. In some of the embodiments, the subject has conduct disorder, but does not have any of ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, or depression. In other embodiments, the subject has conduct disorder, as well as one or more neuropsychological disorders such as ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, and depression.

[0069] In each method of treating embodiment of the invention, the subject may have conduct disorder, but not one or more neuropsychological disorders such as ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, and depression.

[0070] In one embodiment, an effective amount of a nonselective activator of mGluRs such as fasoracetam is administered to a subject that has conduct 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.

[0071] Some embodiments include a method of treating conduct disorder comprising obtaining genetic information about a subject's mGluR network genes, and administering an effective amount of a nonselective activator of mGluRs such as fasoracetam 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 conduct disorder comprising obtaining genetic information about a subject's mGluR network genes, and administering a nonselective activator of mGluRs such as fasoracetam if the subject has least one genetic alteration, such as a CNV, in a Tier 1 mGluR network gene. Other embodiments include a method of treating conduct disorder comprising obtaining genetic information about a subject's mGluR network genes, and administering a nonselective activator of mGluRs such as fasoracetam 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 conduct disorder comprising obtaining genetic information about a subject's mGluR network genes, and administering a nonselective activator of mGluRs such as fasoracetam 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 activator of mGluRs such as fasoracetam. In some embodiments, subjects having conduct disorder, but not having ADHD, ODD, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms,

dermatillomania, a movement disorder, a developmental 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, autism, a mood disorder, anxiety disorder, Tourette's syndrome, phobia, obsessive compulsive disorder (OCD), difficulty controlling anger, disruptive behavior symptoms, dermatillomania, a movement disorder, a developmental disorder, and depression in addition to conduct disorder.

Methods for Determining the Presence or Absence of Genetic Alterations

[0072] 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.

[0073] Various methods for determining genetic alterations are known, including the following:

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

[0074] 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.

[0075] 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.

[0076] 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).*

[0077] 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.

[0078] 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.

2. Comparative Genomic Hybridization

[0079] 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.

3. Whole Genome Sequencing, Whole Exome Sequencing, and Targeted Sequencing

[0080] 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.

[0081] 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. 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.

[0082] 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.

4. Other Methods for Determining Genetic Alterations

[0083] Proprietary methodologies, such as those from BioNano or OpGen, using genome mapping technology can also be used to evaluate genetic alterations such as CNVs.

[0084] 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 disorders is not limited by the precise methods whereby the genetic alterations such as CNVs are determined.

Methods for Diagnosing Conduct Disorder Based on CNV Data

[0085] In some embodiments, the genetic alteration is an SNV or CNV. The SNV(s) or CNV(s) associated with conduct disorder are found in an mGluR network gene, such as a gene listed in Tier 1, Tier 2, or Tier 3 as shown in Figs. 2-4 or a set or panel of such genes.

[0086] In some embodiments, gene sets of mGluR network genes are used for analyzing samples from patients with or suspected of having conduct 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.

[0087] 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. 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.

[0088] 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.

Methods of Administration and Combination Therapy

[0089] 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).

Dosing

[0090] 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.

Combination Therapies

[0091] In some embodiments, fasoracetam is used in combination with other agents for the treatment of conduct disorder. The other agent used in combination with fasoracetam may be an antipsychotic agent (such as haloperidol, chlorpromazine, amisulpride, aripiprazole, asenapine, blonaserin, clozapine, iloperidone, lurasidone, melperone, olanzapine, paliperidone, quetiapine, risperidone, sertindole, sulpiride, ziprasidone, or zotepine).

[0092] 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.

Articles of Manufacture

[0093] 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.

[0094] 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 some embodiments, the probes are labelled. In some embodiments, the probes are labelled with non-natural components. 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.

[0095] 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 conduct disorder.

[0096] A study of potential enrichment of mGluR network genes was undertaken in patients who had conduct disorder, phobias, depression, or obsessive-compulsive disorder. 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.

[0097] 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 to 18 years of age. This study noted that the rate of CNVs that contained an mGluR network gene was 1.2% in the control group, and that this rate increased to 11.3% in ADHD patients.

[0098] 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 conduct disorder, depression, obsessive-compulsive disorder (OCD), or phobia. **Figure 1** shows the number of patient

samples analyzed in each of the conduct disorder, 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.

[0099] 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.

[00100] 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.

[00101] 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.

[00102] **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 conduct disorder as compared to patients with depression, OCD, and phobia.

[00103] 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 conduct disorder had a CNV call within each of the mGluR network gene sets compared with patients with healthy controls or subjects 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*). Based on data in the present study, the frequency of patients with CNVs for OCD, phobia, or depression was less than 1.6% for Tier 1 mutation positive patients, while the frequency of patients with CNVs in patients with conduct disorder was 11.3% for Tier 1 mutation positive subjects, 16.59% for Tier 1 and 2 mutation positive subjects, and 34.94% for Tiers 1, 2, and 3 mutation positive subjects. See Figure 6.

[00104] As indicated in Figures 5-6, there was a significant enrichment of mGluR network gene alterations in the patients with conduct disorder. Therefore, diagnostics and treatments focused on modulation of mGluR gene networks may be of particular use in patients with conduct disorder.

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

[00105] We next analyzed genotyping data from the 861 fully genotyped patients with conduct disorder to identify the genes associated with the CNVs. The mGluR network genes that are contained within CNVs from this group of patients are presented as examples of genes within the mGluR network that are contained within CNVs either as duplications or deletions.

[00106] **Table 1** shows data of representative CNVs from patients with conduct disorder 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.

[00107] 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 SNPs 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.

[00108] 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.

[00109] 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.

[00110] 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.

[00111] **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.

[00112] **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.

[00113] 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 conduct disorder. If a larger patient cohort with conduct disorder phenotype was genotyped, all the genes in Tier-1, Tier-2, and Tier-3 would show enrichment for CNVs in patients with conduct disorder.

Table 1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	ACAT1
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	ACAT1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	ACAT1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	ACCN1
chr2:54984424-67416189	2413	12431766	3	rs980644	rs12473913	14.927	0	ACTR2
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	ACTR2
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	ACTR2
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	ACTR2
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	ACTR2
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	ADCY1
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	ADCY1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	ADCY1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	ADCY1
chr7:44112529-45698253	270	1585725	1	rs7778745	rs2960288	51.042	0	ADCY1
chr11:65226187-67799926	252	2573740	1	rs1626021	rs2075626	54.033	0	ADRBK1
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	ADRBK1
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	ADRBK1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	ADRBK1
chr11:66842469-67046501	18	204033	1	rs11227678	rs12274774	20.038	0	ADRBK1
chr16:28301487-31147548	157	2846062	1	rs9939450	rs2855475	36.755	0	ALDOA
chr16:29130999-33612830	601	4481832	3	rs12922496	rs2067108	21.218	0	ALDOA
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	ALDOA
chr16:28642242-33612830	684	4970589	4	rs34954049	rs2067108	4.025	0	ALDOA
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	APP

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:25452702-29545417	1017	4092716	3	rs2019006	rs2831606	41.533	0	APP
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	APP
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	APP
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	APP
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	APP
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	APP
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	APP
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	APP
chr21:14569317-28194874	3308	13625558	3	rs1772304	rs7278460	1086.833	0	APP
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	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
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	ARL15
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	ARL15
chr5:52884614-53418318	145	533705	1	rs524289	rs9292039	31.471	0	ARL15
chr17:42223914-42423665	22	199752	1	rs12603404	rs3785817	49.315	0	ATXN7L3
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	ATXN7L3
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	ATXN7L3
chr14:92414380-101757695	2557	9343316	3	rs3814835	rs4906092	19.826	0	BDKRB2
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	BDKRB2
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	BDKRB2
chr8:53363937-64107847	2115	10743911	3	rs284818	rs2043525	25.971	0	CA8
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	CA8
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	CA8
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	CA8

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:60654261-60775727	18	121467	1	rs1949102	rs7822560	11.681	325696	CA8
chr9:138873600-140938183	302	2064584	1	cnvi0002612	rs3750506	26.611	0	CACNA1B
chr1:164144117-180071987	3186	15927871	3	rs12037444	rs6425606	30.846	0	CACYBP
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	CACYBP
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	CACYBP
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	CACYBP
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CACYBP
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	CALM1
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	CALM1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	CALM1
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	CHRM3
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	CHRM3
chr1:239472077-239774670	62	302594	3	rs12041476	rs6685121	100.034	0	CHRM3
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CHRM3
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	CIC
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	CIC
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	CIC
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	CIC
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	CIC
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	CIC
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	CIC
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	CNP
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	CNP
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	CNTN4
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	CNTN4
chr3:1745013-1933220	90	188208	1	rs2314772	rs6795047	270.212	207330	CNTN4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	CRHR1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	CRHR1
chr17:43657921-44354796	88	696876	3	rs9898857	rs2732700	28.613	0	CRHR1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	CTNNA2
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	CTNNA2
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	CTNNA2
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	CTNNA2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	DISC1
chr1:231711489-231813134	22	101646	3	rs1765782	rs6541281	33.828	0	DISC1
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	DISC1
chr1:231669827-231819050	26	149224	1	rs1655290	rs1417584	16.629	0	DISC1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	DISC1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	DPP6
chr7:153694399-153811655	11	117257	3	rs10235799	rs3115192	12.729	0	DPP6
chr7:153231745-153788895	99	557151	3	rs3111283	rs2109329	250.628	0	DPP6
chr7:153487944-153707385	46	219442	3	rs2098112	rs17134265	131.848	0	DPP6
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	DYNLL1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	DYNLL1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	FPR1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	FPR1
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	FPR1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	FPR1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	FPR1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	GAPDH
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	GNA15

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	GNA15
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	GNA15
chr19:1572369-3354956	351	1782588	1	rs10415156	rs4807451	45.225	0	GNA15
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	GNAI2
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	GNAI2
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GNAI2
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	GNAI2
chr16:56362725-57226956	220	864232	3	rs2241952	rs6499871	11.443	0	GNAO1
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	GNAO1
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	GNAQ
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	GNAQ
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	GNAQ
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	GNAQ
chr9:77857783-82347458	1181	4489676	1	rs12000663	rs4387054	36.701	0	GNAQ
chr9:80201301-80528757	54	327457	1	rs1162211	rs7033572	30.324	0	GNAQ
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	GRIK1
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	GRIK1
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	GRIK1
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	GRIK1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	GRIK1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	GRIK1
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	GRIK1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	GRIK1
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	GRIK1
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	GRIK1
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	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
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	GRIK1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	GRIK1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	GRIK3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	GRIK3
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	GRM1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	GRM1
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	GRM1
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	GRM1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	GRM1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	GRM1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	GRM1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	GRM1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	GRM1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	GRM1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	GRM1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	GRM1
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	GRM1
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	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
chr7:73178435-89984409	2908	16805975	4	rs11764572	rs42664	0.17	0	GRM3
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	GRM3
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	GRM3
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	GRM3
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	GRM3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:86022840-86137490	20	114651	1	rs3903590	rs6980352	14.813	135740	GRM3
chr11:88533414-91714466	456	3181053	4	rs10501688	rs7940613	8.733	0	GRM5
chr11:88533414-91714466	456	3181053	4	rs10501688	rs7940613	8.733	0	GRM5
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	GRM5
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	GRM5
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	GRM5
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	GRM5
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	GRM5
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	GRM5
chr11:88325804-88962090	140	636287	1	rs1504088	rs11018542	30.5	0	GRM5
chr11:88325804-88962090	140	636287	1	rs1504088	rs11018542	30.5	0	GRM5
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	GRM7
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	GRM7
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GRM7
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GRM7
chr7:126354618-131010943	857	4656326	3	rs1018878	rs3823483	28.648	0	GRM8
chr7:126354618-131010943	857	4656326	3	rs1018878	rs3823483	28.648	0	GRM8
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	GRM8
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	GRM8
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	GRM8
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	GRM8
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	GRM8
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	GRM8
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	GRM8
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	GRM8
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	GRM8

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	GRM8
chr7:125999649-126219766	52	220118	1	rs714237	rs2299470	25.109	0	GRM8
chr7:125999649-126219766	52	220118	1	rs714237	rs2299470	25.109	0	GRM8
chr7:125676925-125927493	48	250569	1	rs1419535	rs17600450	37.913	151159	GRM8
chr7:125676925-125927493	48	250569	1	rs1419535	rs17600450	37.913	151159	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
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	GSN
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	GSN
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	GSN
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	GSN
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	HOMER1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	HOMER1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	HOMER1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	HOMER1
chr5:76450190-79622472	726	3172283	1	rs6864250	rs2405378	35.823	0	HOMER1
chr5:78542290-79057477	95	515188	1	rs10474578	rs259126	38.26	0	HOMER1
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	HTR2A
chr13:34752890-109100024	15589	74347135	1	rs2321822	rs7332707	33.721	0	HTR2A
chr13:41369790-112329394	15030	70959605	3	rs1536807	rs9588495	26.915	0	HTR2A
chr13:46975365-56115403	1925	9140039	1	rs7333428	rs9537164	28.591	0	HTR2A
chr4:108454525-114225831	1057	5771307	3	rs1877863	rs29311	22.746	0	LARP7
chr4:113393443-113736980	48	343538	1	rs1486860	rs6853702	18.447	0	LARP7
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	LARP7
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	LARP7
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	LARP7

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	LARP7
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	LARP7
chr4:113385223-113578609	25	193387	1	cnvi0012240	rs1129065	19.233	0	LARP7
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	MAPK1
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	MAPK1
chr22:17394989-22573637	1104	5178649	3	rs1860945	rs12159423	32.25	0	MAPK1
chr22:18877787-23040362	1092	4162576	3	rs2543958	rs5996349	1181.316	0	MAPK1
chr22:21939675-22971768	397	1032094	1	rs5754217	rs9620151	562.05	0	MAPK1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	MTHFD1
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	MTHFD1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	MTHFD1
chr14:64926097-65063315	19	137219	1	rs2281603	rs10134770	14.377	0	MTHFD1
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	MX1
chr21:41509457-47941916	1911	6432460	3	rs741802	rs2096507	27.753	0	MX1
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	MX1
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	MX1
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	MX1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	MX1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	MX1
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	MX1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	MX1
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	MX1
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	MX1
chr21:37312170-45589727	2506	8277558	1	rs1573303	rs4818886	41.534	0	MX1
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	MX1
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	MX1

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	MX1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	MX1
chr1:69926258-81391541	1911	11465284	4	rs1926269	rs17105699	11.774	0	NEGR1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	NEGR1
chr1:71362814-72683226	306	1320413	1	rs35184114	rs1675356	35.617	0	NEGR1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	NEGR1
chr1:72540901-72766085	35	225185	1	rs12033161	rs9424981	18.022	0	NEGR1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	NLN
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	NLN
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	NLN
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	NMI
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	NMI
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	NMI
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	NMI
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	PCBP3
chr21:41509457-47941916	1911	6432460	3	rs741802	rs2096507	27.753	0	PCBP3
chr21:46466674-47652185	275	1185512	1	rs4819020	rs2839160	84.642	0	PCBP3
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	PCBP3
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	PCBP3
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	PCBP3
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	PCBP3
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	PCBP3
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	PCBP3
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	PCBP3
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	PCBP3
chr21:44744540-47642272	785	2897733	1	rs10084596	rs2280957	41.824	0	PCBP3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:47091361-47265786	27	174426	1	rs2838973	rs1009577	13.147	0	PCBP3
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	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
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	PDE1C
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	PDE1C
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	PDE1C
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PPP2R1A
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PPP2R1A
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	PPP2R1A
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PPP2R1A
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PPP2R1A
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	PRPSAP1
chr17:74204592-79532654	1324	5328063	1	rs4505373	rs3934711	38.57	0	PRPSAP1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	PRPSAP1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	PRPSAP1
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	PRPSAP1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	PSMD11
chr11:198510-5875867	1467	5677358	3	rs3802985	rs2045046	49.035	0	PSMD13
chr11:219089-1139111	206	920023	1	rs511744	rs11245979	38.286	0	PSMD13
chr12:120396295-120709064	35	312770	1	rs4767865	rs3999561	29.821	0	PXN
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	PXN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	PXN
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	QRICH2
chr17:74204592-79532654	1324	5328063	1	rs4505373	rs3934711	38.57	0	QRICH2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	QRICH2
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	QRICH2
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	QRICH2
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	RANBP1
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	RANBP1
chr22:18877787-21462353	510	2584567	1	rs2543958	rs140392	1090.228	0	RANBP1
chr22:17394989-22573637	1104	5178649	3	rs1860945	rs12159423	32.25	0	RANBP1
chr22:18877787-23040362	1092	4162576	3	rs2543958	rs5996349	1181.316	0	RANBP1
chr22:18877787-21462353	512	2584567	1	rs2543958	rs140392	360.702	0	RANBP1
chr22:19025381-20228542	296	1203162	1	rs6623	rs701428	38.244	0	RANBP1
chr22:19735854-20155192	142	419339	1	rs6518580	rs373747	36.567	0	RANBP1
chr22:18877787-21461274	612	2583488	3	rs2543958	rs140391	1388.235	0	RANBP1
chr22:19613784-21462353	380	1848570	3	rs5993743	rs140392	153.49	0	RANBP1
chr13:60985192-114224496	12638	53239305	1	rs1341840	rs4907646	40.079	0	RAP2A
chr13:34752890-109100024	15589	74347135	1	rs2321822	rs7332707	33.721	0	RAP2A
chr13:41369790-112329394	15030	70959605	3	rs1536807	rs9588495	26.915	0	RAP2A
chr13:63692683-113075599	10941	49382917	1	rs9592243	rs9550080	27.124	0	RAP2A
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RCC1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RCC1
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	RGS12
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	RGS12
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	RGS12

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	RIF1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	RIF1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	RIF1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	RIF1
chr2:152251363-152423605	27	172243	1	rs10173597	rs3732311	11.735	0	RIF1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	RUVBL2
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	RUVBL2
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	RUVBL2
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	RUVBL2
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	RUVBL2
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	RUVBL2
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	RYR1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	RYR1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	RYR1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	RYR1
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	RYR1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	RYR1
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	RYR2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	RYR2
chr1:237310139-239159611	464	1849473	1	rs2490371	rs1915278	47.032	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
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SDC3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SDC3
chr1:164144117-180071987	3186	15927871	3	rs12037444	rs6425606	30.846	0	SELE
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SELE

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SELE
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	SELE
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	SERPINB9
chr6:2681610-31453618	81	28772009	1	rs1131896	rs9267212	428.052	0	SERPINB9
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	33.185	0	SERPINB9
chr6:1165092-29899147	56	28734056	0	rs3128864	rs2394704	57.657	0	SERPINB9
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	40.382	0	SERPINB9
chr6:2681610-31453113	80	28771504	3	rs1131896	rs2904600	359.691	0	SERPINB9
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	61.991	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
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	SETD4
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	SETD4
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	SETD4
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	SETD4
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	SETD4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	SETD4
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	SETD4
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	SETD4
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	SETD4
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	SETD4
chr21:37312170-45589727	2506	8277558	1	rs1573303	rs4818886	41.534	0	SETD4
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	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

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	SETD4
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	SGTB
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	SGTB
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	SGTB
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	SHANK1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	SHANK1
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	SHANK1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	SHANK1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	SHANK1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	SLC7A10
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	SLC7A10
chr19:33647379-33821248	45	173870	1	rs11881580	rs7253865	46.991	0	SLC7A10
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	SLC7A10
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	SLC7A10
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	SLC7A10
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	SORD
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	SORD
chr12:11740163-33217793	5315	21477631	3	rs10491981	rs12424662	69.717	0	STRAP
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	STRAP
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	TK1
chr17:74204592-79532654	1324	5328063	1	rs4505373	rs3934711	38.57	0	TK1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	TK1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	TK1
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	TK1
chr3:160836006-176261513	2782	15425508	4	rs1599389	rs1377820	17.004	0	TNIK
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	TNIK

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	TNIK
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	TNIK
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	TNIK
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	TNIK
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	USP24
chr1:55523984-55656088	17	132105	1	rs584626	rs13353012	14.983	0	USP24
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	USP24
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	VHL
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	VHL
chr3:9972493-10372840	66	400348	1	rs279545	rs26310	30.958	0	VHL

Table 2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	ACAT1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	ACAT1
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	ACAT1
chr6:146892943-169478886	6121	22585944	3	rs12199886	rs13219463	43.565	0	ACAT2
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	ACAT2
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	ACAT2
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	ACAT2
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	ACAT2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	ACCN1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	ACCN2
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	ACCN2
chr2:89910-272926	44	183017	3	rs300789	rs12714402	129.774	0	ACP1
chr2:54984424-67416189	2413	12431766	3	rs980644	rs12473913	14.927	0	ACTR2
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	ACTR2
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	ACTR2
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	ACTR2
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	ACTR2
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	ADA
chr20:39998520-43592248	934	3593729	1	rs6072353	rs2868218	29.278	0	ADA
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	ADCY1
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	ADCY1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	ADCY1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	ADCY1
chr7:44112529-45698253	270	1585725	1	rs7778745	rs2960288	51.042	0	ADCY1
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	ADD1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	ADD1
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	ADD1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	ADD2
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	ADD2
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	ADD2
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	ADD2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	ADORA1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	ADORA1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	ADORA1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	ADORA1
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	ADORA1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ADORA1
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	ADRA1B
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	ADRA1B
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	ADRA1B
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	ADRA1B
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	ADRA2A
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	ADRA2A
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	ADRA2A
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	ADRA2A
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	ADRA2A
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	ADRA2C
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	ADRA2C
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	ADRA2C
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	ADRB2
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	ADRB2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	ADRB2
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	ADRB2
chr11:65226187-67799926	252	2573740	1	rs1626021	rs2075626	54.033	0	ADRBK1
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	ADRBK1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	ADRBK1
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	ADRBK1
chr11:66842469-67046501	18	204033	1	rs11227678	rs12274774	20.038	0	ADRBK1
chr16:28301487-31147548	157	2846062	1	rs9939450	rs2855475	36.755	0	ALDOA
chr16:29130999-33612830	601	4481832	3	rs12922496	rs2067108	21.218	0	ALDOA
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	ALDOA
chr16:28642242-33612830	684	4970589	4	rs34954049	rs2067108	4.025	0	ALDOA
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	ANXA2
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	ANXA2
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	ANXA2
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	ANXA2
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	ANXA2
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	APP
chr21:25452702-29545417	1017	4092716	3	rs2019006	rs2831606	41.533	0	APP
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	APP
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	APP
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	APP
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	APP
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	APP
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	APP
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	APP
chr21:14569317-28194874	3308	13625558	3	rs1772304	rs7278460	1086.833	0	APP

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	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	APP
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	APTX
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	APTX
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	APTX
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	AQP1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	AQP1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	AQP1
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	ARHGAP24
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	ARHGAP24
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	ARHGAP24
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	ARHGAP24
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	ARHGAP24
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	ARHGAP24
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	ARL15
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	ARL15
chr5:52884614-53418318	145	533705	1	rs524289	rs9292039	31.471	0	ARL15
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	ARRB1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	ARRB1
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	ARRB1
chr17:42223914-42423665	22	199752	1	rs12603404	rs3785817	49.315	0	ATXN7L3
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	ATXN7L3
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	ATXN7L3
chr14:92414380-101757695	2557	9343316	3	rs3814835	rs4906092	19.826	0	BDKRB1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	BDKRB1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	BDKRB1
chr14:92414380-101757695	2557	9343316	3	rs3814835	rs4906092	19.826	0	BDKRB2
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	BDKRB2
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	BDKRB2
chr19:266034-2771641	432	2505608	4	rs2312724	rs741103	15.34	0	BTBD2
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	BTBD2
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	BTBD2
chr19:1572369-3354956	351	1782588	1	rs10415156	rs4807451	45.225	0	BTBD2
chr19:1505874-2123516	98	617643	1	rs197198	rs2072304	26.337	0	BTBD2
chr19:1920342-2050823	26	130482	3	rs4807169	rs3746101	85.52	0	BTBD2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	BTG2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	BTG2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	BTG2
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	BTG2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	BTG2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	BTG2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	C1orf116
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	C1orf116
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	C1orf116
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	C1orf116
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	C1orf116
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	C1orf116
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	C7orf25
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	C7orf25
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	C7orf25

