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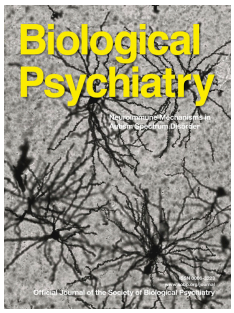

Identification of genetic loci shared between ADHD, intelligence and educational attainment

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Identification of genetic loci shared between ADHD, intelligence and educational attainment

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Abstract

Background: Attention-deficit/hyperactivity disorder (ADHD) is a neurodevelopmental disorder which is consistently associated with lower levels of educational attainment. A recent large genome-wide association study (GWAS) identified common gene variants associated with ADHD, but most of the genetic architecture remains unknown.

Methods: We analyzed independent GWAS summary statistics for ADHD (19,099 cases and 34,194 controls), educational attainment (EDU) (n = 842,499) and general intelligence (INT) (n = 269,867) using a conditional/conjunctional false discovery rate (condFDR/conjFDR) statistical framework that increases power of discovery by conditioning the FDR on overlapping associations. The genetic variants identified were characterized in terms of function, expression and biological processes.

Results: We identified 58 LD-independent ADHD-associated loci (condFDR < 0.01), of which 30 are shared between ADHD and EDU or INT (conjFDR < 0.01), and 46 are novel risk loci for ADHD.

Conclusions: These results expand on previous genetic and epidemiological studies and support the hypothesis of a shared genetic basis between these phenotypes. Although the clinical utility of the identified loci remains to be determined, they can be used as resources to guide future studies aiming to disentangle the complex etiologies of ADHD, educational attainment and general intelligence.

Introduction

Attention-deficit/hyperactivity disorder (ADHD) is a neurodevelopmental psychiatric disorder that affects approximately 5% of children and 2.5% of adults globally, with an estimated heritability of 0.7 to 0.8 (1, 2). Epidemiological and clinical studies implicate genetic and environmental factors in the etiology of the disorder, many of which affect the structure and functional capacity of brain networks involved in behavior and cognition (1, 2). As a result, ADHD is consistently associated with lower levels of educational attainment (3, 4) and children with ADHD experience cognitive problems such as increased risk of learning disabilities and communication disorders (3, 5–7).

Despite the high heritability, significant ADHD-associated risk loci were only recently identified using the genome-wide association study (GWAS) methodology (8). In addition, success was also obtained using a conditional/conjunctional false discovery rate (condFDR/conjFDR) method (9). This method exploits the shared genetic background of phenotypes to boost association signals in a phenotype of interest by employing genome-wide association data from one or more secondary phenotypes. By combining an educational attainment GWAS in more than 300,000 individuals (10) with an initial moderately powered GWAS of ADHD (11), Shadrin et al. identified five novel loci for ADHD risk and provided evidence for shared genetic basis between ADHD and educational attainment (9).

After the publication of that study, two larger GWASs for general intelligence (n=269,867) (12), and educational attainment (n > 1.1 million) (13) uncovered multiple novel loci associated with

these phenotypes. Furthermore, GWAS summary statistics for a substantially larger ADHD cohort are now also available (8). Following in the steps of Shadrin et al. (9), we therefore aimed to apply the condFDR/conjFDR approach to these new GWAS summary statistics in order to identify additional novel loci associated with ADHD and shared between ADHD and educational attainment or general intelligence. In addition, we performed positional and functional annotation of significant ADHD-associated variants to explore their potential biological context.

Methods and Materials

GWAS Samples

GWAS summary statistics for ADHD were obtained from the Psychiatric Genomics Consortium (PGC) (8). The summary statistics for general intelligence (INT) were obtained from the meta-analysis of 14 independent cohorts (12). For our analyses of educational attainment (EDU) we used summary statistics generated from meta-analysis of data from the Social Science Genetic Association Consortium (13) and 23andMe (10). The meta-analysis was performed using an inverse-weighted fixed effects model implemented in the software METAL (http://csg.sph.umich.edu//abecasis/Metal/) (14). All participants in the GWAS samples were of European origin. A summary of these GWAS samples is shown in Table 1. More detailed descriptions are available in the Supplementary Methods and original publications (8, 12, 13).

Statistical Analyses

To assess cross-phenotype polygenic enrichment we generated conditional QQ-plots, conditioning ADHD on EDU or INT and vice versa. QQ-plots depict the quantiles of the observed p-values on the y-axis against the theoretical quantiles under no association on the x-axis. In the case of no association a QQ-plot follows a straight line, but deflects from this null line when some form of systematic association is present. Conditional QQ-plots depict the differential enrichment between pre-specified strata of single nucleotide polymorphisms (SNPs). Points on the QQ-plot are weighted according to LD structure, using n=200 iterations of random pruning at LD threshold r2=0.1. We focused on the SNP p-values of trait 1 (ADHD), and defined strata based on trait 2 (EDU or INT). More specifically we plotted the SNP p-values of trait 1 conditional on different strength of association with trait 2 (i.e. −log10 p- values > 1, 2, or 3). This enables us to determine if conditioning on a secondary trait leads to stronger association in the primary trait of interest. A stronger enrichment together with increased evidence for association with the secondary trait can be an indicator of a shared polygenic architecture between the two traits. To further support this, we estimated the genetic correlation between ADHD and EDU or INT using LD score regression (15–17).

To identify shared loci between ADHD and EDU or INT we employed the condFDR/conjFDR method (18, 19). The condFDR method utilizes genetic association summary statistics from a trait of interest (ADHD) together with those of a conditional trait (EDU or INT) to estimate the posterior probability that a SNP has no association with the primary trait, given that the p-values for that SNP in both the primary and conditional traits are lower than the observed p-values. This

method increases the power to identify loci associated with the primary trait by leveraging associations with conditional traits, thereby re-ranking SNPs compared to the original GWAS p-value ranking. The conjFDR statistic is defined as the maximum of the two mutual condFDR values and is a conservative estimate of the posterior probability that a SNP has no association with either trait, given that the p-values for that SNP in both the primary and conditional traits are lower than the observed p-values. The conjFDR method thus allows the identification of loci associated with both traits. A conservative FDR level of 0.01 per pair-wise comparison was set for condFDR/conjFDR, corresponding to 1 false positive per 100 reported associations. More details can be found in the original and subsequent publications (9, 18–22), and Supplementary Methods.

Evaluation of Detected Loci in Two Independent ADHD Cohorts

To assess the robustness of the condFDR/conjFDR results we examined the most significant SNPs in the identified loci in the association summary statistics from a case-control ADHD cohort from deCODE Genetics and the GWAS on ADHD symptoms conducted by the EAGLE consortium (23) (Table 1). Additional details are provided in the Supplementary Methods. Sign concordance tests were performed to compare the effect directions for the identified SNPs between the PGC-GWAS (8) and the deCODE and EAGLE samples, respectively. Fisher's exact tests were used to determine if the number of concordant SNPs was significantly greater ($p < 0.025 = 0.05/2$ cohorts) than expected by chance in each comparison.

In Silico Analyses of Significant Variants

Positional and functional annotation of significantly associated SNPs was performed using ANNOVAR (24), implemented in FUMA (25). To evaluate the potential biological context of significantly associated genetic variants identified through condFDR/conjFDR analyses we queried for known expression quantitative trait loci (eQTLs) in brain tissue using the GTEx portal (http://gtexportal.org), the Braineac database (http://www.braineac.org) and the CommonMind Consortium knowledge portal (https://www.synapse.org/#!Synapse:syn2759792). In addition, we checked age-dependent variations of expression for the genes associated with identified eQTL SNPs using the Human Brain Transcriptome database (http://hbatlas.org) (26).

Results

Genetic Overlap and Correlation

The conditional QQ-plots show strong enrichment for ADHD given EDU or INT (Figure 1). The blue lines are drawn using the genome-wide summary statistics for ADHD, including all SNPs regardless of their association with EDU or INT. An increasingly leftward deflection from the dashed line of no association is observed with stronger associations with EDU or INT. Furthermore, we note the symmetry of the observed enrichment and show the conditional QQ-plots for EDU or INT given ADHD in Figure S1.

We used partitioned LD score regression to assess the statistical significance of enrichment for each QQ-plot stratum (15). After adjusting for multiple testing (two conditional traits and three strata) we identified significant enrichment for ADHD given EDU or INT for all three strata (Table S1). For ADHD given EDU, the enrichment parameters ranged from 2.877 (−log10pval >1) to 4.916 (−log10pval >2) and 8.093 (−log10pval >3), while for ADHD given INT the enrichment parameters ranged from 2.586 (−log10pval >1) to 5.046 (−log10pval >2) and 6.866 (−log10pval >3). Significant enrichment parameters for EDU or INT given ADHD for all three strata were also identified (Table S1). Moreover, LD score regression analyses also showed significant negative genetic correlation between ADHD and EDU (rg -0.520, SE 0.025, p = 1.333×10^{-93}) and between ADHD and INT (rg -0.366, SE 0.030, p = 1.023×10^{-34}), respectively.

ADHD-Associated Loci and Related Genes

Using condFDR we identified 48 (Table S2) and 31 (Table S3) LD-independent loci to be significantly (condFDR < 0.01) associated with ADHD after conditioning on association with EDU and INT, respectively. To provide a map of shared loci between ADHD and EDU and INT we performed conjFDR analyses. We thereby identified 24 shared loci between ADHD and EDU (conjFDR < 0.01), of which seven are novel to both ADHD and EDU (Table S4). Similarly, we identified 15 loci shared by ADHD and INT (conjFDR < 0.01), of which four are novel to both phenotypes (Table S5). Manhattan plots from condFDR and conjFDR analyses are presented in Figures 2 and 3, respectively.

Combining the results of the aforementioned analyses yields a list of 58 LD-independent loci associated with ADHD (Table 2, Table S6), by condFDR and conjFDR analyses with EDU or INT. Thirty of these loci are shared between ADHD and EDU or INT. The majority of the 58 loci showed discordant direction of effect between ADHD and EDU (52 loci, 23 shared loci (ADHD&EDU conjFDR < 0.01)), and ADHD and INT (51 loci, 15 shared loci (ADHD&INT conjFDR < 0.01)), respectively. Nine loci showed concordant direction of effect between ADHD and EDU or ADHD and INT (3 shared loci (ADHD&EDU or ADHD&INT conjFDR < 0.01)), of which three loci were concordant between all three phenotypes. Twelve of these loci were significantly associated with ADHD in the previous GWAS (8) (Table S6), and three loci were previously reported for ADHD by leveraging polygenic overlap with educational attainment (9) (Table S6). All SNPs with conjFDR < 0.1 (ADHD&EDU and ADHD&INT) and $r^2 \geqq 0.6$ with a representative SNP are shown in Table S7. Gene-set analysis of the genes implicated by the SNPs within the 58 loci (Table 2, Table S6 and Table S7) revealed no significantly enriched biological processes, cellular components or molecular functions.

Four LD-independent loci are shared between ADHD, EDU and INT (conjFDR < 0.01), and are represented by SNPs rs112984125, rs28535523, rs4839923, rs1978102 (Table 2, Table S6). The intronic *ST3GAL3* rs112984125 was previously associated with ADHD risk (8, 9), and showed the most significant association with ADHD (ADHD|INT condFDR = 3.999×10^{-8}) in this study. The remaining three loci are novel for ADHD, however they were all previously significantly associated with EDU (13), and rs1978102 and rs4839923 were also previously significantly associated with INT (12). Both rs28535523 and rs1978102 are intronic variants within the *UBA7* gene on chromosome 3p21.31 (Figure 4A) and *CALN1* gene on chromosome

7q11.22 (Figure 4B), respectively. No protein-coding genes were identified to be in the region represented by intergenic SNP rs4839923 on chromosome 6q16.1 (Figure 4C).

Evaluation of Detected Loci in Two Independent ADHD Cohorts

Of the 58 LD-independent loci identified through condFDR/conjFDR analyses, the lead SNPs within 44 loci showed the same direction of effect in the PGC (8) and EAGLE (23) GWASs (significantly more than expected by chance, p = 0.007) (Table S6). This was consistent for the previously identified loci (10/12; p = 0.193) (8), novel loci identified in this study (34/46; p = 0.031) and when only considering shared (conjFDR < 0.01) loci (22/30; p = 0.063) (Table S6). When comparing the effect direction for lead SNPs within the 58 loci between the PGC and deCODE ADHD cohorts, 29 showed the same effect direction (p = 1.000) (Table S6). Similar results were observed when considering lead SNPs in previously identified loci (4/12; n.s.) (8) and novel loci identified in this study (24/46; n.s.) (Table S6). A slightly improved concordance rate was observed for shared (conjFDr < 0.05) loci (18/30; n.s.).

In Silico Identification of Variant Effects on Transcription

In order to determine if the SNPs identified by condFDR/conjFDR are associated with gene expression in brain tissues we evaluated the brain regions within the GTEx database with all 58 representative SNPs from Table S6. Nineteen SNPs were identified as potential eQTLs,

predicted to alter the expression of 22 genes, in GTEx brain regions (Table S8). In order to validate these findings we further evaluated these 19 eQTL SNPs in the Braineac database and CMC knowledge portal. Five of these 19 SNPs were also identified as eQTLs for 10 genes in brain regions in the Braineac database (Table S9), while 10 of the 19 SNPs were identified as eQTLs for 23 genes in the dorsolateral prefrontal cortex in the CMC knowledge portal (Table S10). The most significant eQTLs were observed between rs28633403 and *PIDD1* in the cerebellum in the GTEx database ($p = 2.63 \times 10^{-17}$) and between rs28633403 and *NS3BP* in the thalamus in the Braineac database ($p = 4.00 \times 10^{-9}$). The rs28633403 SNP was also observed as an eQTL for *PNPLA2* in the frontal cortex in the GTEx ($p = 4.55 \times 10^{-6}$) and Braineac databases ($p = 1.20 \times 10^{-4}$) and in the dorsolateral prefrontal cortex in the CMC knowledge portal (FDR < 0.01). According to Human Brain Transcriptome data (26), 19 genes identified from evaluation of the GTEx, Braineac and CMC databases (Tables S8 - S10) have apparent expression in different brain regions during development and adulthood (Figure S2).

Discussion

This study identified 58 ADHD-associated loci by leveraging genetic overlap between ADHD, EDU and INT, of which 30 are shared between ADHD, EDU and INT (Table 2, Table S6). Of these loci, 46 are novel risk loci for ADHD (Table 2, Table S6). These results suggest shared polygenic architecture between educational attainment, general intelligence and ADHD, which may further our understanding of the relationship between these phenotypes observed in epidemiological studies (1, 2).

We identified polygenic overlap between ADHD and both EDU and INT, as illustrated by the increasingly significant enrichment in ADHD when conditioning on EDU or INT (Figure 1, Table S1). The majority of the identified shared loci show discordant effects on ADHD and EDU or INT (Table S6). These findings are consistent with the phenotypic relationship whereby risk alleles for ADHD are associated with lower educational attainment and reduced general intelligence scores, and the significant negative genetic correlations between both ADHD and EDU (rg -0.520, SE 0.025, p = 1.333 × 10−93), as well as ADHD and INT (rg -0.366, SE 0.030, p = 1.023 × 10−34). An advantage of the condFDR/conjFDR method is to discover loci with both similar and opposite effects. Interestingly, nine loci show concordant effect directions for ADHD and EDU or INT (Table S6), three of which show concordant effect directions between all three phenotypes. The majority of these concordant loci are represented by intergenic SNPs, however, for two of the loci the nearest genes include *PCDH7* and *CADPS2* (Table S6). The *PCDH7* and *CADPS2* genes are implicated in epilepsy (27), autism spectrum disorder and learning disability (28), respectively. The PCDH7 protein is also known to bind to phosphatase 1α within dendritic spines where it may play a role in learning and memory (29). Further investigation of these concordant loci is warranted since this may help to explain some of the heterogeneity seen among patients with ADHD. These results add further support to the hypothesis of a shared complex genetic basis underlying ADHD, educational attainment and general intelligence.

Only four of the significant ADHD-associated risk loci identified in this study were implicated by the conjFDR analysis with both EDU and INT (Table 2, Table S6). The most significant

SNPs for these regions are rs112984125, rs28535523, rs4839923 and rs1978102. Three of these loci (lead SNPs: rs28535523, rs4839923 and rs1978102) are novel for ADHD risk, although they were previously implicated in EDU (13) and INT (12), and may therefore provide new insights into the underlying mechanisms of the disorder. The intronic *ST3GAL3* rs112984125 showed the most significant association with ADHD (ADHD|INT condFDR = 3.999 × 10−8) in this study, and was previously implicated through the most recent ADHD GWAS (8) and the condFDR/conjFDR method employed in this study (9).

The rs28535523 SNP is located on chromosome 3p21.31 and is intronic to the *UBA7* gene (Figure 4A). A nonsense mutation located at chr3:49848458, 44 bp away from rs28535523 and within this risk locus (Table S6), was previously associated with mild cognitive disability (30). Furthermore, rs28535523 was identified as an eQTL for the *AMT* gene in both the GTEx and Braineac databases (Tables S8 and S9). The *AMT* gene has previously been implicated in autism spectrum disorder (31)

The intronic *CALN1* rs1978102 SNP is located on chromosome 7q11.22 (Figure 4B). Although there is no evidence previously implicating this gene in ADHD etiology, deletions in a region containing the *AUTS2*, *WBSCR17* and *CALN1* genes were associated with a syndromic form of intellectual disability (32). Furthermore, this locus was also identified as a risk locus for schizophrenia after conditioning on educational attainment using the same method described in this study (33).

The fourth shared ADHD-risk locus identified is rs4839923 on chromosome 6q16.1 (Figure 4C). No protein-coding genes were identified in this region; however, this SNP is intronic to a long non-coding RNA (lncRNA) *RP11-436D23.1*. lncRNAs have been implicated in a number of neurological and psychiatric disorders (34), including fragile X mental retardation (35), schizophrenia (36, 37) and autism spectrum disorder (38), highlighting the need to better characterize their role in other brain-related phenotypes such as ADHD.

Although only identified by condFDR, as a novel risk locus for ADHD, rs28633403 was the most significant eQTL identified in the GTEx database with *PIDD1* (Table S8) and in the Braineac database with *NS3BP* (Table S9), respectively. This SNP was also the only SNP identified as an eQTL for the same gene (*PNPLA2*) within the same brain tissue (frontal cortex) in all databases (Table S8-10). The *PIDD1* gene was previously associated with ADHD risk by gene-wise association (8), and the *PNPLA2* gene was implicated in ADHD risk after being identified within a gene set significantly enriched in ADHD copy number variations (39). These results highlight potential mechanisms through which this locus may influence ADHD risk.

In addition to the loci mentioned above, all 12 ADHD-risk loci identified in the most recent GWAS were maintained (8), and three of the five ADHD-risk loci previously identified using this condFDR/conjFDR methodology were replicated (9). The two non-replicated loci, on chromosome 1p36.12 and 2p24, were also not identified in the most recent GWAS (8). Furthermore, the 1p36.12 locus was represented by only a single SNP (rs17414302) with no LD-linked SNPs in the direct vicinity highlighting the potential of a false positive (9). These results demonstrate the sensitivity of the condFDR/conjFDR methodology to the quality and power of

the GWASs employed for these analyses. As such, the condFDR/conjFDR method shares some of the limitations and strengths of GWASs in that sample size limits the power to detect associations and that identified associations require replication. As the sample sizes and ensuing power of GWASs increase so too does the power of this method to identify cross-phenotype polygenic enrichment.

The most significant SNPs identified by condFDR/conjFDR analyses were evaluated in two independent ADHD cohorts, a case-control cohort (deCODE) and a GWAS on ADHD symptoms (EAGLE) (23). Lead SNPs within 44 of 58 loci identified in our study showed consistent direction of effect between the PGC-GWAS (8) and the EAGLE GWAS (23) (Table S6). This concordance rate is similar to that reported for the genome-wide significant loci in the PGC-GWAS (10/12 sign concordance) (8) a and when considering the novel loci identified in this study (34/46 sign concordance). ADHD diagnosis and continuous measures of ADHD, including symptom scores, have been shown to share substantial genetic background (± 90%) (8). Furthermore, polygenic risk scores calculated from associations with ADHD diagnosis have also been shown to predict variability in ADHD symptoms (40). The consistent direction of effects found here may therefore be considered as a validation of our findings. Lead SNPs for 29/58 loci were concordant between the PGC-GWAS (8) and deCODE case-control cohort. A similar difference in effect concordance, between these two cohorts, has been previously reported (8). These differences may be due to the difference in ascertainment of ADHD affected individuals in the deCODE cohort compared to the PGC and EAGLE cohorts (Table 1). These results highlight the need for large well-powered independent cohorts to replicate identified genetic loci.

Despite the focus on representative (most significant) SNPs within the identified loci, as always with GWAS, it must be considered that these SNPs may be in LD with other causal SNPs. Further studies are required to identify truly causal variants with biological relevance that may explain the cross-phenotype polygenic enrichment observed between ADHD, educational attainment and general intelligence. Furthermore, we do not know in what way the alleles identified here confer risk to ADHD and influence cognitive performance. Some of the overlapping gene loci may be driven by the natural occurrence of ADHD in the general population from which the EDU and INT samples were recruited. Although this is likely a small fraction (~ 2%) (1, 2), some of the identified shared genetic architecture could be driven by this effect. It is also possible that the identified shared loci might influence a common cognitive sub-phenotypic trait affecting both ADHD risk and cognitive performance such as attention, or that the loci might affect more basic neurobiological mechanisms that contribute to both higher-level phenotypes. Although no significantly enriched biological processes, cellular components or molecular functions were identified in this study, a number of the identified genes were previously implicated in the genetic overlap between schizophrenia and intelligence (*FOXP1*, *CALN1*, *SORCS3* and *AKAP6*) (20, 21), and bipolar disorder and intelligence (*CDH8* and *RP11-436D23.1*) (21). These findings are suggestive of a common genetic architecture underlying the relationship between psychiatric disorders and cognitive performance, in line with identified common-variant correlations (41). Similar biological processes to those identified for the shared loci between schizophrenia and intelligence, related to neurodevelopment, synaptic integrity, and neurotransmission (21), may therefore also play a role in the shared genetic component of ADHD and intelligence. Discovery of additional ADHD-risk loci is required to increase the

statistical power of gene-set analysis to better understand the underlying neurobiological mechanisms.

ADHD medications are effective at reducing core ADHD symptoms (42, 43), however they are also known to improve academic performance (44, 45). This provides further evidence suggestive of overlapping biological mechanisms between cognitive performance and ADHD, in line with the current findings of shared polygenic architecture. However, despite the discovery of several novel ADHD-risk loci, and the implication of a number of novel genes, these results are not yet of clinical relevance for treatment of individual patients. Future studies are required to unravel and understand the complex underlying genetic architecture of ADHD, and how it overlaps with cognitive phenotypes, to reach the level of clinical utility.

Previous analysis of the PGC ADHD and EDU datasets using the condFDR/conjFDR method highlighted the sample overlap (WTCCC58C cohort) (46) between these datasets, which may potentially inflate the condFDR/conjFDR results. This overlap, however, is very limited, and amounts to approximately 2800 ADHD control samples (8) that were also included in the EDU GWAS (13). To the best of our knowledge no ADHD cases were shared between any of the datasets used in these analyses.

Since all of the GWAS summary statistics analyzed in this study were generated from cohorts of European ancestry, as was the case for the original GWAS, the results may not be generalizable to non-European populations. In addition, the difference in prevalence of ADHD in children and adults (1, 2) suggests that age specific factors may interact with genetic risk factors. However,

currently available GWAS data does not allow for analyses of potential age-genotype interactions.

In conclusion, we have demonstrated shared polygenic architecture between ADHD and both EDU and INT. We leveraged this genetic overlap to identify 46 novel risk loci for ADHD, four of which are associated with ADHD risk, educational attainment and general intelligence. Interestingly, using the condFDR/conjFDR method we identified nine loci with concordant effects on ADHD and EDU or INT, contrasting the genome-wide genetic correlation findings between these phenotypes. These results expand on previous genetic and epidemiological studies to further support the hypothesis of a shared genetic basis between these phenotypes. Although the clinical utility of the identified risk loci remains to be determined, they can be used as resources to guide future studies aiming to disentangle the complex etiologies of ADHD, educational attainment and general intelligence.

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Figure Legends

Figure 1. Conditional QQ-plots of nominal vs empirical −log10 p-values (corrected for inflation) in ADHD below the standard genome-wide association study threshold of $p < 5.0 \times 10^{-8}$ as a function of significance of association with educational attainment (EDU) or general intelligence (INT) at the level of −log10 p-values of 1, 2, or 3, corresponding to p = 0.10, p = 0.01 and p = 0.001, respectively. The dashed lines indicate the null hypothesis.

Figure 2. Conditional False Discovery Rate (condFDR) Manhattan Plot of Conditional $-\log_{10}$(FDR) Values. ADHD conditioned on educational attainment (EDU) (ADHD|EDU) is shown in blue and ADHD conditioned on general intelligence (ADHD|INT) is shown in orange. Linkage disequilibrium (LD) independent single nucleotide polymorphisms (SNPs) with conditional $-\log_{10}$(FDR) higher than 2.0 (horizontal dotted line) (ie, condFDR < 0.01) are shown with large points. A black line around the large points indicates the most significant SNP in a locus.

Figure 3. Conjunctional False Discovery Rate (conjFDR) Manhattan Plot of Conjunctional $-\log_{10}$(FDR) Values. ADHD and Educational Attainment (EDU) (ADHD & EDU) is shown in blue, and ADHD and General Cognitive Ability (ADHD & INT) is shown in orange. Linkage disequilibrium (LD) independent single nucleotide polymorphisms (SNPs) with conjunctional $-\log_{10}$(FDR) higher than 2.0 (horizontal dotted line) (ie, conjFDR < 0.01) are shown with large points. A black line around the large points indicates the most significant SNP in a locus.

Figure 4. Genetic context for three novel loci associated with ADHD, and shared between ADHD, educational attainment (EDU) and general intelligence (INT) in conjunctional false discovery rate (conjFDR). The SNPs $-\log_{10}$(conjFDR) values are shown on the left y-axes. In each sub-plot the representative SNP for the locus (strongest association with ADHD) is shown in the purple square. The color of the remaining markers reflects the degree of linkage disequilibrium (LD) with the representative SNP measured as r^2 coefficient. The recombination rate is plotted in blue and it's value is indicated on the right y-axes. The red line indicates the FDR threshold (conjFDR < 0.01). Surrounding of the strongest association in conjFDR analysis: (A) rs28535523 (conjFDR = 4.376×10^{-3}), (B) rs1978102 (conjFDR = 5.789×10^{-3}) and (C) rs4839923 (conjFDR = 1.479×10^{-3}). Figures are generated with LocusZoom (47).

Table 1. GWAS summary statistics characteristics

Sample	Sample Size (N)*	Sample Size inlcuded (N)**	Age Group	Ref
PGC[1,2]	53 293 (19 099 ADHD, 34 194 CON)	53 293	Adult and Children	(8)
INT[1]	269 867	269 867	Adult and Children	(12)
EDU[1]	1 131 881	842 499	Adult	(13)
deCODE[2]	-	348 561 (10 217 ADHD, 338 344 CON)	Adult and Children	-
EAGLE[2]	17 666	17 666	Children	(23)

* Sample size of the cohort in the referenced study

** Sample size of the cohort included and analyzed in this study.

[1] GWAS summary statistics used for condFDR/conjFDR analyses.

[2] GWAS summary statistics used for sign concordance evaluation.

INT, general intelligence. EDU, educational attainment. ADHD, cases. CON, controls.

Table 2. The 58 LD-independent loci associated with ADHD, by condFDR and conjFDR analyses with educational attainment (EDU) or general intelligence (INT).

Locus	Chr	Lead SNP	A1/A2	Nearest Gene	Functional category	ADHD|EDU condFDR	ADHD&EDU conjFDR	ADHD|INT condFDR	ADHD&INT conjFDR	P-value ADHD	P-value EDU	P-value INT
1	1	rs112984125	G/A	*KDM4A-AS1:ST3GAL3*	ncRNA_intronic	**5.622E-08**	**5.622E-08**	**3.898E-08**	**5.068E-04**	**1.08E-12**	**2.11E-23**	8.61E-08
2	1	rs2391734	G/T	*RNU1-130P*	intergenic	**1.553E-03**	1.923E-01	2.766E-02	1.000E+00	6.70E-08	7.81E-03	8.60E-01
3*	2	rs55748262	G/A	*PDIA6*	intergenic	**2.492E-03**	**2.492E-03**	**4.150E-03**	4.614E-02	2.94E-06	**8.45E-14**	3.00E-04
4*	2	rs2676507	G/A	*RAPGEF4*	intronic	**5.955E-03**	**6.942E-03**	2.948E-01	9.305E-01	1.09E-05	1.23E-06	5.98E-01
5*	2	rs79699670	G/A	*RBM45*	intronic	**6.818E-03**	9.253E-02	4.494E-02	5.049E-01	2.36E-06	1.08E-03	6.23E-02
6	2	rs13023832	G/A	*SPAG16:AC107218.3*	ncRNA_intronic	**9.270E-03**	9.997E-01	ND	ND	9.33E-08	1.37E-01	ND
7	3	rs4858241	T/G	*RNU6-815P*	intergenic	**1.892E-04**	1.051E-01	**2.410E-03**	6.905E-01	**8.17E-09**	1.89E-03	2.29E-01
8*	3	rs12493769	A/G	*SNRK:ANO10*	intronic	5.161E-02	2.576E-01	**9.620E-03**	2.764E-02	2.09E-05	1.53E-02	1.19E-04
9*	3	rs28535523	C/T	*UBA7*	intronic	**4.986E-03**	**4.986E-03**	**4.721E-03**	**4.721E-03**	8.25E-06	**1.38E-20**	2.65E-07
10*	3	rs6789751	T/C	*FOXP1*	intronic	1.097E-02	1.097E-02	**9.86E-03**	**9.86E-03**	2.92E-05	**1.84E-09**	1.78E-06
11*	3	rs11710737	A/G	*BBX*	intronic	**3.842E-03**	1.514E-02	1.243E-02	1.132E-01	5.55E-06	1.89E-05	1.55E-03
12*	3	rs7634587	A/G	*BBX*	intronic	1.789E-02	2.708E-01	**9.560E-03**	1.755E-01	2.20E-06	2.14E-02	3.76E-03
13	4	rs28522755	A/G	*PCDH7*	intergenic	3.141E-02	8.895E-01	**3.819E-03**	3.442E-01	1.53E-07	7.56E-01	1.88E-02
14*	4	rs1484144	T/C	*LINC01088:NAA11*	ncRNA_intronic	**4.105E-03**	5.372E-02	1.472E-01	9.259E-01	1.98E-06	1.61E-04	5.89E-01
15*	4	rs227372	T/C	*MANBA*	intronic	2.099E-02	8.693E-01	**8.547E-04**	1.508E-01	8.43E-08	6.00E-01	2.74E-03
16*	4	rs72678859	C/T	*RP11-255I10.1*	intergenic	**3.789E-03**	**3.789E-03**	8.591E-02	5.542E-01	5.43E-06	**1.94E-08**	8.89E-02
17*	4	rs62338074	T/C	*GPM6A*	intronic	**5.921E-03**	2.166E-02	9.039E-02	5.079E-01	8.47E-06	2.51E-05	6.36E-02
18*	5	rs13163845	T/C	*CTD-2029E14.1*	intergenic	**3.337E-03**	**3.337E-03**	2.509E-02	2.650E-01	4.51E-06	**2.10E-08**	9.58E-03
19*	5	rs13176429	T/C	*ZNF131*	intronic	**8.511E-03**	2.851E-01	**7.845E-03**	3.211E-01	5.03E-07	2.45E-02	1.55E-02
20	5	rs4916723	A/C	*LINC00461*	ncRNA_intronic	**5.352E-05**	**5.352E-05**	**3.122E-03**	**1.25E-04**	**1.81E-08**	**2.32E-13**	1.44E-01
21*	5	rs7733142	C/A	*FAM172A*	intronic	**5.508E-03**	**5.508E-03**	2.019E-01	7.348E-01	9.62E-06	**3.41E-08**	2.93E-01
22*	5	rs12658032	A/G	*RP11-6N13.1*	ncRNA_intronic	**2.202E-04**	**2.550E-04**	**6.925E-03**	5.183E-01	1.15E-07	**3.05E-10**	6.86E-02
23*	6	rs57349798	G/A	*RP1-153P14.8*	ncRNA_intronic	**4.164E-03**	**4.164E-03**	6.048E-02	4.389E-01	6.27E-06	**7.60E-10**	3.86E-02
24*	6	rs141547796	G/A	*RP1-28O17.1*	intergenic	**2.398E-04**	**5.223E-03**	**1.622E-04**	**4.285E-03**	9.64E-08	1.40E-05	3.44E-06

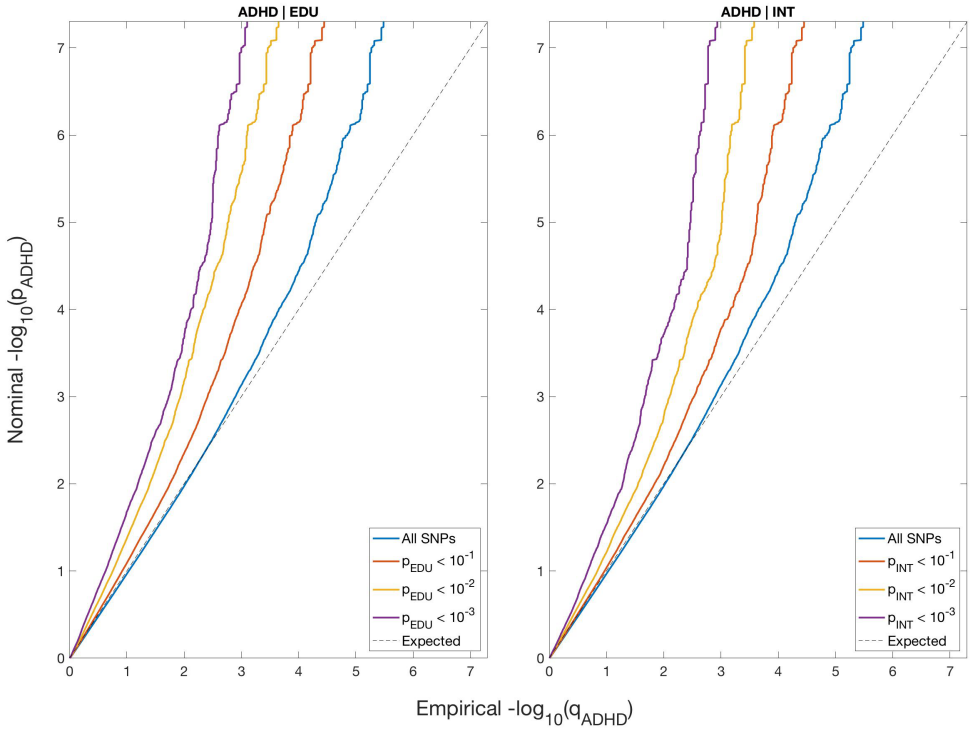
Locus	Chr	Lead SNP	A1/A2	Nearest Gene	Functional category	ADHD|EDU condFDR	ADHD&EDU conjFDR	ADHD|INT condFDR	ADHD&INT conjFDR	P-value ADHD	P-value EDU	P-value INT
25*	6	rs4839923	G/A	*RP11-436D23.1*	ncRNA_intronic	**1.827E-03**	**1.827E-03**	**1.699E-03**	**1.699E-03**	1.90E-06	**2.46E-15**	**1.12E-08**
26*	7	rs61409925	G/A	*MAD1L1*	intronic	**5.653E-03**	**8.469E-03**	1.990E-01	9.762E-01	1.90E-05	**2.31E-09**	6.97E-01
27*	7	rs1978102	C/T	*CALN1*	intronic	**6.510E-03**	**6.510E-03**	**6.159E-03**	**6.159E-03**	1.25E-05	**1.58E-18**	**1.74E-15**
28	7	rs9969232	G/A	*FOXP2*	intronic	**9.586E-05**	**3.707E-03**	1.474E-02	9.336E-01	**3.87E-08**	1.65E-06	6.05E-01
29*	7	rs3757541	A/G	*CADPS2*	intronic	**3.486E-03**	2.106E-01	4.881E-02	9.886E-01	2.04E-07	5.72E-03	7.26E-01
30*	8	rs1532744	A/G	*ERICH1-AS1*	ncRNA_intronic	**8.935E-03**	1.401E-01	1.562E-02	2.662E-01	2.07E-06	2.46E-03	9.68E-03
31*	8	rs4383968	T/C	*LINC00681*	ncRNA_intronic	**9.360E-03**	9.299E-02	1.989E-01	7.216E-01	1.01E-05	1.34E-04	2.72E-01
32*	8	rs4739249	A/C	*AC009695.1*	intergenic	**3.966E-03**	**4.623E-03**	8.431E-02	5.389E-01	5.83E-06	9.46E-07	7.96E-02
33	8	rs74760947	A/G	*RP1-84O15.2*	intergenic	**5.563E-03**	8.077E-01	**3.271E-05**	**8.829E-03**	**1.39E-08**	5.31E-01	1.38E-05
34	8	rs10956838	A/C	*RP11-700E23.2*	intergenic	**1.365E-03**	**4.134E-03**	**1.260E-03**	**7.59E-03**	1.28E-06	4.23E-07	2.63E-05
35*	9	rs295268	T/C	*GKAP1*	intronic	1.955E-02	1.141E-01	**6.215E-03**	2.049E-02	1.27E-05	2.14E-03	6.91E-05
36*	10	rs3928823	G/A	*RP11-575N15.1*	intergenic	**1.855E-03**	4.685E-02	**7.396E-03**	2.672E-01	6.66E-07	6.47E-05	9.76E-03
37*	10	rs220370	T/C	*KIAA1217*	intronic	**4.988E-03**	1.471E-02	3.053E-01	1.000E+00	8.25E-06	1.13E-05	7.72E-01
38*	10	rs10786831	T/G	*SORCS3*	intronic	**5.254E-04**	**6.115E-03**	**4.544E-05**	**5.55E-03**	1.08E-05	1.14E-06	9.51E-05
39*	11	rs28633403	G/A	*RPLP2*	downstream	**7.556E-03**	2.747E-01	2.874E-02	6.374E-01	4.46E-07	1.23E-02	1.62E-01
40*	11	rs4275621	A/G	*RP11-960D24.1*	intergenic	**5.273E-04**	2.707E-02	**3.406E-03**	2.781E-01	2.03E-07	3.90E-05	1.08E-02
41*	11	rs11040490	T/G	*RP11-707M1.1*	ncRNA_intronic	**3.433E-03**	**6.601E-03**	1.216E-01	7.683E-01	1.28E-05	1.62E-06	3.41E-01
42*	11	rs1791794	A/G	*DAGLA*	intergenic	**3.407E-03**	3.320E-02	4.177E-02	4.803E-01	2.45E-06	4.78E-05	5.21E-02
43*	12	rs7953911	T/C	*KCNH3*	intronic	**8.496E-03**	1.932E-02	8.343E-02	3.954E-01	1.66E-05	2.14E-05	2.79E-02
44*	12	rs10400419	T/C	*HMGA2*	intergenic	**3.522E-03**	2.438E-02	6.402E-02	5.414E-01	3.41E-06	6.76E-05	8.10E-02
45	12	rs1427829	A/G	*RP11-1109F11.3*	upstream	**6.962E-06**	**8.223E-03**	**4.818E-06**	**9.36E-03**	**1.35E-09**	3.64E-06	3.04E-05
46*	13	rs66931513	A/G	*WDR95P*	intergenic	1.034E-02	4.857E-02	**5.795E-03**	2.177E-02	1.09E-05	1.29E-04	7.73E-05
47*	14	rs140802584	A/G	*CTD-2384A14.1:RP11-148E17.1*	ncRNA_intronic	1.579E-02	7.490E-02	**7.258E-03**	2.284E-02	1.49E-05	1.22E-03	8.42E-05
48*	14	rs2300861	C/T	*AKAP6*	intronic	1.316E-02	8.374E-02	**5.016E-03**	**5.016E-03**	9.04E-06	9.18E-04	**1.85E-12**
49*	14	rs12435486	G/A	*RP11-61O1.1*	ncRNA_intronic	2.998E-02	1.251E-01	**9.675E-03**	**9.675E-03**	2.64E-05	1.44E-03	3.20E-07
50	15	rs8039398	T/C	*SEMA6D*	intronic	**1.314E-05**	**3.721E-05**	**1.061E-03**	6.761E-01	**2.99E-09**	**3.75E-11**	2.09E-01
51*	16	rs11861310	C/T	*RP11-420N3.2*	ncRNA_intronic	1.629E-02	8.850E-02	**6.236E-03**	**6.236E-03**	1.28E-05	5.66E-04	2.27E-06

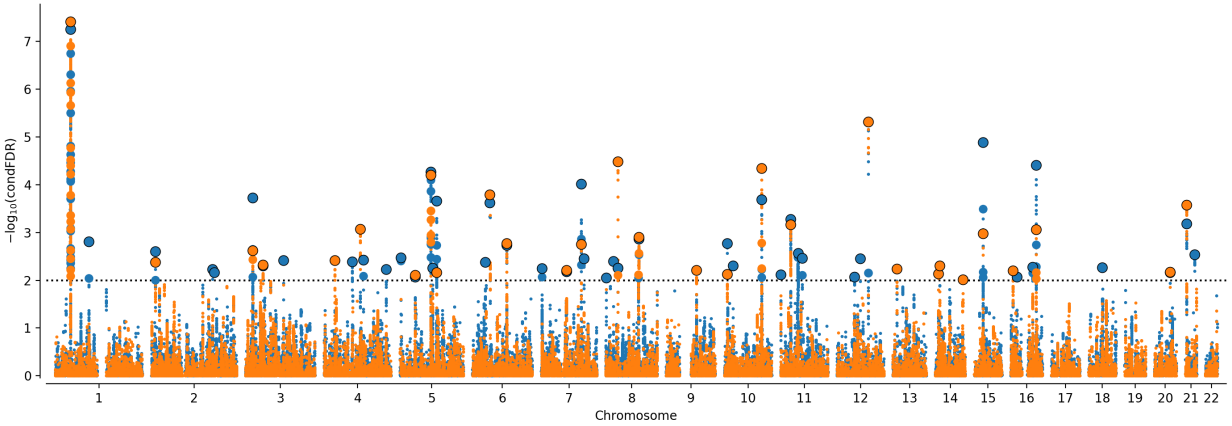
Locus	Chr	Lead SNP	A1/A2	Nearest Gene	Functional category	ADHD|EDU condFDR	ADHD&EDU conjFDR	ADHD|INT condFDR	ADHD&INT conjFDR	P-value ADHD	P-value EDU	P-value INT
52*	16	rs1428102	G/A	*RPL7P47*	upstream:downstream	**8.555E-03**	1.043E-01	1.363E-01	7.843E-01	2.98E-06	9.10E-04	3.65E-01
53*	16	rs1369918	G/A	*CDH8*	intronic	**5.347E-03**	3.742E-02	2.385E-02	2.534E-01	4.51E-06	1.92E-04	8.58E-03
54	16	rs212178	G/A	*AC004158.2*	ncRNA_intronic	**3.914E-05**	**8.266E-03**	**8.681E-04**	4.177E-01	**1.20E-08**	3.37E-06	3.30E-02
55*	18	rs4144756	G/A	*RP11-188I24.1*	intergenic	**5.377E-03**	3.489E-01	4.708E-02	1.000E+00	1.46E-07	2.08E-02	9.11E-01
56*	20	rs2024568	T/C	*RPL13P2*	intergenic	**7.068E-03**	**7.068E-03**	**6.679E-03**	2.102E-02	1.42E-05	**3.37E-09**	7.28E-05
57*	21	rs992936	T/C	*NEK4P1*	intergenic	**6.537E-04**	3.910E-02	**2.679E-04**	**3.602E-03**	1.78E-07	1.45E-04	2.50E-06
58*	21	rs2898433	C/T	*YRDCP3*	intergenic	**2.915E-03**	**9.528E-03**	1.860E-01	8.972E-01	1.04E-05	4.36E-06	5.37E-01

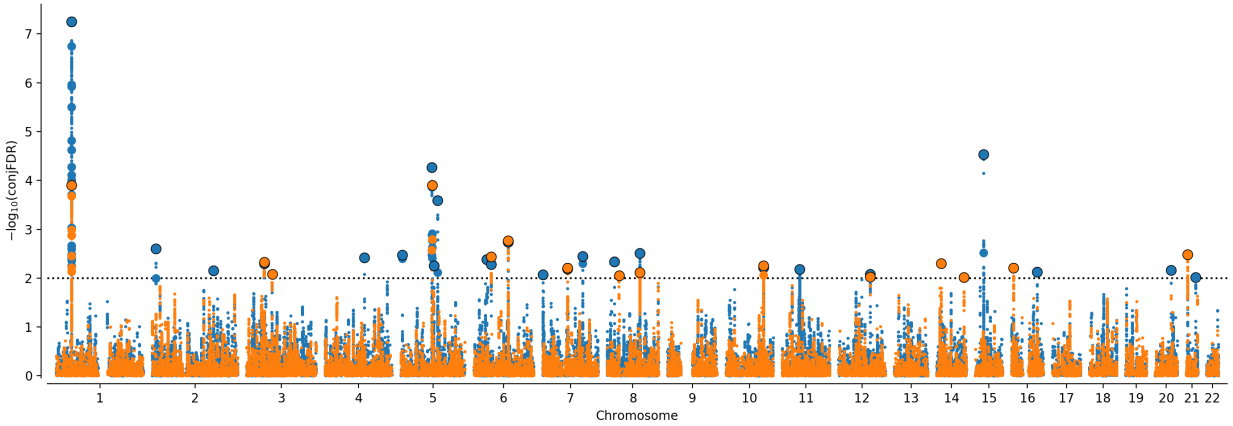
The most strongly associated SNPs in novel genomic loci associated with ADHD at condFDR/conjFDR < 0.01 (bold typeset) with EDU or INT after merging regions < 250 kb apart into a single locus. The table presents chromosomal position (Chr), nearest gene and functional category. Conditional FDR (condFDR) values are reported when ADHD is conditioned on EDU (ADHD|EDU) and when ADHD is conditioned on INT (ADHD|INT). The inverse condFDR results (EDU|ADHD and INT|ADHD) are not shown. The conjunctional FDR (conjFDR) columns report the maximum condFDR value, from each pair of condFDR analyses, for each SNP. FDR values in bold typeset are significant FDR < 0.01. P-values from the original summary statistics on ADHD (8), EDU (13) and INT (12) are also reported. P-values in bold typeset are significant p < 5.0E-8. For more details see Supplementary Table 6.

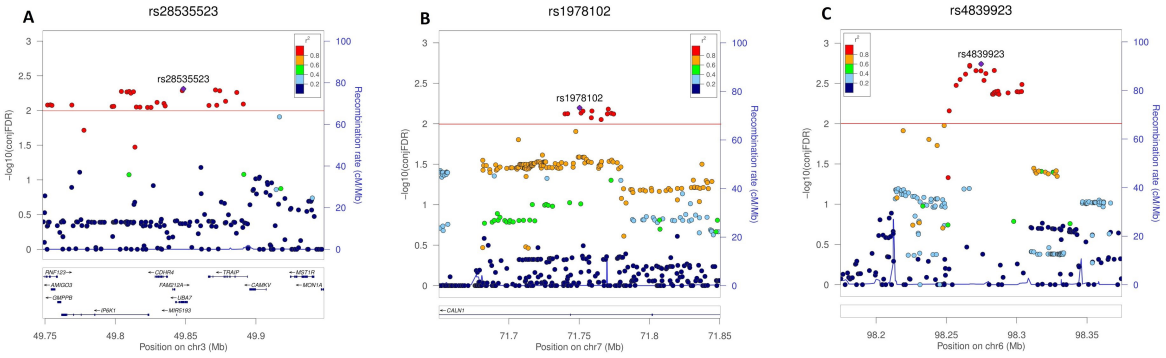
* Indicates novel ADHD loci, defined as those not associated with ADHD in the original GWAS (8).

ND, not determined.









KEY RESOURCES TABLE

Resource Type	Specific Reagent or Resource	Source or Reference	Identifiers	Additional Information
Add additional rows as needed for each resource type	Include species and sex when applicable.	Include name of manufacturer, company, repository, individual, or research lab. Include PMID or DOI for references; use "this paper" if new.	Include catalog numbers, stock numbers, database IDs or accession numbers, and/or RRIDs. RRIDs are highly encouraged; search for RRIDs at https://scicrunch.org/resources.	Include any additional information or notes if necessary.
Deposited Data; Public Database	PGC-ADHD GWAS summary statistics	30478444;		
Deposited Data; Public Database	Intelligence GWAS summary statistics	PMID: 29942086		
Deposited Data; Public Database	Educational attainment GWAS summsary statis	PMID: 30038396		
Deposited Data; Public Database	ADHD symptoms GWAS summsary statistics	PMID: 27663945		
Software; Algorithm	Conditional/ConjunctionalFDR scripts	https://github.com/precimed/pleiofdr		

Key Resource Table

The journals of the Society of Biological Psychiatry support efforts in the biomedical research community to improve transparency and reproducibility in published research. Thus, *Biological Psychiatry* and *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* are pleased to participate in the initiative to include a Key Resources Table in published articles.

Authors are asked to submit this table at first revision, which may be uploaded using the "Key Resources Table" item type. This table will then be published as supplemental information.

The Key Resources Table is designed to promote reproducibility and thus, should include the resources and relevant details necessary to reproduce the study's results. It does not need to be exhaustive. Extensive lists (e.g., oligonucleotides, etc.) may be supplied in a supplementary table and the table referenced here. We strongly encourage the use of RRID identifiers that provide persistent, unique identifiers to key study resources. Search for RRIDs at https://scicrunch.org/resources.