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:53363937-64107847	2115	10743911	3	rs284818	rs2043525	25.971	0	CA8
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	CA8
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	CA8
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	CA8
chr8:60654261-60775727	18	121467	1	rs1949102	rs7822560	11.681	325696	CA8
chr9:138873600-140938183	302	2064584	1	cnvi0002612	rs3750506	26.611	0	CACNA1B
chr1:164144117-180071987	3186	15927871	3	rs12037444	rs6425606	30.846	0	CACYBP
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	CACYBP
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	CACYBP
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	CACYBP
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CACYBP
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	CALB2
chr16:69829875-88530172	5884	18700298	1	rs4985547	rs4782368	30.145	0	CALB2
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	CALM1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	CALM1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	CALM1
chr2:42287306-50902931	2298	8615626	3	rs988958	rs2194390	44.151	0	CALM2
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	CALM2
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	CALM2
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	CALM2
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	CALM3
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	CALM3
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	CALM3
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	CALM3
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	CALM3
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	CALM3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	CALM3
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	CALM3
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	CALM3
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	CAMK1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	CAMK1
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	CAMK2B
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	CAMK2B
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	CAMK2B
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	CAMK2B
chr7:44112529-45698253	270	1585725	1	rs7778745	rs2960288	51.042	0	CAMK2B
chr5:106749690-117695003	2459	10945314	3	rs6868410	rs6882527	55.105	0	CAMK4
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	CAMK4
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	CAMK4
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	CAMK4
chr5:108284342-111242002	627	2957661	1	rs3797817	rs17133870	44.164	0	CAMK4
chr5:68234769-70811821	12971	2577053	4	rs6449986	rs279322	2.672	0	CCNB1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	CCNB1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	CCNB1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	CCNB1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	CDC42
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	CDC42
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	CHP
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	CHP
chr15:40528155-42166500	240	1638346	1	rs1017843	rs12593397	85.352	0	CHP
chr15:41457623-41562393	23	104771	1	rs496142	rs16971734	10.768	0	CHP
chr7:136375979-137102498	151	726520	4	rs10954541	rs1647189	5.931	0	CHRM2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	CHRM2
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	CHRM2
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	CHRM2
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	CHRM2
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	CHRM2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	CHRM3
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	CHRM3
chr1:239472077-239774670	62	302594	3	rs12041476	rs6685121	100.034	0	CHRM3
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CHRM3
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	CIC
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	CIC
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	CIC
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	CIC
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	CIC
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	CIC
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	CIC
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	CNP
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	CNP
chr6:88318883-101197953	2546	12879071	3	rs2307389	rs1336244	20.983	0	CNR1
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	CNR1
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	CNR1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	CNR1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	CNR1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	CNR1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	CNR1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	CNR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	CNR1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	CNR1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	COPB2
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	COPB2
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	COPB2
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	COPB2
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	COPB2
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	COPB2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	CRHR1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	CRHR1
chr17:43657921-44354796	88	696876	3	rs9898857	rs2732700	28.613	0	CRHR1
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	CYCS
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	CYCS
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	CYCS
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	DCN
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	DCN
chr12:84152210-113464649	5560	29312440	1	rs10862748	rs16942470	28.181	0	DCN
chr12:91427784-91630155	39	202372	1	rs2897929	rs1522430	13.426	0	DCN
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	DHCR7
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	DHCR7
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	DHCR7
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	DISC1
chr1:231711489-231813134	22	101646	3	rs1765782	rs6541281	33.828	0	DISC1
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	DISC1
chr1:231669827-231819050	26	149224	1	rs1655290	rs1417584	16.629	0	DISC1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	DISC1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	DLST
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	DLST
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	DLST
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	DRD2
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	DRD2
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	DRD2
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	DRD3
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	DRD3
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	DRD3
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	DRD3
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	DRD3
chr3:95055435-114675646	3559	19620212	1	rs2871719	rs16823416	41.186	0	DRD3
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	DRD3
chr20:6111569-21985498	4344	15873930	3	rs6038366	rs6047798	43.161	0	DSTN
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	DYNLL1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	DYNLL1
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	ECHS1
chr10:133970588-135225666	210	1255079	1	rs870552	rs10857712	64.995	0	ECHS1
chr10:134741143-135357239	169	616097	1	rs12242379	rs1536826	34.134	0	ECHS1
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	EGFR
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	EGFR
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	EGFR
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	ERBB2
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	ERBB2
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	F2R
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	F2R

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	F2R
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	F2R
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	F2RL2
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	F2RL2
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	F2RL2
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	F2RL2
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	F2RL3
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	F2RL3
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	F2RL3
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	F2RL3
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	F3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	F3
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	F3
chr14:38111870-49524522	1996	11412653	4	rs177852	rs2273387	32.638	0	FKBP3
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	FKBP3
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	FKBP3
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	FPR1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	FPR1
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	FPR1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	FPR1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	FPR1
chr15:72136872-102040672	6413	29903801	3	rs4777466	rs7179692	18.158	0	FURIN
chr15:91379999-91525197	28	145199	1	rs7171099	rs2301826	30.169	0	FURIN
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	FURIN
chr15:73186518-94501564	4223	21315047	1	rs1947219	rs4344687	34.841	0	FURIN
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	FYN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	FYN
chr6:93575149-115508938	4238	21933790	1	rs4707762	cnvi0021859	41.857	0	FYN
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	FYN
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	FYN
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	FYN
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	FYN
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	FYN
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	FYN
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	FYN
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	GAPDH
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	GLP1R
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	GLP1R
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	GLP1R
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	GNA15
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	GNA15
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	GNA15
chr19:1572369-3354956	351	1782588	1	rs10415156	rs4807451	45.225	0	GNA15
chr7:73178435-89984409	2908	16805975	4	rs11764572	rs42664	0.17	0	GNAI1
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	GNAI1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	GNAI1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	GNAI1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	GNAI2
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	GNAI2
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GNAI2
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	GNAI2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	GNAI3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	GNAI3
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	GNAI3
chr16:56362725-57226956	220	864232	3	rs2241952	rs6499871	11.443	0	GNAO1
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	GNAO1
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	GNAQ
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	GNAQ
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	GNAQ
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	GNAQ
chr9:77857783-82347458	1181	4489676	1	rs12000663	rs4387054	36.701	0	GNAQ
chr9:80201301-80528757	54	327457	1	rs1162211	rs7033572	30.324	0	GNAQ
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	GOT1
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	GOT1
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	GOT1
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	GOT1
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	GOT1
chr17:4739161-4891956	27	152796	3	rs9900036	rs426475	13.756	0	GP1BA
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	GPR26
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	GPR26
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	GPR26
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	GPR26
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	GRB2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	GRB2
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	GRB2
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	GRB2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	GRB7
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	GRB7

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	GRIA1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	GRIA1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	GRIA1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	GRIA1
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	GRIK1
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	GRIK1
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	GRIK1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	GRIK1
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	GRIK1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	GRIK1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	GRIK1
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	GRIK1
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	GRIK1
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	GRIK1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	GRIK3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	GRIK3
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	GRM1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	GRM1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	GRM1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	GRM1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	GRM1
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	GRM1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	GRM1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GRM1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	GRM2
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	GRM2
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GRM2
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	GRM2
chr7:73178435-89984409	2908	16805975	4	rs11764572	rs42664	0.17	0	GRM3
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	GRM3
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	GRM3
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	GRM3
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	GRM3
chr7:86022840-86137490	20	114651	1	rs3903590	rs6980352	14.813	135740	GRM3
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	GRM4
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	GRM4
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	GRM4
chr11:88533414-91714466	456	3181053	4	rs10501688	rs7940613	8.733	0	GRM5
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	GRM5
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	GRM5
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	GRM5
chr11:88325804-88962090	140	636287	1	rs1504088	rs11018542	30.5	0	GRM5
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	GRM6
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	GRM6
chr5:176010125-180058963	954	4048839	1	rs936912	rs2290983	30.904	0	GRM6
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	GRM7
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GRM7
chr7:126354618-131010943	857	4656326	3	rs1018878	rs3823483	28.648	0	GRM8

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	GRM8
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	GRM8
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	GRM8
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	GRM8
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	GRM8
chr7:125676925-125927493	48	250569	1	rs1419535	rs17600450	37.913	151159	GRM8
chr7:125999649-126219766	52	220118	1	rs714237	rs2299470	25.109	0	GRM8
chr7:125676925-125780682	24	103758	1	rs1419535	rs10267757	26.358	297970	GRM8
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	GSN
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	GSN
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	GSN
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	GSN
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	HBXIP
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	HBXIP
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	HBXIP
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	HOMER1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	HOMER1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	HOMER1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	HOMER1
chr5:76450190-79622472	726	3172283	1	rs6864250	rs2405378	35.823	0	HOMER1
chr5:78542290-79057477	95	515188	1	rs10474578	rs259126	38.26	0	HOMER1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	HOMER3
chr19:18892728-19054720	20	161993	1	rs10038	rs4808883	49.554	0	HOMER3
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	HOMER3
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	HOMER3
chr6:41773322-45545975	754	3772654	3	rs2153878	rs7764616	22.895	0	HSP90AB1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	HSP90AB1
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	HSP90AB1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	HSP90AB1
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	HTR2A
chr13:34752890-109100024	15589	74347135	1	rs2321822	rs7332707	33.721	0	HTR2A
chr13:41369790-112329394	15030	70959605	3	rs1536807	rs9588495	26.915	0	HTR2A
chr13:46975365-56115403	1925	9140039	1	rs7333428	rs9537164	28.591	0	HTR2A
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	IMPDH2
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	IMPDH2
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	IMPDH2
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	IMPDH2
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	IQGAP2
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	IQGAP2
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	IQGAP2
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	IQGAP2
chr10:28216167-33956346	1404	5740180	3	rs6481494	rs2891376	43.482	0	ITGB1
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	ITGB1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	ITGB7
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	ITGB7
chr12:53517820-53621711	14	103892	3	rs2280697	rs10082776	3.878	0	ITGB7
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	ITPR1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	ITPR1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	KIAA0090
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	KIAA0090
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	KIAA1683
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	KIAA1683

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	KIAA1683
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	LAMA4
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	LAMA4
chr6:93575149-115508938	4238	21933790	1	rs4707762	cnvi0021859	41.857	0	LAMA4
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	LAMA4
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	LAMA4
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	LAMA4
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	LAMA4
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	LAMA4
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	LAMA4
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	LAMA4
chr4:182173261-187358040	1508	5184780	3	rs11930209	rs4862695	63.646	0	LRP2BP
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	LRP2BP
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	LRP2BP
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	LRP2BP
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	LRRC59
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	LRRC59
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	LTA
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	LTA
chr6:31289284-32512164	1746	1222881	3	rs9265170	rs28495356	24.02	0	LTA
chr6:31289284-32499014	9991	1209731	3	rs9265170	cnvi0006585	23.466	0	LTA
chr6:31281438-32354073	8034	1072636	1	cnvi0006173	rs7759813	34.729	0	LTA
chr6:31281438-31880637	8674	599200	1	cnvi0006173	rs28435656	31.216	0	LTA
chr6:31281438-31878433	8677	596996	1	cnvi0006173	rs519417	56.15	0	LTA
chr6:31281438-31795082	8770	513645	1	cnvi0006173	rs5026931	58.163	0	LTA
chr6:26430981-31878433	8001	5447453	1	rs2893848	rs519417	55.651	0	LTA

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:31204008-32355605	1755	1151598	1	rs7745906	rs9268472	61.163	0	LTA
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	LYAR
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	LYAR
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	LYAR
chr8:53363937-64107847	2115	10743911	3	rs284818	rs2043525	25.971	0	LYN
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	LYN
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	LYN
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	LYN
chr8:56589428-56906068	65	316641	3	rs7460004	rs10282821	88.674	0	LYN
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	MAP4
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	MAP4
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	MAP4
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	MAP4
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	MAPK1
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	MAPK1
chr22:17394989-22573637	1104	5178649	3	rs1860945	rs12159423	32.25	0	MAPK1
chr22:18877787-23040362	1092	4162576	3	rs2543958	rs5996349	1181.316	0	MAPK1
chr22:21939675-22971768	397	1032094	1	rs5754217	rs9620151	562.05	0	MAPK1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	MAPT
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	MAPT
chr17:43657921-44354796	88	696876	3	rs9898857	rs2732700	28.613	0	MAPT
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	MARK4
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	MARK4
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	MARK4
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	MARK4
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	MARK4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	MARK4
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	MARK4
chr18:55225777-67600991	3130	12375215	3	rs1736442	rs11151547	39.543	0	MC4R
chr18:46577218-63087976	3720	16510759	1	rs357893	rs487555	37.146	0	MC4R
chr18:58316345-58573151	29	256807	1	rs9964060	rs7233420	16.278	276344	MC4R
chr6:41773322-45545975	754	3772654	3	rs2153878	rs7764616	22.895	0	MRPL14
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	MRPL14
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	MRPL14
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	MRPL14
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	MRPS16
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	MRPS16
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	MRPS16
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	MRPS16
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	MTHFD1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	MTHFD1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	MTHFD1
chr14:64926097-65063315	19	137219	1	rs2281603	rs10134770	14.377	0	MTHFD1
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	MTNR1A
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	MTNR1A
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	MTNR1B
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	MTNR1B
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	MTNR1B
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	MX1
chr21:41509457-47941916	1911	6432460	3	rs741802	rs2096507	27.753	0	MX1
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	MX1
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	MX1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	MX1
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	MX1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	MX1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	MX1
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	MX1
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	MX1
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	MX1
chr21:37312170-45589727	2506	8277558	1	rs1573303	rs4818886	41.534	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	MX1
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	MYC
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	MYC
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	MYC
chr8:84037048-138506934	11020	54469887	1	rs13265895	rs1849692	72.228	0	MYC
chr6:68563328-76635743	1594	8072416	3	rs1399225	rs9343330	47.996	0	MYO6
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	MYO6
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	MYO6
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	MYO6
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	MYO6
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	MYO6
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	MYO6
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	MYO6
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	NANS
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	NANS

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	NANS
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	NANS
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	NCK1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	NCK1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	NCK1
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	NCK1
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	NCK1
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	NCK1
chr14:32903616-37374768	1191	4471153	3	rs2383302	rs17105665	31.38	0	NFKBIA
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	NFKBIA
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	NMI
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	NMI
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	NMI
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	NMI
chr4:149196991-157601193	1461	8404203	3	rs6812904	rs10030015	30.798	0	NPY2R
chr4:156087185-156213709	21	126525	1	rs10030872	rs983146	15.037	0	NPY2R
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	NPY2R
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	NPY2R
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	NPY2R
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	NPY2R
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	NPY2R
chr4:126959315-183880263	10103	56920949	3	rs9985873	rs2714510	50.565	0	NPY2R
chr4:148566463-156666845	1395	8100383	1	rs17475359	rs6814688	54.297	0	NPY2R
chr4:155739051-165849854	1997	10110804	1	rs7691720	rs10005938	26.215	0	NPY2R
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	NUDC
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	NUDC

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:27161670-27475785	31	314116	3	rs11247599	rs11247613	40.308	0	NUDC
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	OPRD1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	OPRD1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	PAFAH1B3
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PAFAH1B3
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	PAFAH1B3
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PAFAH1B3
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PAFAH1B3
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PAFAH1B3
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	PAFAH1B3
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	PCBP1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	PCBP1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	PCBP1
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	PCBP1
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	PCBP3
chr21:41509457-47941916	1911	6432460	3	rs741802	rs2096507	27.753	0	PCBP3
chr21:46466674-47652185	275	1185512	1	rs4819020	rs2839160	84.642	0	PCBP3
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	PCBP3
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	PCBP3
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	PCBP3
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	PCBP3
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	PCBP3
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	PCBP3
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	PCBP3
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	PCBP3
chr21:44744540-47642272	785	2897733	1	rs10084596	rs2280957	41.824	0	PCBP3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:47091361-47265786	27	174426	1	rs2838973	rs1009577	13.147	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	PCBP3
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	PCDHA4
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	PCDHA4
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	PCDHA4
chr6:146892943-169478886	6121	22585944	3	rs12199886	rs13219463	43.565	0	PCMT1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	PCMT1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	PCMT1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	PCMT1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	PCMT1
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	PCMT1
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	PCMT1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	PDCD5
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PDCD5
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PDCD5
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PDCD5
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	PDCD5
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	PDE1B
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	PDE1B
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	PDE1C
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	PDE1C
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	PDE1C

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	PDE6G
chr17:79150654-81047708	15608	1897055	1	rs12103867	rs35680231	31.668	0	PDE6G
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PGM1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PGM1
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	PHKB
chr16:28301487-31147548	157	2846062	1	rs9939450	rs2855475	36.755	0	PHKG2
chr16:29130999-33612830	601	4481832	3	rs12922496	rs2067108	21.218	0	PHKG2
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	PHKG2
chr16:28642242-33612830	684	4970589	4	rs34954049	rs2067108	4.025	0	PHKG2
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	PICK1
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	PICK1
chr3:178310836-179125585	142	814750	3	rs7636991	rs13074663	6.695	0	PIK3CA
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	PIK3CA
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	PIK3CA
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	PIK3CA
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	PIK3CA
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	PIK3R1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	PIK3R1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	PIK3R1
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	PLA2G7
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	PLA2G7
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	PLA2G7
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	PLA2G7
chr20:6111569-21985498	4344	15873930	3	rs6038366	rs6047798	43.161	0	PLCB1
chr11:60589137-64068310	499	3479174	1	rs656736	rs2286614	53.467	0	PLCB3
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	PLCB3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	PLCB3
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	PLCB3
chr11:63907079-64027888	19	120810	1	rs7112960	rs915987	17.869	0	PLCB3
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	PLCG2
chr16:69829875-88530172	5884	18700298	1	rs4985547	rs4782368	30.145	0	PLCG2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PPIH
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PPIH
chr1:42204406-46534543	635	4330138	1	rs710231	rs785512	33.167	0	PPIH
chr1:42601214-43343707	101	742494	1	rs7516178	rs11210746	136.315	0	PPIH
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PPP2R1A
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PPP2R1A
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	PPP2R1A
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PPP2R1A
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PPP2R1A
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PRDX1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PRDX1
chr1:42204406-46534543	635	4330138	1	rs710231	rs785512	33.167	0	PRDX1
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	PRKCA
chr17:63761021-67215712	732	3454692	1	cnvi0008594	rs12941264	55.59	0	PRKCA
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	PRKCA
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	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
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	PRLHR
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	PRLHR
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	PRLHR

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	PRLHR
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	PRLHR
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	PRMT1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PRMT1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PRMT1
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	PRMT1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PRMT1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PRMT1
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	PRPSAP1
chr17:74204592-79532654	1324	5328063	1	rs4505373	rs3934711	38.57	0	PRPSAP1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	PRPSAP1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	PRPSAP1
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	PRPSAP1
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	PSAT1
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	PSAT1
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	PSAT1
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	PSAT1
chr9:77857783-82347458	1181	4489676	1	rs12000663	rs4387054	36.701	0	PSAT1
chr9:81057409-81234650	49	177242	3	rs4498630	rs11137772	24.969	112400	PSAT1
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	PSEN1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	PSEN1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	PSEN1
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	PSMC1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	PSMC1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	PSMC1
chr2:211013993-242051777	6871	31037785	3	rs4673499	rs2074824	40.702	0	PSMD1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	PSMD1
chr2:231913056-232047561	18	134506	1	rs3731783	rs7585622	16.163	0	PSMD1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	PSMD1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	PSMD1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	PSMD1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	PSMD11
chr11:198510-5875867	1467	5677358	3	rs3802985	rs2045046	49.035	0	PSMD13
chr11:219089-1139111	206	920023	1	rs511744	rs11245979	38.286	0	PSMD13
chr3:60053331-70925955	2977	10872625	3	rs2630173	rs9856621	30.024	0	PSMD6
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	PSMD6
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	PSMD6
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	PSMD6
chr14:22513116-32242747	1997	9729632	1	rs4982546	rs17098165	31.673	0	PSME1
chr12:120396295-120709064	35	312770	1	rs4767865	rs3999561	29.821	0	PXN
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	PXN
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	PXN
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	PYGL
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	PYGL
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	PYGM
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	PYGM
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	PYGM
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	QRICH2
chr17:74204592-79532654	1324	5328063	1	rs4505373	rs3934711	38.57	0	QRICH2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	QRICH2
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	QRICH2
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	QRICH2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	RALA
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	RALA
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	RALA
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	RANBP1
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	RANBP1
chr22:18877787-21462353	510	2584567	1	rs2543958	rs140392	1090.228	0	RANBP1
chr22:17394989-22573637	1104	5178649	3	rs1860945	rs12159423	32.25	0	RANBP1
chr22:18877787-23040362	1092	4162576	3	rs2543958	rs5996349	1181.316	0	RANBP1
chr22:18877787-21462353	512	2584567	1	rs2543958	rs140392	360.702	0	RANBP1
chr22:19025381-20228542	296	1203162	1	rs6623	rs701428	38.244	0	RANBP1
chr22:19735854-20155192	142	419339	1	rs6518580	rs373747	36.567	0	RANBP1
chr22:19613784-21462353	380	1848570	3	rs5993743	rs140392	153.49	0	RANBP1
chr22:18877787-21461274	612	2583488	3	rs2543958	rs140391	1388.235	0	RANBP1
chr13:60985192-114224496	12638	53239305	1	rs1341840	rs4907646	40.079	0	RAP2A
chr13:34752890-109100024	15589	74347135	1	rs2321822	rs7332707	33.721	0	RAP2A
chr13:41369790-112329394	15030	70959605	3	rs1536807	rs9588495	26.915	0	RAP2A
chr13:63692683-113075599	10941	49382917	1	rs9592243	rs9550080	27.124	0	RAP2A
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RCC1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RCC1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RCC2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RCC2
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	RGS12
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	RGS12
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	RGS12
chr1:186642429-197195650	1628	10553222	4	rs2206593	rs4915406	24.676	0	RGS2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RGS2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RGS2
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	RGS2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	RGS2
chr1:188735336-196495566	1363	7760231	1	rs10754227	rs6693594	68.665	0	RGS2
chr1:188802542-196412070	1346	7609529	1	rs10158341	rs12075206	61.486	0	RGS2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS2
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	RHOA
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	RHOA
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	RHOA
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	RHOA
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	RIF1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	RIF1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	RIF1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	RIF1
chr2:152251363-152423605	27	172243	1	rs10173597	rs3732311	11.735	0	RIF1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RPA2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RPA2
chr11:198510-5875867	1467	5677358	3	rs3802985	rs2045046	49.035	0	RPLP2
chr11:766479-870446	11	103968	1	rs7937869	rs6682	15.548	0	RPLP2
chr11:589246-2866248	476	2277003	1	rs7116322	rs2237899	43.461	0	RPLP2
chr11:549119-1323564	100	774446	1	rs4963136	rs5743899	50.097	0	RPLP2
chr11:392079-3226221	734	2834143	1	rs6598025	rs10833462	79.883	0	RPLP2
chr11:356090-2201163	310	1845074	1	rs12049834	rs6578993	40.709	0	RPLP2
chr11:219089-1139111	206	920023	1	rs511744	rs11245979	38.286	0	RPLP2
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	RPN2
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	RPS14

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	RPS14
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	RPS14
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	RPS14
chr11:198510-5875867	1467	5677358	3	rs3802985	rs2045046	49.035	0	RRM1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	RUVBL2
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	RUVBL2
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	RUVBL2
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	RUVBL2
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	RUVBL2
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	RUVBL2
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	RYR1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	RYR1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	RYR1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	RYR1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	RYR1
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	RYR1
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	RYR2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	RYR2
chr1:237310139-239159611	464	1849473	1	rs2490371	rs1915278	47.032	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
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	S100A6
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	S100A6
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	S100A6
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	SACS
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SARS

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SARS
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	SARS
chr2:119935802-128867841	1515	8932040	3	rs935361	rs6747421	14.116	0	SCTR
chr2:116260745-130688292	2685	14427548	3	rs1868327	rs10928943	1170.496	0	SCTR
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	SCTR
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	SCTR
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	SCTR
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	SCTR
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SDC3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SDC3
chr1:164144117-180071987	3186	15927871	3	rs12037444	rs6425606	30.846	0	SELE
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SELE
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SELE
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	SELE
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	SERPINB9
chr6:2681610-31453618	81	28772009	1	rs1131896	rs9267212	428.052	0	SERPINB9
chr6:1165092-29899147	56	28734056	0	rs3128864	rs2394704	57.657	0	SERPINB9
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	33.185	0	SERPINB9
chr6:2681610-31453113	80	28771504	3	rs1131896	rs2904600	359.691	0	SERPINB9
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	61.991	0	SERPINB9
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	40.382	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
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	SET
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	SET

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	SET
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	SET
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	SETD4
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	SETD4
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	SETD4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	SETD4
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	SETD4
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	SETD4
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	SETD4
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	SETD4
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	SETD4
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	SETD4
chr21:37312170-45589727	2506	8277558	1	rs1573303	rs4818886	41.534	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	SETD4
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	SF3B14
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	SHANK1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	SHANK1
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	SHANK1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	SHANK1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	SHANK1
chr17:7031638-7592780	100	561143	3	rs2062737	rs2287497	12.667	0	SHBG
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	SIAH1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SLC2A1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SLC2A1
chr1:42204406-46534543	635	4330138	1	rs710231	rs785512	33.167	0	SLC2A1
chr1:43380982-44438396	167	1057415	1	rs841837	rs783308	180.439	0	SLC2A1
chr5:1132216-9177932	2386	8045717	3	rs4594899	rs3777281	13.79	0	SLC6A3
chr5:177264-1850563	577	1673300	1	rs6889904	rs10512644	26.987	0	SLC6A3
chr4:88117272-90765280	562	2648009	3	rs6531956	rs1372522	17.723	0	SNCA
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	SNCA
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	SNCA
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	SNCA
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	SNCA
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	SNCA
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	SNCA
chr20:6111569-21985498	4344	15873930	3	rs6038366	rs6047798	43.161	0	SNRPB2
chr18:63017137-71284888	2142	8267752	1	rs12966197	rs1107827	34.629	0	SOCS6
chr18:63733025-69401985	1543	5668961	1	rs2715290	rs993816	45.936	0	SOCS6
chr18:67544717-69365932	428	1821216	3	rs1788244	rs1394981	461.753	0	SOCS6
chr18:62041997-76047493	3846	14005497	1	rs1421538	rs8085865	33.212	0	SOCS6
chr17:35814383-36784639	134	970257	1	rs853231	rs7220099	43.224	0	SOCS7
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	SOCS7
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	SOCS7
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	SORD
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	SORD
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	SRC
chr12:11740163-33217793	5315	21477631	3	rs10491981	rs12424662	69.717	0	STRAP
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	STRAP
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	STX12

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	STX12
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	SYK
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	SYK
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	SYK
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	SYK
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	TBCA
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	TBCA
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	TBCA
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	TBCA
chr5:76450190-79622472	726	3172283	1	rs6864250	rs2405378	35.823	0	TBCA
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	TBXA2R
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	TBXA2R
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	TBXA2R
chr6:146892943-169478886	6121	22585944	3	rs12199886	rs13219463	43.565	0	TCP1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	TCP1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	TCP1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	TCP1
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	TCP1
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	TEAD3
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	TEAD3
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	TEAD3
chr10:52338100-60396065	1797	8057966	4	rs10508930	rs920259	44.979	0	TFAM
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	TFAM
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	TFAM
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	TGM2
chr15:24991944-36734986	2650	11743043	3	rs11161135	rs2444757	14.503	0	TJP1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr15:20161372-30439396	1944	10278025	4	rs6599770	cnvi0020349	10.79	0	TJP1
chr15:27740007-30366247	464	2626241	1	rs6497213	rs10152753	44.251	0	TJP1
chr15:20058438-32544679	2394	12486242	3	rs12591240	cnvi0018163	296.82	0	TJP1
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	TK1
chr17:74204592-79532654	1324	5328063	1	rs4505373	rs3934711	38.57	0	TK1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	TK1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	TK1
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	TK1
chr4:36130920-40415109	1046	4284190	3	rs13142416	rs278933	15.979	0	TLR10
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	TLR10
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	TLR10
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	TLR10
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	TLR10
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	TLR10
chr3:160836006-176261513	2782	15425508	4	rs1599389	rs1377820	17.004	0	TNIK
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	TNIK
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	TNIK
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	TNIK
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	TNIK
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	TNIK
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	TPI1
chr9:137718113-139841512	539	2123400	4	rs4842173	rs884113	1.053	0	TRAF2
chr9:138961722-140376668	138	1414947	1	rs11103306	rs10116708	35.913	0	TRAF2
chr9:138873600-140938183	302	2064584	1	cnvi0002612	rs3750506	26.611	0	TRAF2
chr9:139492789-140212642	109	719854	1	rs28485548	rs13295516	79.502	0	TRAF2
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	TRMT112

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	TRMT112
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	TRMT112
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	TUBA1A
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	TUBA1A
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	TUBA1B
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	TUBA1B
chr6:19044000-31286381	6774	12242382	1	rs6922929	rs9265057	31.6	0	TUBB
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	TUBB
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	TUBB
chr6:2681610-31453618	81	28772009	1	rs1131896	rs9267212	428.052	0	TUBB
chr6:2681610-31453113	80	28771504	3	rs1131896	rs2904600	359.691	0	TUBB
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	40.382	0	TUBB
chr6:3764851-31298743	7861	27533893	3	rs28880026	rs28752863	40.215	0	TUBB
chr6:3772684-31298743	7858	27526060	3	rs12661707	rs28752863	27.127	0	TUBB
chr6:11677538-31289284	4992	19611747	1	rs2022016	rs9265170	68.97	0	TUBB
chr6:19812444-31286381	6951	11473938	1	rs16882740	rs9265057	32.473	0	TUBB
chr6:29864203-31294687	11756	1430485	3	rs9259437	rs28752836	6.497	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
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	TUBG1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	TUBG1
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	TXN
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	TXN
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	TXN
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	TXN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr18:112535-3081210	758	2968676	1	rs9284390	rs7244954	2389.768	0	TYMS
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	UBQLN4
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	UBQLN4
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	UBQLN4
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	UCHL1
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	UCHL1
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	UCHL1
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	UCHL1
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	UCHL1
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	VHL
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	VHL
chr3:9972493-10372840	66	400348	1	rs279545	rs26310	30.958	0	VHL
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	VIPR1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	VIPR1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	VIPR1
chr2:3994639-20951332	3904	16956694	3	rs4850016	rs619562	20.912	0	YWHAQ
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	ZAP70
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	ZAP70
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	ZAP70
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	ZAP70

Table 3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	ABI3
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	ABI3
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	ACAT1
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	ACAT1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	ACAT1
chr6:146892943-169478886	6121	22585944	3	rs12199886	rs13219463	43.565	0	ACAT2
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	ACAT2
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	ACAT2
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	ACAT2
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	ACAT2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	ACCN1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	ACCN2
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	ACCN2
chr2:89910-272926	44	183017	3	rs300789	rs12714402	129.774	0	ACP1
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	ACTA1
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	ACTA1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	ACTA1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ACTA1
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	ACTN2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	ACTN2
chr1:236771404-236893599	39	122196	1	rs12408801	rs819639	19.928	0	ACTN2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ACTN2
chr2:54984424-67416189	2413	12431766	3	rs980644	rs12473913	14.927	0	ACTR2
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	ACTR2
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	ACTR2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	ACTR2
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	ACTR2
chr20:39998520-43592248	934	3593729	1	rs6072353	rs2868218	29.278	0	ADA
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	ADA
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	ADCY1
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	ADCY1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	ADCY1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	ADCY1
chr7:44112529-45698253	270	1585725	1	rs7778745	rs2960288	51.042	0	ADCY1
chr3:116881714-132034199	2802	15152486	3	rs7649284	rs3844501	21.439	0	ADCY5
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	ADCY5
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	ADCY5
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	ADCY5
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	ADCY5
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	ADCY5
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	ADCY5
chr8:129840739-132546350	628	2705612	3	rs2395855	rs7010302	6.721	0	ADCY8
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	ADCY8
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	ADCY8
chr8:130849731-132416893	371	1567163	1	rs298622	rs11774542	59.301	0	ADCY8
chr8:84037048-138506934	11020	54469887	1	rs13265895	rs1849692	72.228	0	ADCY8
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	ADCY8
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	ADCYAP1R1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	ADCYAP1R1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	ADCYAP1R1
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	ADD1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	ADD1
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	ADD1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	ADD2
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	ADD2
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	ADD2
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	ADD2
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	ADD3
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	ADD3
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	ADD3
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	ADD3
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	ADD3
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	ADORA1
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	ADORA1
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	ADORA1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	ADORA1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	ADORA1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ADORA1
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	ADRA1B
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	ADRA1B
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	ADRA1B
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	ADRA1B
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	ADRA2A
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	ADRA2A
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	ADRA2A
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	ADRA2A
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	ADRA2A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	ADRA2C
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	ADRA2C
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	ADRA2C
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	ADRB2
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	ADRB2
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	ADRB2
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	ADRB2
chr11:65226187-67799926	252	2573740	1	rs1626021	rs2075626	54.033	0	ADRBK1
chr11:66842469-67046501	18	204033	1	rs11227678	rs12274774	20.038	0	ADRBK1
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	ADRBK1
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	ADRBK1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	ADRBK1
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	AFAP1
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	AFAP1
chr3:147200492-151900719	955	4700228	3	rs9876193	rs325713	20.467	0	AGTR1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	AGTR1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	AGTR1
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	AGTR1
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	AGTR1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	AHCYL1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	AHCYL1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	AHCYL1
chr6:146892943-169478886	6121	22585944	3	rs12199886	rs13219463	43.565	0	AKAP12
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	AKAP12
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	AKAP12
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	AKAP12

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	AKAP12
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	AKAP12
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	AKAP12
chr15:72136872-102040672	6413	29903801	3	rs4777466	rs7179692	18.158	0	AKAP13
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	AKAP13
chr15:73186518-94501564	4223	21315047	1	rs1947219	rs4344687	34.841	0	AKAP13
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	AKAP5
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	AKAP5
chr14:64935411-65222549	48	287139	3	rs2230491	rs7154518	18.8	0	AKAP5
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	AKAP5
chr14:64926097-65063315	19	137219	1	rs2281603	rs10134770	14.377	0	AKAP5
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	AKAP9
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	AKAP9
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	AKAP9
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	AKAP9
chr14:104506888-105268228	119	761341	1	rs2273842	rs4983387	28.111	0	AKT1
chr14:102003864-105246686	423	3242823	1	rs1190712	rs2494738	38.435	0	AKT1
chr14:104581072-105779305	166	1198234	1	rs1557012	rs11847295	23.591	0	AKT1
chr14:104004311-106009572	243	2005262	4	rs8014069	rs10134526	0.055	0	AKT1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	AKT1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	AKT1
chr16:28301487-31147548	157	2846062	1	rs9939450	rs2855475	36.755	0	ALDOA
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	ALDOA
chr16:29130999-33612830	601	4481832	3	rs12922496	rs2067108	21.218	0	ALDOA
chr16:28642242-33612830	684	4970589	4	rs34954049	rs2067108	4.025	0	ALDOA
chr4:108454525-114225831	1057	5771307	3	rs1877863	rs29311	22.746	0	ANK2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	ANK2
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	ANK2
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	ANK2
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	ANK2
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	ANK2
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	ANKRD24
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	ANKRD24
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	ANKRD24
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	ANXA2
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	ANXA2
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	ANXA2
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	ANXA2
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	ANXA2
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	ANXA6
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	ANXA6
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	ANXA6
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	ANXA6
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	ANXA7
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	ANXA7
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	ANXA7
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	ANXA7
chr11:129866653-129987100	16	120448	0	rs7124927	rs12281267	17.645	0	APLP2
chr11:114191016-134258416	5073	20067401	3	rs2847476	rs893951	4.233	0	APLP2
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	APLP2
chr11:127340512-130283749	656	2943238	1	rs1358557	rs10894195	48.071	0	APLP2
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	APLP2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	APP
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	APP
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	APP
chr21:25452702-29545417	1017	4092716	3	rs2019006	rs2831606	41.533	0	APP
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	APP
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	APP
chr21:14569317-28194874	3308	13625558	3	rs1772304	rs7278460	1086.833	0	APP
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	APP
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	APP
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	APP
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	APTX
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	APTX
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	APTX
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	AQP1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	AQP1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	AQP1
chr1:228216997-228500627	33	283631	1	rs708122	rs2087121	53.416	0	ARF1
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	ARF1
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	ARF1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	ARF1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	ARF1
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ARF1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:49128261-49478812	46	350552	1	rs6580694	rs6580699	32.9	0	ARF3
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	ARF3
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	ARF3
chr11:38685169-55210647	1957	16525479	3	rs1026834	rs11229683	17.562	0	ARHGAP1
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	ARHGAP1
chr11:46297631-46699124	35	401494	1	rs10437653	rs8914	25.596	0	ARHGAP1
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	ARHGAP24
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	ARHGAP24
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	ARHGAP24
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	ARHGAP24
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	ARHGAP24
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	ARHGAP24
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	ARHGEF1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	ARHGEF1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	ARHGEF1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	ARHGEF1
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	ARHGEF1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	ARHGEF1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	ARHGEF1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	ARL15
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	ARL15
chr5:52884614-53418318	145	533705	1	rs524289	rs9292039	31.471	0	ARL15
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	ARL3
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	ARL3
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	ARL3
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	ARL3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	ARL3
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	ARL8B
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	ARL8B
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	ARRB1
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	ARRB1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	ARRB1
chr11:589246-2866248	476	2277003	1	rs7116322	rs2237899	43.461	0	ASCL2
chr11:198510-5875867	1467	5677358	3	rs3802985	rs2045046	49.035	0	ASCL2
chr11:392079-3226221	734	2834143	1	rs6598025	rs10833462	79.883	0	ASCL2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	ATF3
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	ATF3
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	ATF3
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	ATF3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	ATF3
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ATF3
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	ATN1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	ATP1B1
chr1:164144117-180071987	3186	15927871	3	rs12037444	rs6425606	30.846	0	ATP1B1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	ATP1B1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	ATP1B1
chr12:89916811-91124916	172	1208106	3	rs2230283	rs1948839	7.928	0	ATP2B1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	ATP2B1
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	ATP2B1
chr12:84152210-113464649	5560	29312440	1	rs10862748	rs16942470	28.181	0	ATP2B1
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	ATP2B2
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	ATP2B2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:9972493-10372840	66	400348	1	rs279545	rs26310	30.958	0	ATP2B2
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	ATXN1
chr6:2681610-31453618	81	28772009	1	rs1131896	rs9267212	428.052	0	ATXN1
chr6:3764851-31298743	7861	27533893	3	rs28880026	rs28752863	40.215	0	ATXN1
chr6:3772684-31298743	7858	27526060	3	rs12661707	rs28752863	27.127	0	ATXN1
chr6:2681610-31453113	80	28771504	3	rs1131896	rs2904600	359.691	0	ATXN1
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	40.382	0	ATXN1
chr6:1165092-29899147	56	28734056	0	rs3128864	rs2394704	57.657	0	ATXN1
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	33.185	0	ATXN1
chr6:11677538-31289284	4992	19611747	1	rs2022016	rs9265170	68.97	0	ATXN1
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	61.991	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
chr14:92414380-101757695	2557	9343316	3	rs3814835	rs4906092	19.826	0	ATXN3
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	ATXN3
chr14:92421275-92600798	34	179524	1	rs2498828	rs2295726	16.381	0	ATXN3
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	ATXN3
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	ATXN3
chr3:60053331-70925955	2977	10872625	3	rs2630173	rs9856621	30.024	0	ATXN7
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	ATXN7
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	ATXN7
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	ATXN7
chr17:42223914-42423665	22	199752	1	rs12603404	rs3785817	49.315	0	ATXN7L3
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	ATXN7L3
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	ATXN7L3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:62261443-72745898	2376	10484456	3	rs3759288	rs2044305	73.366	0	AVPR1A
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	AVPR1A
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	AVPR1A
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	B4GALT1
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	B4GALT1
chr9:33141752-33260632	23	118881	3	rs2770807	rs706121	25.92	0	B4GALT1
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	B4GALT1
chr4:102357934-102470700	10	112767	1	rs2471683	rs10022442	38.269	0	BANK1
chr4:101274858-103233207	334	1958350	3	rs13130455	rs6822371	16.146	0	BANK1
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	BANK1
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	BANK1
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	BANK1
chr4:102252696-102504356	22	251661	3	rs1348161	rs2723048	4.732	0	BANK1
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	BANK1
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	BANK1
chr16:74647795-75306402	118	658608	3	rs4887779	rs999675	7.499	0	BCAR1
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	BCAR1
chr16:69829875-88530172	5884	18700298	1	rs4985547	rs4782368	30.145	0	BCAR1
chr18:55225777-67600991	3130	12375215	3	rs1736442	rs11151547	39.543	0	BCL2
chr18:46577218-63087976	3720	16510759	1	rs357893	rs487555	37.146	0	BCL2
chr14:92414380-101757695	2557	9343316	3	rs3814835	rs4906092	19.826	0	BDKRB1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	BDKRB1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	BDKRB1
chr14:92414380-101757695	2557	9343316	3	rs3814835	rs4906092	19.826	0	BDKRB2
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	BDKRB2
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	BDKRB2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:22570391-22671116	7	100726	1	rs7913154	rs1170548	16.777	0	BMI1
chr10:22509765-22671116	16	161352	1	rs4539216	rs1170548	17.583	0	BMI1
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	BMI1
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	BMPR2
chr2:203165534-203927551	67	762018	4	rs6753156	rs7573079	4.268	0	BMPR2
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	BMPR2
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	BMPR2
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	BMPR2
chr2:185221268-213136747	4656	27915480	1	rs17501385	rs2135161	31.832	0	BMPR2
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	BOC
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	BOC
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	BOC
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	BOC
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	BOC
chr3:95055435-114675646	3559	19620212	1	rs2871719	rs16823416	41.186	0	BOC
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	BOC
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	BPGM
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	BPGM
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	BPGM
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	BPGM
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	BPGM
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	BRCA1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	BRCA1
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	BRCA2
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	BRD7
chr8:14962494-40636979	6254	25674486	3	rs1026349	rs4403392	35.815	0	BRF2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	BRF2
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	BRF2
chr11:65226187-67799926	252	2573740	1	rs1626021	rs2075626	54.033	0	BRMS1
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	BRMS1
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	BRMS1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	BRMS1
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	BTBD2
chr19:1505874-2123516	98	617643	1	rs197198	rs2072304	26.337	0	BTBD2
chr19:266034-2771641	432	2505608	4	rs2312724	rs741103	15.34	0	BTBD2
chr19:1572369-3354956	351	1782588	1	rs10415156	rs4807451	45.225	0	BTBD2
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	BTBD2
chr19:1920342-2050823	26	130482	3	rs4807169	rs3746101	85.52	0	BTBD2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	BTG2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	BTG2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	BTG2
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	BTG2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	BTG2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	BTG2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	C1orf116
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	C1orf116
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	C1orf116
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	C1orf116
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	C1orf116
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	C1orf116
chr20:50459530-62198348	3263	11738819	3	rs6063722	rs438363	11.693	0	C20orf20
chr20:61158952-62230974	254	1072023	1	rs11906462	rs432717	39.681	0	C20orf20

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr20:61008620-62751454	409	1742835	1	rs2427340	rs13039817	86.487	0	C20orf20
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	C20orf24
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	C4orf17
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	C4orf17
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	C4orf17
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	C4orf17
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	C4orf17
chr5:175559839-175687091	11	127253	3	rs7443800	rs7726699	10.109	0	C5orf25
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	C5orf25
chr5:175559839-175687091	11	127253	3	rs7443800	rs7726699	28.516	0	C5orf25
chr5:175559839-175687091	11	127253	3	rs7443800	rs7726699	14.514	0	C5orf25
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	C5orf25
chr5:176010125-180058963	954	4048839	1	rs936912	rs2290983	30.904	0	C5orf25
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	C7orf25
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	C7orf25
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	C7orf25
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	C9orf25
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	C9orf25
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	C9orf25
chr8:53363937-64107847	2115	10743911	3	rs284818	rs2043525	25.971	0	CA8
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	CA8
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	CA8
chr8:60654261-60775727	18	121467	1	rs1949102	rs7822560	11.681	325696	CA8
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	CA8
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	CABIN1
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	CABIN1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr22:24241594-24622648	39	381055	1	rs17004049	rs2275984	23.991	0	CABIN1
chr22:23925335-25958952	515	2033618	3	rs12627824	rs2205971	279.291	0	CABIN1
chr22:22351365-25906803	1041	3555439	3	rs5756388	rs476240	238.835	0	CABIN1
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	CABP1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	CABP1
chr9:138873600-140938183	302	2064584	1	cnvi0002612	rs3750506	26.611	0	CACNA1B
chr12:1816613-2097716	81	281104	3	rs11061937	rs4141130	0.38	0	CACNA1C
chr12:2268143-2408194	27	140052	3	rs11062134	rs4298967	15.754	0	CACNA1C
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	CACYBP
chr1:164144117-180071987	3186	15927871	3	rs12037444	rs6425606	30.846	0	CACYBP
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	CACYBP
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	CACYBP
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CACYBP
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	CALB2
chr16:69829875-88530172	5884	18700298	1	rs4985547	rs4782368	30.145	0	CALB2
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	CALCR
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	CALCR
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	CALCR
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	CALCR
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	CALD1
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	CALD1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	CALD1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	CALD1
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	CALD1
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	CALM1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	CALM1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	CALM1
chr2:42287306-50902931	2298	8615626	3	rs988958	rs2194390	44.151	0	CALM2
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	CALM2
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	CALM2
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	CALM2
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	CALM3
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	CALM3
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	CALM3
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	CALM3
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	CALM3
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	CALM3
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	CALM3
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	CALM3
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	CALM3
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	CAMK1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	CAMK1
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	CAMK2A
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	CAMK2A
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	CAMK2A
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	CAMK2A
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	CAMK2B
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	CAMK2B
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	CAMK2B
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	CAMK2B
chr7:44112529-45698253	270	1585725	1	rs7778745	rs2960288	51.042	0	CAMK2B
chr10:75478159-75601688	10	123530	1	rs2894040	rs2254266	20.578	0	CAMK2G

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	CAMK2G
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	CAMK2G
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	CAMK2G
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	CAMK2G
chr5:106749690-117695003	2459	10945314	3	rs6868410	rs6882527	55.105	0	CAMK4
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	CAMK4
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	CAMK4
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	CAMK4
chr5:108284342-111242002	627	2957661	1	rs3797817	rs17133870	44.164	0	CAMK4
chr17:3781764-3882309	34	100546	1	rs9914305	rs17763551	42.821	0	CAMKK1
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	CAMKK2
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	CAMKK2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	CAPN2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	CAPN2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	CAPN2
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	CAPN2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	CAPN2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CAPN2
chr4:182173261-187358040	1508	5184780	3	rs11930209	rs4862695	63.646	0	CASP3
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	CASP3
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	CASP3
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	CASP3
chr4:108454525-114225831	1057	5771307	3	rs1877863	rs29311	22.746	0	CASP6
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	CASP6
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	CASP6
chr4:110561106-110741290	35	180185	1	rs6533444	rs4610335	15.769	0	CASP6

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	CASP6
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	CASP6
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	CASP6
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	CASP7
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	CASP7
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	CASP7
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	CASP7
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	CASP7
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	CASP8
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	CASP8
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	CASP8
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	CASP8
chr2:185221268-213136747	4656	27915480	1	rs17501385	rs2135161	31.832	0	CASP8
chr2:201988238-202111380	11	123143	1	rs7583529	rs3769825	18.612	0	CASP8
chr3:116881714-132034199	2802	15152486	3	rs7649284	rs3844501	21.439	0	CASR
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	CASR
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	CASR
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	CASR
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	CASR
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	CASR
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	CASR
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	CAV1
chr7:112666609-125975251	1866	13308643	4	rs6957202	rs496	3.945	0	CAV1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	CAV1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	CAV1
chr7:115525876-115956129	68	430254	1	rs6948855	rs12667497	28.379	0	CAV1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	CAV1
chr11:114191016-134258416	5073	20067401	3	rs2847476	rs893951	4.233	0	CBL
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	CBL
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	CBL
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	CBX1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	CBX1
chr19:54743217-58326001	842	3582785	3	rs17239607	rs2303817	41.312	0	CCDC106
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	CCDC106
chr5:68234769-70811821	12971	2577053	4	rs6449986	rs279322	2.672	0	CCNB1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	CCNB1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	CCNB1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	CCNB1
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	CCND1
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	CCND1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	CCND1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	CCNE1
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	CCNE1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	CCNE1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	CCNE1
chr3:32995928-33321616	82	325689	4	rs2228428	rs7626634	4.598	0	CCR4
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	CCR4
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	CCR4
chr3:32439785-33321616	160	881832	3	rs347134	rs7626634	15.636	0	CCR4
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	CCR5
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	CCR5
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	CCR5

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	CD163
chr12:7623724-7777197	30	153474	1	rs11054072	rs12308688	23.272	0	CD163
chr11:60589137-64068310	499	3479174	1	rs656736	rs2286614	53.467	0	CD5
chr11:60760530-60880856	31	120327	3	rs11230553	rs678060	42.25	0	CD5
chr11:59765908-62371773	484	2605866	3	rs569225	rs2516633	35.88	0	CD5
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	CD5
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	CD5
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	CD9
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	CDC42
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	CDC42
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	CDKN2C
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	CDKN2C
chr5:82234797-92547093	1521	10312297	4	rs37545	rs10041223	14.906	0	CETN3
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	CETN3
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	CETN3
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	CETN3
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	CFTR
chr7:112666609-125975251	1866	13308643	4	rs6957202	rs496	3.945	0	CFTR
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	CFTR
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	CFTR
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	CFTR
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	CHAT
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	CHAT
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	CHP
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	CHP
chr15:41457623-41562393	23	104771	1	rs496142	rs16971734	10.768	0	CHP