Resource categories

Note: For all categories, indicate sex and species when applicable

- **Antibody** - include host organism common name and clonality (e.g., “mouse monoclonal”)
- **Biological sample** - any other biological entity, ranging from isolated tissue to defined population
- **Cell line** - if a primary cell line, describe in Additional Information
- **Chemical compound, drug -** commercially available reagents
- **Commercial assay/kit -** detection assays; labeling and sample preparation kits
- **Deposited data or public database** - include both raw data from this paper deposited into a repository and public repository databases (postmortem tissue; genetic consortia data; etc.)
- **Genetic reagent** - applies to mutations and variants in whole organism, including transgenically introduced constructs
- **Peptide, recombinant protein -** commercially available reagents
- **Recombinant DNA reagent -** traditional cultured clones, plasmids, cDNAs, etc., including recombinant DNA libraries
- **Sequence-based reagent -** oligonucleotides, primers, etc.; indicate sequence

- **Software, algorithm -** include version number and URL for download
- **Organism/Strain** - applies to whole organism
- **Transfected construct** - in cell line; indicate species of cell line or construct component
- **Other -** miscellaneous other categories, including histological stains

***EXAMPLE* KEY RESOURCES TABLE**

Resource Type	Specific Reagent or Resource	Source or Reference	Identifiers	Additional Information
Add additional rows as needed for each resource type	Include species and sex when applicable.	Include name of manufacturer, company, repository, individual, or research lab. Include PMID or DOI for references; use "this paper" if new.	Include catalog numbers, stock numbers, database IDs or accession numbers, and/or RRIDs. RRIDs are highly encouraged; search for RRIDs at https://scicrunch.org/resources.	Include any additional information or notes if necessary.
Antibody	rabbit anti-E2F2	Abcam	Abcam Cat# ab50917, RRID:AB_869541	
Antibody	total actin	MP Biomedicals	Cat#8691002, RRID:AB_2335304	
Antibody	E2F3	Santa Cruz	C-18, Cat#SC-878, RRID:AB_2096807	
Bacterial or Viral Strain	AAV-hSyn-DIO-hM3D(Gq)-mCherry	University of North Carolina Vector Core	N/A	
Bacterial or Viral Strain	HSV-*wtSmurf1*	PMID: 10458166	Addgene plasmid # 11752	
Biological Sample	postmortem brain tissue	Harvard Brain Tissue Resource Center	RRID:SCR_003316	
Cell Line	control 03231 iPSC line	National Institute of Neurological Disorders and Stroke repository	NINDS # ND03231; RRID:SCR_004520	
Chemical Compound, Drug	Terazosin	Sigma-Aldrich	N/A	
Commercial Assay Or Kit	Bio-Rad DC Protein Assay	Bio-Rad Laboratories, Inc.	# 5000111	
Commercial Assay Or Kit	TruSeq Stranded mRNA Sample Prep Kit v2	Illumina, Inc.	Cat. No. RS-122-2101	
Deposited Data; Public Database	GSE13564, GSE80655, and GSE25219	NCBI GEO DataSets	https://www.ncbi.nlm.nih.gov/gds	
Organism/Strain	Mouse: C57BL/6J, male	The Jackson Laboratory	RRID:IMSR_JAX:000664	
Sequence-Based Reagent	Primers for RT-qPCR, see Table S1	This paper	N/A	
Software; Algorithm	HTSeq Python package	https://doi.org/10.1093/bioinformatics/btp120; https://doi.org/10.1093/bioinformatics/btu638	RRID:SCR_005514	
Software; Algorithm	MATLAB v9.1	Mathworks	RRID:SCR_001622	

Identification of Genetic Loci Shared Between Attention-Deficit/Hyperactivity Disorder, Intelligence and Educational Attainment

Supplement 1

Supplementary Methods

GWAS Samples

GWAS summary statistics for ADHD were obtained from the Psychiatric Genomics Consortium (PGC) and comprised association analyses of 19,099 cases and 34,194 controls (n total = 53,293) (1). These samples included a population-based cohort of 14,584 cases and 22,492 controls from Denmark collected by the Lundbeck Foundation Initiative for Integrative Psychiatric Research (iPSYCH), and 10 European cohorts aggregated by the Psychiatric Genomics Consortium (PGC) (1). ADHD cases in iPSYCH were identified from a national research register and diagnosed by psychiatrists at a psychiatric hospital according to ICD10 (F90.0), and genotyped using Illumina PsychChip. The PGC cohorts include both adult and child participants. Further detailed descriptions of all included cohorts, including sex distributions, have been described previously (2).

The summary statistics for general intelligence (INT) were obtained from the meta-analysis of 14 independent cohorts (n = 269,867), comprised of adult and child participants of European ancestry (3). For general intelligence, the INT GWAS included cohorts assessed using various measures of intelligence (3). Statistically, the variance common across cognitive tasks can be labeled general intelligence or Spearman's *g* (4). The g factors extracted from different sets of cognitive tests are known to correlate very strongly (5), and were used as the outcome variable in this GWAS (3). Furthermore, a detailed description of these cohorts is available in the original publication (3).

For our analyses of educational attainment (EDU) we used summary statistics (n = 842,499) generated from the meta-analysis of data from the Social Science Genetic Association Consortium (SSGAC) (n = 766,344) (6) and 23andMe (n = 76,155) (7). Data for the additional 23andMe participants (n = 289,383) included in the Lee et al. study (6) were not available for the present study. The meta-analysis was performed using an inverse-weighted fixed effects model implemented in the software METAL (http://csg.sph.umich.edu//abecasis/Metal/) (8). Each major educational qualification outcome from the surveys used in the cohorts included in the EDU meta-analysis were mapped to an International Standard Classification of Education (ISCED) category (6, 7). These category scores were then imputed to obtain a 'years of education' score (1 – 22 years) that was then used as the outcome variable in the meta-analysis (6). All participants included in the meta-analysis were adults of European ancestry, and additional detailed descriptions of the included participants are provided in the original publication (6).

Independent Study of ADHD Symptoms – EAGLE Cohort

The Early Genetics and Lifecourse Epidemiology (EAGLE) consortium includes population-based cohorts from Europe, Australia and the United States. For this study of ADHD symptoms, nine EAGLE cohorts were included with available scores in childhood (age at measurement < 13 years). Further details of the nine cohorts is provided in the original article (9). In order to assess ADHD symptoms, different instruments were used across cohorts, including the Attention Problems scale of the Child Behavior Checklist (CBCL) and the Teacher Report Form (TRF), and the Hyperactivity scale of the Strengths and Difficulties Questionnaire (SDQ). For the meta-analysis, one phenotype was selected from each cohort. A detailed description of the quality control, imputation and the analysis procedures for the different cohorts can be found in

the original article (9). Association analyses were performed using linear regression and relevant principal components and subsequently meta-analysed using METAL (8). Summary statistics from the meta-analysis of N=17,666 individuals were used in the current study.

Independent ADHD Case-Control Sample – deCODE Genetics, ADHD Diagnoses from Medical Records

The Icelandic ADHD cohort (n = 10,217) is comprised of individuals who have either a clinical ADHD diagnosis (mostly ICD10-F90) or who have been prescribed medication specific for ADHD symptoms (ATC-NA06BA, mostly methylphenidate). The Icelandic control sample (n = 338,344) consists of individuals participating in various deCODE studies. All individuals used in the analysis were subject to chip genotyping and long range phasing and genotypes were imputed based on the Icelandic dataset as described previously (10).

Conditional False Discovery Rate

The 'enrichment' seen in the conditional QQ plots and fold-enrichment plots can be directly interpreted in terms of true discovery rate (TDR = 1 – false discovery rate (FDR)) (11). More specifically, for a given p-value cutoff, the FDR is defined as

$$FDR(p) = \pi_0 F_0(p) / F(p), \qquad [1]$$

where π_0 is the proportion of null SNPs, F_0 is the null cumulative distribution function (cdf), and F is the cdf of all SNPs, both null and non-null (12). Under the null hypothesis, F_0 is the cdf of the uniform distribution on the unit interval [0,1], so that Eq. [1] reduces to

$$FDR(p) = \pi_0 \, p / F(p), \qquad [2]$$

The cdf F can be estimated by the empirical cdf $q = N_p / N$, where N_p is the number of SNPs with p-values less than or equal to p, and N is the total number of SNPs. Replacing F by q in Eq. [2], we get

$$\text{Estimated FDR}(p) = \pi_0 \, p / q, \qquad [3]$$

which is biased upwards as an estimate of the FDR (13). Replacing π_0 in Equation [3] with unity gives an estimated FDR that is further biased upward;

$$q^* = p/q, \qquad [4]$$

If π_0 is close to one, as is likely true for most GWASs, the increase in bias from Eq. [3] is minimal. The quantity 1 – p/q, is therefore biased downward, and hence a conservative estimate of the TDR. Referring to the QQ plots, we see that q* is equivalent to the nominal p-value divided by the empirical quantile, as defined earlier. We can thus read the FDR estimate directly off the QQ plot as

$$-\log_{10}(q^*) = \log_{10}(q) - \log_{10}(p), \qquad [5]$$

i.e. the horizontal shift of the curves in the QQ plots from the expected line x = y, with a larger shift corresponding to a smaller FDR (Illustrated in Figure 1 and Supplementary Figure S1).

Conditional QQ Plots

Under large-scale testing paradigms, such as GWAS, quantitative estimates of likely true associations can be drawn from the distributions of summary statistics (12, 14). One common method for visualizing the enrichment of statistical association relative to that expected under the global null hypothesis is through QQ plots of the nominal p-values obtained from GWAS summary statistics. QQ plots compare a nominal probability distribution against an empirical distribution. In the presence of all null relationships, nominal p-values form a straight line on a QQ plot when plotted against the empirical distribution. Under the global null hypothesis the theoretical p-value distribution is uniform on the interval [0,1]. As is common in GWAS, we plot $-\log_{10} p$ against $-\log_{10} q$ (q=1-cdf(p)) to emphasize tail probabilities of the theoretical and empirical distribution of ADHD, EDU and INT associations. Leftward deflections of the observed distribution from the projected null line reflect increased tail probabilities in the

distribution of test statistics (z-scores) and consequently an over-abundance of low p-values compared to that expected by chance, also named 'enrichment'.

Conditional QQ plots are constructed by creating subsets of SNPs based on levels of an auxiliary measure for each SNP, and computing QQ plots separately for each level. If SNP enrichment is captured by variation in the auxiliary measure, this is expressed as successive leftward deflections in a conditional QQ plot as levels of the auxiliary measure increase. We constructed conditional QQ plots of empirical quantiles of nominal association $-\log_{10}$ p-values for all SNPs and for subsets (strata) of SNPs determined by the nominal p-values of their association with the conditional phenotypes, and vice versa. Specifically, we computed the empirical cumulative distribution (cdf) of nominal p-values for a given phenotype for all SNPs and for SNPs with significance levels below the indicated cut-offs for the conditional phenotypes ($-\log_{10}(p) \geq 1$, $-\log_{10}(p) \geq 2$, $-\log_{10}(p) \geq 3$ corresponding to $p < 0{\cdot}1$, $p < 0{\cdot}01$, $p < 0{\cdot}001$ respectively). To assess the polygenic effects below the standard GWAS significance threshold, we focused the conditional QQ plots on SNPs with nominal $-\log_{10}(p) < 7{\cdot}3$ (corresponding to $p > 5x10^{-8}$). To control for spurious enrichment, all conditional QQ plots were constructed after random pruning averaged over 500 iterations. At each iteration, one SNP in every LD block (defined by an $r^2 > 0{\cdot}1$) was randomly selected and the empirical cdfs were computed using the corresponding p-values.

Detection of Genetic Variants Using Conditional and Conjunctional FDR

The FDR can be interpreted as the probability that a SNP is null given that its p-value is as small as or smaller than its observed p-value. The conditional FDR (condFDR) is an extension of the standard FDR, which incorporates information from GWAS summary statistics of a second phenotype to adjust its significance level. The condFDR is defined as the probability

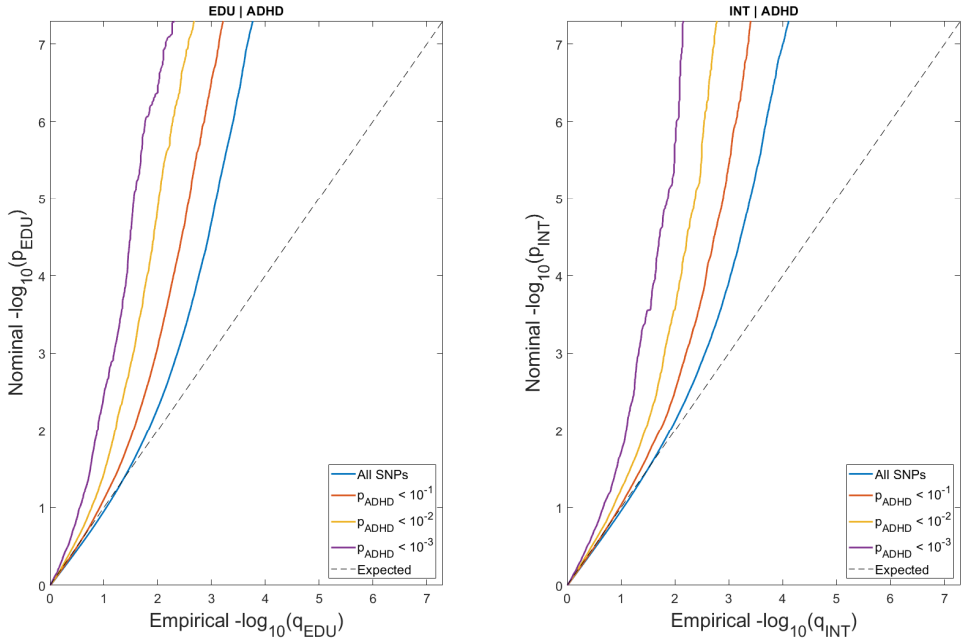
that a SNP is null in the first phenotype given that the p-values in the first and second phenotypes are as small as or smaller than the observed ones. Ranking SNPs by the standard FDR or by p-values gives the same ordering of SNPs. In contrast, if the primary and secondary phenotypes are related genetically, the condFDR reorders SNPs and results in a different ranking than that based on p-values alone. The conjunctional FDR (conjFDR) is defined as the posterior probability that a SNP is null for either phenotype or both simultaneously, given that its p-values for association with both phenotypes are as small as or smaller than the observed p-values (15, 16). A conservative estimate of the conjFDR is given by the maximum condFDR for a given SNP after repeating the condFDR procedure for both traits and inverting their roles (17). Given that complex correlations in regions with intricate LD can bias FDR estimation (18), we excluded SNPs in the extended major histocompatibility complex (genome build 19 locations 25119106–33854733) and SNPs in LD (r^2>0·1) with such SNPs before fitting the FDR models.

Code Availability

All of the code necessary to replicate the condFDR/conjFDR analyses described above is publicly available at https://github.com/precimed/pleiofdr.

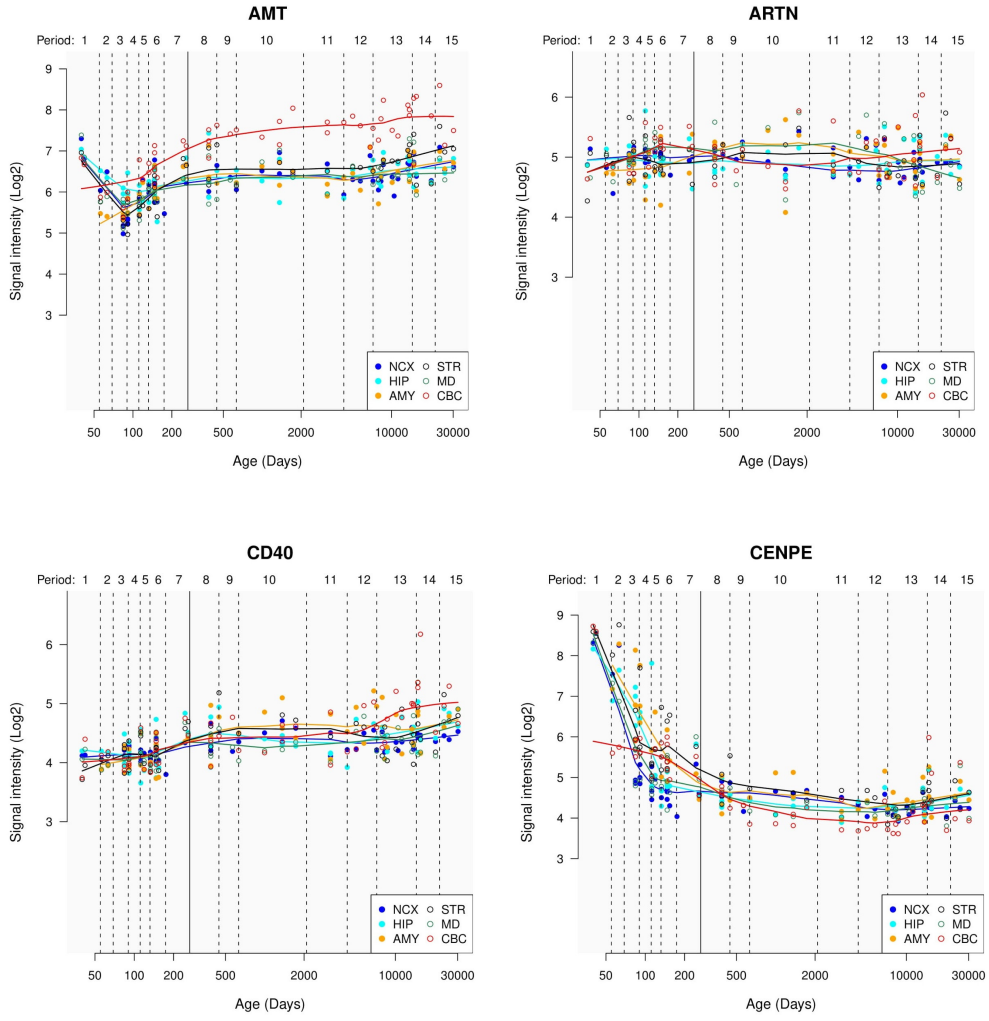
Supplementary Figures

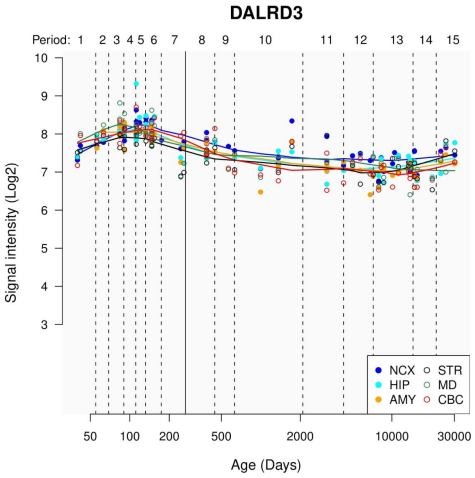
Supplementary Figure S1. Stratified conditional QQ plots of nominal vs empirical −log10 p-values (corrected for inflation) in educational attainment (EDU) or general intelligence (INT) below the standard genome-wide association study threshold of $p < 5 \times 10^{-8}$ as a function of significance of association with ADHD at the level of −log10 p-values of 1, 2, or 3, corresponding to p = 0.10, p = 0.01 and p = 0.001, respectively. The dashed lines indicate the null hypothesis.

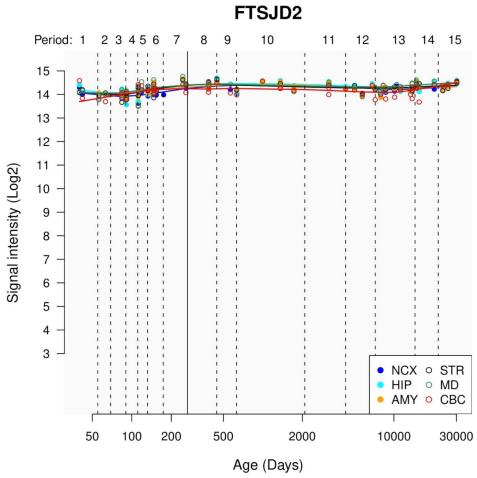


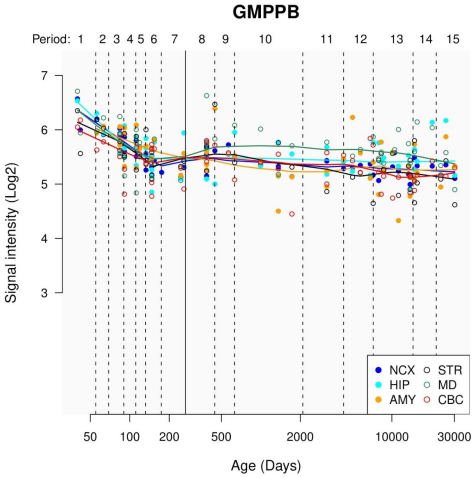
Supplementary Figure S2. Age-dependent variations of expression for the genes associated with identified eQTL SNPs in the developmental and adult human brain.

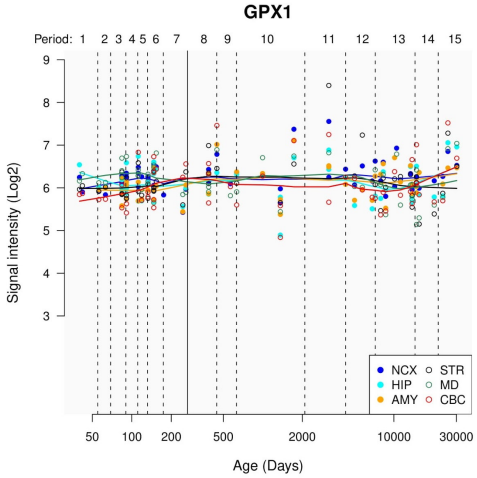
Line plots show the log2-transformed gene exon array signal intensity from the early fetal period to late adulthood in six brain regions. The solid line between periods 7 and 8 (approximately post-conception day 280) separates prenatal from postnatal periods. Data were generated using Affymetrix GeneChip Human Exon 1.0 ST Arrays by the Human Brain Transcriptome project, and accessed via their publicly available database at http://hbatlas.org. Abbreviations: NCX = neocortex; HIP = hippocampus; AMY = amygdala; STR = striatum; MD = mediodorsal nucleus of the thalamus; CBC = cerebellar cortex.

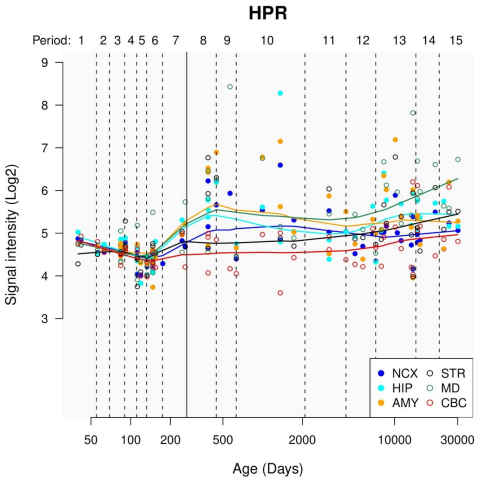


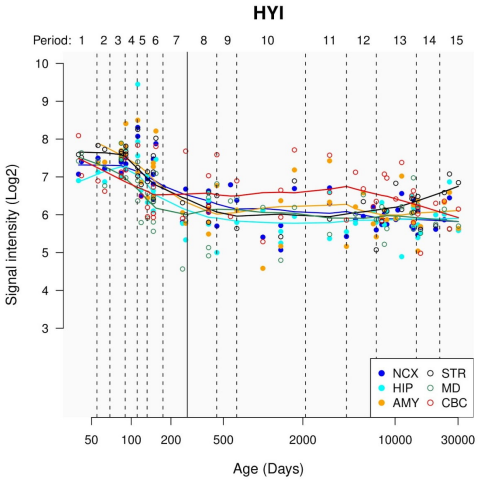


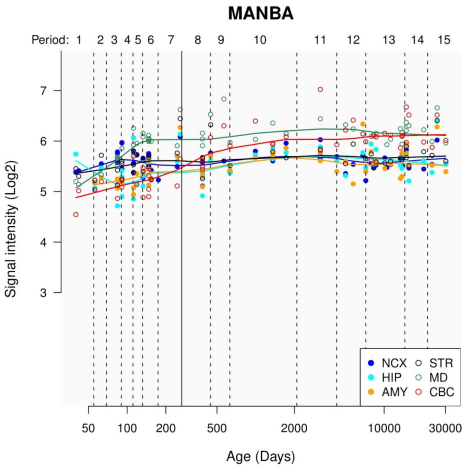


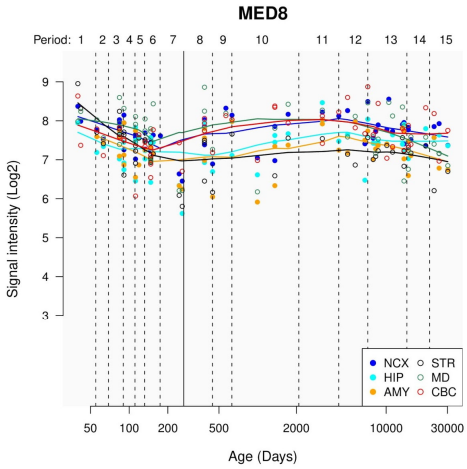


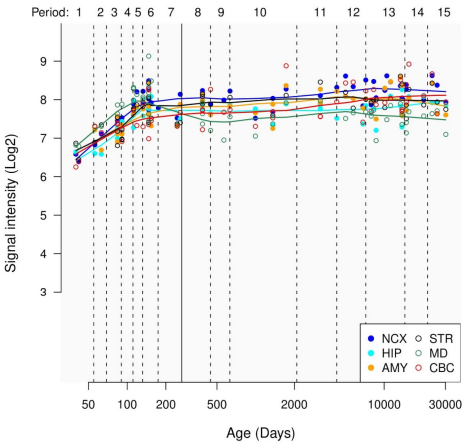


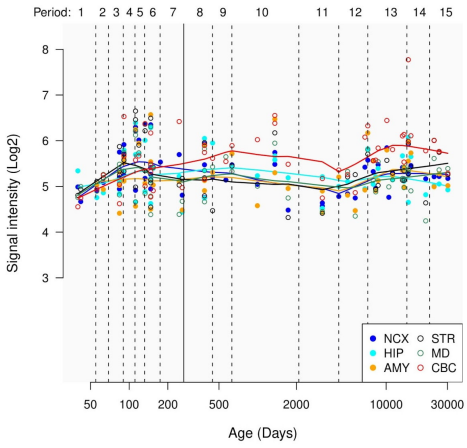


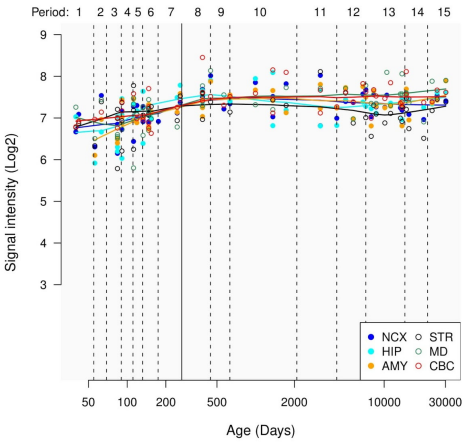


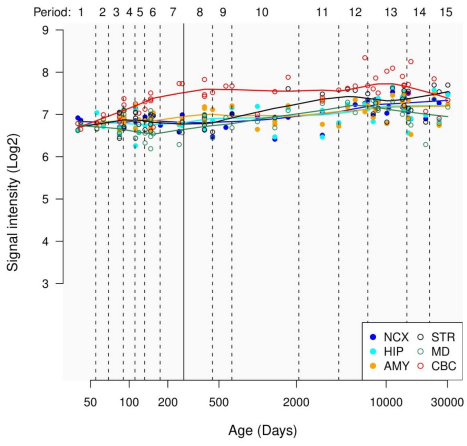


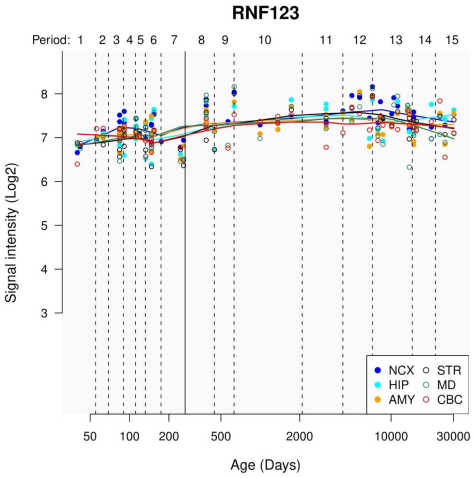


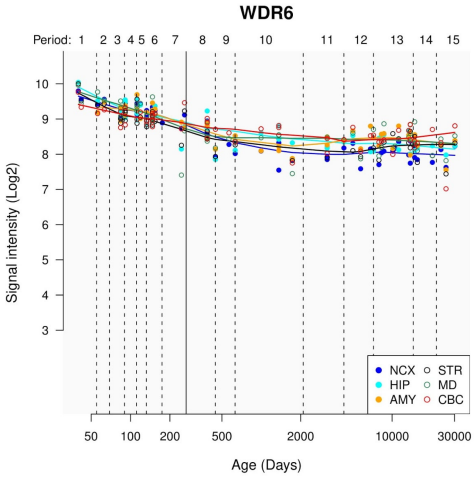












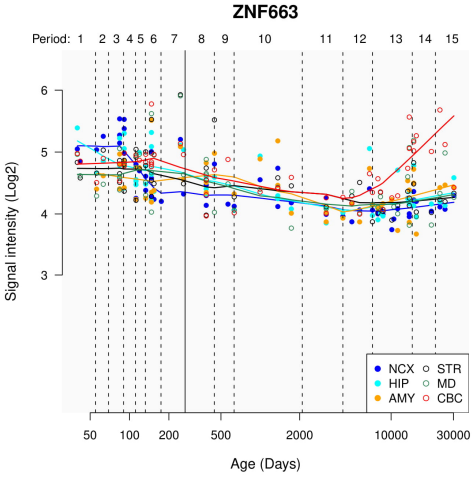


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Table S1. Test for enrichment of strata in the QQ plots

Enrichment of genetic association with ADHD given the three QQ plot strata (-log10pval>1,2, and 3, or equivalently p <0.1, p < 0.01, p < 0.001) based on educational attainment (EDU) or general intelligence (INT), and vice versa. Final p-values are adjusted for multiple testing of secondary traits and strata. LD-score regression was used to derive these parameters, SNPs in the MHC region were excluded prior to analysis.

	Stratum	Enrichment	Enrichment SE	Enrichment p-value	Adjusted p-value
ADHD|INT	-log10pval >1	2.586	0.227	8.758E-13	1.051E-11
	-log10pval >2	5.046	0.517	6.620E-17	7.944E-16
	-log10pval >3	6.866	1.007	3.151E-09	3.782E-08
ADHD|EDU	-log10pval >1	2.877	0.232	2.145E-19	2.574E-18
	-log10pval >2	4.916	0.486	1.118E-18	1.341E-17
	-log10pval >3	8.093	0.836	5.476E-18	6.572E-17
INT|ADHD	-log10pval >1	2.258	0.127	1.839E-18	2.207E-17
	-log10pval >2	4.173	0.502	2.080E-09	2.496E-08
	-log10pval >3	6.948	1.613	2.543E-04	3.051E-03
EDU|ADHD	-log10pval >1	2.655	0.107	2.818E-33	3.381E-32
	-log10pval >2	4.631	0.456	4.553E-13	5.464E-12
	-log10pval >3	7.740	1.318	7.862E-07	9.434E-06

Table S2. Distinct genomic loci associated with ADHD at condFDR<0.01 given association with educational attainment (EDU)

CADD = Combined Annotation-Dependent depletion score, which predict how deleterious the SNP effect is on protein structure/function (higher scores indicate more deleterious); RegulomeDB (RDB) scores predict likelihood of regulatory functionality (lower scores indicate higher likelihood); minChrState = minimum chromatin state across 127 tissue types (lower scores indicate more open chromatin); commonChrState = most common chromatin state in 127 tissue types. Also shown are p-values and effect sizes from the summary statistics on ADHD and EDU. The effect size is given as ln(OR) for ADHD and as β regression coefficient for EDU. ND, not determined.

GenomicLocus	CHR	LEAD_SNP	LEAD_BP	MinBP	MaxBP	condFDR	non_effect_allele	effect_allele	nearestGene	dist	func	CADD	RDB	minChrState	commonChrState	ADHD_pval	ADHD_effect_size	EDU_pval	EDU_effect_size
1	1	rs12410155	44188465	43760070	44480093	6.060E-08	A	C	*ST3GAL3:RP11-184I16.4*	0	ncRNA_intronic	1.459		5	5	**1.09E-12**	0.105	**1.74E-24**	-0.019
2	1	rs2391734	96604591	96597502	96670536	1.553E-03	G	T	*RNU1-130P*	86865	intergenic	0.584		6	15	15	6.70E-08	0.086	0.00781	0.005
3	2	rs55748262	10982635	10977585	10988762	2.492E-03	G	A	*PDIA6*	4531	intergenic	0.678		5	5	9	2.94E-06	-0.085	**8.45E-14**	0.017
4	2	rs2676507	173729572	173717556	173767023	5.955E-03	G	A	*RAPGEF4*	0	intronic	ND	ND		5	15	1.09E-05	-0.066	1.23E-06	0.009
5	2	rs79699670	178993329	178586977	179119891	6.818E-03	G	A	*RBM45*	0	intronic	5.251		7	4	5	2.36E-06	-0.209	0.001083	0.016
6	2	rs13023832	215219808	215081228	215219808	9.270E-03	G	A	*SPAG16:AC107218.3*	0	ncRNA_intronic	2.339		7	14	15	9.33E-08	0.115	0.1366	-0.033
7	3	rs4858241	20669071	20424488	20717763	1.892E-04	T	G	*RNU6-815P*	119822	intergenic	0.63		6	9	15	**8.17E-09**	0.082	0.00189	-0.005
8	3	rs28535523	49848414	49609477	50176739	4.986E-03	C	T	*UBA7*	0	intronic	ND		5	3	4	8.25E-06	0.076	**1.38E-20**	-0.021
9	3	rs11710737	107464170	107464170	107470613	3.842E-03	A	G	*BBX*	0	intronic	1.568		6	4	5	5.55E-06	0.061	1.89E-05	-0.007
10	4	rs1484144	80217597	80186915	80233882	4.105E-03	T	C	*LINC01088:NAA11*	0	ncRNA_intronic	1.933		6	5	15	1.98E-06	0.064	0.0001614	0.006
11	4	rs72678859	112406961	112208748	112503872	3.789E-03	C	T	*RP11-255I10.1*	66048	intergenic	0.381		5	14	15	5.43E-06	-0.089	**1.94E-08**	0.013
12	4	rs62338074	176735335	176717470	176754093	5.921E-03	T	C	*GPM6A*	0	intronic	1.714		5	1	15	8.47E-06	0.061	2.51E-05	-0.007
13	5	rs13163845	3264389	3264389	3269633	3.337E-03	T	C	*CTD-2029E14.1*	83042	intergenic	ND		6	5	15	4.51E-06	0.097	**2.10E-08**	-0.014
14	5	rs4916723	87854395	87514778	88269416	5.352E-05	A	C	*LINC00461*	0	ncRNA_intronic	ND		5	2	15	**1.81E-08**	-0.078	**2.32E-13**	0.013
15	5	rs7733142	93322795	92995013	93494731	5.508E-03	C	A	*FAM172A*	0	intronic	0.042		6	5	15	9.62E-06	0.074	**3.41E-08**	-0.011
16	5	rs12658032	103904226	103682279	104082179	2.202E-04	A	G	*RP11-6N13.1*	0	ncRNA_intronic	3.375		7	9	15	1.15E-07	0.075	**3.05E-10**	-0.011
17	6	rs57349798	37486052	37368362	37488116	4.164E-03	G	A	*RP1-153P14.8*	0	ncRNA_intronic	2.771		5	2	14	6.27E-06	-0.066	**7.60E-10**	0.011
18	6	rs141547796	50615935	50491551	50934086	2.398E-04	G	A	*RP1-28O17.1*	11016	intergenic	7.742		7	9	15	9.64E-08	-0.137	1.40E-05	0.013
19	6	rs4839923	98274701	98214814	98328774	1.827E-03	G	A	*RP11-436D23.1*	0	ncRNA_intronic	2.008		7	5	15	1.90E-06	0.065	**2.46E-15**	-0.014
20	7	rs117624174	2081425	1873756	2081425	5.653E-03	C	T	*MAD1L1*	0	intronic	ND		5	4	5	3.08E-06	-0.142	0.0003704	0.013
21	7	rs1978102	71750298	71681396	71849677	6.510E-03	C	T	*CALN1*	0	intronic	3.132		7	5	15	1.25E-05	0.059	**1.58E-18**	-0.015
22	7	rs9969232	114158954	113772805	114287116	9.586E-05	G	A	*FOXP2*	0	intronic	5.096		7	5	15	**3.87E-08**	0.080	1.65E-06	-0.009
23	7	rs3757541	121962454	121954709	122004780	3.486E-03	A	G	*CADPS2*	0	intronic	0.737	ND		5	15	2.04E-07	-0.073	0.005716	0.005
24	8	rs1532744	786916	745496	786916	8.935E-03	A	G	*ERICH1-AS1*	0	ncRNA_intronic	0.286	ND		5	15	2.07E-06	-0.065	0.00246	0.005
25	8	rs4383968	12673311	12662159	12709650	9.360E-03	T	C	*LINC00681*	0	ncRNA_intronic	2.391		7	5	15	1.01E-05	-0.084	0.0001344	0.009
26	8	rs4739249	21323694	21287105	21323694	3.966E-03	A	C	*AC009695.1*	27844	intergenic	2.096		6	7	15	5.83E-06	0.082	9.46E-07	-0.011
27	8	rs74760947	34352610	33790200	34820687	5.563E-03	A	G	*RP1-84O15.2*	148360	intergenic	4.429		6	5	15	**1.39E-08**	-0.180	0.5313	-0.003
28	8	rs10956838	93404442	93267443	93450407	1.365E-03	A	C	*RP11-700E23.2*	11330	intergenic	0.729		7	5	15	1.28E-06	0.074	4.23E-07	-0.010
29	9	rs55666007	86494706	86368660	86663514	9.677E-03	T	C	*KIF27*	0	intronic	1.208		5	5	15	1.60E-05	0.066	ND	ND	
30	10	rs3928823	8805857	8784773	8838901	1.250E-03	G	A	*RP11-575N15.1*	39605	intergenic	0.094		7	5	15	6.66E-07	-0.069	6.47E-05	0.007
31	10	rs220370	24588243	24562507	24593057	4.988E-03	T	C	*KIAA1217*	0	intronic	2.944	ND		5	15	8.25E-06	0.063	1.13E-05	-0.008
32	10	rs9783122	106766398	106473048	106830537	2.055E-04	G	A	*SORCS3*	0	intronic	2.917		6	9	15	**4.04E-08**	-0.093	0.0001021	0.008
33	11	rs28633403	813264	780321	825777	7.556E-03	G	A	*RPLP2*	383	downstream	0.893		4	3	4	4.46E-07	0.072	0.01227	-0.004
34	11	rs4275621	28652996	28591168	28709434	5.273E-04	A	G	*RP11-960D24.1*	47733	intergenic	ND		7	7	15	2.03E-07	0.073	3.90E-05	-0.007
35	11	rs10839264	49356806	48414295	51341194	2.900E-03	C	T	*CTD-2026G22.1*	0	ncRNA_intronic	4.309		5	9	15	2.55E-06	0.108	4.41E-05	-0.013
36	11	rs1791794	61437088	61412128	61514670	3.407E-03	A	G	*DAGLA*	10816	intergenic	6.044		4	2	14	2.45E-06	-0.069	4.78E-05	0.007
37	12	rs7953911	49948500	49939645	50163074	8.496E-03	T	C	*KCNH3*	0	intronic	0.395		4	4	5	1.66E-05	0.099	2.14E-05	-0.012
38	12	rs10400419	66389968	66383320	66389968	3.522E-03	T	C	*HMGA2*	29892	intergenic	1.671		5	2	15	3.41E-06	-0.067	6.76E-05	0.007
39	12	rs3990314	89771512	89721105	89794399	5.571E-06	T	C	*RP11-1109F11.5*	5375	intergenic	ND		7	5	15	**1.62E-09**	-0.082	ND	ND	
40	13	rs66931513	31633544	31614181	31652068	9.730E-03	A	G	*WDR95P*	17846	intergenic	4.831		5	5	15	1.09E-05	-0.065	0.0001287	0.007
41	15	rs8039398	47730870	47675569	47971793	1.314E-05	T	C	*SEMA6D*	0	intronic	3.184		7	5	15	**2.99E-09**	-0.080	**3.75E-11**	0.011
42	16	rs1428102	18026440	17996826	18062164	8.555E-03	G	A	*RPL7P47*	136	upstream:downstream	3.982	ND		9	15	2.98E-06	0.065	0.0009098	-0.006
43	16	rs1369918	61852034	61775810	61989366	5.347E-03	G	A	*CDH8*	0	intronic	15.26	ND		5	15	4.51E-06	0.063	0.0001916	-0.006
44	16	rs212178	72578131	72096227	72741267	3.914E-05	G	A	*AC004158.2*	0	ncRNA_intronic	2.181	ND		5	15	**1.20E-08**	-0.117	3.37E-06	0.013
45	18	rs4144756	39305154	39186059	39305154	5.377E-03	G	A	*RP11-188I24.1*	63972	intergenic	0.643		6	9	15	1.46E-07	0.077	0.02076	-0.004
46	20	rs6032660	44730245	44680853	44749251	6.864E-03	G	A	*RPL13P2*	1429	intergenic	1.845		6	5	14	1.36E-05	-0.068	**5.07E-09**	0.011
47	21	rs992936	18417022	18417022	18448019	6.537E-04	T	C	*NEK4P1*	165764	intergenic	ND		5	5	15	1.78E-07	0.072	0.0001453	-0.006
48	21	rs7276489	42353735	42335986	42378317	2.915E-03	C	T	*YRDCP3*	117335	intergenic	2.889		6	9	15	3.70E-06	0.063	9.21E-06	0.008

Table S3. Distinct genomic loci associated with ADHD at condFDR<0.01 given association with general intelligence (INT)

CADD = Combined Annotation-Dependent depletion score, which predict how deleterious the SNP effect is on protein structure/function (higher scores indicate more deleterious); RegulomeDB (RDB) scores predict likelihood of regulatory functionality (lower scores indicate higher likelihood); minChrState = minimum chromatin state across 127 tissue types (lower scores indicate more open chromatin); commonChrState = most common chromatin state in 127 tissue types. Also shown are p-values and effect sizes from the summary statistics on ADHD and INT. The effect size is given as ln(OR) for ADHD and as β regression coefficient for INT. ND, not determined.

GenomicLocus	CHR	LEAD_SNP	LEAD_BP	MinBP	MaxBP	condFDR	non_effect_allele	effect_allele	nearestGene	dist	func	CADD	RDB	minChrState	commonChrState	ADHD_pval	ADHD_effect_size	INT_pval	INT_effect_size
1	1	rs112984125	44173423	43760070	44480093	3.898E-08	G	A	*KDM4A-AS1:ST3GAL3*	0	ncRNA_intronic	ND	2b	1	1	**1.08E-12**	-0.106	8.61E-08	0.016
2	2	rs55748262	10982635	10977585	10988762	4.150E-03	G	A	*PDIA6*	4531	intergenic	0.678	5	5	9	2.94E-06	-0.085	0.0002997	0.013
3	3	rs4858241	20669071	20662634	20748320	2.410E-03	T	G	*RNU6-815P*	119822	intergenic	0.63	6	9	15	**8.17E-09**	0.082	0.2293	0.003
4	3	rs12493769	43459624	43254633	43591405	9.620E-03	A	G	*SNRK:ANO10*	0	intronic	0.446	5	4	15	2.09E-05	-0.081	0.0001193	0.015
5	3	rs28535523	49848414	49609477	49890967	4.721E-03	C	T	*UBA7*	0	intronic	ND	5	3	4	8.25E-06	0.076	2.65E-07	-0.019
6	3	rs7634587	107516847	107501282	107516847	9.560E-03	A	G	*BBX*	0	intronic	1.997	6	4	5	2.20E-06	0.065	0.003757	-0.008
7	4	rs28522755	31149943	31116254	31161251	3.819E-03	A	G	*PCDH7*	1520	intergenic	1.889	6	5	15	1.53E-07	0.079	0.01876	-0.007
8	4	rs227372	103612917	103603949	103675108	8.547E-04	T	C	*MANBA*	0	intronic	0.668	ND	4	5	8.43E-08	-0.078	0.002739	0.009
9	5	rs13176429	43152216	43054747	43193052	7.845E-03	T	C	*ZNF131*	0	intronic	0.985	7	4	5	5.03E-07	-0.073	0.01553	0.007
10	5	rs304132	88215594	87792844	88269416	6.242E-05	A	G	*MEF2C-AS1*	0	ncRNA_intronic	0.033	ND	4	15	**3.05E-08**	-0.081	**9.42E-09**	0.016
11	5	rs12658032	103904226	103723455	104082179	6.925E-03	A	G	*RP11-6N13.1*	0	ncRNA_intronic	3.375	7	9	15	1.15E-07	0.075	0.06856	-0.005
12	6	rs141547796	50615935	50491551	50934086	1.622E-04	G	A	*RP1-28O17.1*	11016	intergenic	7.742	7	9	15	9.64E-08	-0.137	3.44E-06	0.022
13	6	rs4839923	98274701	98214814	98328774	1.699E-03	G	A	*RP11-436D23.1*	0	ncRNA_intronic	2.008	7	5	15	1.90E-06	0.065	**1.12E-08**	-0.016
14	7	rs1978102	71750298	71681396	71849677	6.159E-03	C	T	*CALN1*	0	intronic	3.132	7	5	15	1.25E-05	0.059	**1.74E-15**	-0.022
15	7	rs10262192	114091753	114012911	114194615	1.762E-03	G	A	*FOXP2*	0	intronic	3.159	7	5	15	**3.66E-08**	0.074	0.02778	0.006
16	8	rs74760947	34352610	33790200	34820687	3.271E-05	A	G	*RP1-84O15.2*	148360	intergenic	4.429	6	5	15	**1.39E-08**	-0.180	1.38E-05	0.030
17	8	rs10956838	93404442	92976563	93450407	1.260E-03	A	C	*RP11-700E23.2*	11330	intergenic	0.729	7	5	15	1.28E-06	0.074	2.63E-05	-0.013
18	9	rs295268	86429305	86368660	86663514	6.215E-03	T	C	*GKAP1*	0	intronic	ND	7	5	5	1.27E-05	0.067	6.91E-05	0.012
19	10	rs3928823	8805857	8784773	8838901	7.396E-03	G	A	*RP11-575N15.1*	39605	intergenic	0.094	7	5	15	6.66E-07	-0.069	0.009764	0.007
20	10	rs12265655	106744534	106473048	106830537	4.544E-05	T	C	*SORCS3*	0	intronic	ND	6	9	15	**1.76E-08**	0.092	9.51E-05	-0.012
21	11	rs11821132	28630734	28591168	28694440	6.788E-04	T	G	*RP11-960D24.1*	69995	intergenic	8.151	6	5	15	5.72E-07	0.069	6.72E-05	-0.011
22	12	rs1427829	89760744	89726027	89776845	4.818E-06	A	G	*RP11-1109F11.3*	839	upstream	1.856	ND	5	5	**1.35E-09**	0.082	3.04E-05	-0.011
23	13	rs66931513	31633544	31614181	31652068	5.795E-03	A	G	*WDR95P*	17846	intergenic	4.831	5	5	15	1.09E-05	-0.065	7.73E-05	0.012
24	14	rs140802584	29419892	29396922	29677464	7.258E-03	A	G	*CTD-2384A14.1:RP11-148E17.1*	0	ncRNA_intronic	2.877	6	9	15	1.49E-05	-0.172	8.42E-05	0.033
25	14	rs2300861	33294781	33282232	33309495	5.016E-03	C	T	*AKAP6*	0	intronic	13.39	7	5	15	9.04E-06	-0.062	**1.85E-12**	0.020
26	14	rs12435486	98670849	98643863	98670849	9.675E-03	G	A	*RP11-61O1.1*	0	ncRNA_intronic	ND	5	1	15	2.64E-05	0.066	3.20E-07	-0.017
27	15	rs8039398	47730870	47730870	47904808	1.061E-03	T	C	*SEMA6D*	0	intronic	3.184	7	5	15	**2.99E-09**	-0.080	0.2091	0.003
28	16	rs11861310	5835841	5787856	5841406	6.236E-03	C	T	*RP11-420N3.2*	0	ncRNA_intronic	2.045	6	9	15	1.28E-05	0.066	2.27E-06	-0.014
29	16	rs212178	72578131	72096227	72741267	8.681E-04	G	A	*AC004158.2*	0	ncRNA_intronic	2.181	ND	5	15	**1.20E-08**	-0.117	0.03297	0.010
30	20	rs2024568	44732089	44680853	44749251	6.679E-03	T	C	*RPL13P2*	3273	intergenic	0.055	6	5	14	1.42E-05	0.068	7.28E-05	-0.012
31	21	rs992936	18417022	18417022	18448019	2.679E-04	T	C	*NEK4P1*	165764	intergenic	ND	5	5	15	1.78E-07	0.072	2.50E-06	-0.013

Table S4. Distinct genomic loci associated with both ADHD and educational attainment (EDU) at conjFDR<0.01

The most strongly associated lead SNPs in independent genomic loci are shown after merging regions < 250 KB apart into a single locus.

CADD = Combined Annotation-Dependent depletion score, which predict how deleterious the SNP effect is on protein structure/function (higher scores indicate more deleterious); RegulomeDB (RDB) scores predict likelihood of regulatory functionality (lower scores indicate higher likelihood); minChrState = minimum chromatin state across 127 tissue types (lower scores indicate more open chromatin); commonChrState = most common chromatin state in 127 tissue types. Also shown are p-values and effect sizes from the summary statistics on ADHD and EDU. We also display whether the loci were identified in previous GWAS. is_in_ADHD and is_in_EDU= TRUE means the loci were identified in previous GWAS (p<5.0E-8) and FALSE means the loci were not identified in previous GWAS (p≥5.0E-8). is_novel=True means is novel and False means not novel. The effect size is given as ln(OR) for ADHD and asβ regression coefficient for EDU. ND, not determined.