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr15:40528155-42166500	240	1638346	1	rs1017843	rs12593397	85.352	0	CHP
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	CHRM2
chr7:136375979-137102498	151	726520	4	rs10954541	rs1647189	5.931	0	CHRM2
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	CHRM2
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	CHRM2
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	CHRM2
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	CHRM2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	CHRM3
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	CHRM3
chr1:239472077-239774670	62	302594	3	rs12041476	rs6685121	100.034	0	CHRM3
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	CHRM3
chr10:101320120-104213502	403	2893383	1	rs10748784	rs11191291	27.935	0	CHUK
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	CHUK
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	CHUK
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	CHUK
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	CHUK
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	CHUK
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	CIC
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	CIC
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	CIC
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	CIC
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	CIC
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	CIC
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	CIC
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	CISH
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	CISH

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	CISH
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	CISH
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	CKMT2
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	CKMT2
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	CKMT2
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	CKMT2
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	CLTB
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	CLTB
chr8:14962494-40636979	6254	25674486	3	rs1026349	rs4403392	35.815	0	CLU
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	CLU
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	CLU
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	CMIP
chr16:69829875-88530172	5884	18700298	1	rs4985547	rs4782368	30.145	0	CMIP
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	CNN1
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	CNN1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	CNN1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	CNP
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	CNP
chr6:88318883-101197953	2546	12879071	3	rs2307389	rs1336244	20.983	0	CNR1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	CNR1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	CNR1
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	CNR1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	CNR1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	CNR1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	CNR1
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	CNR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	CNR1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	CNR1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	CNR2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	CNR2
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	COIL
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	COIL
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	COPB2
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	COPB2
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	COPB2
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	COPB2
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	COPB2
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	COPB2
chr11:65226187-67799926	252	2573740	1	rs1626021	rs2075626	54.033	0	CORO1B
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	CORO1B
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	CORO1B
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	CORO1B
chr11:67186000-67288594	13	102595	1	rs1790733	rs2276118	16.171	0	CORO1B
chr3:116881714-132034199	2802	15152486	3	rs7649284	rs3844501	21.439	0	COX17
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	COX17
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	COX17
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	COX17
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	COX17
chr3:118926656-121160369	362	2233714	1	rs4591498	rs4676677	42.841	0	COX17
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	COX17
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	COX17
chr4:158105424-181967709	4468	23862286	4	rs10517663	rs4583800	8.627	0	CPE

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	CPE
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	CPE
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	CPE
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	CPE
chr4:126959315-183880263	10103	56920949	3	rs9985873	rs2714510	50.565	0	CPE
chr4:160961893-179971852	3803	19009960	1	rs17039117	rs10034007	35.81	0	CPE
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	CPE
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	CRADD
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	CRADD
chr12:84152210-113464649	5560	29312440	1	rs10862748	rs16942470	28.181	0	CRADD
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	CREM
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	CREM
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	CRHR1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	CRHR1
chr17:43657921-44354796	88	696876	3	rs9898857	rs2732700	28.613	0	CRHR1
chr2:42287306-50902931	2298	8615626	3	rs988958	rs2194390	44.151	0	CRIPT
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	CRIPT
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	CRIPT
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	CRIPT
chr20:296172-665551	107	369380	1	rs6049002	rs4815889	47.808	0	CSNK2A1
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	CSNK2A2
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	CSNK2B
chr6:31281438-31880637	8674	599200	1	cnvi0006173	rs28435656	31.216	0	CSNK2B
chr6:31281438-31795082	8770	513645	1	cnvi0006173	rs5026931	58.163	0	CSNK2B
chr6:31281438-31878433	8677	596996	1	cnvi0006173	rs519417	56.15	0	CSNK2B
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	CSNK2B

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:31289284-32512164	1746	1222881	3	rs9265170	rs28495356	24.02	0	CSNK2B
chr6:31281438-32354073	8034	1072636	1	cnvi0006173	rs7759813	34.729	0	CSNK2B
chr6:31289284-32499014	9991	1209731	3	rs9265170	cnvi0006585	23.466	0	CSNK2B
chr6:26430981-31878433	8001	5447453	1	rs2893848	rs519417	55.651	0	CSNK2B
chr6:31204008-32355605	1755	1151598	1	rs7745906	rs9268472	61.163	0	CSNK2B
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	CTNNB1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	CTNNB1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	CTNNB1
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	CYCS
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	CYCS
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	CYCS
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	DAPK3
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	DAPK3
chr19:3958397-4098776	20	140380	1	rs7255123	rs350912	17.875	0	DAPK3
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	DAPK3
chr5:176780545-176896412	12	115868	1	rs4131289	rs2029164	11.65	0	DBN1
chr5:176859848-177047009	12	187162	1	rs2731664	rs7727897	15.921	0	DBN1
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	DBN1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	DBN1
chr5:176010125-180058963	954	4048839	1	rs936912	rs2290983	30.904	0	DBN1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	DCN
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	DCN
chr12:84152210-113464649	5560	29312440	1	rs10862748	rs16942470	28.181	0	DCN
chr12:91427784-91630155	39	202372	1	rs2897929	rs1522430	13.426	0	DCN
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	DDIT4
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	DDIT4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	DDIT4
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	DDIT4
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	DDX5
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	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
chr8:2289839-11706229	4078	9416391	3	rs6558648	rs1736090	47.192	0	DEFB1
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	DGKD
chr2:211013993-242051777	6871	31037785	3	rs4673499	rs2074824	40.702	0	DGKD
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	DGKD
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	DGKD
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	DGKD
chr11:46393757-46646030	22	252274	1	rs3740976	rs7122039	13.806	0	DGKZ
chr11:38685169-55210647	1957	16525479	3	rs1026834	rs11229683	17.562	0	DGKZ
chr11:46297631-46699124	35	401494	1	rs10437653	rs8914	25.596	0	DGKZ
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	DHCR7
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	DHCR7
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	DHCR7
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	DIRAS2
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	DIRAS2
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	DIRAS2
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	DIRAS2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	DISC1
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	DISC1
chr1:231711489-231813134	22	101646	3	rs1765782	rs6541281	33.828	0	DISC1
chr1:231669827-231819050	26	149224	1	rs1655290	rs1417584	16.629	0	DISC1

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	DISC1
chr3:196710530-197344176	113	633647	3	rs4916596	rs9917735	5.501	0	DLG1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	DLG1
chr3:196833650-197037067	16	203418	1	rs12632536	rs7620061	17.735	0	DLG1
chr3:196833650-197037067	16	203418	1	rs12632536	rs7620061	17.971	0	DLG1
chr3:196793858-196985596	15	191739	1	rs6795358	rs9843659	13.601	0	DLG1
chr3:196793858-196993693	16	199836	1	rs6795358	rs406284	12.558	0	DLG1
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	DLG1
chr3:195401242-197744198	418	2342957	3	rs2140357	rs13327370	398.627	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
chr17:7031638-7592780	100	561143	3	rs2062737	rs2287497	12.667	0	DLG4
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	DLST
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	DLST
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	DLST
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	DNM1
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	DNM1
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	DNM1
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	DNM1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	DNM3
chr1:164144117-180071987	3186	15927871	3	rs12037444	rs6425606	30.846	0	DNM3
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	DNM3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	DNM3
chr8:14962494-40636979	6254	25674486	3	rs1026349	rs4403392	35.815	0	DPYSL2
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	DPYSL2
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	DPYSL2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	DRD1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	DRD1
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	DRD2
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	DRD2
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	DRD2
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	DRD3
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	DRD3
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	DRD3
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	DRD3
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	DRD3
chr3:95055435-114675646	3559	19620212	1	rs2871719	rs16823416	41.186	0	DRD3
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	DRD3
chr6:56700798-57160035	58	459238	1	rs7758867	rs6459184	64.215	0	DST
chr6:54337130-68125255	1525	13788126	4	rs243768	rs9363753	26.278	0	DST
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	DST
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	DST
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	DST
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	DST
chr20:6111569-21985498	4344	15873930	3	rs6038366	rs6047798	43.161	0	DSTN
chr1:1005806-2221222	93	1215417	1	rs3934834	rs2643885	45.212	0	DVL1
chr1:1119858-1575247	53	455390	1	rs1320565	rs6700106	30.24	0	DVL1
chr1:949468-3587505	498	2638038	1	rs1126625	rs3765696	23.726	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
chr17:7031638-7592780	100	561143	3	rs2062737	rs2287497	12.667	0	DVL2
chr3:183834490-184075047	45	240558	1	rs9815292	rs2228291	52.071	0	DVL3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	DVL3
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	DVL3
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	DVL3
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	DVL3
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	DYNLL1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	DYNLL1
chr10:133970588-135225666	210	1255079	1	rs870552	rs10857712	64.995	0	ECHS1
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	ECHS1
chr10:134741143-135357239	169	616097	1	rs12242379	rs1536826	34.134	0	ECHS1
chr9:138961722-140376668	138	1414947	1	rs11103306	rs10116708	35.913	0	EDF1
chr9:137718113-139841512	539	2123400	4	rs4842173	rs884113	1.053	0	EDF1
chr9:138873600-140938183	302	2064584	1	cnvi0002612	rs3750506	26.611	0	EDF1
chr9:139492789-140212642	109	719854	1	rs28485548	rs13295516	79.502	0	EDF1
chr8:144636272-145151910	72	515639	1	rs4874150	rs2070688	30.325	0	EEF1D
chr8:144663075-144929811	38	266737	0	rs1809148	rs11779128	18.944	0	EEF1D
chr8:142245646-145744618	599	3498973	4	rs11167039	rs3757966	0	0	EEF1D
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	EEF1D
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	EEF1D
chr8:142327998-145730330	725	3402333	1	rs878422	rs35770914	173.154	0	EEF1D
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	EEF2
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	EEF2
chr19:3958397-4098776	20	140380	1	rs7255123	rs350912	17.875	0	EEF2
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	EEF2
chr13:101787253-110828119	2677	9040867	3	rs592888	rs17517971	95.857	0	EFNB2
chr13:63692683-113075599	10941	49382917	1	rs9592243	rs9550080	27.124	0	EFNB2
chr13:34752890-109100024	15589	74347135	1	rs2321822	rs7332707	33.721	0	EFNB2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr13:100580353-112257226	3428	11676874	1	rs10851110	rs1341154	52.726	0	EFNB2
chr13:41369790-112329394	15030	70959605	3	rs1536807	rs9588495	26.915	0	EFNB2
chr13:60985192-114224496	12638	53239305	1	rs1341840	rs4907646	40.079	0	EFNB2
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	EGFR
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	EGFR
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	EGFR
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	EIF1B
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	EIF1B
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	EIF1B
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	ENO2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	EPB41
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	EPB41
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	EPB41L1
chr6:129368803-140027836	2420	10659034	3	rs11154461	rs9321752	88.822	0	EPB41L2
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	EPB41L2
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	EPB41L2
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	EPB41L2
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	EPB41L2
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	EPB41L2
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	EPB41L2
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	EPB41L2
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	EPB41L2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	EPHB2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	EPHB2
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	ERBB2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	ERBB2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:146892943-169478886	6121	22585944	3	rs12199886	rs13219463	43.565	0	ESR1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	ESR1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	ESR1
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	ESR1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	ESR1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	ESR1
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	ESR1
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	ESR2
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	ESR2
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	ESR2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	ESRRG
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	ESRRG
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	ESRRG
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	ESRRG
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	ESRRG
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	ESRRG
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	ETHE1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	ETHE1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	ETHE1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	ETHE1
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	ETHE1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	ETHE1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	ETHE1
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	ETHE1
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	EWSR1
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	EWSR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	F11R
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	F11R
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	F11R
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	F2R
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	F2R
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	F2R
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	F2R
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	F2RL2
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	F2RL2
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	F2RL2
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	F2RL2
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	F2RL3
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	F2RL3
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	F2RL3
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	F2RL3
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	F3
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	F3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	F3
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	FADD
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	FADD
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	FADD
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	FAS
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	FAS
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	FAS
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	FAS
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	FBLIM1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	FBLIM1
chr5:106749690-117695003	2459	10945314	3	rs6868410	rs6882527	55.105	0	FER
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	FER
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	FER
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	FER
chr5:108410880-108534661	25	123782	1	rs17161593	rs6594352	22.436	0	FER
chr5:108243615-108346952	15	103338	1	rs4604227	rs10515397	13.382	0	FER
chr5:108243615-108490168	45	246554	1	rs4604227	rs11952637	19.486	0	FER
chr5:108390471-108490168	24	99698	1	rs10062069	rs11952637	16.894	0	FER
chr5:108284342-111242002	627	2957661	1	rs3797817	rs17133870	44.164	0	FER
chr11:114191016-134258416	5073	20067401	3	rs2847476	rs893951	4.233	0	FEZ1
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	FEZ1
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	FEZ1
chr2:34687910-41885773	1679	7197864	4	rs2887973	rs6748566	14.365	0	FEZ2
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	FEZ2
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	FFAR1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	FFAR1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	FFAR1
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	FFAR1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	FFAR1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	FFAR1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	FFAR2
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	FFAR2
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	FFAR2
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	FFAR2
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	FFAR2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	FFAR2
chr14:38111870-49524522	1996	11412653	4	rs177852	rs2273387	32.638	0	FKBP3
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	FKBP3
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	FKBP3
chr12:62261443-72745898	2376	10484456	3	rs3759288	rs2044305	73.366	0	FLJ41278
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	FLJ41278
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	FLJ41278
chr12:63939740-69842643	1240	5902904	3	rs513203	rs6581895	22.639	0	FLJ41278
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	FLNB
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	FLNB
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	FLNB
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	FPR1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	FPR1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	FPR1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	FPR1
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	FPR1
chr12:62261443-72745898	2376	10484456	3	rs3759288	rs2044305	73.366	0	FRS2
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	FRS2
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	FRS2
chr12:69925695-70075933	47	150239	1	rs518634	rs775474	15.726	0	FRS2
chr2:42287306-50902931	2298	8615626	3	rs988958	rs2194390	44.151	0	FSHR
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	FSHR
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	FSHR
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	FSHR
chr15:91379999-91525197	28	145199	1	rs7171099	rs2301826	30.169	0	FURIN
chr15:72136872-102040672	6413	29903801	3	rs4777466	rs7179692	18.158	0	FURIN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	FURIN
chr15:73186518-94501564	4223	21315047	1	rs1947219	rs4344687	34.841	0	FURIN
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	FXN
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	FXN
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	FXN
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	FXN
chr9:40718561-72048477	498	31329917	3	rs2572590	rs2991695	24.737	0	FXN
chr3:179810898-182183458	277	2372561	4	rs1608071	rs9842478	0	0	FXR1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	FXR1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	FXR1
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	FXR1
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	FXR1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	FYN
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	FYN
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	FYN
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	FYN
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	FYN
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	FYN
chr6:93575149-115508938	4238	21933790	1	rs4707762	cnvi0021859	41.857	0	FYN
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	FYN
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	FYN
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	FYN
chr6:88318883-101197953	2546	12879071	3	rs2307389	rs1336244	20.983	0	GABRR1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	GABRR1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	GABRR1
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	GABRR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	GABRR1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	GABRR1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	GABRR1
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	GABRR1
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	GABRR1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GABRR1
chr6:88318883-101197953	2546	12879071	3	rs2307389	rs1336244	20.983	0	GABRR2
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	GABRR2
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	GABRR2
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	GABRR2
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	GABRR2
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	GABRR2
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	GABRR2
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	GABRR2
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	GABRR2
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GABRR2
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	GALR2
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	GALR2
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	GALR2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	GALR2
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	GAP43
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GAP43
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	GAP43
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	GAP43
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	GAP43
chr3:115166604-115280312	20	113709	1	rs937543	rs6777738	44.305	61839	GAP43

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	GAP43
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	GAPDH
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	GC
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	GC
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	GC
chr4:72136575-72703606	133	567032	1	rs1377287	rs11945677	46.854	0	GC
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	GC
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	GC
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	GC
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	GFAP
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	GFAP
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	GFI1
chr1:91735313-93953469	318	2218157	3	rs281968	rs2624437	24.127	0	GFI1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	GFI1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	GFI1
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	GFI1B
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	GFI1B
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	GFI1B
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	GFI1B
chr9:133274265-137174079	1058	3899815	1	rs4573325	rs11185709	48.157	0	GFI1B
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	GFPT1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	GFPT1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	GFPT1
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	GFPT1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	GH1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	GH1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:61016209-66240093	890	5223885	1	rs1588368	rs11658645	37.309	0	GH1
chr17:59314257-66170047	1135	6855791	1	rs758467	rs4558468	71.379	0	GH1
chr17:27831995-29897264	162	2065270	1	rs490120	rs223132	39.076	0	GIT1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	GIT1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	GIT2
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	GIT2
chr12:84152210-113464649	5560	29312440	1	rs10862748	rs16942470	28.181	0	GIT2
chr6:120284480-125648345	1162	5363866	4	rs726178	rs9388416	4.489	0	GJA1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	GJA1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	GJA1
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	GJA1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	GJA1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	GJA1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	GJA1
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	GJA1
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	GJA1
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	GJA1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GJA1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	GLP1R
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	GLP1R
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	GLP1R
chr14:51834859-63624420	2657	11789562	3	rs11629344	rs4902208	13.871	0	GMFB
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	GMFB
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	GMFB
chr7:155066-5366935	926	5211870	1	rs4075778	rs10278799	26.361	0	GNA12
chr7:2268970-2990009	143	721040	3	rs1626670	rs7806365	15.695	0	GNA12

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:1809385-5133219	777	3323835	1	rs1113831	rs4339542	25.717	0	GNA12
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	GNA15
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	GNA15
chr19:1572369-3354956	351	1782588	1	rs10415156	rs4807451	45.225	0	GNA15
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	GNA15
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	GNAI1
chr7:73178435-89984409	2908	16805975	4	rs11764572	rs42664	0.17	0	GNAI1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	GNAI1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	GNAI1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	GNAI2
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GNAI2
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	GNAI2
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	GNAI2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	GNAI3
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	GNAI3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	GNAI3
chr16:56362725-57226956	220	864232	3	rs2241952	rs6499871	11.443	0	GNAO1
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	GNAO1
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	GNAQ
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	GNAQ
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	GNAQ
chr9:77857783-82347458	1181	4489676	1	rs12000663	rs4387054	36.701	0	GNAQ
chr9:80201301-80528757	54	327457	1	rs1162211	rs7033572	30.324	0	GNAQ
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	GNAQ
chr20:57387854-57517574	23	129721	1	rs6015380	rs6092708	23.326	0	GNAS
chr20:50459530-62198348	3263	11738819	3	rs6063722	rs438363	11.693	0	GNAS

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	GNAZ
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	GNAZ
chr22:22351365-25906803	1041	3555439	3	rs5756388	rs476240	238.835	0	GNAZ
chr22:22998337-23649242	126	650906	1	rs6003181	rs131693	276.751	0	GNAZ
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	GOT1
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	GOT1
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	GOT1
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	GOT1
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	GOT1
chr17:4739161-4891956	27	152796	3	rs9900036	rs426475	13.756	0	GP1BA
chr4:158105424-181967709	4468	23862286	4	rs10517663	rs4583800	8.627	0	GPM6A
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	GPM6A
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	GPM6A
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	GPM6A
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	GPM6A
chr4:126959315-183880263	10103	56920949	3	rs9985873	rs2714510	50.565	0	GPM6A
chr4:160961893-179971852	3803	19009960	1	rs17039117	rs10034007	35.81	0	GPM6A
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	GPM6A
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	GPR26
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	GPR26
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	GPR26
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	GPR26
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	GPSM2
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	GPSM2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	GPSM2
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	GRB14

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:163048404-167430697	750	4382294	4	rs13399624	rs10208695	0	0	GRB14
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	GRB14
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	GRB14
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	GRB14
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	GRB2
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	GRB2
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	GRB2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	GRB2
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	GRB7
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	GRB7
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	GRIA1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	GRIA1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	GRIA1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	GRIA1
chr4:158105424-181967709	4468	23862286	4	rs10517663	rs4583800	8.627	0	GRIA2
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	GRIA2
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	GRIA2
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	GRIA2
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	GRIA2
chr4:126959315-183880263	10103	56920949	3	rs9985873	rs2714510	50.565	0	GRIA2
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	GRIA2
chr4:155739051-165849854	1997	10110804	1	rs7691720	rs10005938	26.215	0	GRIA2
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	GRIA4
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	GRIA4
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	GRIA4
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	GRIK1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	GRIK1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	GRIK1
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	GRIK1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	GRIK1
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	GRIK1
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	GRIK1
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	GRIK1
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	GRIK1
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	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
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	GRIK1
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	GRIK1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	GRIK3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	GRIK3
chr9:138961722-140376668	138	1414947	1	rs11103306	rs10116708	35.913	0	GRIN1
chr9:139973820-140301447	33	327628	1	rs7037849	rs11516126	24.432	0	GRIN1
chr9:138873600-140938183	302	2064584	1	cnvi0002612	rs3750506	26.611	0	GRIN1
chr9:139492789-140212642	109	719854	1	rs28485548	rs13295516	79.502	0	GRIN1
chr12:11740163-33217793	5315	21477631	3	rs10491981	rs12424662	69.717	0	GRIN2B
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	GRIN2B
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	GRK4
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	GRK4
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	GRK4
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	GRM1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	GRM1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	GRM1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	GRM1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	GRM1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	GRM1
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	GRM1
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	GRM1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	GRM2
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GRM2
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	GRM2
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	GRM2
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	GRM3
chr7:73178435-89984409	2908	16805975	4	rs11764572	rs42664	0.17	0	GRM3
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	GRM3
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	GRM3
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	GRM3
chr7:86022840-86137490	20	114651	1	rs3903590	rs6980352	14.813	135740	GRM3
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	GRM4
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	GRM4
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	GRM4
chr11:88533414-91714466	456	3181053	4	rs10501688	rs7940613	8.733	0	GRM5
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	GRM5
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	GRM5
chr11:88325804-88962090	140	636287	1	rs1504088	rs11018542	30.5	0	GRM5
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	GRM5
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	GRM6
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	GRM6

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:176010125-180058963	954	4048839	1	rs936912	rs2290983	30.904	0	GRM6
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	GRM7
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GRM7
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	GRM8
chr7:126354618-131010943	857	4656326	3	rs1018878	rs3823483	28.648	0	GRM8
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	GRM8
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	GRM8
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	GRM8
chr7:125999649-126219766	52	220118	1	rs714237	rs2299470	25.109	0	GRM8
chr7:125676925-125927493	48	250569	1	rs1419535	rs17600450	37.913	151159	GRM8
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	GRM8
chr7:125676925-125780682	24	103758	1	rs1419535	rs10267757	26.358	297970	GRM8
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	GSK3A
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	GSK3A
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	GSK3A
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	GSK3A
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	GSK3A
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	GSK3A
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	GSK3A
chr3:116881714-132034199	2802	15152486	3	rs7649284	rs3844501	21.439	0	GSK3B
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	GSK3B
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	GSK3B
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	GSK3B
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	GSK3B
chr3:118926656-121160369	362	2233714	1	rs4591498	rs4676677	42.841	0	GSK3B
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	GSK3B

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	GSK3B
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	GSN
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	GSN
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	GSN
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	GSN
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	GSTM4
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	GSTM4
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	GSTM4
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	HABP4
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	HABP4
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	HABP4
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	HABP4
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	HAND1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	HAND1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	HAND1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	HAND1
chr4:158105424-181967709	4468	23862286	4	rs10517663	rs4583800	8.627	0	HAND2
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	HAND2
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	HAND2
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	HAND2
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	HAND2
chr4:126959315-183880263	10103	56920949	3	rs9985873	rs2714510	50.565	0	HAND2
chr4:160961893-179971852	3803	19009960	1	rs17039117	rs10034007	35.81	0	HAND2
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	HAND2
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	HARS
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	HARS

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	HARS
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	HBXIP
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	HBXIP
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	HBXIP
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	HES1
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	HES1
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	HLA-A
chr6:19044000-31286381	6774	12242382	1	rs6922929	rs9265057	31.6	0	HLA-A
chr6:2681610-31453618	81	28772009	1	rs1131896	rs9267212	428.052	0	HLA-A
chr6:3764851-31298743	7861	27533893	3	rs28880026	rs28752863	40.215	0	HLA-A
chr6:3772684-31298743	7858	27526060	3	rs12661707	rs28752863	27.127	0	HLA-A
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	HLA-A
chr6:2681610-31453113	80	28771504	3	rs1131896	rs2904600	359.691	0	HLA-A
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	40.382	0	HLA-A
chr6:11677538-31289284	4992	19611747	1	rs2022016	rs9265170	68.97	0	HLA-A
chr6:29864203-31294687	11756	1430485	3	rs9259437	rs28752836	6.497	0	HLA-A
chr6:19812444-31286381	6951	11473938	1	rs16882740	rs9265057	32.473	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
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
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	HLA-C
chr6:30858991-31300796	709	441806	3	rs2524257	rs9265668	31.123	0	HLA-C
chr6:19044000-31286381	6774	12242382	1	rs6922929	rs9265057	31.6	0	HLA-C
chr6:2681610-31453618	81	28772009	1	rs1131896	rs9267212	428.052	0	HLA-C
chr6:3764851-31298743	7861	27533893	3	rs28880026	rs28752863	40.215	0	HLA-C

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:3772684-31298743	7858	27526060	3	rs12661707	rs28752863	27.127	0	HLA-C
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	HLA-C
chr6:2681610-31453113	80	28771504	3	rs1131896	rs2904600	359.691	0	HLA-C
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	40.382	0	HLA-C
chr6:11677538-31289284	4992	19611747	1	rs2022016	rs9265170	68.97	0	HLA-C
chr6:29864203-31294687	11756	1430485	3	rs9259437	rs28752836	6.497	0	HLA-C
chr6:19812444-31286381	6951	11473938	1	rs16882740	rs9265057	32.473	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
chr6:31204008-32355605	1755	1151598	1	rs7745906	rs9268472	61.163	0	HLA-C
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	HLA-DQA2
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	HLA-DQA2
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	HLA-DQA2
chr6:32505531-32895580	7668	390050	1	cnvi0006586	rs9501239	48.21	0	HLA-DQA2
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	HMGB1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	HMGN1
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	HMGN1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	HMGN1
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	HMGN1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	HMGN1
chr21:37312170-45589727	2506	8277558	1	rs1573303	rs4818886	41.534	0	HMGN1
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	HMGN1
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	HMGN1
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	HMGN1
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	HMGN1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	HMGN1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	HMGN2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	HMGN2
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	HMMR
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	HMMR
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	HMMR
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	HMMR
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	HMP19
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	HMP19
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	HOMER1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	HOMER1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	HOMER1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	HOMER1
chr5:76450190-79622472	726	3172283	1	rs6864250	rs2405378	35.823	0	HOMER1
chr5:78542290-79057477	95	515188	1	rs10474578	rs259126	38.26	0	HOMER1
chr15:72136872-102040672	6413	29903801	3	rs4777466	rs7179692	18.158	0	HOMER2
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	HOMER2
chr15:73186518-94501564	4223	21315047	1	rs1947219	rs4344687	34.841	0	HOMER2
chr19:18892728-19054720	20	161993	1	rs10038	rs4808883	49.554	0	HOMER3
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	HOMER3
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	HOMER3
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	HOMER3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr18:13708574-28197518	1970	14488945	4	rs4796995	rs2542754	1.046	0	HRH4
chr14:102003864-105246686	423	3242823	1	rs1190712	rs2494738	38.435	0	HSP90AA1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	HSP90AA1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	HSP90AA1
chr6:41773322-45545975	754	3772654	3	rs2153878	rs7764616	22.895	0	HSP90AB1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	HSP90AB1
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	HSP90AB1
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	HSP90AB1
chr6:31281438-31880637	8674	599200	1	cnvi0006173	rs28435656	31.216	0	HSPA1A
chr6:31281438-31795082	8770	513645	1	cnvi0006173	rs5026931	58.163	0	HSPA1A
chr6:31281438-31878433	8677	596996	1	cnvi0006173	rs519417	56.15	0	HSPA1A
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	HSPA1A
chr6:31289284-32512164	1746	1222881	3	rs9265170	rs28495356	24.02	0	HSPA1A
chr6:31281438-32354073	8034	1072636	1	cnvi0006173	rs7759813	34.729	0	HSPA1A
chr6:31289284-32499014	9991	1209731	3	rs9265170	cnvi0006585	23.466	0	HSPA1A
chr6:26430981-31878433	8001	5447453	1	rs2893848	rs519417	55.651	0	HSPA1A
chr6:31204008-32355605	1755	1151598	1	rs7745906	rs9268472	61.163	0	HSPA1A
chr6:31281438-31880637	8674	599200	1	cnvi0006173	rs28435656	31.216	0	HSPA1B
chr6:31281438-31795082	8770	513645	1	cnvi0006173	rs5026931	58.163	0	HSPA1B
chr6:31281438-31878433	8677	596996	1	cnvi0006173	rs519417	56.15	0	HSPA1B
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	HSPA1B
chr6:31289284-32512164	1746	1222881	3	rs9265170	rs28495356	24.02	0	HSPA1B
chr6:31281438-32354073	8034	1072636	1	cnvi0006173	rs7759813	34.729	0	HSPA1B
chr6:31289284-32499014	9991	1209731	3	rs9265170	cnvi0006585	23.466	0	HSPA1B
chr6:26430981-31878433	8001	5447453	1	rs2893848	rs519417	55.651	0	HSPA1B
chr6:31204008-32355605	1755	1151598	1	rs7745906	rs9268472	61.163	0	HSPA1B

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	HSPA4
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	HSPA4
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	HSPA4
chr5:132036252-133013438	246	977187	1	rs1468216	rs1558188	37.296	0	HSPA4
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	HSPB1
chr7:73178435-89984409	2908	16805975	4	rs11764572	rs42664	0.17	0	HSPB1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	HSPB1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	HSPB1
chr7:75337644-77143217	201	1805574	1	rs10954377	rs6976567	29.447	0	HSPB1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	HSPB3
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	HSPB3
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	HSPB8
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	HSPB8
chr19:54743217-58326001	842	3582785	3	rs17239607	rs2303817	41.312	0	HSPBP1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	HSPBP1
chr19:55590671-55994156	87	403486	1	rs1671163	cnvi0009418	33.877	0	HSPBP1
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	HSPE1
chr2:197839329-199705667	272	1866339	3	rs6754223	rs1518095	20.552	0	HSPE1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	HSPE1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	HSPE1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	HSPE1
chr2:185221268-213136747	4656	27915480	1	rs17501385	rs2135161	31.832	0	HSPE1
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	HSPH1
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	HTR2A
chr13:34752890-109100024	15589	74347135	1	rs2321822	rs7332707	33.721	0	HTR2A
chr13:41369790-112329394	15030	70959605	3	rs1536807	rs9588495	26.915	0	HTR2A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr13:46975365-56115403	1925	9140039	1	rs7333428	rs9537164	28.591	0	HTR2A
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	HTR2B
chr2:211013993-242051777	6871	31037785	3	rs4673499	rs2074824	40.702	0	HTR2B
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	HTR2B
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	HTR2B
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	HTR2B
chr2:231913056-232047561	18	134506	1	rs3731783	rs7585622	16.163	0	HTR2B
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	HTR6
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	HTR6
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	IKBKB
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	IKBKB
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	IKBKB
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	IKBKE
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	IKBKE
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	IKBKE
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	IKBKE
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	IKBKE
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	IKBKE
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	IL4R
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	IL5RA
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	IL5RA
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	IMPDH2
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	IMPDH2
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	IMPDH2
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	IMPDH2
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	INSR

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	INSR
chr3:121415720-121614175	25	198456	1	rs3732410	rs1881998	19.972	0	IQCB1
chr3:116881714-132034199	2802	15152486	3	rs7649284	rs3844501	21.439	0	IQCB1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	IQCB1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	IQCB1
chr3:121406253-121670405	37	264153	1	rs7430165	rs9871743	14.269	0	IQCB1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	IQCB1
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	IQCB1
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	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
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	IQCB1
chr15:72136872-102040672	6413	29903801	3	rs4777466	rs7179692	18.158	0	IQGAP1
chr15:90471917-91108674	116	636758	1	rs1256854	rs8031453	41.393	0	IQGAP1
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	IQGAP1
chr15:73186518-94501564	4223	21315047	1	rs1947219	rs4344687	34.841	0	IQGAP1
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	IQGAP2
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	IQGAP2
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	IQGAP2
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	IQGAP2
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	IRS1
chr2:211013993-242051777	6871	31037785	3	rs4673499	rs2074824	40.702	0	IRS1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	IRS1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	IRS1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	IRS1
chr10:28216167-33956346	1404	5740180	3	rs6481494	rs2891376	43.482	0	ITGB1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	ITGB1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	ITGB2
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	ITGB2
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	ITGB2
chr21:41509457-47941916	1911	6432460	3	rs741802	rs2096507	27.753	0	ITGB2
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	ITGB2
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	ITGB2
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	ITGB2
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	ITGB2
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	ITGB2
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	ITGB2
chr21:44744540-47642272	785	2897733	1	rs10084596	rs2280957	41.824	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	ITGB2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	ITGB3BP
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	ITGB3BP
chr1:63914117-64047615	16	133499	1	rs3009577	rs10127824	22.702	0	ITGB3BP
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	ITGB4
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	ITGB4
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	ITGB4
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	ITGB4
chr3:116881714-132034199	2802	15152486	3	rs7649284	rs3844501	21.439	0	ITGB5
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	ITGB5
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	ITGB5

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	ITGB5
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	ITGB5
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	ITGB5
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	ITGB5
chr12:53517820-53621711	14	103892	3	rs2280697	rs10082776	3.878	0	ITGB7
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	ITGB7
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	ITGB7
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	ITPKA
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	ITPKA
chr15:40528155-42166500	240	1638346	1	rs1017843	rs12593397	85.352	0	ITPKA
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	ITPKB
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	ITPKB
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	ITPKB
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	ITPKB
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	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
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	ITPR1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	ITPR1
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	ITPR3
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	ITPR3
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	ITPR3
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	JAK1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	JAK1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	KCNE1
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	KCNE1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	KCNE1
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	KCNE1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	KCNE1
chr21:35725729-35904697	49	178969	3	rs11702479	rs7280739	62.338	0	KCNE1
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	KCNE1
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	KCNE1
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	KCNE1
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	KCNE1
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	KCNE1
chr21:14768343-48084989	8193	33316647	3	rs2257224	rs2839378	5021.076	0	KCNE1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	4787.438	0	KCNE1
chr21:14595264-48084989	8781	33489726	3	rs2847443	rs2839378	1871.363	0	KCNE1
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	KCNE1
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	KCNE4
chr2:211013993-242051777	6871	31037785	3	rs4673499	rs2074824	40.702	0	KCNE4
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	KCNE4
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	KCNE4
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	KCNE4
chr7:150634448-150837529	34	203082	3	rs758887	rs10230113	4.01	0	KCNH2
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	KCNH2
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	KCNH2
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	KCNH2
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	KCNH2
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	KCNH2
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	KCNJ2
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	KCNJ2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	KCNJ2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	KCNJ2
chr5:106749690-117695003	2459	10945314	3	rs6868410	rs6882527	55.105	0	KCNN2
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	KCNN2
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	KCNN2
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	KCNN2
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	KCNN4
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	KCNN4
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	KCNN4
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	KCNN4
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	KCNN4
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	KCNN4
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	KCNN4
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	KCNN4
chr20:61839585-62212928	58	373344	1	rs6090305	rs310672	25.348	0	KCNQ2
chr20:61852629-62219837	59	367209	1	rs6010873	rs1151621	42.234	0	KCNQ2
chr20:62092342-62385479	46	293138	1	rs6122454	rs7273624	63.019	0	KCNQ2
chr20:61852629-62212928	57	360300	1	rs6010873	rs310672	32.584	0	KCNQ2
chr20:50459530-62198348	3263	11738819	3	rs6063722	rs438363	11.693	0	KCNQ2
chr20:61585706-62404416	145	818711	1	rs2093045	rs6062521	36.155	0	KCNQ2
chr20:61158952-62230974	254	1072023	1	rs11906462	rs432717	39.681	0	KCNQ2
chr20:61008620-62751454	409	1742835	1	rs2427340	rs13039817	86.487	0	KCNQ2
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	KCNQ3
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	KCNQ3
chr8:84037048-138506934	11020	54469887	1	rs13265895	rs1849692	72.228	0	KCNQ3
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	KCNQ3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:68563328-76635743	1594	8072416	3	rs1399225	rs9343330	47.996	0	KCNQ5
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	KCNQ5
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	KCNQ5
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	KCNQ5
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	KCNQ5
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	KCNQ5
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	KCNQ5
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	KCNQ5
chr4:53893156-57457918	721	3564763	3	rs17082301	rs7670824	14.755	0	KDR
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	KDR
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	KDR
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	KDR
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	KDR
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	KDR
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	KIAA0090
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	KIAA0090
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	KIAA1377
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	KIAA1377
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	KIAA1377
chr11:99019894-103408327	1272	4388434	1	rs11218556	rs1471602	67.436	0	KIAA1377
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	KIAA1549
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	KIAA1549
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	KIAA1549
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	KIAA1549
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	KIAA1549
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	KIAA1683

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	KIAA1683
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	KIAA1683
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	KIF3A
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	KIF3A
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	KIF3A
chr5:132036252-133013438	246	977187	1	rs1468216	rs1558188	37.296	0	KIF3A
chr5:132039132-132142277	13	103146	1	rs2285700	rs2057825	14.409	0	KIF3A
chr5:132042146-132142277	11	100132	1	rs3798130	rs2057825	13.579	0	KIF3A
chr4:53893156-57457918	721	3564763	3	rs17082301	rs7670824	14.755	0	KIT
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	KIT
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	KIT
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	KIT
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	KIT
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	KIT
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	KLHL20
chr1:164144117-180071987	3186	15927871	3	rs12037444	rs6425606	30.846	0	KLHL20
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	KLHL20
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	KLHL20
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	KLHL3
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	KLHL3
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	KLHL3
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	KLK10
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	KLK10
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	KLK10
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	KLK10
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	KLK10

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:11740163-33217793	5315	21477631	3	rs10491981	rs12424662	69.717	0	KRAS
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	KRAS
chr12:25274593-25385910	26	111318	1	rs2220195	rs11047912	19.553	0	KRAS
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	KRT10
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	KRT10
chr12:52746294-53521658	273	775365	3	rs1625785	rs12581102	23.895	0	KRT18
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	KRT18
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	KRT18
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	LAMA4
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	LAMA4
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	LAMA4
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	LAMA4
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	LAMA4
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	LAMA4
chr6:93575149-115508938	4238	21933790	1	rs4707762	cnvi0021859	41.857	0	LAMA4
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	LAMA4
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	LAMA4
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	LAMA4
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	LCK
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	LCK
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	LGALS2
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	LGALS2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	LMNA
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	LMNA
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	LMNA
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	LMNB1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	LMNB1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	LMNB1
chr8:142200731-144657600	499	2456870	1	rs2288997	rs2290416	58.39	0	LOC100133669
chr8:142245646-145744618	599	3498973	4	rs11167039	rs3757966	0	0	LOC100133669
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	LOC100133669
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	LOC100133669
chr8:142327998-145730330	725	3402333	1	rs878422	rs35770914	173.154	0	LOC100133669
chr6:129368803-140027836	2420	10659034	3	rs11154461	rs9321752	88.822	0	LOC154092
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	LOC154092
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	LOC154092
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	LOC154092
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	LOC154092
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	LOC154092
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	LOC154092
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	LOC154092
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	LOC154092
chr18:2412278-7343763	1314	4931486	3	rs16943205	rs9949998	70.845	0	LOC339290
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	LOC340357
chr8:11876689-15051158	1245	3174470	1	rs10096955	rs7840505	34.251	0	LOC340357
chr8:11876689-15051158	1245	3174470	1	rs10096955	rs7840505	32.747	0	LOC340357
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	LOC400604
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	LOC400604
chr4:182173261-187358040	1508	5184780	3	rs11930209	rs4862695	63.646	0	LRP2BP
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	LRP2BP
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	LRP2BP
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	LRP2BP

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	LRRC59
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	LRRC59
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	LTA
chr6:31281438-31880637	8674	599200	1	cnvi0006173	rs28435656	31.216	0	LTA
chr6:31281438-31795082	8770	513645	1	cnvi0006173	rs5026931	58.163	0	LTA
chr6:31281438-31878433	8677	596996	1	cnvi0006173	rs519417	56.15	0	LTA
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	LTA
chr6:31289284-32512164	1746	1222881	3	rs9265170	rs28495356	24.02	0	LTA
chr6:31281438-32354073	8034	1072636	1	cnvi0006173	rs7759813	34.729	0	LTA
chr6:31289284-32499014	9991	1209731	3	rs9265170	cnvi0006585	23.466	0	LTA
chr6:26430981-31878433	8001	5447453	1	rs2893848	rs519417	55.651	0	LTA
chr6:31204008-32355605	1755	1151598	1	rs7745906	rs9268472	61.163	0	LTA
chr14:22513116-32242747	1997	9729632	1	rs4982546	rs17098165	31.673	0	LTB4R
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	LTF
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	LTF
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	LTF
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	LXN
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	LXN
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	LXN
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	LXN
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	LYAR
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	LYAR
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	LYAR
chr8:56589428-56906068	65	316641	3	rs7460004	rs10282821	88.674	0	LYN
chr8:53363937-64107847	2115	10743911	3	rs284818	rs2043525	25.971	0	LYN
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	LYN

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	LYN
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	LYN
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	LYST
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	LYST
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	LYST
chr6:41773322-45545975	754	3772654	3	rs2153878	rs7764616	22.895	0	MAD2L1BP
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	MAD2L1BP
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	MAD2L1BP
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	MAD2L1BP
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	MAP1A
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	MAP1A
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	MAP2K1
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	MAP2K5
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	MAP3K10
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	MAP3K10
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	MAP3K10
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	MAP3K10
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	MAP3K10
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	MAP3K10
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	MAP3K10
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	MAP3K3
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	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
chr6:88318883-101197953	2546	12879071	3	rs2307389	rs1336244	20.983	0	MAP3K7
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	MAP3K7

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	MAP3K7
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	MAP3K7
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	MAP3K7
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	MAP3K7
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	MAP3K7
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	MAP3K7
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	MAP3K7
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	MAP3K7
chr10:28216167-33956346	1404	5740180	3	rs6481494	rs2891376	43.482	0	MAP3K8
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	MAP3K8
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	MAP4
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	MAP4
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	MAP4
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	MAP4
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	MAP6
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	MAP6
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	MAP6
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	MAPK1
chr22:17394989-22573637	1104	5178649	3	rs1860945	rs12159423	32.25	0	MAPK1
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	MAPK1
chr22:18877787-23040362	1092	4162576	3	rs2543958	rs5996349	1181.316	0	MAPK1
chr22:21939675-22971768	397	1032094	1	rs5754217	rs9620151	562.05	0	MAPK1
chr6:35949497-36165213	38	215717	1	rs12664249	rs4713936	16.27	0	MAPK14
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	MAPK14
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	MAPK14
chr16:28301487-31147548	157	2846062	1	rs9939450	rs2855475	36.755	0	MAPK3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	MAPK3
chr16:29130999-33612830	601	4481832	3	rs12922496	rs2067108	21.218	0	MAPK3
chr16:28642242-33612830	684	4970589	4	rs34954049	rs2067108	4.025	0	MAPK3
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	MAPT
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	MAPT
chr17:43657921-44354796	88	696876	3	rs9898857	rs2732700	28.613	0	MAPT
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	MARCKS
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	MARCKS
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	MARCKS
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	MARCKS
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	MARCKS
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	MARCKS
chr6:93575149-115508938	4238	21933790	1	rs4707762	cnvi0021859	41.857	0	MARCKS
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	MARCKS
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	MARCKS
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	MARCKS
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	MARCKS
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	MARK4
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	MARK4
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	MARK4
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	MARK4
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	MARK4
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	MARK4
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	MARK4
chr18:69640030-78015180	2471	8375151	1	rs4891968	rs12960632	5752.588	0	MBP
chr18:62041997-76047493	3846	14005497	1	rs1421538	rs8085865	33.212	0	MBP

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr18:55225777-67600991	3130	12375215	3	rs1736442	rs11151547	39.543	0	MC4R
chr18:46577218-63087976	3720	16510759	1	rs357893	rs487555	37.146	0	MC4R
chr18:58316345-58573151	29	256807	1	rs9964060	rs7233420	16.278	276344	MC4R
chr5:112566758-112688123	28	121366	1	rs12521391	rs11241201	15.251	0	MCC
chr5:106749690-117695003	2459	10945314	3	rs6868410	rs6882527	55.105	0	MCC
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	MCC
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	MCC
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	MCC
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	MGMT
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	MGMT
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	MIP
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	MIP
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	MLF2
chr9:18485176-22183781	1066	3698606	3	rs2153415	rs866666	59.138	0	MLLT3
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	MLLT3
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	MLLT3
chr14:51834859-63624420	2657	11789562	3	rs11629344	rs4902208	13.871	0	MNAT1
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	MNAT1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	MNAT1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	MNAT1
chr14:60826810-61530401	106	703592	1	rs17097373	rs4902024	40.432	0	MNAT1
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	MPHOSPH6
chr16:69829875-88530172	5884	18700298	1	rs4985547	rs4782368	30.145	0	MPHOSPH6
chr6:41773322-45545975	754	3772654	3	rs2153878	rs7764616	22.895	0	MRPL14
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	MRPL14
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	MRPL14

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	MRPL14
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	MRPS12
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	MRPS12
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	MRPS12
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	MRPS12
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	MRPS12
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	MRPS12
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	MRPS16
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	MRPS16
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	MRPS16
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	MRPS16
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	MRPS6
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	MRPS6
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	MRPS6
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	MRPS6
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	MRPS6
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	MRPS6
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	MRPS6
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	MRPS6
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	MRPS6
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	MRPS6
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	MTHFD1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	MTHFD1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	MTHFD1
chr14:64926097-65063315	19	137219	1	rs2281603	rs10134770	14.377	0	MTHFD1
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	MTNR1A
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	MTNR1A
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	MTNR1B
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	MTNR1B
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	MTNR1B
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	MX1
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	MX1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	MX1
chr21:41509457-47941916	1911	6432460	3	rs741802	rs2096507	27.753	0	MX1
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	MX1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	MX1
chr21:37312170-45589727	2506	8277558	1	rs1573303	rs4818886	41.534	0	MX1
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	MX1
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	MX1
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	MX1
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	MX1
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	MX1
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	MYC
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	MYC

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:84037048-138506934	11020	54469887	1	rs13265895	rs1849692	72.228	0	MYC
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	MYC
chr12:76374448-83556258	1351	7181811	3	rs7976486	rs4394896	27.448	0	MYF5
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	MYF5
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	MYF5
chr12:80848400-87509441	1110	6661042	1	cnvi0015213	rs12231093	33.999	0	MYF5
chr12:76374448-83556258	1351	7181811	3	rs7976486	rs4394896	27.448	0	MYF6
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	MYF6
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	MYF6
chr12:80848400-87509441	1110	6661042	1	cnvi0015213	rs12231093	33.999	0	MYF6
chr3:116881714-132034199	2802	15152486	3	rs7649284	rs3844501	21.439	0	MYLK
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	MYLK
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	MYLK
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	MYLK
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	MYLK
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	MYLK
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	MYLK
chr5:16654960-17268112	182	613153	3	rs379803	rs298595	6.286	0	MYO10
chr5:15481973-19212516	808	3730544	1	rs16903891	rs4472262	2959.007	0	MYO10
chr5:6100526-29461973	4878	23361448	3	rs307186	rs16898985	13.817	0	MYO10
chr6:68563328-76635743	1594	8072416	3	rs1399225	rs9343330	47.996	0	MYO6
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	MYO6
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	MYO6
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	MYO6
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	MYO6
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	MYO6

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	MYO6
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	MYO6
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	MYO7A
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	MYO7A
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	MYO7A
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	MYO9B
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	MYO9B
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	MYO9B
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	MYO9B
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	MYOC
chr1:164144117-180071987	3186	15927871	3	rs12037444	rs6425606	30.846	0	MYOC
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	MYOC
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	MYOC
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	MYOG
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	MYOG
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	MYOG
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	MYOG
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	MYOG
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	MYOG
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	MYOT
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	MYOT
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	MYOT
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	NACA
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	NACA
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	NANS
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	NANS

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	NANS
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	NANS
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	NCALD
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	NCALD
chr8:84037048-138506934	11020	54469887	1	rs13265895	rs1849692	72.228	0	NCALD
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	NCALD
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	NCF1C
chr7:73178435-89984409	2908	16805975	4	rs11764572	rs42664	0.17	0	NCF1C
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	NCF1C
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	NCF1C
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	NCK1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	NCK1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	NCK1
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	NCK1
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	NCK1
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	NCK1
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	NCL
chr2:211013993-242051777	6871	31037785	3	rs4673499	rs2074824	40.702	0	NCL
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	NCL
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	NCL
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	NCL
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	NCOR2
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	NCOR2
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	NEUROD1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	NEUROD1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	NEUROD1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	NEUROD1
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	NF2
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	NF2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	NFASC
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	NFASC
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	NFASC
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	NFASC
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	NFASC
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	NFASC
chr18:76715856-77595649	176	879794	1	rs1789250	rs635436	31.255	0	NFATC1
chr18:75773172-77730807	462	1957636	3	rs11665253	rs1134231	32.533	0	NFATC1
chr18:69640030-78015180	2471	8375151	1	rs4891968	rs12960632	5752.588	0	NFATC1
chr18:77220616-77368374	53	147759	1	rs7236492	rs4799069	31.995	0	NFATC1
chr10:101320120-104213502	403	2893383	1	rs10748784	rs11191291	27.935	0	NFKB2
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	NFKB2
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	NFKB2
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	NFKB2
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	NFKB2
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	NFKB2
chr14:32903616-37374768	1191	4471153	3	rs2383302	rs17105665	31.38	0	NFKBIA
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	NFKBIA
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	NFKBIB
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	NFKBIB
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	NFKBIB
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	NFKBIB
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	NFKBIB