GenomicLocus	CHR	LEAD_SNP	LEAD_BP	MinBP	MaxBP	FDR	non_effect_allele	effect_allele	is_in_ADHD	is_in_EDU	is_novel	nearestGene	dist	func	CADD	RDB	minChrState	commonChrState	ADHD_pval	ADHD_effect_size	EDU_pval	EDU_effect_size
1	1	rs112984125	44183923	43760070	44480093	5.622E-08	G	A	**TRUE**	**TRUE**	FALSE	*ST3GAL3:RP11-184I16.4*	0	ncRNA_intronic	2.128	6	5	5	**1.08E-12**	-0.106	**2.11E-23**	0.018
2	2	rs55748262	10982635	10977585	10988762	2.492E-03	G	A	FALSE	**TRUE**	FALSE	*PDIA6*	4531	intergenic	0.678	5	5	9	2.94E-06	-0.085	**8.45E-14**	0.017
3	2	rs2676507	173729572	173717556	173767023	6.942E-03	G	A	FALSE	FALSE	**TRUE**	*RAPGEF4*	0	intronic	ND	ND	5	15	1.09E-05	-0.066	1.23E-06	0.009
4	3	rs28535523	49848414	49609477	49890967	4.986E-03	C	T	FALSE	**TRUE**	FALSE	*UBA7*	0	intronic	ND	5	3	4	8.25E-06	0.076	**1.38E-20**	-0.021
5	4	rs72678859	112406961	112303764	112503872	3.789E-03	C	T	FALSE	**TRUE**	FALSE	*RP11-255I10.1*	66048	intergenic	0.381	5	14	15	5.43E-06	-0.089	**1.94E-08**	0.013
6	5	rs13163845	3264389	3264389	3269633	3.337E-03	T	C	FALSE	**TRUE**	FALSE	*CTD-2029E14.1*	83042	intergenic	ND	6	5	15	4.51E-06	0.097	**2.10E-08**	-0.014
7	5	rs4916723	87854395	87514778	88269416	5.352E-05	A	C	**TRUE**	**TRUE**	FALSE	*LINC00461*	0	ncRNA_intronic	ND	5	2	15	**1.81E-08**	-0.078	**2.32E-13**	0.013
8	5	rs7733142	93322795	92995013	93494731	5.508E-03	C	A	FALSE	**TRUE**	FALSE	*FAM172A*	0	intronic	0.042	6	5	15	9.62E-06	0.074	**3.41E-08**	-0.011
9	5	rs12658032	103904226	103723455	104082179	2.550E-04	A	G	FALSE	**TRUE**	FALSE	*RP11-6N13.1*	0	ncRNA_intronic	3.375	7	9	15	1.15E-07	0.075	**3.05E-10**	-0.011
10	6	rs57349798	37486052	37368362	37488116	4.164E-03	G	A	FALSE	**TRUE**	FALSE	*RP1-153P14.8*	0	ncRNA_intronic	2.771	5	2	14	6.27E-06	-0.066	**7.60E-10**	0.011
11	6	rs78648104	50683009	50491551	50934086	5.223E-03	T	C	FALSE	FALSE	**TRUE**	*TFAP2D*	0	exonic	ND	4	9	13	3.24E-07	0.125	7.89E-07	-0.015
12	6	rs4839923	98274701	98214814	98328774	1.827E-03	G	A	FALSE	**TRUE**	FALSE	*RP11-436D23.1*	0	ncRNA_intronic	2.008	7	5	15	1.90E-06	0.065	**2.46E-15**	-0.014
13	7	rs61409925	1971226	1873756	2015047	8.469E-03	G	A	FALSE	**TRUE**	FALSE	*MAD1L1*	0	intronic	0.371	5	4	5	1.90E-05	-0.073	**2.31E-09**	0.013
14	7	rs1978102	71750298	71681396	71849677	6.510E-03	C	T	FALSE	**TRUE**	FALSE	*CALN1*	0	intronic	3.132	7	5	15	1.25E-05	0.059	**1.58E-18**	-0.015
15	7	rs2189010	114119430	113772805	114287116	3.607E-03	C	T	FALSE	FALSE	**TRUE**	*FOXP2*	0	intronic	1.735	ND	5	15	8.33E-06	-0.069	1.26E-06	0.009
16	8	rs4739249	21323694	21287105	21323694	4.623E-03	A	C	FALSE	**TRUE**	FALSE	*AC009695.1*	27844	intergenic	2.096	6	7	15	5.83E-06	0.082	9.46E-07	-0.011
17	8	rs57702155	93413679	93373516	93450407	2.911E-03	A	C	FALSE	**TRUE**	FALSE	*RP11-700E23.2*	2093	intergenic	0.16	5	5	15	1.28E-06	0.074	4.23E-07	-0.010
18	10	rs10786831	106614571	106569253	106640384	6.115E-03	T	G	FALSE	FALSE	**TRUE**	*SORCS3*	0	intronic	0.482	7	14	15	1.08E-05	0.060	1.14E-06	-0.009
19	11	rs11040490	49742774	49169853	50742657	6.601E-03	T	G	FALSE	FALSE	**TRUE**	*RP11-707M1.1*	0	ncRNA_intronic	0.319	6	9	15	1.28E-05	-0.103	1.62E-06	0.014
20	12	rs1427829	89760744	89721105	89794399	8.223E-03	A	G	**TRUE**	**TRUE**	FALSE	*RP11-1109F11.3*	839	upstream	1.856	ND	5	5	**1.35E-09**	0.082	3.64E-06	-0.008
21	15	rs281323	47754027	47675569	47904808	2.923E-05	T	C	**TRUE**	**TRUE**	FALSE	*SEMA6D*	0	intronic	4.666	5	5	15	**2.99E-09**	-0.080	**3.75E-11**	0.011
22	16	rs35999374	72509495	72283538	72741267	7.452E-03	T	C	FALSE	FALSE	**TRUE**	*AC004158.2*	0	ncRNA_intronic	2.834	6	5	15	1.05E-07	-0.119	1.49E-06	0.015
23	20	rs6032660	44730245	44680853	44749251	6.864E-03	G	A	FALSE	**TRUE**	FALSE	*RPL13P2*	1429	intergenic	1.845	6	5	14	1.36E-05	-0.068	**5.07E-09**	0.011
24	21	rs2898433	42337367	42335986	42378317	9.528E-03	C	T	FALSE	FALSE	**TRUE**	*YRDCP3*	100967	intergenic	0.12	6	5	15	1.04E-05	0.061	4.36E-06	0.008

Table S5. Distinct genomic loci associated with both ADHD and general intelligence (INT) at conjFDR<0.01

The most strongly associated lead SNPs in independent genomic loci are shown after merging regions < 250 KB apart into a single locus.
CADD = Combined Annotation-Dependent depletion score, which predict how deleterious the SNP effect is on protein structure/function (higher scores indicate more deleterious); RegulomeDB (RDB) scores predict likelihood of regulatory functionality (lower scores indicate higher likelihood); minChrState = minimum chromatin state across 127 tissue types (lower scores indicate more open chromatin); commonChrState = most common chromatin state in 127 tissue types. Also shown are p-values and effect sizes from the summary statistics on ADHD and INT. We also display whether the loci were identified in previous GWAS. is_in_ADHD and is_in_INT= TRUE means the loci were identified in previous GWAS (p<5.0E-8) and FALSE means the loci were not identified in previous GWAS (p≥5.0E-8). is_novel=True means is novel and False means not novel.
The effect size is given as ln(OR) for ADHD and as β regression coefficient for INT. ND, not determined.

GenomicLocus	CHR	LEAD_SNP	LEAD_BP	MinBP	MaxBP	FDR	non_effect_allele	effect_allele	is_in_ADHD	is_in_INT	is_novel	nearestGene	dist	func	CADD	RDB	minChrState	commonChrState	ADHD_pval	ADHD_effect_size	INT_pval	INT_effect_size
1	1	rs2842188	44014280	43858630	44455217	1.25E-04	T	C	**TRUE**	**TRUE**	FALSE	*PTPRF*	0	intronic	0.066	ND	2	7	**6.41E-10**	-0.087	**9.34E-09**	0.016
2	3	rs28535523	49848414	49609477	49890967	4.72E-03	C	T	FALSE	**TRUE**	FALSE	*UBA7*	0	intronic	ND	5	3	4	8.25E-06	0.076	2.65E-07	-0.019
3	3	rs6789751	71546744	71481192	71628286	9.86E-03	T	C	FALSE	**TRUE**	FALSE	*FOXP1*	0	intronic	ND	3a	2	7	2.92E-05	0.062	1.78E-06	-0.014
4	5	rs304132	88215594	88004101	88269416	1.25E-04	A	G	**TRUE**	**TRUE**	FALSE	*MEF2C-AS1*	0	ncRNA_intronic	0.033	ND	4	15	**3.05E-08**	-0.081	**9.42E-09**	0.016
5	6	rs78648104	50683009	50491551	50934086	3.62E-03	T	C	FALSE	FALSE	**TRUE**	*TFAP2D*	0	exonic	ND	4	9	13	3.24E-07	0.125	2.52E-06	-0.021
6	6	rs4839923	98274701	98214814	98328774	1.70E-03	G	A	FALSE	**TRUE**	FALSE	*RP11-436D23.1*	0	ncRNA_intronic	2.008	7	5	15	1.90E-06	0.065	**1.12E-08**	-0.016
7	7	rs1978102	71750298	71681396	71849677	6.16E-03	C	T	FALSE	**TRUE**	FALSE	*CALN1*	0	intronic	3.132	7	5	15	1.25E-05	0.059	**1.74E-15**	-0.022
8	8	rs74760947	34352610	33790200	34820687	8.83E-03	A	G	**TRUE**	FALSE	FALSE	*RP1-84O15.2*	148360	intergenic	4.429	6	5	15	**1.39E-08**	-0.180	1.38E-05	0.030
9	8	rs28707439	93070202	92976563	93448756	7.59E-03	A	G	FALSE	**TRUE**	FALSE	*RUNX1T1*	0	intronic	4.968	4	2	15	1.76E-05	0.069	**2.37E-11**	0.022
10	10	rs61867294	106569207	106473048	106768514	5.55E-03	A	G	FALSE	FALSE	**TRUE**	*SORCS3*	0	intronic	3.781	3a	2	15	2.05E-07	0.086	5.61E-06	-0.015
11	12	rs704067	89726027	89726027	89776845	9.36E-03	G	A	**TRUE**	FALSE	FALSE	*MRPS6P4*	12600	intergenic	3.134	7	5	15	**6.27E-09**	0.080	1.54E-05	-0.012
12	14	rs2300861	33294781	33282232	33309495	5.02E-03	C	T	FALSE	**TRUE**	FALSE	*AKAP6*	0	intronic	13.39	7	5	15	9.04E-06	-0.062	**1.85E-12**	0.020
13	14	rs12435486	98670849	98643863	98670849	9.68E-03	G	A	FALSE	FALSE	**TRUE**	*RP11-61O1.1*	0	ncRNA_intronic	ND	5	1	15	2.64E-05	0.066	3.20E-07	-0.017
14	16	rs11861310	5835841	5787856	5841406	6.24E-03	C	T	FALSE	**TRUE**	FALSE	*RP11-420N3.2*	0	ncRNA_intronic	2.045	6	9	15	1.28E-05	0.066	2.27E-06	-0.014
15	21	rs987982	18420938	18417022	18448019	3.29E-03	C	T	FALSE	FALSE	**TRUE**	*NEK4P1*	161848	intergenic	6.339	6	5	15	4.51E-07	-0.069	2.12E-06	0.013

Table S6. Distinct genomic loci associated with ADHD given educational attainment (EDU) and general intelligence (INT) at conjFDR<0.01 or condFDR<0.01

The most strongly associated lead SNPs in independent genomic loci are shown after merging regions < 250 KB apart into a single locus.
CADD = Combined Annotation-Dependent depletion score, which predict how deleterious the SNP effect is on protein structure/function (higher scores indicate more deleterious); RegulomeDB (RDB) scores predict likelihood of regulatory functionality (lower scores indicate higher likelihood); minChrState = minimum chromatin state across 127 tissue types (lower scores indicate more open chromatin); commonChrState = most common chromatin state in 127 tissue types. Also shown are p-values and effect sizes from the summary statistics on ADHD, EDU and INT, as well as the deCODE (Demontis et al 2019) and EAGLE (Middledorp et al 2016) ADHD samples . We also display whether the loci were identified in previous GWAS. is_in ADHD, is_in_EDU and is_in_INT= TRUE means the loci were identified in previous GWAS (p<5.0E-8) and FALSE means the loci were not identified in previous GWAS (p ≥5.0E-8). is_novel_for_ADHD=True means is novel and False means not novel. The effect size is given as ln(OR) for ADHD, β regression coefficient for EDU and INT and z-score for EAGLE. ** Loci previously associated with ADHD after conditioning on educational attainment (Shadrin et al 2018).
Shared_locus=conjFDR<0.01 for ADHD&EDU and/or ADHD&INT. ND, not determined.

GenomicLocus	LEAD_SNP	CHR	MinBP	MaxBP	ADHD|EDU condFDR	ADHD&EDU conjFDR	ADHD|INT condFDR	ADHD&INT conjFDR	Shared_locus	non_effect_allele	effect_allele	is_in_ADHD	is_in_EDU	is_in_INT	is_novel_for_ADHD	nearestGene	dist	func	CADD	RDB	minChrState	commonChrState	ADHD_pval	EDU_val	INT_pval	EAGLE_pval	deCODE_pval	ADHD_effect_size	EDU_effect_size	INT_effect_size	EAGLE_effect_size	deCODE_effect_size
1**	rs112984125	1	43760070	44480093	**5.622E-08**	**5.622E-08**	**3.898E-08**	**5.068E-04**	**TRUE**	G	A	**TRUE**	**TRUE**	**TRUE**	FALSE	*KDM4A-AS1:ST3GAL3*	0	ncRNA_intronic	ND	2b	1	1	**1.08E-12**	**2.11E-23**	8.61E-08	2.454E-02	7.227E-01	-0.106	0.018	0.016	-2.248	-0.008
2	rs2391734	1	96597502	96670536	**1.553E-03**	1.923E-01	2.766E-02	1.000E+00	FALSE	G	T	**TRUE**	FALSE	FALSE	FALSE	*RNU1-130P*	86865	intergenic	0.584	6	15	15	6.70E-08	7.81E-03	8.60E-01	8.251E-01	5.864E-01	0.085	0.005	-0.001	0.221	0.012
3	rs55748262	2	10977585	10988762	**2.492E-03**	**2.492E-03**	**4.150E-03**	4.614E-02	**TRUE**	G	A	FALSE	**TRUE**	FALSE	**TRUE**	*PDIA6*	4531	intergenic	0.678	5	5	9	2.94E-06	**8.45E-14**	3.00E-04	1.862E-01	3.887E-01	-0.085	0.017	0.013	1.322	-0.022
4	rs2676507	2	173717556	173767023	**5.955E-03**	**6.942E-03**	2.948E-01	9.305E-01	**TRUE**	G	A	FALSE	FALSE	FALSE	**TRUE**	*RAPGEF4*	0	intronic	ND	ND	5	15	1.09E-05	1.23E-06	5.98E-01	4.597E-01	2.465E-01	-0.067	0.009	0.002	-0.739	-0.024
5	rs79699670	2	178586977	179119891	**6.818E-03**	9.253E-02	4.494E-02	5.049E-01	FALSE	G	A	FALSE	FALSE	FALSE	**TRUE**	*RBM45*	0	intronic	5.251	7	4	5	2.36E-06	1.08E-03	6.23E-02	5.160E-01	3.529E-01	-0.210	0.016	0.013	0.649	-0.077
6	rs13023832	2	215081228	215219808	**9.270E-03**	9.997E-01	ND	ND	FALSE	G	A	**TRUE**	**TRUE**	FALSE	FALSE	*SPAG16:AC107218.3*	0	ncRNA_intronic	2.339	7	14	15	9.33E-08	1.37E-01	ND	9.737E-01	9.735E-01	0.115	-0.033	ND	-0.033	-0.001
7	rs4858241	3	20424488	20717763	**1.892E-04**	1.051E-01	**2.410E-03**	6.905E-01	FALSE	T	G	**TRUE**	**TRUE**	FALSE	FALSE	*RNU6-815P*	119822	intergenic	0.63	6	9	15	**8.17E-09**	1.89E-03	2.29E-01	3.996E-01	7.942E-02	0.083	-0.005	0.003	0.842	-0.037
8	rs12493769	3	43254633	43591405	5.161E-02	2.576E-01	**9.620E-03**	2.764E-02	FALSE	A	G	FALSE	FALSE	FALSE	**TRUE**	*SNRK:ANO10*	0	intronic	0.446	5	4	15	2.09E-05	1.53E-02	1.19E-04	9.370E-01	5.229E-02	-0.081	0.006	0.015	-0.079	0.058
9	rs28535523	3	49609477	49890967	**4.986E-03**	**4.986E-03**	**4.721E-03**	**4.721E-03**	**TRUE**	C	T	FALSE	**TRUE**	**TRUE**	**TRUE**	*UBA7*	0	intronic	ND	5	3	4	8.25E-06	**1.38E-20**	2.65E-07	1.199E-01	2.875E-03	0.076	-0.021	-0.019	1.555	0.082
10	rs6789751	3	71481192	71628286	1.097E-02	1.097E-02	**9.86E-03**	**9.86E-03**	**TRUE**	T	C	FALSE	**TRUE**	**TRUE**	**TRUE**	*FOXP1*	0	intronic	ND	3a	2	7	2.92E-05	**1.84E-09**	1.78E-06	1.343E-01	1.013E-02	0.062	-0.011	-0.014	1.497	-0.059
11	rs11710737	3	107464170	107470613	**3.842E-03**	1.514E-02	1.243E-02	1.132E-01	FALSE	A	G	FALSE	FALSE	FALSE	**TRUE**	*BBX*	0	intronic	1.568	6	4	5	5.55E-06	1.89E-05	1.55E-03	9.349E-01	7.468E-01	0.062	-0.007	-0.009	0.082	0.007
12	rs7634587	3	107501282	107516847	1.789E-02	2.708E-01	**9.560E-03**	1.755E-01	FALSE	A	G	FALSE	FALSE	FALSE	**TRUE**	*BBX*	0	intronic	1.997	6	4	5	2.20E-06	2.14E-02	3.76E-03	7.709E-01	3.699E-01	0.064	-0.004	-0.008	0.291	0.019
13	rs28522755	4	31116254	31161251	3.141E-02	8.895E-01	**3.819E-03**	3.442E-01	FALSE	A	G	**TRUE**	FALSE	FALSE	FALSE	*PCDH7*	1520	intergenic	1.889	6	5	15	1.53E-07	7.56E-01	1.88E-02	6.617E-01	1.327E-01	0.078	0.001	-0.007	0.438	-0.034
14	rs1484144	4	80186915	80233882	**4.105E-03**	5.372E-02	1.472E-01	9.259E-01	FALSE	T	C	FALSE	FALSE	FALSE	**TRUE**	*LINC01088:NAA11*	0	ncRNA_intronic	1.933	6	5	15	1.98E-06	1.61E-04	5.89E-01	2.952E-01	6.701E-01	0.064	0.006	0.001	1.047	-0.009
15	rs227372	4	103603949	103675108	2.099E-02	8.693E-01	**8.547E-04**	1.508E-01	FALSE	T	C	FALSE	FALSE	FALSE	**TRUE**	*MANBA*	0	intronic	0.668	ND	4	5	8.43E-08	6.00E-01	2.74E-03	4.432E-01	1.779E-01	-0.078	0.001	0.009	-0.767	0.030
16	rs72678859	4	112303764	112503872	**3.789E-03**	**3.789E-03**	8.591E-02	5.542E-01	**TRUE**	C	T	FALSE	**TRUE**	FALSE	**TRUE**	*RP11-255I10.1*	66048	intergenic	0.381	5	14	15	5.43E-06	**1.94E-08**	8.89E-02	1.340E-01	5.042E-02	-0.090	0.013	0.007	-1.499	-0.062
17	rs62338074	4	176717470	176754093	**5.921E-03**	2.166E-02	9.039E-02	5.079E-01	FALSE	T	C	FALSE	FALSE	FALSE	**TRUE**	*GPM6A*	0	intronic	1.714	5	1	15	8.47E-06	2.51E-05	6.36E-02	7.488E-01	2.040E-01	0.062	-0.007	-0.005	-0.320	0.027
18	rs13163845	5	3264389	3269633	**3.337E-03**	**3.337E-03**	2.509E-02	2.650E-01	**TRUE**	T	C	FALSE	**TRUE**	FALSE	**TRUE**	*CTD-2029E14.1*	83042	intergenic	ND	6	5	15	4.51E-06	**2.10E-08**	9.58E-03	5.267E-01	3.787E-01	0.097	-0.014	-0.010	0.633	-0.026
19	rs13176429	5	43054747	43193052	**8.511E-03**	2.851E-01	**7.845E-03**	3.211E-01	FALSE	T	C	FALSE	FALSE	FALSE	**TRUE**	*ZNF131*	0	intronic	0.985	7	4	5	5.03E-07	2.45E-02	1.55E-02	9.461E-02	1.634E-01	-0.074	0.004	0.007	-1.672	-0.030
20**	rs4916723	5	87514778	88269416	**5.352E-05**	**5.352E-05**	**3.122E-03**	**1.25E-04**	**TRUE**	A	C	**TRUE**	**TRUE**	FALSE	FALSE	*LINC00461*	0	ncRNA_intronic	ND	5	2	15	**1.81E-08**	**2.32E-13**	1.44E-01	4.865E-03	3.437E-01	-0.078	0.013	0.004	-2.816	0.020
21	rs7733142	5	92995013	93494731	**5.508E-03**	**5.508E-03**	2.019E-01	7.348E-01	**TRUE**	C	A	FALSE	**TRUE**	FALSE	**TRUE**	*FAM172A*	0	intronic	0.042	6	5	15	9.62E-06	**3.41E-08**	2.93E-01	8.644E-01	4.690E-01	0.074	-0.011	-0.003	0.171	-0.018
22	rs12658032	5	103682279	104082179	**2.202E-04**	**2.550E-04**	**6.925E-03**	5.183E-01	**TRUE**	A	G	FALSE	**TRUE**	FALSE	**TRUE**	*RP11-6N13.1*	0	ncRNA_intronic	3.375	7	9	15	1.15E-07	**3.05E-10**	6.86E-02	4.092E-01	5.837E-03	0.076	-0.011	-0.005	0.825	0.060
23	rs57349798	6	37368362	37488116	**4.164E-03**	**4.164E-03**	6.048E-02	4.389E-01	**TRUE**	G	A	FALSE	**TRUE**	FALSE	**TRUE**	*RP1-153P14.8*	0	ncRNA_intronic	2.771	5	2	14	6.27E-06	**7.60E-10**	3.86E-02	7.098E-01	3.349E-01	-0.064	0.011	0.006	-0.372	-0.020
24	rs141547796	6	50491551	50934086	**2.398E-04**	**5.223E-03**	**1.622E-04**	**4.285E-03**	**TRUE**	G	A	FALSE	**TRUE**	FALSE	**TRUE**	*RP1-28O17.1*	11016	intergenic	7.742	7	9	15	9.64E-08	1.40E-05	3.44E-06	5.462E-01	1.068E-01	-0.136	0.013	0.022	0.603	-0.068
25	rs4839923	6	98214814	98328774	**1.827E-03**	**1.827E-03**	**1.699E-03**	**1.699E-03**	**TRUE**	G	A	FALSE	**TRUE**	**TRUE**	**TRUE**	*RP11-436D23.1*	0	ncRNA_intronic	2.008	7	5	15	1.90E-06	**2.46E-15**	**1.12E-08**	3.182E-01	3.677E-01	0.064	-0.014	-0.016	0.998	-0.019
26	rs61409925	7	1873756	2081425	**5.653E-03**	**8.469E-03**	1.990E-01	9.762E-01	**TRUE**	G	A	FALSE	**TRUE**	FALSE	**TRUE**	*MAD1L1*	0	intronic	0.371	5	4	5	1.90E-05	**2.31E-09**	6.97E-01	8.080E-02	3.037E-02	-0.073	0.013	0.003	-1.746	-0.058
27	rs1978102	7	71681396	71849677	**6.510E-03**	**6.510E-03**	**6.159E-03**	**6.159E-03**	**TRUE**	C	T	FALSE	**TRUE**	**TRUE**	**TRUE**	*CALN1*	0	intronic	3.132	7	5	15	1.25E-05	**1.58E-18**	**1.74E-15**	1.670E-01	9.631E-01	0.060	-0.015	-0.022	1.382	0.001
28	rs9969232	7	113772805	114287116	**9.586E-05**	**3.707E-03**	1.474E-02	9.336E-01	**TRUE**	G	A	**TRUE**	**TRUE**	FALSE	FALSE	*FOXP2*	0	intronic	5.096	7	5	15	**3.87E-08**	1.65E-06	6.05E-01	2.107E-03	3.905E-02	0.081	-0.009	-0.001	3.075	-0.046
29	rs3757541	7	121954709	122004780	**3.486E-03**	2.106E-01	4.881E-02	9.886E-01	FALSE	A	G	FALSE	FALSE	FALSE	**TRUE**	*CADPS2*	0	intronic	0.737	ND	5	15	2.04E-07	5.72E-03	7.26E-01	2.741E-01	4.084E-01	-0.074	0.005	-0.001	-1.094	0.018
30	rs1532744	8	745496	786916	**8.935E-03**	1.401E-01	1.562E-02	2.662E-01	FALSE	A	G	FALSE	FALSE	FALSE	**TRUE**	*ERICH1-AS1*	0	ncRNA_intronic	0.286	ND	5	15	2.07E-06	2.46E-03	9.68E-03	1.155E-01	4.017E-01	-0.064	0.005	0.007	-1.574	0.018
31	rs4383968	8	12662159	12709650	**9.360E-03**	9.299E-02	1.989E-01	7.216E-01	FALSE	T	C	FALSE	**TRUE**	FALSE	**TRUE**	*LINC00681*	0	ncRNA_intronic	2.391	7	5	15	1.01E-05	1.34E-04	2.72E-01	9.144E-01	3.656E-02	-0.083	0.009	0.004	0.108	0.060
32	rs4739249	8	21287105	21323694	**3.966E-03**	**4.623E-03**	8.431E-02	5.389E-01	**TRUE**	A	C	FALSE	**TRUE**	FALSE	**TRUE**	*AC009695.1*	27844	intergenic	2.096	6	7	15	5.83E-06	9.46E-07	7.96E-02	1.741E-02	8.811E-01	0.081	-0.011	-0.006	-2.378	-0.004
33	rs74760947	8	33790200	34820687	**5.563E-03**	8.077E-01	**3.271E-05**	**8.829E-03**	**TRUE**	A	G	**TRUE**	FALSE	FALSE	FALSE	*RP1-84O15.2*	148360	intergenic	4.429	6	5	15	**1.39E-08**	5.31E-01	1.38E-05	2.429E-01	3.674E-01	-0.180	-0.003	0.030	-1.168	-0.037
34**	rs10956838	8	92976563	93450407	**1.365E-03**	**4.134E-03**	**1.260E-03**	**7.59E-03**	**TRUE**	A	C	FALSE	**TRUE**	FALSE	FALSE	*RP11-700E23.2*	11330	intergenic	0.729	7	5	15	1.28E-06	4.23E-07	2.63E-05	3.289E-01	1.136E-02	0.074	-0.010	-0.013	0.976	-0.057
35	rs295268	9	86368660	86663514	1.955E-02	1.141E-01	**6.215E-03**	2.049E-02	FALSE	T	C	FALSE	**TRUE**	FALSE	**TRUE**	*GKAP1*	0	intronic	ND	7	5	5	1.27E-05	2.14E-03	6.91E-05	9.478E-01	5.083E-01	0.067	0.006	0.012	0.066	-0.015
36	rs3928823	10	8784773	8838901	**1.855E-03**	4.685E-02	**7.396E-03**	2.672E-01	FALSE	G	A	FALSE	FALSE	FALSE	**TRUE**	*RP11-575N15.1*	39605	intergenic	0.094	7	5	15	6.66E-07	6.47E-05	9.76E-03	2.217E-02	1.406E-01	-0.069	0.007	0.007	-2.287	0.032
37	rs220370	10	24562507	24593057	**4.988E-03**	1.471E-02	3.053E-01	1.000E+00	FALSE	T	C	FALSE	FALSE	FALSE	**TRUE**	*KIAA1217*	0	intronic	2.944	ND	5	15	8.25E-06	1.13E-05	7.72E-01	5.803E-01	3.607E-01	0.062	-0.008	-0.002	0.553	-0.019
38	rs10786831	10	106473048	106830537	**5.254E-04**	**6.115E-03**	**4.544E-05**	**5.55E-03**	**TRUE**	T	G	FALSE	FALSE	FALSE	**TRUE**	*SORCS3*	0	intronic	0.482	7	14	15	1.08E-05	1.14E-06	9.51E-05	1.279E-01	6.568E-01	0.060	-0.009	-0.012	1.522	0.009
39	rs28633403	11	780321	825777	**7.556E-03**	2.747E-01	2.874E-02	6.374E-01	FALSE	G	A	FALSE	FALSE	FALSE	**TRUE**	*RPLP2*	383	downstream	0.893	4	3	4	4.46E-07	1.23E-02	1.62E-01	2.418E-01	5.306E-01	0.071	-0.004	-0.004	-1.170	-0.013
40	rs4275621	11	28591168	28709434	**5.273E-04**	2.707E-02	**3.406E-03**	2.781E-01	FALSE	A	G	FALSE	FALSE	FALSE	**TRUE**	*RP11-960D24.1*	47733	intergenic	ND	7	7	15	2.03E-07	3.90E-05	1.08E-02	9.296E-02	5.738E-04	0.074	-0.007	-0.007	1,680	-0.074
41	rs11040490	11	48414295	51341194	**3.433E-03**	**6.601E-03**	1.216E-01	7.683E-01	**TRUE**	T	G	FALSE	FALSE	FALSE	**TRUE**	*RP11-707M1.1*	0	ncRNA_intronic	0.319	6	9	15	1.28E-05	1.62E-06	3.41E-01	2.745E-02	6.317E-02	-0.103	0.014	-0.017	2.205	0.057
42	rs1791794	11	61412128	61514670	**3.407E-03**	3.320E-02	4.177E-02	4.803E-01	FALSE	A	G	FALSE	**TRUE**	FALSE	**TRUE**	*DAGLA*	10816	intergenic	6.044	4	2	14	2.45E-06	4.78E-05	5.21E-02	4.682E-01	8.340E-01	-0.069	0.007	0.006	-0.725	-0.005
43	rs7953911	12	49939645	50163074	**8.496E-03**	1.932E-02	8.343E-02	3.954E-01	FALSE	T	C	FALSE	**TRUE**	FALSE	**TRUE**	*KCNH3*	0	intronic	0.395	4	4	5	1.66E-05	2.14E-05	2.79E-02	7.709E-01	8.285E-01	0.099	-0.012	-0.010	0.291	0.008
44	rs10400419	12	66383320	66389968	**3.522E-03**	2.438E-02	6.402E-02	5.414E-01	FALSE	T	C	FALSE	FALSE	FALSE	**TRUE**	*HMGA2*	29892	intergenic	1.671	5	2	15	3.41E-06	6.76E-05	8.10E-02	4.583E-01	2.018E-01	-0.067	0.007	0.009	-0.742	-0.026
45	rs1427829	12	89726027	89776845	**6.962E-06**	**8.223E-03**	**4.818E-06**	**9.36E-03**	**TRUE**	A	G	**TRUE**	**TRUE**	FALSE	FALSE	*RP11-1109F11.3*	839	upstream	1.856	ND	5	5	**1.35E-09**	3.64E-06	3.04E-05	9.125E-01	3.160E-01	0.083	-0.008	-0.011	-0.110	0.021
46	rs66931513	13	31614181	31652068	1.034E-02	4.857E-02	**5.795E-03**	2.177E-02	FALSE	A	G	FALSE	**TRUE**	FALSE	**TRUE**	*WDR95P*	17846	intergenic	4.831	5	5	15	1.09E-05	1.29E-04	7.73E-05	5.094E-02	9.007E-01	-0.064	0.007	0.012	-1.952	0.003
47	rs140802584	14	29396922	29677464	1.579E-02	7.490E-02	**7.258E-03**	2.284E-02	FALSE	A	G	FALSE	**TRUE**	**TRUE**	**TRUE**	*CTD-2384A14.1:RP11-148E17.1*	0	ncRNA_intronic	2.877	6	9	15	1.49E-05	1.22E-03	8.42E-05	ND	5.133E-02	-0.173	0.016	0.033	ND	0.096
48	rs2300861	14	33282232	33309495	1.316E-02	8.374E-02	**5.016E-03**	**5.016E-03**	**TRUE**	C	T	FALSE	**TRUE**	**TRUE**	**TRUE**	*AKAP6*	0	intronic	13.39	7	5	15	9.04E-06	9.18E-04	**1.85E-12**	1.965E-01	4.014E-01	-0.062	0.006	0.020	-1.292	0.018
49	rs12435486	14	98643863	98670849	2.998E-02	1.251E-01	**9.675E-03**	**9.675E-03**	**TRUE**	G	A	FALSE	FALSE	FALSE	**TRUE**	*RP11-61O1.1*	0	ncRNA_intronic	ND	5	1	15	2.64E-05	1.44E-03	3.20E-07	8.554E-01	1.544E-01	0.064	-0.006	-0.017	-0.182	0.034
50	rs8039398	15	47675569	47971793	**1.314E-05**	**3.721E-05**	**1.061E-03**	6.761E-01	**TRUE**	T	C	**TRUE**	**TRUE**	FALSE	FALSE	*SEMA6D*	0	intronic	3.184	7	5	15	**2.99E-09**	**3.75E-11**	2.09E-01	3.625E-01	4.703E-01	-0.081	0.011	0.003	-0.911	0.015
51	rs11861310	16	5787856	5841406	1.629E-02	8.850E-02	**6.236E-03**	**6.236E-03**	**TRUE**	C	T	FALSE	**TRUE**	**TRUE**	**TRUE**	*RP11-420N3.2*	0	ncRNA_intronic	2.045	6	9	15	1.28E-05	5.66E-04	2.27E-06	5.039E-01	8.518E-02	0.064	-0.007	-0.014	-0.668	0.040
52	rs1428102	16	17996826	18062164	**8.555E-03**	1.043E-01	1.363E-01	7.843E-01	FALSE	G	A	FALSE	FALSE	FALSE	**TRUE**	*RPL7P47*	136	upstream:downstream	3.982	ND	9	15	2.98E-06	9.10E-04	3.65E-01	8.290E-01	7.580E-01	0.064	-0.006	-0.003	0.216	-0.007
53	rs13369918	16	61775810	61989366	**5.347E-03**	3.742E-02	2.385E-02	2.534E-01	FALSE	G	A	FALSE	FALSE	FALSE	**TRUE**	*CDH8*	0	intronic	15.26	ND	5	15	4.51E-06	1.92E-04	8.58E-03	4.067E-01	4.404E-01	0.062	-0.006	-0.007	0.830	0.016
54	rs212178	16	72096227	72741267	**3.914E-05**	**8.266E-03**	**8.681E-04**	4.177E-01	**TRUE**	G	A	**TRUE**	FALSE	FALSE	FALSE	*AC004158.2*	0	ncRNA_intronic	2.181	ND	5	15	**1.20E-08**	3.37E-06	3.30E-02	2.241E-01	8.343E-01	-0.117	0.013	0.010	-1.216	-0.007
55	rs4144756	18	39186059	39305154	**5.377E-03**	3.489E-01	4.708E-02	1.000E+00	FALSE	G	A	FALSE	FALSE	FALSE	**TRUE**	*RP11-188I24.1*	63972	intergenic	0.643	6	9	15	1.46E-07	2.08E-02	9.11E-01	3.811E-01	8.569E-01	0.076	-0.004	-0.001	0.876	0.004
56	rs2024568	20	44680853	44749251	**7.068E-03**	**7.068E-03**	**6.679E-03**	2.102E-02	**TRUE**	T	C	FALSE	**TRUE**	**TRUE**	**TRUE**	*RPL13P2*	3273	intergenic	0.055	6	5	14	1.42E-05	**3.37E-09**	**7.28E-05**	7.172E-04	1.660E-01	0.067	-0.012	-0.012	3.383	0.033
57	rs992936	21	18417022	18448019	**6.537E-04**	3.910E-02	**2.679E-04**	**3.602E-03**	**TRUE**	T	C	FALSE	FALSE	FALSE	**TRUE**	*NEK4P1*	165764	intergenic	ND	5	5	15	1.78E-07	1.45E-04	2.50E-06	9.515E-01	2.393E-01	0.071	-0.006	-0.013	-0.061	-0.024
58	rs2898433	21	42335986	42378317	**2.915E-03**	**9.528E-03**	1.860E-01	8.972E-01	**TRUE**	C	T	FALSE	FALSE	FALSE	**TRUE**	*YRDCP3*	117335	intergenic	2.889	6	9	15	1.04E-05	4.36E-06	5.37E-01	8.774E-01	8.982E-01	0.061	0.008	0.002	0.154	0.003

Table S7. All SNPs jointly associated with ADHD, EDU and INT having a conjFDR <0.10 and an r2≧0.6 with one of the independent significant SNPs

CADD = Combined Annotation-Dependent depletion score, which predict how deleterious the SNP effect is on protein structure/function (higher scores indicate more deleterious); RegulomeDB (RDB) scores predict likelihood of regulatory functionality (lower scores indicate higher likelihood); minChrState = minimum chromatin state across 127 tissue types (lower scores indicate more open chromatin); commonChrState = most common chromatin state in 127 tissue types. Also shown are p-values and effect sizes from the summary statistics on ADHD, EDU and INT. The effect size is given as ln(OR) for ADHD and as β regression coefficient for EDU and INT. ND, not determined.

SNP	Position	CHR	Allele 1	Allele 2	Independent Sign SNP	GenomicLocus	nearestGene	dist	func	CADD	RDB	minChrState	commonChrState	ADHD_pval	EDU_val	INT_pval	ADHD_effect_size	EDU_effect_size	INT_effect_size
rs1004291	43858630	1	A	G	rs112984125	1	*SZT2*	0	intronic	8.719	5	4	5	**3.653E-08**	**1.027E-11**	2.419E-04	-0.075	0.012	0.010
rs10749850	44205094	1	T	C	rs112984125	1	*ST3GAL3*	0	intronic	1.925	7	4	5	**6.929E-09**	**8.996E-18**	2.374E-05	0.087	-0.016	-0.013
rs10789436	44040966	1	T	G	rs112984125	1	*PTPRF*	0	intronic	ND	2b	4	5	**5.453E-09**	**2.157E-23**	1.710E-07	0.094	-0.021	-0.017
rs10890261	44052377	1	T	G	rs112984125	1	*PTPRF*	0	intronic	5.969	5	4	5	**1.357E-09**	**2.357E-23**	1.742E-07	0.098	-0.021	-0.017
rs10890275	44194216	1	T	G	rs112984125	1	*ST3GAL3*	0	intronic	2.799	7	4	5	**1.015E-09**	**1.654E-18**	3.585E-05	0.090	-0.017	-0.013
rs1098184	43786351	1	G	A	rs112984125	1	*TIE1*	0	intronic	2.314	6	4	15	2.117E-07	5.963E-02	ND	0.073	-0.027	ND
rs11172	43850473	1	G	A	rs112984125	1	*MED8*	0	UTR3	ND	6	4	4	7.923E-08	**7.682E-10**	1.192E-03	0.075	-0.011	-0.009
rs111888775	43808520	1	A	G	rs112984125	1	*MPL*	0	intronic	0.55	6	4	15	9.786E-08	**2.009E-10**	1.208E-03	-0.074	0.011	0.009
rs11210839	43845658	1	G	A	rs112984125	1	*MED8*	3929	intergenic	ND	6	4	5	6.562E-08	**2.997E-10**	2.121E-03	0.075	-0.011	-0.009
rs11210860	43982527	1	A	G	rs112984125	1	*PTPRF*	8330	intergenic	3.275	6	5	15	**1.820E-08**	**6.328E-23**	6.579E-08	-0.079	0.017	0.015
rs11210887	44076019	1	G	A	rs112984125	1	*PTPRF*	0	intronic	ND	6	4	4	**1.480E-10**	**4.757E-23**	6.998E-08	-0.093	0.018	0.016
rs11210892	44100084	1	G	A	rs112984125	1	*PTPRF*	10740	intergenic	7.636	5	5	15	**5.756E-09**	**4.968E-20**	2.956E-06	-0.083	0.017	0.013
rs11210899	44104466	1	T	G	rs112984125	1	*KDM4A*	11362	intergenic	0.024	6	5	15	4.697E-07	3.026E-01	ND	-0.077	0.017	ND
rs11210907	44191759	1	C	T	rs112984125	1	*ST3GAL3:RP11-184I16.4*	0	ncRNA_intronic	7.658	6	5	5	**9.515E-10**	**1.938E-18**	3.784E-05	-0.091	0.017	0.012
rs112984125	44173423	1	A	G	rs12410155	1	*KDM4A-AS1:ST3GAL3*	0	ncRNA_intronic	ND	2b	1	1	**1.083E-12**	**2.110E-23**	8.607E-08	-0.106	0.018	0.016
rs1143702	44086831	1	C	T	rs112984125	1	*PTPRF*	0	exonic	ND	ND	4	4	**8.998E-09**	**1.609E-19**	1.018E-05	-0.082	0.016	0.013
rs11577403	43989773	1	A	G	rs112984125	1	*PTPRF*	1084	intergenic	0.177	7	5	14	**2.173E-08**	**6.709E-23**	1.673E-07	-0.078	0.017	0.015
rs11587427	44243049	1	C	T	rs112984125	1	*ST3GAL3*	0	intronic	1.375	7	5	15	**1.382E-10**	**4.718E-18**	3.226E-05	0.098	-0.017	-0.013
rs11587504	43841744	1	C	T	rs112984125	1	*MED8*	7843	intergenic	5.594	5	4	5	6.244E-08	**2.225E-10**	1.862E-03	0.076	-0.011	-0.009
rs11590279	44244183	1	T	C	rs112984125	1	*ST3GAL3*	0	intronic	4.225	5	4	15	**1.087E-11**	**4.819E-22**	1.027E-07	-0.100	0.018	0.016
rs1198982	43782846	1	G	A	rs112984125	1	*TIE1*	0	intronic	5.542	2b	2	15	8.085E-08	**1.510E-09**	4.907E-03	0.075	-0.011	-0.008
rs1199036	43811405	1	A	G	rs112984125	1	*MPL*	0	intronic	3.216	4	5	15	8.425E-08	**2.063E-10**	1.134E-03	-0.075	0.011	0.009
rs1199038	43800001	1	T	C	rs112984125	1	*MPL*	3476	intergenic	5.657	6	5	15	9.300E-08	**2.277E-10**	1.435E-03	-0.074	0.011	0.009
rs1199039	43784956	1	G	A	rs112984125	1	*TIE1*	0	exonic	9.588	5	4	15	6.598E-08	**2.192E-09**	4.598E-03	0.075	-0.010	-0.008
rs12058355	43801186	1	G	A	rs112984125	1	*MPL*	2291	intergenic	0.621	6	5	15	1.031E-07	**3.245E-10**	1.017E-03	0.074	-0.011	-0.009
rs12076751	43792807	1	T	C	rs112984125	1	*TIE1*	4027	intergenic	ND	1f	5	15	1.696E-07	**5.434E-10**	1.302E-03	-0.073	0.011	0.009
rs12080079	44104574	1	G	T	rs112984125	1	*KDM4A*	11254	intergenic	0.601	6	5	15	1.456E-07	2.156E-02	ND	-0.081	0.036	ND
rs12089622	44033768	1	C	A	rs112984125	1	*PTPRF*	0	intronic	3.833	5	4	5	**3.342E-08**	**3.551E-20**	6.969E-08	-0.089	0.018	0.017
rs1209384	43765089	1	A	G	rs112984125	1	*TIE1*	1574	intergenic	0.028	5	5	15	4.074E-07	**8.435E-09**	2.735E-03	-0.072	0.010	0.008
rs1209702	43793899	1	A	C	rs112984125	1	*TIE1*	5119	intergenic	2.456	5	5	15	1.478E-07	**5.236E-10**	1.373E-03	-0.073	0.011	0.009
rs12119149	44243283	1	C	T	rs112984125	1	*ST3GAL3*	0	intronic	16.62	6	5	5	**2.812E-09**	**5.848E-18**	1.193E-05	-0.089	0.017	0.013
rs12401813	44263415	1	C	A	rs112984125	1	*ST3GAL3*	0	intronic	9.619	7	2	5	**3.231E-08**	**4.090E-13**	2.986E-06	0.079	-0.013	-0.013
rs1467808	43774292	1	C	T	rs112984125	1	*TIE1*	0	intronic	ND	ND	4	15	1.043E-07	**8.729E-10**	4.443E-03	0.074	-0.011	-0.008
rs1467809	43774437	1	G	A	rs112984125	1	*TIE1*	0	intronic	4.461	1f	4	15	7.558E-08	**1.032E-09**	5.259E-03	0.075	-0.011	-0.008
rs1556580	43769921	1	T	C	rs112984125	1	*TIE1*	0	intronic	1.873	4	1	15	1.392E-07	**5.862E-10**	5.187E-03	-0.073	0.011	0.008
rs1556581	43772190	1	A	G	rs112984125	1	*TIE1*	0	intronic	2.00	5	4	15	1.159E-07	**5.277E-10**	5.527E-03	-0.074	0.011	0.008
rs17370961	44001813	1	G	A	rs112984125	1	*PTPRF*	0	intronic	1.509	5	3	5	1.504E-05	7.495E-07	3.333E-02	0.084	-0.011	-0.008
rs17400240	43981847	1	T	C	rs112984125	1	*PTPRF*	9010	intergenic	ND	5	5	15	4.917E-05	9.178E-07	4.382E-02	-0.080	0.011	0.008
rs1749959	43807075	1	T	C	rs112984125	1	*MPL*	0	intronic	2.146	6	4	15	9.526E-08	**2.280E-10**	1.160E-03	-0.074	0.011	0.009
rs17573239	43871273	1	G	T	rs112984125	1	*SZT2*	0	intronic	3.277	2c	4	4	**4.839E-08**	**2.626E-12**	4.180E-05	0.075	-0.012	-0.011
rs1760669	43821856	1	T	C	rs112984125	1	*RP1-92O14.3*	0	ncRNA_intronic	0.045	ND	4	5	8.982E-08	**1.915E-10**	1.197E-03	-0.075	0.011	0.009
rs1760670	43812075	1	A	G	rs112984125	1	*MPL*	0	intronic	ND	ND	4	15	9.079E-08	**2.083E-10**	1.134E-03	-0.075	0.011	0.009
rs1889588	44012923	1	T	C	rs112984125	1	*PTPRF*	0	intronic	ND	5	4	5	**4.246E-08**	**6.384E-23**	6.778E-07	0.084	-0.019	-0.015
rs2004899	44045465	1	A	G	rs112984125	1	*PTPRF*	0	intronic	4.636	7	4	4	**1.273E-09**	**1.236E-23**	1.600E-07	0.098	-0.021	-0.017
rs2105028	43941352	1	T	C	rs112984125	1	*HYI-AS1*	18685	intergenic	0.816	ND	5	15	6.598E-08	**5.109E-19**	3.038E-07	-0.075	0.015	0.015
rs2152112	43877701	1	G	A	rs112984125	1	*SZT2*	0	UTR3	ND	7	4	5	6.466E-08	**7.192E-12**	4.704E-05	0.074	-0.012	-0.011
rs2152113	43983569	1	T	C	rs112984125	1	*PTPRF*	7288	intergenic	0.727	6	5	14	**1.967E-08**	**3.074E-23**	7.248E-08	-0.078	0.018	0.015
rs2275180	43773033	1	A	G	rs112984125	1	*TIE1*	0	intronic	0.938	5	4	15	**3.262E-08**	**2.262E-10**	5.086E-03	-0.077	0.011	0.008
rs2282226	43774878	1	T	C	rs112984125	1	*TIE1*	0	intronic	7.094	2b	4	15	8.234E-08	**2.417E-09**	4.237E-03	-0.075	0.010	0.008
rs2367724	44107428	1	C	T	rs112984125	1	*KDM4A*	8400	intergenic	1.518	6	5	15	**4.193E-09**	**1.952E-18**	1.555E-05	-0.083	0.016	0.012
rs2478978	44031657	1	T	C	rs112984125	1	*PTPRF*	0	intronic	7.758	2b	1	1	6.355E-08	**1.383E-23**	7.993E-08	0.087	-0.020	-0.018
rs2782638	43880124	1	G	A	rs112984125	1	*SZT2*	0	intronic	0.196	7	4	5	6.540E-08	**2.707E-12**	4.601E-05	0.074	-0.012	-0.011
rs2782639	44006339	1	G	A	rs112984125	1	*PTPRF*	0	intronic	2.577	5	2	7	**2.873E-08**	**1.227E-21**	6.964E-07	-0.083	0.018	0.015
rs2782640	44009033	1	C	T	rs112984125	1	*PTPRF*	0	intronic	5.981	5	2	5	**7.048E-10**	**2.734E-24**	**2.381E-08**	0.086	-0.018	-0.016
rs2782641	44013355	1	G	A	rs112984125	1	*PTPRF*	0	intronic	17.53	5	3	7	**3.156E-09**	**2.253E-24**	3.639E-07	0.083	-0.018	-0.014
rs2782642	43886321	1	G	A	rs112984125	1	*SZT2*	0	intronic	0.605	7	4	4	6.528E-08	**2.713E-12**	5.209E-05	0.074	-0.012	-0.011
rs2819330	44002957	1	A	G	rs112984125	1	*PTPRF*	0	intronic	ND	5	2	5	5.546E-08	**8.682E-21**	1.210E-06	0.082	-0.018	-0.015