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	NFKBIB
chr6:41773322-45545975	754	3772654	3	rs2153878	rs7764616	22.895	0	NFKBIE
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	NFKBIE
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	NFKBIE
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	NFKBIE
chr14:77532672-77856184	101	323513	1	rs4899635	rs12435136	36.527	0	NGB
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	NGB
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	NGB
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	NGB
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	NHP2L1
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	NHP2L1
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	NMI
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	NMI
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	NMI
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	NMI
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	NOS1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	NOS1
chr2:110857243-110982530	14	125288	3	rs6716800	rs13386516	15.231	0	NPHP1
chr2:110829655-110982530	15	152876	3	rs163667	rs13386516	35.326	0	NPHP1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	NPHP1
chr2:110829655-110982530	15	152876	3	rs163667	rs13386516	4.71	0	NPHP1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	NPHP1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	NPHP1
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	NPHP1
chr2:110871665-110983050	21	111386	1	rs17842653	rs10173717	72.747	0	NPHP1
chr2:110844047-111144295	29	300249	3	rs163642	rs2117529	113.269	0	NPHP1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:110871665-110974623	19	102959	1	rs17842653	rs10793770	55.985	0	NPHP1
chr2:110844047-110983050	24	139004	3	rs163642	rs10173717	73.48	0	NPHP1
chr2:110732676-110983050	31	250375	3	rs12467706	rs10173717	85.922	0	NPHP1
chr2:110732676-110983050	31	250375	3	rs12467706	rs10173717	105.897	0	NPHP1
chr2:110732676-111068787	32	336112	3	rs12467706	rs339216	109.625	0	NPHP1
chr4:149196991-157601193	1461	8404203	3	rs6812904	rs10030015	30.798	0	NPY2R
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	NPY2R
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	NPY2R
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	NPY2R
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	NPY2R
chr4:126959315-183880263	10103	56920949	3	rs9985873	rs2714510	50.565	0	NPY2R
chr4:148566463-156666845	1395	8100383	1	rs17475359	rs6814688	54.297	0	NPY2R
chr4:156087185-156213709	21	126525	1	rs10030872	rs983146	15.037	0	NPY2R
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	NPY2R
chr4:155739051-165849854	1997	10110804	1	rs7691720	rs10005938	26.215	0	NPY2R
chr2:27083489-28057823	90	974335	4	rs6756245	rs4666022	2.006	0	NRBP1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	NRBP1
chr11:114191016-134258416	5073	20067401	3	rs2847476	rs893951	4.233	0	NRGN
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	NRGN
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	NRGN
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	NUCB1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	NUCB1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	NUCB1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	NUCB1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	NUCB1
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	NUCB1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	NUDC
chr1:27161670-27475785	31	314116	3	rs11247599	rs11247613	40.308	0	NUDC
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	NUDC
chr1:228216997-228500627	33	283631	1	rs708122	rs2087121	53.416	0	OBSCN
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	OBSCN
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	OBSCN
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	OBSCN
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	OBSCN
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	OBSCN
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	OGG1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	OGG1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	OPRD1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	OPRD1
chr8:53363937-64107847	2115	10743911	3	rs284818	rs2043525	25.971	0	OPRK1
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	OPRK1
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	OPRK1
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	OPRK1
chr6:146892943-169478886	6121	22585944	3	rs12199886	rs13219463	43.565	0	OPRM1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	OPRM1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	OPRM1
chr6:153869625-153994951	17	125327	1	rs9478436	rs4296898	20.643	336680	OPRM1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	OPRM1
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	OPRM1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	P2RY1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	P2RY1
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	P2RY1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	P2RY1
chr12:56466128-56658859	14	192732	1	rs12831884	rs1274500	18.792	0	PA2G4
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	PA2G4
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	PA2G4
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PABPC4
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PABPC4
chr9:137718113-139841512	539	2123400	4	rs4842173	rs884113	1.053	0	PAEP
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	PAEP
chr9:137308462-139406491	681	2098030	1	rs3118536	rs3124602	43.969	0	PAEP
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	PAFAH1B3
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	PAFAH1B3
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PAFAH1B3
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PAFAH1B3
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	PAFAH1B3
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PAFAH1B3
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PAFAH1B3
chr5:97242130-106564497	1369	9322368	4	rs4596407	rs4957697	38.782	0	PAM
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	PAM
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	PAM
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	PAM
chr5:101558083-102529401	120	971319	1	rs4323206	rs26819	39.848	0	PAM
chr5:102079057-102721744	64	642688	3	rs1645534	rs10463994	23.12	0	PAM
chr16:66659818-69310136	211	2650319	1	rs165207	rs153047	34.961	0	PARD6A
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	PARD6A
chr16:67634786-67780829	11	146044	1	cnvi0008013	rs9925393	12.023	0	PARD6A
chr18:69640030-78015180	2471	8375151	1	rs4891968	rs12960632	5752.588	0	PARD6G

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr18:77417934-78015180	120	597247	1	rs2460386	rs12960632	213.038	0	PARD6G
chr12:76374448-83556258	1351	7181811	3	rs7976486	rs4394896	27.448	0	PAWR
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	PAWR
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	PAWR
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	PCBP1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	PCBP1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	PCBP1
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	PCBP1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	PCBP3
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	PCBP3
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	PCBP3
chr21:46466674-47652185	275	1185512	1	rs4819020	rs2839160	84.642	0	PCBP3
chr21:41509457-47941916	1911	6432460	3	rs741802	rs2096507	27.753	0	PCBP3
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	PCBP3
chr21:47091361-47265786	27	174426	1	rs2838973	rs1009577	13.147	0	PCBP3
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	PCBP3
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	PCBP3
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	PCBP3
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	PCBP3
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	PCBP3
chr21:44744540-47642272	785	2897733	1	rs10084596	rs2280957	41.824	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	PCBP3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	PCDHA4
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	PCDHA4
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	PCDHA4
chr6:146892943-169478886	6121	22585944	3	rs12199886	rs13219463	43.565	0	PCMT1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	PCMT1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	PCMT1
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	PCMT1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	PCMT1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	PCMT1
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	PCMT1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	PCNT
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	PCNT
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	PCNT
chr21:47566828-47863025	61	296198	1	rs7282864	rs2073379	29.607	0	PCNT
chr21:41509457-47941916	1911	6432460	3	rs741802	rs2096507	27.753	0	PCNT
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	PCNT
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	PCNT
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	PCNT
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	PCNT
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	PCNT
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	PCNT

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	PCP4
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	PCP4
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	PCP4
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	PCP4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	PCP4
chr21:37312170-45589727	2506	8277558	1	rs1573303	rs4818886	41.534	0	PCP4
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	PCP4
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	PCP4
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	PCP4
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	PCP4
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	0	PCP4
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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	PCP4
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PDC
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	PDC
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	PDC
chr1:186345497-186467274	17	121778	3	rs12733799	rs3901950	67.838	0	PDC
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PDC
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	PDC
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	PDCD5
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PDCD5
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	PDCD5
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PDCD5
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PDCD5

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	PDCL
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	PDCL
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	PDCL
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	PDCL
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	PDE1A
chr2:183175422-184652758	268	1477337	3	rs1347732	rs12477832	10.153	0	PDE1A
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	PDE1A
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	PDE1A
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	PDE1A
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	PDE1B
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	PDE1B
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	PDE1C
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	PDE1C
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	PDE1C
chr1:120123179-145747463	154	25624285	3	rs6428833	rs1284300	54.961	0	PDE4DIP
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PDE4DIP
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	PDE4DIP
chr1:144570551-144850451	10	279901	3	rs7534126	cnvi0020739	2.437	0	PDE4DIP
chr1:145033984-145385675	37	351692	3	rs1627675	cnvi0018364	4.42	0	PDE4DIP
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PDE4DIP
chr1:144570551-144844630	9	274080	3	rs7534126	cnvi0022936	17.575	0	PDE4DIP
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	PDE6D
chr2:211013993-242051777	6871	31037785	3	rs4673499	rs2074824	40.702	0	PDE6D
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	PDE6D
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	PDE6D
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	PDE6D

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	PDE6G
chr17:79150654-81047708	15608	1897055	1	rs12103867	rs35680231	31.668	0	PDE6G
chr5:176859848-177047009	12	187162	1	rs2731664	rs7727897	15.921	0	PDLIM7
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	PDLIM7
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	PDLIM7
chr5:176010125-180058963	954	4048839	1	rs936912	rs2290983	30.904	0	PDLIM7
chr16:570623-4436445	673	3865823	1	rs2071978	rs1298104	51.749	0	PDPK1
chr16:2263146-4436445	367	2173300	1	rs26849	rs1298104	37.458	0	PDPK1
chr16:2585237-2718424	18	133188	3	cnvi0007822	rs9941225	49.411	0	PDPK1
chr16:1102701-4445327	629	3342627	1	rs11248851	rs3747579	101.908	0	PDPK1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PEA15
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	PEA15
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PEA15
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	PELO
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	PELO
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	PFDN1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	PFDN1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	PFDN1
chr20:50459530-62198348	3263	11738819	3	rs6063722	rs438363	11.693	0	PFDN4
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	PFDN5
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	PFDN5
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PFKFB2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	PFKFB2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	PFKFB2
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	PFKFB2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PFKFB2

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	PFKFB2
chr17:4739161-4891956	27	152796	3	rs9900036	rs426475	13.756	0	PFN1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PGM1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PGM1
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	PHKB
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	PHKG1
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	PHKG1
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	PHKG1
chr16:28301487-31147548	157	2846062	1	rs9939450	rs2855475	36.755	0	PHKG2
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	PHKG2
chr16:29130999-33612830	601	4481832	3	rs12922496	rs2067108	21.218	0	PHKG2
chr16:28642242-33612830	684	4970589	4	rs34954049	rs2067108	4.025	0	PHKG2
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	PIAS4
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	PIAS4
chr19:3958397-4098776	20	140380	1	rs7255123	rs350912	17.875	0	PIAS4
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	PIAS4
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	PICK1
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	PICK1
chr18:39652939-39800893	25	147955	3	rs1941526	rs1461702	12.565	0	PIK3C3
chr3:178310836-179125585	142	814750	3	rs7636991	rs13074663	6.695	0	PIK3CA
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	PIK3CA
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	PIK3CA
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	PIK3CA
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	PIK3CA
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	PIK3CG
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	PIK3CG

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	PIK3CG
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	PIK3CG
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	PIK3R1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	PIK3R1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	PIK3R1
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	PLA2G7
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	PLA2G7
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	PLA2G7
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	PLA2G7
chr20:6111569-21985498	4344	15873930	3	rs6038366	rs6047798	43.161	0	PLCB1
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	PLCB2
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	PLCB2
chr15:40528155-42166500	240	1638346	1	rs1017843	rs12593397	85.352	0	PLCB2
chr11:63907079-64027888	19	120810	1	rs7112960	rs915987	17.869	0	PLCB3
chr11:60589137-64068310	499	3479174	1	rs656736	rs2286614	53.467	0	PLCB3
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	PLCB3
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	PLCB3
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	PLCB3
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	PLCD1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	PLCD1
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	PLCG2
chr16:69829875-88530172	5884	18700298	1	rs4985547	rs4782368	30.145	0	PLCG2
chr3:160836006-176261513	2782	15425508	4	rs1599389	rs1377820	17.004	0	PLD1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	PLD1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	PLD1
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	PLD1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:171354364-171471364	11	117001	1	rs9863761	rs11708205	15.642	0	PLD1
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	PLD1
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	PLD1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	PLEKHA4
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PLEKHA4
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PLEKHA4
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PLEKHA4
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PLEKHA4
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	PLEKHA4
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	PLK1
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	POLA2
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	POLA2
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	POLA2
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	POLB
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	POLB
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	POLB
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	POLR2C
chr20:6111569-21985498	4344	15873930	3	rs6038366	rs6047798	43.161	0	POLR3F
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	PPARA
chr22:42297214-50784013	2780	8486800	1	rs5996083	cnvi0018414	44.478	0	PPARA
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	PPEF2
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	PPEF2
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	PPEF2
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	PPEF2
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	PPEF2
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	PPEF2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PPIH
chr1:42204406-46534543	635	4330138	1	rs710231	rs785512	33.167	0	PPIH
chr1:42601214-43343707	101	742494	1	rs7516178	rs11210746	136.315	0	PPIH
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PPIH
chr14:51834859-63624420	2657	11789562	3	rs11629344	rs4902208	13.871	0	PPM1A
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	PPM1A
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	PPM1A
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	PPM1A
chr14:102003864-105246686	423	3242823	1	rs1190712	rs2494738	38.435	0	PPP1R13B
chr14:104004311-106009572	243	2005262	4	rs8014069	rs10134526	0.055	0	PPP1R13B
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	PPP1R13B
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	PPP1R13B
chr14:103987140-104657760	112	670621	1	rs2071407	rs947006	30.372	0	PPP1R13B
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	PPP1R14A
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PPP1R14A
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PPP1R14A
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	PPP1R14A
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PPP1R14A
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PPP1R14A
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PPP2R1A
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PPP2R1A
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PPP2R1A
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PPP2R1A
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	PPP2R1A
chr4:101274858-103233207	334	1958350	3	rs13130455	rs6822371	16.146	0	PPP3CA
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	PPP3CA

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	PPP3CA
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	PPP3CA
chr4:102252696-102504356	22	251661	3	rs1348161	rs2723048	4.732	0	PPP3CA
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	PPP3CA
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	PPP3CA
chr10:45475917-50393013	531	4917097	3	rs3758402	rs1962336	9.307	0	PPYR1
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	PPYR1
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	PPYR1
chr10:46990728-47703613	36	712886	4	rs7898282	rs4128664	15.172	0	PPYR1
chr10:46928388-47703613	103	775226	3	rs7915055	rs4128664	164.836	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	28.69	0	PPYR1
chr10:46928388-47703613	103	775226	3	rs7915055	rs4128664	175.561	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	125.384	0	PPYR1
chr10:46961667-47703613	102	741947	3	rs506372	rs4128664	209.662	0	PPYR1
chr10:46961667-47703613	102	741947	3	rs506372	rs4128664	209.38	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	193.803	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	27.148	0	PPYR1
chr10:46961667-47099529	9	137863	3	rs506372	rs4481963	12.939	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	204.165	0	PPYR1
chr10:45666965-47640344	231	1973380	1	rs2275847	rs12775238	32.992	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	192.605	0	PPYR1
chr10:46961667-47099529	9	137863	3	rs506372	rs4481963	32.973	0	PPYR1
chr10:47028331-47748912	101	720582	3	rs9794206	rs3013867	107.726	0	PPYR1
chr10:45248943-47697026	345	2448084	3	rs1749328	rs4466762	230.892	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	112.753	0	PPYR1
chr10:46961667-47748912	104	787246	3	rs506372	rs3013867	176.786	0	PPYR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:46961667-47149117	12	187451	3	rs506372	rs4979753	9.651	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	22.41	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	14.105	0	PPYR1
chr10:47020220-47121726	9	101507	3	rs4434936	rs6599598	12.985	0	PPYR1
chr10:47020220-47121726	9	101507	3	rs4434936	rs6599598	18.624	0	PPYR1
chr10:46961667-47121726	11	160060	3	rs506372	rs6599598	27.741	0	PPYR1
chr10:46928388-47099529	10	171142	3	rs7915055	rs4481963	5.293	0	PPYR1
chr10:46892172-47748912	107	856741	3	cnvi0015924	rs3013867	225.487	0	PPYR1
chr10:46892172-47149117	15	256946	3	cnvi0015924	rs4979753	35.314	0	PPYR1
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
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PRDX1
chr1:42204406-46534543	635	4330138	1	rs710231	rs785512	33.167	0	PRDX1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PRDX1
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	PRG2
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	PRG2
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	PRKACA
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	PRKACA
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PRKACA
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	PRKCA
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	PRKCA
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	PRKCA
chr17:63761021-67215712	732	3454692	1	cnvi0008594	rs12941264	55.59	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

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	PRKCD
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	PRKCD
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	PRKCD
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PRKCG
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PRKCG
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PRKCG
chr3:160836006-176261513	2782	15425508	4	rs1599389	rs1377820	17.004	0	PRKCI
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	PRKCI
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	PRKCI
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	PRKCI
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	PRKCI
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	PRKCI
chr1:1005806-2221222	93	1215417	1	rs3934834	rs2643885	45.212	0	PRKCZ
chr1:1310924-2756621	137	1445698	4	rs2765033	rs4648384	8.675	0	PRKCZ
chr1:949468-3587505	498	2638038	1	rs1126625	rs3765696	23.726	0	PRKCZ
chr1:1325677-2379248	158	1053572	1	cnvi0005318	rs11581548	37.498	0	PRKCZ
chr1:1254841-3342804	386	2087964	1	rs10907179	rs870171	39.259	0	PRKCZ
chr10:52338100-60396065	1797	8057966	4	rs10508930	rs920259	44.979	0	PRKG1
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	PRKG1
chr10:53375420-53565318	40	189899	1	rs2339794	rs1937652	16.368	0	PRKG1
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	PRKG1
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	PRLHR
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	PRLHR
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	PRLHR
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	PRLHR
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	PRLHR

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	PRMT1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PRMT1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PRMT1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PRMT1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PRMT1
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	PRMT1
chr17:74204592-79532654	1324	5328063	1	rs4505373	rs3934711	38.57	0	PRPSAP1
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	PRPSAP1
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	PRPSAP1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	PRPSAP1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	PRPSAP1
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	PSAT1
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	PSAT1
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	PSAT1
chr9:77857783-82347458	1181	4489676	1	rs12000663	rs4387054	36.701	0	PSAT1
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	PSAT1
chr9:81057409-81234650	49	177242	3	rs4498630	rs11137772	24.969	112400	PSAT1
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	PSEN1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	PSEN1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	PSEN1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PSEN2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	PSEN2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	PSEN2
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	PSEN2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PSEN2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	PSEN2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:226423572-227452700	215	1029129	1	rs6605032	rs1969230	24.875	0	PSEN2
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	PSG9
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	PSG9
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PSG9
chr19:43561722-43840088	25	278367	1	rs7260189	rs2159134	43.869	0	PSG9
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PSG9
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	PSG9
chr19:43561722-43840088	71	278367	1	rs7260189	rs2159134	133.515	0	PSG9
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PSG9
chr19:43663086-43840088	54	177003	1	rs12460930	rs2159134	105.96	0	PSG9
chr19:43306156-43774853	61	468698	3	rs10412335	rs11672322	80.781	0	PSG9
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PSG9
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	PSG9
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	PSMA2
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	PSMA2
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	PSMA2
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	PSMC1
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	PSMC1
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	PSMC1
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	PSMD1
chr2:211013993-242051777	6871	31037785	3	rs4673499	rs2074824	40.702	0	PSMD1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	PSMD1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	PSMD1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	PSMD1
chr2:231913056-232047561	18	134506	1	rs3731783	rs7585622	16.163	0	PSMD1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	PSMD11

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:198510-5875867	1467	5677358	3	rs3802985	rs2045046	49.035	0	PSMD13
chr11:219089-1139111	206	920023	1	rs511744	rs11245979	38.286	0	PSMD13
chr3:183834490-184075047	45	240558	1	rs9815292	rs2228291	52.071	0	PSMD2
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	PSMD2
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	PSMD2
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	PSMD2
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	PSMD2
chr3:60053331-70925955	2977	10872625	3	rs2630173	rs9856621	30.024	0	PSMD6
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	PSMD6
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	PSMD6
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	PSMD6
chr14:22513116-32242747	1997	9729632	1	rs4982546	rs17098165	31.673	0	PSME1
chr13:20305992-21816281	325	1510290	1	rs9551991	rs4769156	48.772	0	PSPC1
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	PSPC1
chr13:19969463-21689630	329	1720168	1	rs1977696	rs4769152	31.548	0	PSPC1
chr13:20220659-20498817	52	278159	3	rs1057093	rs7993500	198.33	0	PSPC1
chr13:20097277-20574373	93	477097	3	rs7329280	rs6490506	49.84	0	PSPC1
chr13:20338643-20442879	14	104237	1	rs4769903	rs9552026	14.251	0	PSPC1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	PTGIR
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	PTGIR
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	PTGIR
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	PTGIR
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	PTGIR
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	PTGIR
chr6:54337130-68125255	1525	13788126	4	rs243768	rs9363753	26.278	0	PTP4A1
chr6:58044218-68542695	999	10498478	3	rs6459325	rs12663045	1.613	0	PTP4A1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	PTP4A1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	PTP4A1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	PTP4A1
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	PTP4A1
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	PTP4A1
chr8:142200731-144657600	499	2456870	1	rs2288997	rs2290416	58.39	0	PTP4A3
chr8:142245646-145744618	599	3498973	4	rs11167039	rs3757966	0	0	PTP4A3
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	PTP4A3
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	PTP4A3
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	PTP4A3
chr8:142327998-145730330	725	3402333	1	rs878422	rs35770914	173.154	0	PTP4A3
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	PTPN11
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	PTPN11
chr12:84152210-113464649	5560	29312440	1	rs10862748	rs16942470	28.181	0	PTPN11
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	PTPN11
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	PTPN12
chr7:73178435-89984409	2908	16805975	4	rs11764572	rs42664	0.17	0	PTPN12
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	PTPN12
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	PTPN12
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	PTPN6
chr20:2725678-3792226	227	1066549	1	rs4815541	rs2282128	45.362	0	PTPRA
chr20:2901540-3053255	31	151716	1	rs6138952	rs2740210	22.977	0	PTPRA
chr20:2901540-3048537	28	146998	1	rs6138952	rs11697250	15.163	0	PTPRA
chr11:46875933-49938930	224	3062998	1	rs6485700	rs10839448	49.109	0	PTPRJ
chr11:38685169-55210647	1957	16525479	3	rs1026834	rs11229683	17.562	0	PTPRJ
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	PTPRJ

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:48182237-48343904	21	161668	3	rs1039481	rs7105212	23.642	0	PTPRJ
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	PTPRJ
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	PTPRS
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	PTPRS
chr19:5109701-5220900	20	111200	1	rs1017821	rs10412973	14.552	0	PTPRS
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	PTPRU
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	PTPRU
chr12:120396295-120709064	35	312770	1	rs4767865	rs3999561	29.821	0	PXN
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	PXN
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	PXN
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	PYGL
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	PYGL
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	PYGM
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	PYGM
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	PYGM
chr17:74204592-79532654	1324	5328063	1	rs4505373	rs3934711	38.57	0	QRICH2
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	QRICH2
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	QRICH2
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	QRICH2
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	QRICH2
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	RAB27A
chr15:55352945-57955569	529	2602625	3	rs1528462	rs11071339	40.481	0	RAB27A
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	RAB27A
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RAB3B
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RAB3B
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	RAB5A

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	RAB5A
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	RAB5A
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	RAB8B
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	RAB8B
chr15:61102657-66474044	1173	5371388	1	rs12441037	rs4776758	171.764	0	RAB8B
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	RABAC1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	RABAC1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	RABAC1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	RABAC1
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	RABAC1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	RABAC1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	RABAC1
chr7:6155873-6567114	60	411242	1	rs10272684	rs1105664	18.629	0	RAC1
chr7:5881293-9154302	917	3273010	3	rs10278352	rs172399	41.999	0	RAC1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	RACGAP1
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	RACGAP1
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	RAF1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	RAF1
chr7:16882053-54801714	9067	37919662	3	rs1404966	rs10499749	78.964	0	RALA
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	RALA
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	RALA
chr2:119935802-128867841	1515	8932040	3	rs935361	rs6747421	14.116	0	RALB
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	RALB
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	RALB
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	RALB
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	RALB

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:116260745-130688292	2685	14427548	3	rs1868327	rs10928943	1170.496	0	RALB
chr22:18877787-21462353	510	2584567	1	rs2543958	rs140392	1090.228	0	RANBP1
chr22:19765182-43845708	5546	24080527	1	rs4819843	rs135044	57.345	0	RANBP1
chr22:19025381-20228542	296	1203162	1	rs6623	rs701428	38.244	0	RANBP1
chr22:17394989-22573637	1104	5178649	3	rs1860945	rs12159423	32.25	0	RANBP1
chr22:19413706-51123505	7927	31709800	3	rs9618567	rs9616816	6.837	0	RANBP1
chr22:18877787-21462353	512	2584567	1	rs2543958	rs140392	360.702	0	RANBP1
chr22:18877787-23040362	1092	4162576	3	rs2543958	rs5996349	1181.316	0	RANBP1
chr22:19735854-20155192	142	419339	1	rs6518580	rs373747	36.567	0	RANBP1
chr22:19613784-21462353	380	1848570	3	rs5993743	rs140392	153.49	0	RANBP1
chr22:18877787-21461274	612	2583488	3	rs2543958	rs140391	1388.235	0	RANBP1
chr13:63692683-113075599	10941	49382917	1	rs9592243	rs9550080	27.124	0	RAP2A
chr13:34752890-109100024	15589	74347135	1	rs2321822	rs7332707	33.721	0	RAP2A
chr13:41369790-112329394	15030	70959605	3	rs1536807	rs9588495	26.915	0	RAP2A
chr13:60985192-114224496	12638	53239305	1	rs1341840	rs4907646	40.079	0	RAP2A
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	RASSF1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	RASSF1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	RASSF1
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	RASSF1
chr14:22580623-23729402	375	1148780	1	rs1040302	rs2144039	40.668	0	RBM23
chr14:22513116-32242747	1997	9729632	1	rs4982546	rs17098165	31.673	0	RBM23
chr14:22513116-24480333	636	1967218	1	rs4982546	rs4982844	28.02	0	RBM23
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	RBM5
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	RBM5
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	RBM5
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	RBM5

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RCC1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RCC1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RCC2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RCC2
chr2:54984424-67416189	2413	12431766	3	rs980644	rs12473913	14.927	0	REL
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	REL
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	REL
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	REL
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	REL
chr11:65226187-67799926	252	2573740	1	rs1626021	rs2075626	54.033	0	RELA
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	RELA
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	RELA
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	RELA
chr19:40344648-46426076	806	6081429	1	rs12609590	rs8101540	27.283	0	RELB
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	RELB
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	RELB
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	RELB
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	RELB
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	RELB
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	RELB
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	RFC5
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	RFC5
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	RGS10
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	RGS10
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	RGS10
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	RGS10

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr10:99160152-130771382	6972	31611231	3	rs1048442	rs12258650	21.306	0	RGS10
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	RGS12
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	RGS12
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	RGS12
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RGS13
chr1:186642429-197195650	1628	10553222	4	rs2206593	rs4915406	24.676	0	RGS13
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	RGS13
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	RGS13
chr1:188735336-196495566	1363	7760231	1	rs10754227	rs6693594	68.665	0	RGS13
chr1:188802542-196412070	1346	7609529	1	rs10158341	rs12075206	61.486	0	RGS13
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RGS13
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS13
chr5:176780545-176896412	12	115868	1	rs4131289	rs2029164	11.65	0	RGS14
chr5:175912331-176789719	127	877389	1	rs7708363	rs6556312	23.456	0	RGS14
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	RGS14
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	RGS14
chr5:176010125-180058963	954	4048839	1	rs936912	rs2290983	30.904	0	RGS14
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RGS16
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	RGS16
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RGS16
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS16
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RGS18
chr1:186642429-197195650	1628	10553222	4	rs2206593	rs4915406	24.676	0	RGS18
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	RGS18
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	RGS18
chr1:188735336-196495566	1363	7760231	1	rs10754227	rs6693594	68.665	0	RGS18

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:188802542-196412070	1346	7609529	1	rs10158341	rs12075206	61.486	0	RGS18
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	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
chr20:61008620-62751454	409	1742835	1	rs2427340	rs13039817	86.487	0	RGS19
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RGS2
chr1:186642429-197195650	1628	10553222	4	rs2206593	rs4915406	24.676	0	RGS2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	RGS2
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	RGS2
chr1:188735336-196495566	1363	7760231	1	rs10754227	rs6693594	68.665	0	RGS2
chr1:188802542-196412070	1346	7609529	1	rs10158341	rs12075206	61.486	0	RGS2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RGS2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RGS4
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	RGS4
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RGS4
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RGS5
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	RGS5
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RGS5
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	RGS7
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	RGS7
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	RGS7
chr3:116881714-132034199	2802	15152486	3	rs7649284	rs3844501	21.439	0	RHO
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	RHO
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	RHO
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	RHO

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	RHO
chr3:94377411-140094984	8050	45717574	3	rs9844990	rs7618673	46.041	0	RHO
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	RHO
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	RHOA
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	RHOA
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	RHOA
chr3:46713865-52833805	488	6119941	1	rs3935248	rs3617	54.926	0	RHOA
chr4:36130920-40415109	1046	4284190	3	rs13142416	rs278933	15.979	0	RHOH
chr4:39984938-40447914	112	462977	3	rs2732072	rs7693621	203.873	0	RHOH
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	RHOH
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	RHOH
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	RHOH
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	RHOH
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	RHOH
chr11:198510-5875867	1467	5677358	3	rs3802985	rs2045046	49.035	0	RIC8A
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	RIC8B
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	RIC8B
chr12:106912929-107229705	43	316777	1	rs741624	rs10444533	15.351	0	RIC8B
chr12:84152210-113464649	5560	29312440	1	rs10862748	rs16942470	28.181	0	RIC8B
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	RIF1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	RIF1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	RIF1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	RIF1
chr2:152251363-152423605	27	172243	1	rs10173597	rs3732311	11.735	0	RIF1
chr18:13708574-28197518	1970	14488945	4	rs4796995	rs2542754	1.046	0	RIOK3
chr18:20856718-21719327	145	862610	1	rs6507573	rs2278664	26.842	0	RIOK3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	RIPK1
chr6:2681610-31453618	81	28772009	1	rs1131896	rs9267212	428.052	0	RIPK1
chr6:2681610-31453113	80	28771504	3	rs1131896	rs2904600	359.691	0	RIPK1
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	40.382	0	RIPK1
chr6:1165092-29899147	56	28734056	0	rs3128864	rs2394704	57.657	0	RIPK1
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	33.185	0	RIPK1
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	61.991	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
chr8:83244535-93942913	1538	10698379	4	rs16910225	rs4735193	11.456	0	RIPK2
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	RIPK2
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	RIPK2
chr8:90401333-90632741	36	231409	1	rs7014232	rs218921	15.433	137234	RIPK2
chr8:84037048-138506934	11020	54469887	1	rs13265895	rs1849692	72.228	0	RIPK2
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	RIPK2
chr8:90475375-90608246	23	132872	1	rs1487672	rs1510470	96.299	161729	RIPK2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RIT1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	RIT1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RIT1
chr18:40409146-41694523	242	1285378	4	rs10502802	rs7226412	5.665	0	RIT2
chr18:40324824-40488279	28	163456	1	rs612939	rs7226659	22.393	0	RIT2
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	RNF10
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	RNF10
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RNF11
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RNF11

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	RPA2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	RPA2
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	RPL12
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	RPL12
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	RPL12
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	RPL12
chr9:130128056-130237356	24	109301	3	rs10819279	rs2250161	17.727	0	RPL12
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	RPL37A
chr2:211013993-242051777	6871	31037785	3	rs4673499	rs2074824	40.702	0	RPL37A
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	RPL37A
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	RPL37A
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	RPL37A
chr11:766479-870446	11	103968	1	rs7937869	rs6682	15.548	0	RPLP2
chr11:549119-1323564	100	774446	1	rs4963136	rs5743899	50.097	0	RPLP2
chr11:589246-2866248	476	2277003	1	rs7116322	rs2237899	43.461	0	RPLP2
chr11:356090-2201163	310	1845074	1	rs12049834	rs6578993	40.709	0	RPLP2
chr11:198510-5875867	1467	5677358	3	rs3802985	rs2045046	49.035	0	RPLP2
chr11:392079-3226221	734	2834143	1	rs6598025	rs10833462	79.883	0	RPLP2
chr11:219089-1139111	206	920023	1	rs511744	rs11245979	38.286	0	RPLP2
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	RPN2
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	RPS14
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	RPS14
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	RPS14
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	RPS14
chr16:66659818-69310136	211	2650319	1	rs165207	rs153047	34.961	0	RRAD
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	RRAD

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr16:66694843-66956447	18	261605	1	rs165056	rs4783744	14.8	0	RRAD
chr16:66934153-67328453	46	394301	1	rs3843712	rs3868143	60.301	0	RRAD
chr11:198510-5875867	1467	5677358	3	rs3802985	rs2045046	49.035	0	RRM1
chr2:54984424-67416189	2413	12431766	3	rs980644	rs12473913	14.927	0	RTN4
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	RTN4
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	RTN4
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	RTN4
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	RTN4
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	RUVBL2
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	RUVBL2
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	RUVBL2
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	RUVBL2
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	RUVBL2
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	RUVBL2
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	RYR1
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	RYR1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	RYR1
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	RYR1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	RYR1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	RYR1
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	RYR2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	RYR2
chr1:237310139-239159611	464	1849473	1	rs2490371	rs1915278	47.032	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
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	S100A6

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	S100A6
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	S100A6
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	S100A8
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	S100A8
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	S100A8
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	SACS
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SARS
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	SARS
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SARS
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	SCN8A
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	SCN8A
chr2:119935802-128867841	1515	8932040	3	rs935361	rs6747421	14.116	0	SCTR
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	SCTR
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	SCTR
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	SCTR
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	SCTR
chr2:116260745-130688292	2685	14427548	3	rs1868327	rs10928943	1170.496	0	SCTR
chr2:3994639-20951332	3904	16956694	3	rs4850016	rs619562	20.912	0	SDC1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	SDC1
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	SDC2
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	SDC2
chr8:84037048-138506934	11020	54469887	1	rs13265895	rs1849692	72.228	0	SDC2
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	SDC2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SDC3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SDC3
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	SDC4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:53363937-64107847	2115	10743911	3	rs284818	rs2043525	25.971	0	SDCBP
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	SDCBP
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	SDCBP
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	SDCBP
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	SDPR
chr2:185021912-195974363	1399	10952452	4	rs1526208	rs1599755	9.807	0	SDPR
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	SDPR
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	SDPR
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	SDPR
chr2:190823768-196952010	832	6128243	1	rs785567	rs6712905	35.403	0	SDPR
chr2:185221268-213136747	4656	27915480	1	rs17501385	rs2135161	31.832	0	SDPR
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SELE
chr1:164144117-180071987	3186	15927871	3	rs12037444	rs6425606	30.846	0	SELE
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	SELE
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SELE
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SELENBP1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	SELENBP1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SELENBP1
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	SEMG1
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	SEMG2
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	SERPINB9
chr6:2681610-31453618	81	28772009	1	rs1131896	rs9267212	428.052	0	SERPINB9
chr6:2681610-31453113	80	28771504	3	rs1131896	rs2904600	359.691	0	SERPINB9
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	40.382	0	SERPINB9
chr6:1165092-29899147	56	28734056	0	rs3128864	rs2394704	57.657	0	SERPINB9
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	33.185	0	SERPINB9

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	61.991	0	SERPINB9
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
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	SET
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	SET
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	SET
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	SET
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	SETD4
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	SETD4
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	SETD4
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	SETD4
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	SETD4
chr21:37312170-45589727	2506	8277558	1	rs1573303	rs4818886	41.534	0	SETD4
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	SETD4
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	SETD4
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	SETD4
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	SETD4
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	SETD4
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SETDB1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	SETDB1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SETDB1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	SF3B14
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	SGOL1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	SGOL1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	SGOL1
chr3:20375260-20527630	39	152371	3	rs7629900	rs582714	14.963	147536	SGOL1
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	SGOL2
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	SGOL2
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	SGOL2
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	SGOL2
chr2:185221268-213136747	4656	27915480	1	rs17501385	rs2135161	31.832	0	SGOL2
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	SH2B3
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	SH2B3
chr12:84152210-113464649	5560	29312440	1	rs10862748	rs16942470	28.181	0	SH2B3
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	SHANK1
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	SHANK1
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	SHANK1
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	SHANK1
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	SHANK1
chr17:7031638-7592780	100	561143	3	rs2062737	rs2287497	12.667	0	SHBG
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SHC1
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	SHC1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SHC1
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	SIAH1
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	SIRT2
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	SIRT2
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	SIRT2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	SIRT2
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	SIRT2
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	SIRT2
chr9:4228550-4543307	142	314758	3	rs2890551	rs2026828	140.34	0	SLC1A1
chr9:674275-7919153	2680	7244879	3	rs11791986	rs2208742	29.482	0	SLC1A1
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	SLC1A1
chr9:4483912-4598699	59	114788	1	rs10814988	rs4742012	163.863	0	SLC1A1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SLC2A1
chr1:42204406-46534543	635	4330138	1	rs710231	rs785512	33.167	0	SLC2A1
chr1:43380982-44438396	167	1057415	1	rs841837	rs783308	180.439	0	SLC2A1
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SLC2A1
chr5:1132216-9177932	2386	8045717	3	rs4594899	rs3777281	13.79	0	SLC6A3
chr5:177264-1850563	577	1673300	1	rs6889904	rs10512644	26.987	0	SLC6A3
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	SLC6A9
chr1:42204406-46534543	635	4330138	1	rs710231	rs785512	33.167	0	SLC6A9
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	SLC6A9
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	SLC9A3R1
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	SLC9A3R1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	SLC9A3R1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	SLC9A3R1
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	SMAD3
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	SMAD5
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	SMAD5
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	SMAD5
chr5:68234769-70811821	12971	2577053	4	rs6449986	rs279322	2.672	0	SMN2
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	SMN2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	SMN2
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	SMN2
chr5:69323596-70251701	172	928106	1	cnvi0017237	cnvi0021172	72.833	0	SMN2
chr5:69291141-70271505	180	980365	1	cnvi0017232	cnvi0021174	79.654	0	SMN2
chr5:69705610-70337808	119	632199	1	cnvi0017250	cnvi0017333	26.338	0	SMN2
chr5:69291141-70464426	202	1173286	3	cnvi0017232	cnvi0021178	63.166	0	SMN2
chr5:69369754-70271505	162	901752	3	cnvi0023216	cnvi0021174	39.93	0	SMN2
chr5:69706727-70439171	128	732445	3	cnvi0021138	cnvi0017348	74.882	0	SMN2
chr5:69342745-70251701	165	908957	1	cnvi0023213	cnvi0021172	48.005	0	SMN2
chr5:69328641-70291250	177	962610	1	cnvi0023210	cnvi0017323	79.015	0	SMN2
chr5:68835256-70379466	254	1544211	1	cnvi0017190	cnvi0023557	59.724	0	SMN2
chr5:68835256-69758416	154	923161	3	cnvi0017190	cnvi0023229	44.384	0	SMN2
chr5:69094990-69705827	97	610838	3	cnvi0017228	cnvi0021137	23.396	0	SMN2
chr5:69328641-70356098	184	1027458	1	cnvi0023210	cnvi0017340	96.892	0	SMN2
chr5:69962181-70464426	71	502246	3	cnvi0017271	cnvi0021178	35.476	0	SMN2
chr5:69688350-70379466	126	691117	3	cnvi0017249	cnvi0023557	19.03	0	SMN2
chr5:68835256-70379466	254	1544211	1	cnvi0017190	cnvi0023557	30.266	0	SMN2
chr5:68885670-70081434	201	1195765	3	cnvi0017212	cnvi0023238	103.915	0	SMN2
chr5:69323596-70251701	172	928106	1	cnvi0017237	cnvi0021172	78.003	0	SMN2
chr5:69283377-70488200	209	1204824	1	cnvi0023548	cnvi0021181	92.755	0	SMN2
chr5:69323596-70251701	172	928106	1	cnvi0017237	cnvi0021172	55.208	0	SMN2
chr5:68885670-70081434	201	1195765	4	cnvi0017212	cnvi0023238	5.263	0	SMN2
chr5:69656454-70379466	130	723013	3	cnvi0017310	cnvi0023557	59.497	0	SMN2
chr5:69243138-69709774	89	466637	3	cnvi0023208	cnvi0021141	42.409	0	SMN2
chr5:68885670-69806822	162	921153	3	cnvi0017212	cnvi0023235	39.551	0	SMN2
chr5:69174834-70316072	201	1141239	3	cnvi0017202	cnvi0017347	68.316	0	SMN2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr5:70209502-70356098	25	146597	3	cnvi0017295	cnvi0017340	12.419	0	SMN2
chr5:69283377-70251701	177	968325	1	cnvi0023548	cnvi0021172	74.445	0	SMN2
chr5:69323596-70251701	172	928106	1	cnvi0017237	cnvi0021172	60.349	0	SMN2
chr5:69634915-70439171	139	804257	3	cnvi0017313	cnvi0017348	117.085	0	SMN2
chr5:69283377-70275720	182	992344	1	cnvi0023548	cnvi0017327	61.378	0	SMN2
chr5:69291141-70251701	176	960561	1	cnvi0017232	cnvi0021172	77.51	0	SMN2
chr5:69243138-70291250	191	1048113	1	cnvi0023208	cnvi0017323	71.423	0	SMN2
chr5:69291141-70251701	176	960561	1	cnvi0017232	cnvi0021172	64.951	0	SMN2
chr5:68995989-70072721	183	1076733	3	cnvi0017222	cnvi0021154	79.331	0	SMN2
chr5:69323596-69737299	84	413704	3	cnvi0017237	cnvi0017254	35.683	0	SMN2
chr5:69291141-70291250	182	1000110	1	cnvi0017232	cnvi0017323	44.087	0	SMN2
chr5:68835256-70450158	262	1614903	3	cnvi0017190	cnvi0017349	49.942	0	SMN2
chr5:69440806-70593467	185	1152662	1	cnvi0017247	cnvi0026040	53.84	0	SMN2
chr5:69291141-70369397	190	1078257	1	cnvi0017232	cnvi0018714	76.309	0	SMN2
chr5:69291141-70291250	182	1000110	1	cnvi0017232	cnvi0017323	79.105	0	SMN2
chr16:66659818-69310136	211	2650319	1	rs165207	rs153047	34.961	0	SMPD3
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	SMPD3
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	SNAP23
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	SNAP23
chr20:6111569-21985498	4344	15873930	3	rs6038366	rs6047798	43.161	0	SNAP25
chr6:76922913-86913307	1793	9990395	4	rs2314204	rs9359686	7.874	0	SNAP91
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	SNAP91
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	SNAP91
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	SNAP91
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	SNAP91
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	SNAP91

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	SNAP91
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	SNAP91
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	SNAP91
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	SNAP91
chr4:88117272-90765280	562	2648009	3	rs6531956	rs1372522	17.723	0	SNCA
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	SNCA
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	SNCA
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	SNCA
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	SNCA
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	SNCA
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	SNCA
chr20:6111569-21985498	4344	15873930	3	rs6038366	rs6047798	43.161	0	SNRPB2
chr15:23648792-28535266	1130	4886475	1	rs1830115	rs1635168	3371.453	0	SNURF
chr15:24991944-36734986	2650	11743043	3	rs11161135	rs2444757	14.503	0	SNURF
chr15:20161372-30439396	1944	10278025	4	rs6599770	cnvi0020349	10.79	0	SNURF
chr15:23620859-28535266	1249	4914408	1	cnvi0016424	rs1635168	421.588	0	SNURF
chr15:20058438-32544679	2394	12486242	3	rs12591240	cnvi0018163	296.82	0	SNURF
chr15:23648792-28535266	1130	4886475	1	rs1830115	rs1635168	2494.885	0	SNURF
chr18:63017137-71284888	2142	8267752	1	rs12966197	rs1107827	34.629	0	SOCS6
chr18:63733025-69401985	1543	5668961	1	rs2715290	rs993816	45.936	0	SOCS6
chr18:67544717-69365932	428	1821216	3	rs1788244	rs1394981	461.753	0	SOCS6
chr18:62041997-76047493	3846	14005497	1	rs1421538	rs8085865	33.212	0	SOCS6
chr17:35814383-36784639	134	970257	1	rs853231	rs7220099	43.224	0	SOCS7
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	SOCS7
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	SOCS7
chr15:40561890-65059651	4763	24497762	1	rs6492939	rs1008917	60.034	0	SORD

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr15:33816995-95345594	12571	61528600	1	rs4281677	rs965551	31.276	0	SORD
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	SOX4
chr6:19044000-31286381	6774	12242382	1	rs6922929	rs9265057	31.6	0	SOX4
chr6:2681610-31453618	81	28772009	1	rs1131896	rs9267212	428.052	0	SOX4
chr6:3764851-31298743	7861	27533893	3	rs28880026	rs28752863	40.215	0	SOX4
chr6:3772684-31298743	7858	27526060	3	rs12661707	rs28752863	27.127	0	SOX4
chr6:2681610-31453113	80	28771504	3	rs1131896	rs2904600	359.691	0	SOX4
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	40.382	0	SOX4
chr6:1165092-29899147	56	28734056	0	rs3128864	rs2394704	57.657	0	SOX4
chr6:1171596-29892436	39	28720841	1	rs3128994	rs9259806	33.185	0	SOX4
chr6:11677538-31289284	4992	19611747	1	rs2022016	rs9265170	68.97	0	SOX4
chr6:1171596-29899147	47	28727552	0	rs3128994	rs2394704	61.991	0	SOX4
chr6:19812444-31286381	6951	11473938	1	rs16882740	rs9265057	32.473	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
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	SPAG1
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	SPAG1
chr8:84037048-138506934	11020	54469887	1	rs13265895	rs1849692	72.228	0	SPAG1
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	SPAG1
chr16:88475508-89789898	208	1314391	1	rs8044502	rs6500437	39.403	0	SPG7
chr16:89157547-89875710	92	718164	1	rs4782474	rs11861084	32.421	0	SPG7
chr16:88154644-90088437	279	1933794	4	rs9924813	rs2241039	0	0	SPG7
chr4:88117272-90765280	562	2648009	3	rs6531956	rs1372522	17.723	0	SPP1
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	SPP1
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	SPP1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	SPP1
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	SPP1
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	SPP1
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	SPP1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	SPTBN1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	SPTBN1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	SPTBN1
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	SPTBN1
chr5:179193598-180016644	167	823047	1	rs3797776	rs368686	50.157	0	SQSTM1
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	SQSTM1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	SQSTM1
chr5:176010125-180058963	954	4048839	1	rs936912	rs2290983	30.904	0	SQSTM1
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	SRC
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	SRGAP3
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	SRGAP3
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	STARD13
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	STC2
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	STC2
chr12:11740163-33217793	5315	21477631	3	rs10491981	rs12424662	69.717	0	STRAP
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	STRAP
chr2:34687910-41885773	1679	7197864	4	rs2887973	rs6748566	14.365	0	STRN
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	STRN
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	STRN4
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	STRN4
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	STRN4
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	STRN4

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	STRN4
chr19:43306156-53249347	7320	9943192	3	rs10412335	rs7249213	39.272	0	STRN4
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	STX12
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	STX12
chr16:28301487-31147548	157	2846062	1	rs9939450	rs2855475	36.755	0	STX4
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	STX4
chr16:29130999-33612830	601	4481832	3	rs12922496	rs2067108	21.218	0	STX4
chr16:28642242-33612830	684	4970589	4	rs34954049	rs2067108	4.025	0	STX4
chr11:60589137-64068310	499	3479174	1	rs656736	rs2286614	53.467	0	STX5
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	STX5
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	STX5
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	STX5
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	STXBP1
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	STXBP1
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	STXBP1
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	STXBP1
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	STXBP3
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	STXBP3
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	STXBP3
chr4:58593206-71053262	1785	12460057	4	rs574630	rs926004	35.7	0	SULT1E1
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	SULT1E1
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	SULT1E1
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	SULT1E1
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	SULT1E1
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	SULT1E1
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	SULT1E1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:146892943-169478886	6121	22585944	3	rs12199886	rs13219463	43.565	0	SUMO4
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	SUMO4
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	SUMO4
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	SUMO4
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	SUMO4
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	SUMO4
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	SUMO4
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	SYK
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	SYK
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	SYK
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	SYK
chr12:76374448-83556258	1351	7181811	3	rs7976486	rs4394896	27.448	0	SYT1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	SYT1
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	SYT1
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	TANC1
chr2:157783439-161524149	699	3740711	3	rs10933271	rs11679483	15.656	0	TANC1
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	TANC1
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	TANC1
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	TANC1
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	TANK
chr2:161861513-161991197	36	129685	1	rs7579574	rs17705608	19.022	2269	TANK
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	TANK
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	TANK
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	TANK
chr2:161901301-162018643	25	117343	1	rs4664395	rs1267059	21.357	0	TANK
chr16:28301487-31147548	157	2846062	1	rs9939450	rs2855475	36.755	0	TAOK2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	TAOK2
chr16:29130999-33612830	601	4481832	3	rs12922496	rs2067108	21.218	0	TAOK2
chr16:28642242-33612830	684	4970589	4	rs34954049	rs2067108	4.025	0	TAOK2
chr5:73958245-81276023	1632	7317779	3	rs4703640	rs4703863	22.731	0	TBCA
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	TBCA
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	TBCA
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	TBCA
chr5:76450190-79622472	726	3172283	1	rs6864250	rs2405378	35.823	0	TBCA
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	TBCD
chr17:79150654-81047708	15608	1897055	1	rs12103867	rs35680231	31.668	0	TBCD
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	TBCE
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	TBCE
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	TBCE
chr12:62261443-72745898	2376	10484456	3	rs3759288	rs2044305	73.366	0	TBK1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	TBK1
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	TBK1
chr12:63939740-69842643	1240	5902904	3	rs513203	rs6581895	22.639	0	TBK1
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	TBXA2R
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	TBXA2R
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	TBXA2R
chr19:1505874-1917925	58	412052	1	rs197198	rs10410479	12.119	0	TCF3
chr19:1505874-2123516	98	617643	1	rs197198	rs2072304	26.337	0	TCF3
chr19:266034-2771641	432	2505608	4	rs2312724	rs741103	15.34	0	TCF3
chr19:1572369-3354956	351	1782588	1	rs10415156	rs4807451	45.225	0	TCF3
chr19:384644-4514135	854	4129492	1	rs12151104	rs4807598	56.902	0	TCF3
chr19:1351916-1716865	58	364950	1	rs11670805	rs11878765	31.586	0	TCF3