rs2819332	44005280	1	A	G	rs112984125	1	*PTPRF*	0	intronic	5.989		5	4	5	1.603E-06	**3.995E-14**	2.414E-05	0.077	-0.015	-0.014
rs2819340	44039710	1	T	C	rs112984125	1	*PTPRF*	0	intronic	1.663		5	4	5	**3.750E-09**	**3.118E-23**	1.633E-07	0.095	-0.021	-0.017
rs2842171	44039850	1	G	A	rs112984125	1	*PTPRF*	0	intronic	4.918		5	4	5	**1.646E-10**	**9.778E-25**	**3.509E-08**	0.089	-0.018	-0.016
rs2842173	43958999	1	C	T	rs112984125	1	*PTPRF*	31858	intergenic	1.969	ND		5	15	3.632E-06	**2.860E-16**	8.373E-07	-0.070	0.015	0.015
rs2842178	44022027	1	A	G	rs112984125	1	*PTPRF*	0	intronic	1.645	ND		4	4	**6.642E-10**	**1.266E-25**	**2.207E-08**	-0.087	0.018	0.016
rs2842186	44035093	1	G	A	rs112984125	1	*PTPRF*	0	intronic	ND	ND		4	5	**2.312E-08**	**2.721E-23**	5.372E-08	-0.090	0.020	0.018
rs2842189	44007648	1	T	C	rs112984125	1	*PTPRF*	0	intronic	2.121	ND		2	7	**7.068E-10**	**2.875E-25**	**1.273E-08**	-0.086	0.018	0.016
rs2842194	44028962	1	A	G	rs112984125	1	*PTPRF*	0	intronic	9.865	ND		4	5	6.265E-08	**1.123E-23**	7.747E-08	0.087	-0.020	-0.018
rs2842198	43930738	1	A	G	rs112984125	1	*HYI-AS1*	8071	intergenic	0.056		7	2	15	**6.261E-09**	**1.301E-15**	1.566E-06	-0.081	0.014	0.014
rs2970610	44097530	1	T	C	rs112984125	1	*PTPRF*	8186	intergenic	1.036		6	5	15	**5.564E-09**	**6.607E-20**	4.949E-06	0.083	-0.017	-0.013
rs2991990	43779869	1	T	G	rs112984125	1	*TIE1*	0	intronic	13.33	ND		4	15	6.453E-08	**2.150E-09**	4.859E-03	-0.075	0.010	0.008
rs304303	44178070	1	T	G	rs112984125	1	*ST3GAL3:RP11-184I16.4*	0	ncRNA_intronic	3.392	ND		2	5	**1.226E-08**	**4.495E-18**	1.152E-05	0.085	-0.017	-0.013
rs3120044	43771090	1	G	A	rs112984125	1	*TIE1*	0	intronic	0.315		5	4	15	1.220E-07	**4.206E-10**	5.092E-03	0.074	-0.011	-0.008
rs3120122	43771660	1	G	A	rs112984125	1	*TIE1*	0	intronic	ND		5	4	15	2.181E-07	**4.874E-10**	3.355E-03	0.072	-0.011	-0.008
rs3120276	43779564	1	T	C	rs112984125	1	*TIE1*	0	exonic	0.173	2a		2	15	5.277E-08	**2.060E-09**	4.466E-03	-0.076	0.010	0.008
rs34898652	43974091	1	A	G	rs112984125	1	*PTPRF*	16766	intergenic	4.765		5	5	15	**1.752E-08**	**7.193E-23**	1.344E-07	-0.079	0.017	0.015
rs35732878	43807539	1	T	C	rs112984125	1	*MPL*	0	intronic	0.788		6	4	15	1.010E-07	**2.265E-10**	1.247E-03	-0.074	0.011	0.009
rs36018845	44026615	1	T	C	rs112984125	1	*PTPRF*	0	intronic	2.993		5	4	5	1.804E-05	2.310E-07	6.718E-02	-0.083	0.012	0.007
rs3768046	43766426	1	A	G	rs112984125	1	*TIE1*	237	upstream	2.837		4	1	15	1.960E-07	**1.293E-09**	6.989E-03	-0.073	0.011	0.008
rs3791101	44366250	1	A	G	rs112984125	1	*ST3GAL3*	0	intronic	ND		5	4	5	**5.300E-11**	**3.172E-14**	7.063E-04	-0.097	0.014	0.010
rs3791137	44050004	1	G	A	rs112984125	1	*PTPRF*	0	intronic	0.046	2b		4	5	**1.330E-09**	**1.240E-23**	1.350E-07	-0.098	0.021	0.017
rs3791138	44050027	1	A	C	rs112984125	1	*PTPRF*	0	intronic	0.003		4	4	5	**1.257E-09**	**1.126E-23**	2.072E-07	0.098	-0.021	-0.017
rs3828150	44050856	1	T	C	rs112984125	1	*PTPRF*	0	intronic	0.074		5	4	5	**1.717E-09**	**2.300E-23**	1.457E-07	0.097	-0.021	-0.017
rs3862228	44196945	1	C	T	rs112984125	1	*ST3GAL3*	0	intronic	0.96	ND		5	5	**1.011E-09**	**1.506E-18**	3.365E-05	-0.090	0.017	0.013
rs4141739	43842629	1	A	G	rs112984125	1	*MED8*	6958	intergenic	3.947		7	4	5	6.482E-08	**1.954E-10**	1.402E-03	-0.075	0.011	0.009
rs4141741	43843000	1	T	C	rs112984125	1	*MED8*	6587	intergenic	6.765		7	4	5	7.983E-08	**2.151E-10**	2.701E-03	-0.075	0.011	0.008
rs4660253	43761651	1	C	T	rs112984125	1	*TIE1*	5012	intergenic	4.541		4	1	7	2.010E-06	**6.814E-09**	1.212E-01	0.070	-0.010	-0.009
rs4660259	44194534	1	A	G	rs112984125	1	*ST3GAL3*	0	intronic	0.04		6	4	5	**1.170E-09**	**1.131E-18**	3.912E-05	0.090	-0.017	-0.012
rs4660260	44195353	1	T	C	rs112984125	1	*ST3GAL3*	0	intronic	0.722		6	5	5	**1.076E-09**	**1.667E-18**	1.735E-05	0.090	-0.017	-0.013
rs4660733	43941927	1	C	T	rs112984125	1	*HYI-AS1*	19260	intergenic	2.423		4	5	15	5.678E-08	**1.700E-19**	4.880E-07	0.075	-0.016	-0.014
rs4660743	44195404	1	C	T	rs112984125	1	*ST3GAL3*	0	intronic	2.937		7	5	5	**1.001E-09**	**1.316E-18**	3.373E-05	-0.090	0.017	0.013
rs4660756	44383914	1	T	C	rs112984125	1	*ST3GAL3*	0	intronic	0.112		7	5	5	**1.654E-10**	**2.510E-14**	1.196E-03	-0.095	0.014	0.010
rs489319	44131794	1	T	C	rs112984125	1	*KDM4A*	0	intronic	5.777	ND		4	4	**7.389E-10**	**9.500E-24**	8.358E-07	-0.088	0.018	0.014
rs492929	44068275	1	A	G	rs112984125	1	*PTPRF*	0	intronic	13.82		5	3	5	**3.656E-09**	**2.715E-15**	5.060E-04	-0.088	0.015	0.011
rs499257	44078384	1	T	C	rs112984125	1	*PTPRF*	0	intronic	7.578		5	4	5	**5.496E-09**	**9.570E-21**	2.332E-06	0.083	-0.017	-0.013
rs513373	44081389	1	T	C	rs112984125	1	*PTPRF*	0	intronic	0.485		7	4	4	2.485E-07	2.913E-02	ND	0.080	-0.035	ND
rs530373	44070032	1	A	G	rs112984125	1	*PTPRF*	0	intronic	0.066		4	4	4	7.661E-07	**1.037E-18**	1.811E-05	0.079	-0.017	-0.013
rs539096	44072420	1	A	G	rs112984125	1	*PTPRF*	0	intronic	7.185	3a		4	4	**4.440E-09**	**2.342E-23**	4.367E-07	0.094	-0.021	-0.017
rs541550	44109816	1	G	T	rs112984125	1	*KDM4A*	6012	intergenic	0.327	3a		5	15	5.201E-06	1.747E-02	ND	-0.080	0.038	ND
rs549845	44076469	1	G	A	rs112984125	1	*PTPRF*	0	intronic	1.944		7	4	4	**1.381E-10**	**7.023E-23**	1.016E-07	-0.093	0.018	0.016
rs55656032	44098739	1	C	T	rs112984125	1	*PTPRF*	9395	intergenic	0.626		6	5	15	**4.371E-08**	3.561E-02	ND	-0.087	0.034	ND
rs55663821	43883915	1	A	G	rs112984125	1	*SZT2*	0	intronic	ND		6	4	4	6.526E-08	**2.333E-12**	5.234E-05	-0.074	0.012	0.011
rs55935510	43883748	1	A	G	rs112984125	1	*SZT2*	0	intronic	15.25		6	4	4	6.562E-08	**2.149E-12**	5.783E-05	-0.074	0.012	0.011
rs573350	44057950	1	T	C	rs112984125	1	*PTPRF*	0	intronic	1.482		4	4	4	**1.331E-09**	**1.132E-23**	1.746E-07	0.098	-0.021	-0.017
rs597041	44118510	1	C	T	rs112984125	1	*KDM4A*	0	intronic	0.256		7	1	5	3.302E-05	**1.914E-11**	5.604E-04	0.056	-0.011	-0.010
rs603542	44079411	1	T	C	rs112984125	1	*PTPRF*	0	intronic	2.085		4	4	4	**4.337E-09**	**6.318E-20**	5.146E-06	0.084	-0.017	-0.013
rs61769613	44043553	1	G	A	rs112984125	1	*PTPRF*	0	intronic	13.53		5	4	5	2.409E-06	**4.440E-09**	2.287E-02	0.088	-0.013	-0.008
rs61769643	44052198	1	A	G	rs112984125	1	*PTPRF*	0	intronic	14.14		5	4	5	**5.435E-09**	**1.282E-15**	5.072E-04	-0.087	0.015	0.011
rs631248	44071221	1	G	A	rs112984125	1	*PTPRF*	0	exonic	ND		5	4	4	**8.810E-10**	**3.697E-24**	**2.721E-08**	-0.098	0.021	0.018
rs631758	44115054	1	A	C	rs112984125	1	*KDM4A*	774	upstream	4.645		5	1	1	1.407E-07	2.391E-02	ND	0.081	-0.036	ND
rs6429630	44107777	1	T	C	rs112984125	1	*KDM4A*	8051	intergenic	1.406		7	5	15	1.569E-07	3.371E-02	ND	0.081	-0.034	ND
rs6429631	44113441	1	T	C	rs112984125	1	-	-	intergenic	ND	ND	ND	ND		1.419E-07	ND	9.844E-05	0.081	ND	-0.012
rs6429636	44183540	1	G	T	rs112984125	1	*ST3GAL3:RP11-184I16.4*	0	ncRNA_intronic	0.006		6	5	5	**9.960E-10**	**3.688E-19**	4.288E-05	-0.090	0.017	0.012
rs652941	43836928	1	C	T	rs112984125	1	*ELOVL1*	3231	intergenic	3.478		5	4	5	7.493E-08	**2.137E-10**	1.479E-03	0.075	-0.011	-0.009
rs653953	44083015	1	G	A	rs112984125	1	*PTPRF*	0	intronic	6.796	2b		4	4	**9.588E-09**	**1.275E-19**	7.151E-06	-0.082	0.016	0.013
rs663618	44043105	1	T	C	rs112984125	1	*PTPRF*	0	intronic	3.148		5	4	5	**2.549E-09**	**1.945E-23**	2.275E-07	0.096	-0.021	-0.017
rs66559745	43844168	1	A	G	rs112984125	1	*MED8*	5419	intergenic	0.053		7	4	5	7.468E-08	**1.861E-10**	2.642E-03	-0.075	0.011	0.009
rs6690243	43767268	1	T	C	rs112984125	1	*TIE1*	0	intronic	0.972		6	1	15	1.054E-07	**1.343E-09**	7.503E-03	-0.074	0.011	0.008
rs674725	44061795	1	C	T	rs112984125	1	*PTPRF*	0	intronic	2.913		5	4	5	**2.578E-09**	**6.094E-23**	2.640E-07	-0.096	0.020	0.017
rs685756	43842171	1	G	A	rs112984125	1	*MED8*	7416	intergenic	ND		5	4	5	9.698E-08	**2.106E-10**	1.567E-03	0.074	-0.011	-0.009
rs710252	43803222	1	A	G	rs112984125	1	*MPL*	255	upstream	0.585		6	2	15	1.043E-07	**2.283E-10**	9.978E-04	-0.074	0.011	0.009
rs72669002	43821071	1	C	T	rs112984125	1	*RP1-92O14.3*	0	ncRNA_intronic	0.935		6	5	5	8.699E-08	**2.346E-10**	1.287E-03	0.075	-0.011	-0.009
rs72671139	43960607	1	G	T	rs112984125	1	*PTPRF*	30250	intergenic	3.165		7	5	15	6.306E-07	1.432E-07	7.078E-03	0.114	-0.014	-0.012
rs72678680	44240221	1	A	G	rs112984125	1	*ST3GAL3*	0	intronic	6.757		4	2	15	**1.613E-10**	**6.561E-18**	3.316E-05	-0.098	0.017	0.013
rs7520981	43760070	1	C	T	rs112984125	1	*TIE1*	6593	intergenic	0.06		4	5	7	1.123E-06	**7.754E-09**	1.343E-01	0.072	-0.010	-0.008
rs7543520	44243866	1	T	C	rs112984125	1	*ST3GAL3*	0	intronic	0.485		6	4	15	**2.818E-09**	**5.830E-18**	1.264E-05	0.089	-0.017	-0.013
rs7549876	43760236	1	T	G	rs112984125	1	*TIE1*	6427	intergenic	ND	2b		2	7	4.225E-07	**2.456E-09**	2.958E-01	-0.074	0.010	0.006

rs839752	43855546	1	G	A	rs112984125	1	*SZT2*	6	upstream:downstream	ND	2a	1	1	8.185E-08	**5.545E-10**	2.128E-03	0.075	-0.011	-0.009
rs839754	43855910	1	T	C	rs112984125	1	*SZT2*	0	intronic	9.621	4	1	1	8.010E-08	**4.785E-10**	2.073E-03	-0.075	0.011	0.009
rs839755	43856410	1	C	A	rs112984125	1	*SZT2*	0	intronic	3.439	5	1	2	8.982E-08	**4.326E-10**	2.230E-03	0.075	-0.011	-0.009
rs839760	43863495	1	T	C	rs112984125	1	*SZT2*	0	intronic	0.548	6	4	5	**3.878E-08**	**1.172E-11**	1.988E-04	-0.075	0.012	0.010
rs839763	43825644	1	C	T	rs112984125	1	*CDC20*	0	exonic	0.023	ND	1	5	8.368E-08	**2.083E-10**	1.427E-03	0.075	-0.011	-0.009
rs839765	43834998	1	G	A	rs112984125	1	*ELOVL1*	1301	intergenic	0.658	6	1	7	7.719E-08	9.153E-02	ND	0.075	-0.024	ND
rs839766	43837850	1	G	A	rs112984125	1	*ELOVL1*	4153	intergenic	ND	7	4	5	7.566E-08	**2.483E-10**	1.396E-03	0.075	-0.011	-0.009
rs839768	43871623	1	G	A	rs112984125	1	*SZT2*	0	intronic	5.513	2b	4	4	5.971E-08	**2.841E-12**	4.494E-05	0.074	-0.012	-0.011
rs839770	43873374	1	A	G	rs112984125	1	*SZT2*	0	intronic	1.305	6	4	4	6.254E-08	**3.069E-12**	4.908E-05	-0.074	0.012	0.011
rs839993	43803120	1	A	C	rs112984125	1	*MPL*	357	upstream	5.916	6	5	15	6.824E-08	**2.429E-10**	1.223E-03	-0.075	0.011	0.009
rs839995	43814864	1	C	T	rs112984125	1	*MPL*	0	intronic	7.439	4	1	1	1.004E-07	**2.324E-10**	1.169E-03	0.074	-0.011	-0.009
rs839996	43816532	1	C	T	rs112984125	1	*MPL*	0	intronic	0.053	6	5	5	1.021E-07	**1.928E-10**	1.205E-03	0.074	-0.011	-0.009
rs866332	43788858	1	T	C	rs112984125	1	*TIE1*	78	downstream	3.556	7	4	15	1.245E-07	**4.608E-10**	9.091E-04	-0.074	0.011	0.009
rs867605	43964954	1	T	C	rs112984125	1	*PTPRF*	25903	intergenic	8.564	5	5	15	1.366E-06	**1.247E-16**	3.407E-07	0.072	-0.015	-0.015
rs917294	44249485	1	A	G	rs112984125	1	*ST3GAL3*	0	intronic	2.752	ND	2	7	**4.821E-08**	**1.026E-12**	3.647E-05	0.088	-0.015	-0.013
rs9787240	44256468	1	G	A	rs112984125	1	*ST3GAL3*	0	intronic	ND	6	5	5	**1.197E-08**	**6.432E-15**	4.218E-07	0.082	-0.014	-0.015
rs9793527	43879011	1	C	T	rs112984125	1	*SZT2*	0	intronic	ND	6	4	5	6.524E-08	**6.017E-12**	5.143E-05	0.074	-0.012	-0.011
rs999288	43858637	1	G	A	rs112984125	1	*SZT2*	0	intronic	9.483	5	4	5	**3.763E-08**	**9.790E-12**	2.298E-04	0.075	-0.012	-0.010
rs11165552	96615662	1	C	T	rs2391734	2	*RNU1-130P*	75794	intergenic	2.741	5	5	15	3.386E-05	5.513E-03	5.508E-01	-0.058	-0.005	0.002
rs11165555	96620589	1	T	G	rs2391734	2	*RNU1-130P*	70867	intergenic	5.363	7	9	15	2.650E-05	5.841E-03	4.576E-01	0.058	0.005	-0.002
rs1146556	96628833	1	G	T	rs2391734	2	*RNU1-130P*	62623	intergenic	2.277	6	14	15	9.296E-06	5.497E-04	2.060E-01	-0.061	-0.006	-0.004
rs1146557	96634994	1	G	A	rs2391734	2	*RNU1-130P*	56462	intergenic	1.484	7	9	15	4.512E-06	5.796E-04	9.116E-01	-0.063	-0.006	0.000
rs116088775	96613551	1	A	G	rs2391734	2	*RNU1-130P*	77905	intergenic	0.553	5	9	15	3.356E-05	5.614E-03	5.262E-01	0.058	0.005	-0.002
rs12036796	96665379	1	G	A	rs2391734	2	*RNU1-130P*	26077	intergenic	9.424	6	9	15	7.889E-04	3.189E-02	7.163E-01	-0.047	-0.004	0.001
rs12161600	96617585	1	T	G	rs2391734	2	*RNU1-130P*	73871	intergenic	5.439	6	8	15	3.083E-05	5.389E-03	4.640E-01	0.058	0.005	-0.002
rs1222046	96620314	1	T	C	rs2391734	2	*RNU1-130P*	71142	intergenic	1.107	5	9	15	8.848E-06	4.213E-04	3.215E-01	0.061	0.006	0.003
rs1222047	96619726	1	C	T	rs2391734	2	*RNU1-130P*	71730	intergenic	0.005	ND	9	15	9.153E-06	4.526E-04	2.600E-01	-0.061	-0.006	-0.003
rs1222049	96619257	1	T	C	rs2391734	2	*RNU1-130P*	72199	intergenic	2.264	ND	9	15	9.927E-06	4.630E-04	2.351E-01	0.061	0.006	0.003
rs1222050	96618235	1	C	T	rs2391734	2	*RNU1-130P*	73221	intergenic	1.682	ND	8	15	1.135E-05	4.978E-04	2.955E-01	-0.060	-0.006	-0.003
rs1222056	96610334	1	T	C	rs2391734	2	*RNU1-130P*	81122	intergenic	18.24	ND	7	15	1.500E-05	4.835E-04	2.614E-01	0.059	0.006	0.003
rs1222057	96608337	1	C	T	rs2391734	2	*RNU1-130P*	83119	intergenic	0.055	ND	9	15	7.373E-06	4.403E-04	8.094E-01	-0.062	-0.006	-0.001
rs1222062	96606740	1	A	G	rs2391734	2	*RNU1-130P*	84716	intergenic	0.495	ND	9	15	1.504E-05	2.667E-01	ND	-0.059	-0.016	ND
rs1222064	96602385	1	T	C	rs2391734	2	*RNU1-130P*	89071	intergenic	1.387	ND	14	15	6.854E-07	3.859E-04	5.587E-01	0.077	0.007	0.002
rs1222067	96597502	1	C	A	rs2391734	2	*RNU1-130P*	93954	intergenic	1.075	ND	14	15	7.908E-07	3.967E-04	8.153E-01	-0.077	-0.007	-0.001
rs12407696	96608234	1	C	A	rs2391734	2	*RNU1-130P*	83222	intergenic	0.329	7	9	15	3.876E-05	5.240E-03	5.055E-01	-0.057	-0.005	0.002
rs12408282	96614936	1	C	T	rs2391734	2	*RNU1-130P*	76520	intergenic	1.672	7	9	15	3.466E-05	5.697E-03	5.772E-01	-0.058	-0.005	0.002
rs12410820	96621887	1	C	T	rs2391734	2	*RNU1-130P*	69569	intergenic	1.335	6	9	15	1.584E-05	3.462E-03	4.843E-01	-0.060	-0.005	0.002
rs12566943	96608946	1	C	T	rs2391734	2	*RNU1-130P*	82510	intergenic	3.945	5	9	15	3.830E-05	5.380E-03	4.552E-01	-0.057	-0.005	0.002
rs12567412	96610271	1	C	T	rs2391734	2	*RNU1-130P*	81185	intergenic	17.36	5	7	15	4.344E-05	6.199E-03	4.265E-01	-0.057	-0.005	0.002
rs12736598	96618505	1	C	T	rs2391734	2	*RNU1-130P*	72951	intergenic	1.483	6	8	15	2.925E-05	8.197E-03	5.131E-01	-0.058	-0.005	0.002
rs12756619	96619508	1	A	C	rs2391734	2	*RNU1-130P*	71948	intergenic	3.587	6	9	15	1.450E-03	2.165E-02	2.029E-01	0.047	0.004	-0.004
rs12760404	96620267	1	A	G	rs2391734	2	*RNU1-130P*	71189	intergenic	2.937	7	9	15	2.682E-05	5.643E-03	5.476E-01	0.058	0.005	-0.002
rs167689	96639663	1	G	A	rs2391734	2	*RNU1-130P*	51793	intergenic	0.483	7	14	15	4.169E-04	6.948E-02	ND	-0.048	-0.025	ND
rs17422841	96627332	1	A	C	rs2391734	2	*RNU1-130P*	64124	intergenic	2.381	7	9	15	1.710E-03	2.628E-02	1.970E-01	0.047	0.004	-0.004
rs17422897	96630199	1	C	T	rs2391734	2	*RNU1-130P*	61257	intergenic	0.035	4	9	15	7.677E-04	3.026E-02	6.150E-02	-0.051	-0.004	0.006
rs17423208	96643451	1	G	A	rs2391734	2	*RNU1-130P*	48005	intergenic	3.393	6	9	15	1.095E-03	2.423E-02	6.491E-02	-0.049	-0.004	0.006
rs17456766	96628326	1	A	G	rs2391734	2	*RNU1-130P*	63130	intergenic	0.744	6	14	15	1.692E-03	2.899E-02	1.787E-01	0.047	0.004	-0.004
rs17456877	96634079	1	A	G	rs2391734	2	*RNU1-130P*	57377	intergenic	4.085	7	9	15	9.889E-04	2.605E-02	7.516E-02	0.050	0.004	-0.006
rs17457031	96641963	1	C	T	rs2391734	2	*RNU1-130P*	49493	intergenic	0.91	7	14	15	9.572E-04	2.625E-02	6.993E-02	-0.050	-0.004	0.006
rs186502	96643081	1	C	T	rs2391734	2	*RNU1-130P*	48375	intergenic	1.231	ND	14	15	3.082E-04	1.032E-05	2.969E-02	-0.049	-0.007	-0.006
rs2139984	96616324	1	C	A	rs2391734	2	*RNU1-130P*	75132	intergenic	8.482	ND	5	15	3.317E-05	6.436E-03	5.464E-01	-0.058	-0.005	0.002
rs2139985	96616318	1	A	G	rs2391734	2	*RNU1-130P*	75138	intergenic	8.568	ND	5	15	3.396E-05	6.220E-03	5.607E-01	0.058	0.005	-0.002
rs2391734	96604591	1	T	G	rs2391734	2	*RNU1-130P*	86865	intergenic	0.584	6	15	15	6.699E-08	7.810E-03	8.600E-01	0.086	0.005	-0.001
rs321559	96638203	1	A	G	rs2391734	2	*RNU1-130P*	53253	intergenic	3.443	5	9	15	3.700E-04	1.571E-05	4.127E-02	0.048	0.007	0.006
rs321560	96638665	1	A	C	rs2391734	2	*RNU1-130P*	52791	intergenic	1.748	7	14	15	3.235E-04	5.473E-02	ND	0.049	0.026	ND
rs321583	96648533	1	A	G	rs2391734	2	*RNU1-130P*	42923	intergenic	2.964	ND	9	15	5.865E-04	9.277E-02	ND	0.047	0.023	ND
rs35164474	96654700	1	G	T	rs2391734	2	*RNU1-130P*	36756	intergenic	18.72	6	5	15	7.241E-04	2.021E-02	6.372E-02	-0.051	-0.004	0.006
rs517993	96650724	1	A	G	rs2391734	2	*RNU1-130P*	40732	intergenic	0.086	5	5	15	6.353E-04	1.112E-04	1.716E-01	0.046	0.007	0.004
rs60038960	96614845	1	T	C	rs2391734	2	*RNU1-130P*	76611	intergenic	1.833	6	9	15	3.467E-05	5.611E-03	5.429E-01	0.058	0.005	-0.002
rs61787089	96606452	1	A	G	rs2391734	2	*RNU1-130P*	85004	intergenic	0.745	7	9	15	2.375E-05	2.028E-01	ND	0.060	0.019	ND
rs61787090	96606467	1	A	G	rs2391734	2	*RNU1-130P*	84989	intergenic	0.726	7	9	15	5.764E-05	2.005E-01	ND	0.056	0.019	ND
rs71644387	96648908	1	C	T	rs2391734	2	*RNU1-130P*	42548	intergenic	1.042	ND	9	15	1.010E-03	2.454E-02	4.248E-02	-0.050	-0.004	0.006
rs72976530	96606219	1	G	T	rs2391734	2	*RNU1-130P*	85237	intergenic	2.274	6	9	15	2.305E-05	3.565E-01	ND	-0.059	-0.013	ND
rs74977483	96648910	1	T	C	rs2391734	2	*RNU1-130P*	42546	intergenic	0.179	6	9	15	1.008E-03	2.323E-02	4.918E-02	0.050	0.004	-0.006
rs7524820	96670536	1	G	A	rs2391734	2	*RNU1-130P*	20920	intergenic	1.353	7	9	15	9.205E-04	3.261E-02	6.675E-01	-0.046	-0.004	0.001
rs7545276	96621300	1	C	T	rs2391734	2	*RNU1-130P*	70156	intergenic	6.923	6	9	15	2.656E-05	6.253E-03	5.066E-01	-0.058	-0.005	0.002