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr18:50178168-53168243	510	2990076	4	rs10853620	rs3017183	5.363	0	TCF4
chr18:46577218-63087976	3720	16510759	1	rs357893	rs487555	37.146	0	TCF4
chr6:146892943-169478886	6121	22585944	3	rs12199886	rs13219463	43.565	0	TCP1
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	TCP1
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	TCP1
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	TCP1
chr6:113398162-170729060	13630	57330899	3	rs10457255	rs7739284	70.234	0	TCP1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	TDGF1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	TDGF1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	TDGF1
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	TEAD3
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	TEAD3
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	TEAD3
chr14:20578244-21484086	297	905843	1	rs3939209	rs1263871	40.7	0	TEP1
chr5:306032-1392721	159	1086690	1	rs7723693	rs10064525	37.172	0	TERT
chr5:1132216-9177932	2386	8045717	3	rs4594899	rs3777281	13.79	0	TERT
chr5:177264-1850563	577	1673300	1	rs6889904	rs10512644	26.987	0	TERT
chr10:52338100-60396065	1797	8057966	4	rs10508930	rs920259	44.979	0	TFAM
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	TFAM
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	TFAM
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	TGFA
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	TGFA
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	TGFA
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	TGFA
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	TGM2
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	928.72	0	TIAM1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr21:14807136-48084989	8188	33277854	3	rs459902	rs2839378	6822.044	0	TIAM1
chr21:14640400-48084989	8195	33444590	3	rs2260810	rs2839378	4097.117	0	TIAM1
chr21:27808458-44731138	4502	16922681	1	rs150760	rs504022	45.745	0	TIAM1
chr21:14601415-48084989	8249	33483575	3	rs2775537	rs2839378	10396.854	0	TIAM1
chr21:14630588-48084989	8777	33454402	3	rs2261645	rs2839378	1506.856	0	TIAM1
chr21:28203478-48084989	5467	19881512	3	rs190145	rs2839378	2230.84	0	TIAM1
chr21:10708231-48084989	8844	37376759	3	rs4044122	rs2839378	454.543	0	TIAM1
chr21:14569317-48084989	8782	33515673	3	rs1772304	rs2839378	967.362	0	TIAM1
chr21:14630588-48068728	8772	33438141	3	rs2261645	rs2245760	588.932	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
chr21:14377880-48050388	8805	33672509	3	rs3875547	rs2839367	163.872	0	TIAM1
chr15:24991944-36734986	2650	11743043	3	rs11161135	rs2444757	14.503	0	TJP1
chr15:27740007-30366247	464	2626241	1	rs6497213	rs10152753	44.251	0	TJP1
chr15:20161372-30439396	1944	10278025	4	rs6599770	cnvi0020349	10.79	0	TJP1
chr15:20058438-32544679	2394	12486242	3	rs12591240	cnvi0018163	296.82	0	TJP1
chr17:74204592-79532654	1324	5328063	1	rs4505373	rs3934711	38.57	0	TK1
chr17:63495631-81041077	3846	17545447	3	rs9892932	rs6502043	45.127	0	TK1
chr17:67081830-78829375	2912	11747546	1	rs2302134	rs12943041	31.498	0	TK1
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	TK1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	TK1
chr4:36130920-40415109	1046	4284190	3	rs13142416	rs278933	15.979	0	TLR10
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	TLR10
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	TLR10
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	TLR10

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	TLR10
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	TLR10
chr3:147200492-151900719	955	4700228	3	rs9876193	rs325713	20.467	0	TM4SF1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	TM4SF1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	TM4SF1
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	TM4SF1
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	TM4SF1
chr1:1310924-2756621	137	1445698	4	rs2765033	rs4648384	8.675	0	TNFRSF14
chr1:2373089-2883932	59	510844	1	rs6659405	rs2485945	28.34	0	TNFRSF14
chr1:949468-3587505	498	2638038	1	rs1126625	rs3765696	23.726	0	TNFRSF14
chr1:1254841-3342804	386	2087964	1	rs10907179	rs870171	39.259	0	TNFRSF14
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	TNFRSF1A
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	TNFRSF1B
chr1:12217852-12420300	30	202449	1	rs1148459	rs6660347	12.94	0	TNFRSF1B
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	TNFRSF1B
chr3:160836006-176261513	2782	15425508	4	rs1599389	rs1377820	17.004	0	TNIK
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	TNIK
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	TNIK
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	TNIK
chr3:161695760-196993693	7208	35297934	1	rs4575917	rs406284	54.788	0	TNIK
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	TNIK
chr4:1224811-7063524	1270	5838714	1	rs4974574	rs6836129	27.935	0	TNIP2
chr4:415311-15136380	3262	14721070	3	rs7695712	rs2702525	10.287	0	TNIP2
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	TNIP2
chr11:589246-2866248	476	2277003	1	rs7116322	rs2237899	43.461	0	TNNI2
chr11:356090-2201163	310	1845074	1	rs12049834	rs6578993	40.709	0	TNNI2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr11:198510-5875867	1467	5677358	3	rs3802985	rs2045046	49.035	0	TNNI2
chr11:392079-3226221	734	2834143	1	rs6598025	rs10833462	79.883	0	TNNI2
chr19:54743217-58326001	842	3582785	3	rs17239607	rs2303817	41.312	0	TNNI3
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	TNNI3
chr19:55590671-55994156	87	403486	1	rs1671163	cnvi0009418	33.877	0	TNNI3
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	TNNT2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	TNNT2
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	TNNT2
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	TNNT2
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	TNNT2
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	TNNT2
chr1:198152759-247886615	10843	49733857	3	rs10922372	rs11809582	60.483	0	TOMM20
chr1:185675592-243641420	11724	57965829	1	rs4651286	rs2994339	31.238	0	TOMM20
chr1:174219398-247422297	15986	73202900	1	rs16846809	rs4642922	35.258	0	TOMM20
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	TOP2A
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	TOP2A
chr17:7031638-7592780	100	561143	3	rs2062737	rs2287497	12.667	0	TP53
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	TPI1
chr16:66659818-69310136	211	2650319	1	rs165207	rs153047	34.961	0	TRADD
chr16:15642809-85927814	11706	70285006	1	rs4781673	rs391023	26.575	0	TRADD
chr16:66934153-67328453	46	394301	1	rs3843712	rs3868143	60.301	0	TRADD
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	TRAF1
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	TRAF1
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	TRAF1
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	TRAF1
chr9:138961722-140376668	138	1414947	1	rs11103306	rs10116708	35.913	0	TRAF2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr9:137718113-139841512	539	2123400	4	rs4842173	rs884113	1.053	0	TRAF2
chr9:138873600-140938183	302	2064584	1	cnvi0002612	rs3750506	26.611	0	TRAF2
chr9:139492789-140212642	109	719854	1	rs28485548	rs13295516	79.502	0	TRAF2
chr11:23155251-39227743	3093	16072493	4	rs12421611	rs901947	29.569	0	TRAF6
chr4:149196991-157601193	1461	8404203	3	rs6812904	rs10030015	30.798	0	TRIM2
chr4:125165157-188223037	11572	63057881	3	rs6854804	rs9993067	11.06	0	TRIM2
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	TRIM2
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	TRIM2
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	TRIM2
chr4:126959315-183880263	10103	56920949	3	rs9985873	rs2714510	50.565	0	TRIM2
chr4:148566463-156666845	1395	8100383	1	rs17475359	rs6814688	54.297	0	TRIM2
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	TRIM2
chr11:114191016-134258416	5073	20067401	3	rs2847476	rs893951	4.233	0	TRIM29
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	TRIM29
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	TRIM29
chr5:14445585-14563425	24	117841	1	rs27114	rs17307347	33.354	0	TRIO
chr5:6100526-29461973	4878	23361448	3	rs307186	rs16898985	13.817	0	TRIO
chr5:13798559-14174106	121	375548	3	rs795544	rs32571	239.534	0	TRIO
chr11:46466828-132142789	15847	85675962	1	rs2171668	rs3133885	44.46	0	TRMT112
chr11:47380593-117549808	12162	70169216	3	rs3740689	rs7926736	11.877	0	TRMT112
chr11:61454190-134278387	16442	72824198	1	rs4963307	cnvi0005398	65.765	0	TRMT112
chr3:141691407-146997009	977	5305603	4	rs3804771	rs7645827	19.643	0	TRPC1
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	TRPC1
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	TRPC1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	TRPC1
chr3:77517611-186461181	18091	108943571	1	rs4684011	rs2062632	39.712	0	TRPC1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:90389747-175907342	21070	85517596	1	rs2316813	rs2067613	41.412	0	TRPC1
chr4:115638209-146509970	4922	30871762	4	rs4269197	rs1874572	7.614	0	TRPC3
chr4:62883431-188650233	21726	125766803	1	rs1510920	rs7438821	38.998	0	TRPC3
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	TRPC3
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	TRPC3
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	TRPC3
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	TRPC3
chr13:19496434-50144613	7295	30648180	3	rs1838114	rs11148151	43.395	0	TRPC4
chr13:34752890-109100024	15589	74347135	1	rs2321822	rs7332707	33.721	0	TRPC4
chr17:3439454-3555424	40	115971	1	rs401643	rs4790530	19.479	0	TRPV1
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	TRPV4
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	TRPV4
chr12:84152210-113464649	5560	29312440	1	rs10862748	rs16942470	28.181	0	TRPV4
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	TRPV6
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	TRPV6
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	TRPV6
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	TRPV6
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	TRPV6
chr7:99940307-100119643	15	179337	3	rs13228694	rs1962151	3.843	0	TSC22D4
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	TSC22D4
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	TSC22D4
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	TSC22D4
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	TSC22D4
chr14:26395832-94937043	14253	68541212	1	rs6574718	rs11160183	32.364	0	TSHR
chr14:58168761-107287663	10395	49118903	1	rs7160495	rs10149476	28.336	0	TSHR
chr14:41670102-105695446	14439	64025345	1	rs1778370	rs2018404	40.094	0	TSHR

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr6:41773322-45545975	754	3772654	3	rs2153878	rs7764616	22.895	0	TTBK1
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	TTBK1
chr6:32519005-69242020	15177	36723016	3	rs28490179	rs10498868	27.622	0	TTBK1
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	TTBK1
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	TTC1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	TTC1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	TTC1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	TTC1
chr6:76922913-86913307	1793	9990395	4	rs2314204	rs9359686	7.874	0	TTK
chr6:46580034-153045913	19775	106465880	1	rs3799873	rs1282451	31.858	0	TTK
chr6:78523761-168944598	18867	90420838	1	rs7756601	rs2180346	43.616	0	TTK
chr6:78391867-152688010	14635	74296144	1	rs2504317	rs3822992	41.775	0	TTK
chr6:69900102-165298477	19424	95398376	1	rs779484	rs1511063	38.802	0	TTK
chr6:38084569-149099378	20508	111014810	3	rs2295791	rs6570897	2.249	0	TTK
chr6:62677210-165045334	21972	102368125	1	rs1212293	rs727811	36.819	0	TTK
chr6:69745723-124631456	10981	54885734	1	rs2225803	rs932600	38.287	0	TTK
chr6:32512164-129479522	27169	96967359	3	rs28495356	rs3734387	20.323	0	TTK
chr6:67621368-147709180	16188	80087813	1	rs6919455	rs7739314	52.498	0	TTK
chr2:127817546-239024180	20150	111206635	1	rs880436	rs3948117	18.946	0	TTN
chr2:179650954-181066567	391	1415614	4	rs6715901	rs10497562	1.916	0	TTN
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	TTN
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	TTN
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	TTN
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	TUBA1A
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	TUBA1A
chr12:5063897-113724945	20966	108661049	1	rs16933924	rs2241544	34.209	0	TUBA1B

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	TUBA1B
chr22:17394989-22573637	1104	5178649	3	rs1860945	rs12159423	32.25	0	TUBA8
chr6:428722-31742590	1987	31313869	3	rs1473602	rs707928	44.729	0	TUBB
chr6:19044000-31286381	6774	12242382	1	rs6922929	rs9265057	31.6	0	TUBB
chr6:2681610-31453618	81	28772009	1	rs1131896	rs9267212	428.052	0	TUBB
chr6:3764851-31298743	7861	27533893	3	rs28880026	rs28752863	40.215	0	TUBB
chr6:3772684-31298743	7858	27526060	3	rs12661707	rs28752863	27.127	0	TUBB
chr6:29877864-35562640	12719	5684777	3	rs28592582	rs3798346	61.622	0	TUBB
chr6:2681610-31453113	80	28771504	3	rs1131896	rs2904600	359.691	0	TUBB
chr6:2584569-31286381	8	28701813	1	rs9391764	rs9265057	40.382	0	TUBB
chr6:11677538-31289284	4992	19611747	1	rs2022016	rs9265170	68.97	0	TUBB
chr6:29864203-31294687	11756	1430485	3	rs9259437	rs28752836	6.497	0	TUBB
chr6:19812444-31286381	6951	11473938	1	rs16882740	rs9265057	32.473	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
chr17:32788444-78765219	8212	45976776	1	rs11658989	rs4969429	44.819	0	TUBG1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	TUBG1
chr9:34957613-136876021	15438	101918409	1	rs7031962	rs441233	20.716	0	TXN
chr9:27529316-137397609	17356	109868294	3	rs903603	rs7858838	79.074	0	TXN
chr9:10087429-138560311	22790	128472883	1	rs10809027	rs514157	31.6	0	TXN
chr9:1399761-136852891	25442	135453131	1	rs12341621	rs2789864	36.66	0	TXN
chr18:112535-3081210	758	2968676	1	rs9284390	rs7244954	2389.768	0	TYMS
chr8:48858933-49031831	11	172899	1	rs4873772	rs4873779	14.631	0	UBE2V2
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	UBE2V2
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	UBE2V2

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	UBE2V2
chr1:9218721-228139672	34932	218920952	1	rs12119878	rs849901	32.872	0	UBQLN4
chr1:84434425-230410162	22096	145975738	1	rs12759527	rs12091838	28.514	0	UBQLN4
chr1:5870534-228529606	40305	222659073	1	rs6701947	rs4653549	31.092	0	UBQLN4
chr4:23488892-180661580	26105	157172689	1	rs12505641	rs1380000	46.38	0	UCHL1
chr4:28602089-187390861	26883	158788773	1	rs16880825	rs1376534	32.409	0	UCHL1
chr4:31619950-97811299	11610	66191350	1	rs6811437	rs12644209	44.41	0	UCHL1
chr4:964359-151887280	28295	150922922	1	rs11248060	rs6839352	40.036	0	UCHL1
chr4:28932131-179932861	26946	151000731	1	rs2222357	rs13151036	29.638	0	UCHL1
chr12:46575008-133037139	17239	86462132	1	rs7301594	rs4883593	56.192	0	ULK1
chr12:132378017-133182408	142	804392	1	rs11246867	rs11146967	96.002	0	ULK1
chr12:112610714-133708729	5366	21098016	3	rs11066188	rs11147249	695.45	0	ULK1
chr19:1961474-14570703	2131	12609230	1	rs2041120	rs12974686	29.276	0	VAV1
chr19:3053574-18061509	2612	15007936	3	rs7938	rs7250332	73.169	0	VAV1
chr10:71527469-135284115	13802	63756647	3	rs2255406	rs6537607	99.833	0	VCL
chr10:61696682-130205245	14577	68508564	1	rs3099371	rs2387858	33.074	0	VCL
chr10:19783593-133482605	22847	113699013	1	rs10827500	rs7096432	50.801	0	VCL
chr10:33340331-123920784	17036	90580454	1	rs10430560	rs1885516	36.263	0	VCL
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	VDAC1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	VDAC1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	VDAC1
chr3:1014408-30488348	7729	29473941	3	rs4234578	rs4325953	57.426	0	VHL
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	VHL
chr3:9972493-10372840	66	400348	1	rs279545	rs26310	30.958	0	VHL
chr10:5591025-21296519	4896	15705495	3	rs4881475	rs599087	67.715	0	VIM
chr3:15259461-197526201	33195	182266741	1	rs17539401	rs841672	36.501	0	VIPR1

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr3:1079024-145525989	27876	144446966	1	rs7631088	rs7643638	39.631	0	VIPR1
chr3:39601272-188941449	26376	149340178	1	rs6773938	rs16864111	55.996	0	VIPR1
chr17:21685812-79278810	15514	57592999	1	rs34864328	rs2048058	24.024	0	VTN
chr19:32996606-51148772	2824	18152167	3	rs358539	rs11665802	30.671	0	WDR62
chr19:9150838-55326739	1673	46175902	3	rs6511838	rs581623	40.349	0	WDR62
chr19:34332765-58689834	4387	24357070	1	rs1006359	rs1483651	34.988	0	WDR62
chr19:21535707-45414451	3108	23878745	3	rs7258086	rs439401	7.911	0	WDR62
chr19:15763248-53249347	3050	37486100	3	rs2733749	rs7249213	77.958	0	WDR62
chr19:15780747-55294329	3059	39513583	3	rs7255963	rs2569676	23.777	0	WDR62
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	WDR91
chr7:117831743-152070158	6055	34238416	3	rs3808178	rs6966258	7.28	0	WDR91
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	WDR91
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	WDR91
chr7:83381032-152058141	13207	68677110	1	rs2371877	rs10226650	32.73	0	WDR91
chr5:146510911-179954615	7510	33443705	3	rs2913319	rs10059433	22.301	0	WWC1
chr5:42269665-169529932	23087	127260268	3	rs7445668	rs7729998	12.971	0	WWC1
chr5:39637565-169578418	23589	129940854	1	rs6451438	rs889005	49.311	0	WWC1
chr5:59802783-180140115	22884	120337333	1	rs35386	rs13181141	83.891	0	WWC1
chr20:39998520-43592248	934	3593729	1	rs6072353	rs2868218	29.278	0	YWHAB
chr20:34817545-44483225	1946	9665681	1	rs17093449	rs6130947	4536.622	0	YWHAB
chr17:836541-1550106	166	713566	3	rs8081951	rs2293067	11.382	0	YWHAE
chr17:909653-1660801	210	751149	1	rs2241931	rs8075977	37.209	0	YWHAE
chr7:43927792-150707488	16960	106779697	1	rs2730617	rs743507	33.628	0	YWHAG
chr7:73178435-89984409	2908	16805975	4	rs11764572	rs42664	0.17	0	YWHAG
chr7:12434771-156664783	26767	144230013	1	rs848004	rs6968944	46.858	0	YWHAG
chr7:23139940-150669057	22249	127529118	1	rs10235786	rs3807372	33.615	0	YWHAG

Chr:Start-Stop(hg19)	NumSNP	Length	State,CN	StartSNP	EndSNP	Confidence	Distance From Gene	mGluR Gene
chr7:75337644-77143217	201	1805574	1	rs10954377	rs6976567	29.447	0	YWHAG
chr2:3994639-20951332	3904	16956694	3	rs4850016	rs619562	20.912	0	YWHAQ
chr8:41983076-145081248	19334	103098173	1	rs12544318	rs6420181	26.491	0	YWHAZ
chr8:6879803-142673805	27751	135794003	1	rs7825750	rs2029940	24.717	0	YWHAZ
chr8:84037048-138506934	11020	54469887	1	rs13265895	rs1849692	72.228	0	YWHAZ
chr8:13273425-145668443	26660	132395019	3	rs7822301	rs760477	7.522	0	YWHAZ
chr2:39008949-239684289	36108	200675341	1	rs1056104	rs9711993	41.774	0	ZAP70
chr2:12809411-237832366	41200	225022956	1	rs10490548	rs10929201	46.737	0	ZAP70
chr2:52785456-238635137	32375	185849682	1	rs6545286	rs10177762	35.172	0	ZAP70
chr2:38328178-128536280	15926	90208103	1	rs232542	rs7608627	30.628	0	ZAP70

Example 3. Treatment with Fasoracetam Monohydrate (NFC-1) of ADHD Patients with CNVs in mGluR Network Genes and Impact on Conduct Disorder

[00114] 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.

[00115] The study included 30 ADHD subjects who were between ages 12 and 17, of any ancestry or race, 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, including two subjects having recurrent tics.

[00116] 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.

[00117] 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.

[00118] 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.

[00119] 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.

[00120] While this study was not specifically directed at conduct disorder symptoms, two study subjects met the behavioral criteria for conduct disorder, with a score of 2 or 3 on at least two of the 14 Vanderbilt scale items 27-40, which assess conduct disorder symptoms. One of these two subjects did not complete the study. The other showed improvement in their conduct disorder symptoms based on Vanderbilt items 27-40, which decreased from 16 to 12 between weeks 1 and 5.

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

[00121] Among the 30 ADHD subjects tested in the open-label Phase Ib clinical trial described in Example 3, 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.

[00122] 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

[00123] 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.

[00124] 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).

[00125] 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.

[00126] 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.

[00127] 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

[00128] 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.

[00129] 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.

[00130] 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

[00131] 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.

[00132] 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.

What is Claimed is:

1. Use of fasoracetam in the preparation of a medicament for treating conduct 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 conduct disorder and improving conduct disorder symptoms.

2. The use according to claim 1, wherein the presence of the genetic alteration is obtained after performance of a genetic screen.

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

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

5. The use according to 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 to be is administered once, twice, or three times daily.

6. The use according to any one of claims 1-5, wherein the patient treated has antisocial personality disorder.

7. The use according to any one of claims 1-6, 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.

8. The use according to any one of claims 1-7, wherein the fasoracetam is to be administered in combination with another pharmaceutical or non-pharmaceutical therapy.

9. The use according to claim 8, wherein fasoracetam is to be administered in combination with an antipsychotic agent.

10. The use according to any one of claims 1-9, wherein symptoms of inattentiveness, hyperactivity, and/or impulsiveness are reduced in the subject after

at least 1 week, such as at least 2 weeks, at least 3 weeks, or at least 4 weeks of treatment with fasoracetam.

11. The use according to any one of claims 1-10, wherein symptoms of aggression or antisocial behavior are reduced in the subject after at least 1 week, such as at least 2 weeks, at least 3 weeks, or at least 4 weeks of treatment with fasoracetam.

12. The use according to claim 1, wherein at least 2, 3, 4, 5, 6, 7, 8, 9, or 10 mGluR network genes are assessed for the presence of a CNV.

13. The use according to claim 1, wherein at least 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50, 60, 70, or all of Tier 1 mGluR network genes are screened for the presence of a CNV.

14. The use according to claim 1, wherein at least 50, at least 100, at least 150, at least 175, or all of Tier 2 mGluR network genes are screened for the presence of a CNV.

15. The use according to claim 1, wherein 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 are screened for the presence of a CNV.

16. The use according to claim 1, wherein at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50, 60, 70, or all of Tier 1 mGluR network genes; and at least 50, at least 100, at least 150, at least 175, or all

of Tier 2 mGluR network genes; and 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 are assessed for the presence of a CNV.

17. The use according to any one of the preceding claims, wherein the subject has conduct disorder as well as one or more of ADHD, ODD, anxiety disorder, Tourette syndrome, phobia, or depression.

18. The use according to any one of the preceding claims, wherein the subject has one or more of the following phenotypic changes after at least 1 week, such as at least 2 weeks, at least 3 weeks, or at least 4 weeks of treatment with fasoracetam:

(a) the subject has difficulty controlling anger and the anger control symptoms are improved;

(b) the subject has disruptive behaviors and the disruptive behaviors are reduced;

(c) the subject's CGI-I is reduced by at least 1 or by at least 2; the subject's CGI-I score after one, two, three, or four weeks of treatment is 1 or 2;

(d) the subject's CGI-S score after one, two, three, or four weeks of treatment is 1; 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%;

(e) the subject has symptoms of inattentiveness and the inattentiveness symptoms are reduced; the subject has symptoms of hyperactivity and the hyperactivity symptoms are reduced;

(f) the subject has symptoms of impulsiveness and the impulsiveness symptoms are reduced;

(g) the subject has symptoms of ODD such as anger and irritability, argumentation and defiance, and/or vindictiveness and the ODD symptoms are reduced;

(h) the subject has symptoms of anxiety and the anxiety symptoms are reduced;

(i) the subject has symptoms of Tourette's syndrome, and the Tourette's syndrome symptoms are reduced;

(j) the subject has symptoms of autism, and the autism symptoms are reduced; and

(k) the subject has symptoms of movement disorder and the movement disorder symptoms are reduced.