rs7545478	96621510	1	C	T	rs2391734	2	*RNU1-130P*	69946	intergenic	1.789	7	9	15	2.599E-05	6.144E-03	4.941E-01	-0.058	-0.005	0.002
rs10184655	10982107	2	T	C	rs55748262	3	*PDIA6*	4003	intergenic	1.061	4	5	9	3.756E-05	**1.185E-10**	4.025E-04	-0.061	0.012	0.010
rs10184911	10988517	2	G	A	rs55748262	3	*AC092687.4*	0	intronic	1.238	5	5	15	8.180E-06	**1.630E-14**	1.538E-03	0.082	-0.018	-0.012
rs13387062	10987115	2	T	C	rs55748262	3	*AC092687.4*	587	upstream	2.496	5	1	15	8.000E-06	**1.065E-14**	9.442E-04	-0.082	0.018	0.013
rs1565321	10978634	2	G	A	rs55748262	3	*PDIA6*	530	upstream	ND	ND	5	14	2.664E-05	**1.738E-10**	4.386E-04	0.062	-0.012	-0.010
rs1565323	10978248	2	T	C	rs55748262	3	*PDIA6*	144	upstream	0.137	ND	1	14	2.697E-05	**1.620E-10**	4.024E-04	-0.062	0.012	0.010
rs1631885	10981931	2	A	C	rs55748262	3	*PDIA6*	3827	intergenic	0.558	7	5	9	6.702E-05	**4.217E-11**	1.240E-03	-0.059	0.012	0.010
rs1632749	10982038	2	T	C	rs55748262	3	*PDIA6*	3934	intergenic	2.205	3a	5	9	4.280E-05	**1.319E-10**	4.233E-04	-0.060	0.012	0.010
rs1686469	10986391	2	A	G	rs55748262	3	*AC092687.4*	1311	intergenic	3.197	ND	1	15	2.488E-05	**8.113E-11**	1.512E-03	-0.062	0.012	0.009
rs1686470	10983533	2	T	C	rs55748262	3	*AC092687.4*	4169	intergenic	4.618	ND	5	15	3.801E-05	**1.129E-10**	6.564E-04	-0.060	0.012	0.010
rs1686471	10983239	2	G	A	rs55748262	3	*AC092687.4*	4463	intergenic	1.959	ND	5	15	3.869E-05	**1.461E-10**	4.357E-04	0.060	-0.012	-0.010
rs1686473	10982750	2	A	G	rs55748262	3	*PDIA6*	4646	intergenic	2.088	ND	5	9	3.697E-05	6.486E-02	ND	-0.061	0.027	ND
rs1686474	10982552	2	A	G	rs55748262	3	*PDIA6*	4448	intergenic	0.376	ND	5	9	3.793E-05	**1.059E-10**	4.409E-04	-0.060	0.012	0.010
rs1686476	10979979	2	G	A	rs55748262	3	*PDIA6*	1875	intergenic	1.537	ND	5	14	2.828E-05	**1.851E-10**	6.232E-04	0.061	-0.012	-0.010
rs1686477	10979475	2	G	A	rs55748262	3	*PDIA6*	1371	intergenic	0.444	ND	5	14	2.688E-05	**1.724E-10**	5.063E-04	0.062	-0.012	-0.010
rs1734367	10978162	2	A	G	rs55748262	3	*PDIA6*	58	upstream	8.235	5	1	14	2.690E-05	**2.656E-10**	6.235E-04	-0.062	0.012	0.010
rs1734372	10981588	2	G	A	rs55748262	3	*PDIA6*	3484	intergenic	1.509	7	5	9	3.698E-05	**3.206E-10**	4.367E-04	0.061	-0.011	-0.010
rs1734374	10982157	2	A	G	rs55748262	3	*PDIA6*	4053	intergenic	2.347	4	5	9	3.765E-05	**1.102E-10**	3.982E-04	-0.061	0.012	0.010
rs1734375	10982264	2	C	T	rs55748262	3	*PDIA6*	4160	intergenic	5.309	4	5	9	3.701E-05	**1.182E-10**	4.355E-04	0.061	-0.012	-0.010
rs1734376	10982743	2	C	T	rs55748262	3	*PDIA6*	4639	intergenic	3.433	5	5	9	3.691E-05	**1.095E-10**	5.346E-04	0.061	-0.012	-0.010
rs1734377	10982762	2	T	C	rs55748262	3	*PDIA6*	4658	intergenic	6.911	5	5	9	3.695E-05	6.477E-02	ND	-0.061	0.027	ND
rs1734379	10983158	2	T	C	rs55748262	3	*AC092687.4*	4544	intergenic	0.09	6	5	15	3.735E-05	**1.175E-10**	5.216E-04	-0.061	0.012	0.010
rs1734380	10983405	2	T	C	rs55748262	3	*AC092687.4*	4297	intergenic	1.486	7	5	15	3.778E-05	**9.654E-11**	5.753E-04	-0.060	0.012	0.010
rs1734381	10983427	2	T	C	rs55748262	3	*AC092687.4*	4275	intergenic	0.326	7	5	15	3.773E-05	**9.649E-11**	5.105E-04	-0.060	0.012	0.010
rs1734383	10984698	2	T	C	rs55748262	3	*AC092687.4*	3004	intergenic	0.928	5	1	14	3.288E-05	**9.943E-11**	1.040E-03	-0.061	0.012	0.010
rs1734384	10984920	2	C	A	rs55748262	3	*AC092687.4*	2782	intergenic	0.851	7	1	14	3.085E-05	**7.604E-10**	6.736E-04	0.061	-0.012	-0.010
rs1734385	10984962	2	G	A	rs55748262	3	*AC092687.4*	2740	intergenic	ND	6	1	14	3.685E-05	**1.718E-10**	6.287E-04	0.061	-0.012	-0.010
rs1734386	10985116	2	T	C	rs55748262	3	*AC092687.4*	2586	intergenic	1.501	7	1	14	3.230E-05	**8.434E-11**	6.165E-04	-0.061	0.012	0.010
rs1734387	10985215	2	C	A	rs55748262	3	*AC092687.4*	2487	intergenic	2.236	6	1	14	3.223E-05	**8.704E-11**	5.441E-04	0.061	-0.012	-0.010
rs1734388	10985248	2	T	C	rs55748262	3	*AC092687.4*	2454	intergenic	1.084	6	1	14	3.218E-05	**9.004E-11**	1.002E-03	-0.061	0.012	0.010
rs1734389	10985364	2	C	T	rs55748262	3	*AC092687.4*	2338	intergenic	0.405	5	1	14	3.479E-05	**9.294E-11**	1.105E-03	0.061	-0.012	-0.010
rs1734393	10986232	2	T	C	rs55748262	3	*AC092687.4*	1470	intergenic	3.174	5	1	15	2.736E-05	**9.854E-11**	1.360E-03	-0.062	0.012	0.009
rs1734394	10986305	2	C	T	rs55748262	3	*AC092687.4*	1397	intergenic	ND	4	1	15	2.857E-05	**8.836E-11**	1.037E-03	0.061	-0.012	-0.010
rs2357817	10983122	2	C	T	rs55748262	3	*AC092687.4*	4580	intergenic	6.926	7	5	15	3.876E-05	**1.926E-10**	4.960E-04	0.060	-0.012	-0.010
rs2952623	10984565	2	G	T	rs55748262	3	*AC092687.4*	3137	intergenic	6.626	ND	1	14	3.196E-05	**1.148E-10**	1.026E-03	0.061	-0.012	-0.010
rs2969888	10985350	2	T	C	rs55748262	3	*AC092687.4*	2352	intergenic	ND	5	1	14	3.188E-05	**8.986E-11**	1.106E-03	-0.061	0.012	0.010
rs4669634	10976827	2	G	A	rs55748262	3	*PDIA6*	0	intronic	1.011	7	1	14	2.505E-04	**2.189E-10**	2.264E-03	0.054	-0.012	-0.009
rs55748262	10982635	2	A	G	rs55748262	3	*PDIA6*	4531	intergenic	0.678	5	5	9	2.944E-06	**8.451E-14**	2.997E-04	-0.085	0.017	0.013
rs6704744	10980215	2	A	G	rs55748262	3	*PDIA6*	2111	intergenic	0.187	2b	5	14	2.975E-06	**9.028E-14**	3.156E-04	-0.085	0.017	0.013
rs6737620	10980539	2	T	C	rs55748262	3	*PDIA6*	2435	intergenic	0.911	6	5	9	2.955E-06	**1.059E-13**	3.207E-04	-0.085	0.017	0.013
rs76076331	10977585	2	T	C	rs55748262	3	*PDIA6*	0	intronic	14.73	5	1	14	1.069E-05	**1.090E-15**	1.220E-03	-0.087	0.020	0.014
rs77966298	10984514	2	G	A	rs55748262	3	*AC092687.4*	3188	intergenic	2.615	4	1	14	7.988E-06	**2.031E-14**	4.767E-04	0.085	-0.018	-0.014
rs78113234	10985810	2	T	C	rs55748262	3	*AC092687.4*	1892	intergenic	5.076	5	1	14	7.246E-06	**9.653E-15**	4.293E-04	-0.083	0.018	0.014
rs9287724	10988588	2	A	C	rs55748262	3	*AC092687.4*	0	intronic	1.586	5	5	15	8.588E-06	**1.582E-14**	1.378E-03	-0.082	0.018	0.012
rs2113808	173730969	2	G	A	rs2676507	4	*RAPGEF4*	0	intronic	4.225	ND	5	15	2.323E-05	3.494E-06	6.395E-01	0.062	-0.008	-0.001
rs2357948	173720426	2	G	A	rs2676507	4	*RAPGEF4*	0	intronic	8.788	7	5	15	1.908E-03	8.839E-07	5.463E-01	0.044	-0.008	-0.002
rs2552999	173717556	2	C	T	rs2676507	4	*RAPGEF4*	0	intronic	1.156	ND	5	15	5.724E-04	2.372E-06	4.393E-01	0.049	-0.008	-0.002
rs2676507	173729572	2	A	G	rs2676507	4	*RAPGEF4*	0	intronic	ND	ND	5	15	1.086E-05	1.231E-06	5.982E-01	-0.066	0.009	0.002
rs140079311	179119891	2	T	C	rs79699670	5	*OSBPL6*	0	intronic	0.623	6	5	15	1.366E-04	1.491E-02	6.779E-01	-0.160	0.011	0.003
rs17636214	178877989	2	A	G	rs79699670	5	*PDE11A*	0	intronic	1.121	5	5	15	2.065E-06	3.155E-02	2.435E-01	-0.197	0.010	0.008
rs76338508	178741459	2	T	C	rs79699670	5	*PDE11A*	0	intronic	1.352	7	5	15	2.399E-06	7.992E-03	2.674E-01	-0.223	0.014	0.009
rs76591931	178586977	2	T	G	rs79699670	5	*PDE11A:AC012499.1*	0	ncRNA_intronic	ND	5	5	15	4.654E-06	2.474E-03	1.031E-01	-0.203	0.015	0.012
rs77704018	178608411	2	G	A	rs79699670	5	*PDE11A*	0	intronic	5.654	5	5	15	5.870E-06	4.212E-03	1.384E-01	0.200	-0.014	-0.011
rs79699670	178993329	2	A	G	rs79699670	5	*RBM45*	0	intronic	5.251	7	4	5	2.355E-06	1.083E-03	6.226E-02	-0.209	0.016	0.013
rs1017194	215087202	2	T	C	rs13023832	6	*SPAG16*	0	intronic	2.203	7	5	15	2.927E-05	7.945E-01	5.148E-01	0.087	0.001	0.003
rs10490502	215109558	2	A	C	rs13023832	6	*SPAG16*	0	intronic	2.389	7	7	15	1.391E-05	2.858E-01	3.264E-01	0.094	0.003	0.004
rs13010455	215100153	2	A	G	rs13023832	6	*SPAG16*	0	intronic	0.578	7	15	15	1.004E-05	2.857E-01	3.475E-01	0.096	0.003	0.004
rs13011112	215093437	2	G	A	rs13023832	6	*SPAG16*	0	intronic	2.003	6	15	15	1.827E-05	8.187E-01	3.243E-01	-0.089	-0.001	-0.004
rs13023832	215219808	2	A	G	rs13023832	6	*SPAG16:AC107218.3*	0	ncRNA_intronic	2.339	7	14	15	9.333E-08	1.366E-01	ND	0.115	-0.033	ND
rs16851644	215104440	2	G	A	rs13023832	6	*SPAG16*	0	UTR3	7.755	7	1	15	2.739E-05	8.091E-01	4.328E-01	-0.087	-0.001	-0.003
rs16851747	215181103	2	C	T	rs13023832	6	*SPAG16:AC107218.3*	0	ncRNA_intronic	5.673	7	5	15	9.457E-06	9.088E-01	3.927E-01	-0.091	0.000	-0.004
rs1912185	215194668	2	T	G	rs13023832	6	*SPAG16:AC107218.3*	0	ncRNA_intronic	7.749	7	5	15	1.342E-07	5.777E-01	1.773E-01	0.111	0.002	0.006
rs34471175	215152721	2	T	C	rs13023832	6	*SPAG16:AC107218.3*	0	ncRNA_intronic	2.702	6	15	15	1.151E-05	6.458E-01	2.807E-01	0.092	0.001	0.005
rs35966160	215081228	2	C	T	rs13023832	6	*SPAG16*	0	intronic	2.287	7	5	15	1.935E-04	9.829E-01	3.265E-01	-0.076	0.000	-0.004
rs6731110	215179277	2	A	C	rs13023832	6	*SPAG16:AC107218.3*	0	ncRNA_intronic	5.609	7	14	15	3.927E-06	8.599E-01	4.083E-01	0.095	0.001	0.004
rs6741126	215121752	2	T	C	rs13023832	6	*SPAG16:AC107218.3*	0	ncRNA_intronic	ND	7	5	15	2.538E-05	7.585E-01	4.043E-01	0.088	0.001	0.004
rs918355	215124932	2	T	C	rs13023832	6	*SPAG16:AC107218.3*	0	ncRNA_intronic	0.095	7	5	15	1.407E-05	5.336E-01	3.498E-01	0.093	0.002	0.004

rs9677504	215181889	2	A	G	rs13023832	6	*SPAG16:AC107218.3*	0	ncRNA_intronic	2.567	6	5	15	9.829E-08	6.668E-01	2.157E-01	0.113	0.001	0.006
rs1027776	20580051	3	T	C	rs4858241	7	*RNU6-815P*	30802	intergenic	1.375	7	9	15	1.641E-05	6.329E-05	7.611E-01	-0.060	0.007	0.001
rs1027777	20580104	3	T	C	rs4858241	7	*RNU6-815P*	30855	intergenic	5.539	7	9	15	1.878E-05	7.063E-05	7.282E-01	-0.059	0.007	0.001
rs1027778	20580127	3	G	T	rs4858241	7	*RNU6-815P*	30878	intergenic	7.997	7	9	15	1.799E-05	5.888E-05	7.540E-01	0.060	-0.007	-0.001
rs10440098	20578998	3	C	T	rs4858241	7	*RNU6-815P*	29749	intergenic	0.673	4	7	15	7.193E-05	3.076E-05	9.380E-01	0.055	-0.007	0.000
rs11915547	20741672	3	T	G	rs4858241	7	*RNU6-815P*	192423	intergenic	1.941	6	5	15	6.977E-06	9.097E-01	3.035E-02	-0.061	0.000	-0.006
rs11928374	20564559	3	C	T	rs4858241	7	*RNU6-815P*	15310	intergenic	2.785	6	5	15	2.427E-05	3.250E-03	3.638E-01	0.058	-0.005	-0.003
rs12637258	20478203	3	G	A	rs4858241	7	*RP11-669C19.1*	46148	intergenic	1.491	6	9	15	2.256E-06	1.328E-02	9.877E-01	0.068	-0.004	0.000
rs13082170	20538433	3	G	A	rs4858241	7	*RNU6-815P*	10702	intergenic	7.197	6	9	15	4.537E-06	3.971E-03	2.140E-01	0.064	-0.005	-0.004
rs13094122	20486008	3	T	C	rs4858241	7	*RP11-669C19.1*	53953	intergenic	1.792	7	9	15	2.386E-06	1.159E-02	9.330E-01	-0.067	0.005	0.000
rs142082736	20470382	3	G	A	rs4858241	7	-	-	intergenic	ND	ND	ND	ND	1.792E-06	ND	9.489E-01	0.069	ND	0.000
rs148627118	20470313	3	A	G	rs4858241	7	-	-	intergenic	ND	ND	ND	ND	1.799E-06	ND	9.689E-01	-0.069	ND	0.000
rs1500422	20720138	3	A	G	rs4858241	7	*RNU6-815P*	170889	intergenic	3.765	7	5	15	1.960E-07	3.858E-01	4.093E-02	-0.073	0.002	-0.006
rs1520052	20497334	3	T	C	rs4858241	7	*RNU6-815P*	51801	intergenic	0.793	ND	9	15	2.332E-06	1.185E-02	9.515E-01	-0.067	0.005	0.000
rs1520053	20495023	3	C	T	rs4858241	7	*RNU6-815P*	54112	intergenic	0.951	ND	9	15	1.956E-06	9.241E-03	8.349E-01	0.068	-0.005	0.001
rs1523351	20577473	3	T	C	rs4858241	7	*RNU6-815P*	28224	intergenic	2.108	6	5	15	7.805E-05	2.575E-05	9.990E-01	-0.054	0.007	0.000
rs1523352	20577197	3	T	C	rs4858241	7	*RNU6-815P*	27948	intergenic	1.975	ND	5	15	7.524E-05	2.928E-05	9.201E-01	-0.055	0.007	0.000
rs1523353	20577053	3	T	C	rs4858241	7	*RNU6-815P*	27804	intergenic	1.621	ND	5	15	7.507E-05	4.044E-05	9.369E-01	-0.055	0.007	0.000
rs1540801	20454969	3	G	A	rs4858241	7	*RP11-669C19.1*	22914	intergenic	3.712	5	5	15	1.466E-06	1.132E-02	9.664E-01	0.069	-0.005	0.000
rs1566478	20710619	3	C	T	rs4858241	7	*RNU6-815P*	161370	intergenic	ND	7	2	15	6.974E-06	9.827E-02	2.577E-01	0.069	-0.003	0.004
rs1566479	20710994	3	C	T	rs4858241	7	*RNU6-815P*	161745	intergenic	0.62	5	2	15	5.893E-06	1.056E-01	2.262E-01	0.069	-0.003	0.004
rs1604133	20722330	3	C	A	rs4858241	7	*RNU6-815P*	173081	intergenic	0.714	ND	5	15	1.066E-07	2.882E-01	5.727E-02	0.074	-0.002	0.005
rs1607659	20485862	3	A	G	rs4858241	7	*RP11-669C19.1*	53807	intergenic	9.827	7	9	15	1.144E-06	9.794E-03	8.780E-01	-0.070	0.005	0.000
rs17193310	20495221	3	G	T	rs4858241	7	*RNU6-815P*	53914	intergenic	3.477	6	9	15	2.377E-06	1.246E-02	9.119E-01	0.067	-0.005	0.000
rs17203361	20725113	3	G	A	rs4858241	7	*RNU6-815P*	175864	intergenic	2.785	7	5	15	7.412E-06	9.197E-01	3.498E-02	0.061	0.000	0.006
rs17809565	20738089	3	G	A	rs4858241	7	*RNU6-815P*	188840	intergenic	2.922	5	7	15	2.426E-06	1.053E-01	3.615E-01	0.071	-0.003	0.003
rs1846723	20719997	3	T	C	rs4858241	7	*RNU6-815P*	170748	intergenic	0.19	ND	5	15	1.000E-07	3.147E-01	4.639E-02	-0.074	0.002	-0.006
rs2008935	20705659	3	G	A	rs4858241	7	*RNU6-815P*	156410	intergenic	2.838	7	9	15	4.271E-06	1.257E-01	2.762E-01	0.070	-0.003	0.003
rs2036602	20605021	3	A	G	rs4858241	7	*RNU6-815P*	55772	intergenic	0.519	4	5	15	3.391E-07	1.694E-02	9.769E-01	-0.076	0.004	0.000
rs2174556	20517242	3	C	T	rs4858241	7	*RNU6-815P*	31893	intergenic	1.245	6	5	15	5.791E-06	3.564E-03	7.228E-01	0.064	-0.005	-0.001
rs2174557	20517271	3	C	T	rs4858241	7	*RNU6-815P*	31864	intergenic	1.452	6	5	15	1.648E-06	5.783E-03	6.118E-01	0.068	-0.005	-0.002
rs2886697	20724204	3	A	G	rs4858241	7	*RNU6-815P*	174955	intergenic	4.419	5	5	15	7.678E-08	3.298E-01	5.818E-02	-0.075	0.002	-0.005
rs34028349	20515315	3	C	T	rs4858241	7	*RNU6-815P*	33820	intergenic	3.806	6	5	15	1.464E-06	4.693E-03	4.968E-01	0.068	-0.005	-0.002
rs34063976	20457054	3	G	A	rs4858241	7	*RP11-669C19.1*	24999	intergenic	3.054	6	5	15	1.652E-06	1.073E-02	9.748E-01	0.069	-0.005	0.000
rs34295970	20475440	3	G	T	rs4858241	7	*RP11-669C19.1*	43385	intergenic	7.049	7	9	15	1.719E-06	1.069E-02	9.461E-01	0.069	-0.005	0.000
rs35012429	20456967	3	G	A	rs4858241	7	*RP11-669C19.1*	24912	intergenic	2.649	6	5	15	1.446E-06	1.142E-02	9.771E-01	0.069	-0.005	0.000
rs4019656	20673101	3	C	A	rs4858241	7	*RNU6-815P*	123852	intergenic	ND	6	9	15	9.380E-06	8.802E-02	2.299E-01	0.068	-0.003	0.004
rs4292253	20605302	3	C	T	rs4858241	7	*RNU6-815P*	56053	intergenic	5.573	5	5	15	3.490E-07	5.008E-03	9.598E-01	0.072	-0.005	0.000
rs4468996	20469296	3	C	T	rs4858241	7	*RP11-669C19.1*	37241	intergenic	1.114	7	8	15	1.803E-06	8.559E-03	9.940E-01	0.069	-0.005	0.000
rs4470543	20544243	3	T	G	rs4858241	7	*RNU6-815P*	4892	intergenic	8.746	7	9	15	3.958E-06	5.000E-03	1.994E-01	-0.064	0.005	0.004
rs4857947	20454661	3	T	G	rs4858241	7	*RP11-669C19.1*	22606	intergenic	8.688	6	5	15	1.478E-06	1.149E-02	9.667E-01	-0.069	0.005	0.000
rs4857958	20583264	3	T	C	rs4858241	7	*RNU6-815P*	34015	intergenic	2.987	7	7	15	1.713E-07	1.122E-02	9.562E-01	-0.077	0.005	0.000
rs4857960	20590877	3	C	T	rs4858241	7	*RNU6-815P*	41628	intergenic	ND	5	9	15	2.286E-07	3.316E-03	8.703E-01	0.074	-0.005	0.000
rs4857961	20590925	3	A	C	rs4858241	7	*RNU6-815P*	41676	intergenic	4.823	5	9	15	3.111E-07	2.528E-03	8.829E-01	-0.073	0.005	0.000
rs4857968	20714580	3	A	G	rs4858241	7	*RNU6-815P*	165331	intergenic	4.763	5	5	15	3.644E-06	8.768E-02	2.608E-01	-0.071	0.003	-0.004
rs4858202	20473721	3	T	C	rs4858241	7	*RP11-669C19.1*	41666	intergenic	0.032	7	9	15	1.187E-05	6.370E-03	9.038E-01	-0.062	0.005	0.000
rs4858212	20522900	3	T	C	rs4858241	7	*RNU6-815P*	26235	intergenic	6.798	5	5	15	6.066E-06	2.038E-03	2.412E-01	-0.063	0.005	0.003
rs4858218	20565304	3	T	C	rs4858241	7	*RNU6-815P*	16055	intergenic	0.09	7	5	15	8.490E-06	7.982E-03	3.355E-01	-0.063	0.005	0.003
rs4858219	20569193	3	T	G	rs4858241	7	*RNU6-815P*	19944	intergenic	0.995	5	5	15	8.299E-06	8.354E-03	3.062E-01	-0.063	0.005	0.003
rs4858222	20572238	3	A	G	rs4858241	7	*RNU6-815P*	22989	intergenic	2.754	7	15	15	7.218E-05	8.039E-03	4.140E-01	-0.055	0.005	0.002
rs4858223	20581149	3	T	C	rs4858241	7	*RNU6-815P*	31900	intergenic	2.125	7	7	15	2.157E-07	2.986E-03	8.272E-01	-0.075	0.005	-0.001
rs4858226	20591012	3	A	G	rs4858241	7	*RNU6-815P*	41763	intergenic	ND	5	9	15	3.115E-07	3.197E-03	8.984E-01	-0.073	0.005	0.000
rs4858241	20669071	3	G	T	rs4858241	7	*RNU6-815P*	119822	intergenic	0.63	6	9	15	**8.172E-09**	1.890E-03	2.293E-01	0.082	-0.005	0.003
rs4858250	20726642	3	A	G	rs4858241	7	*RNU6-815P*	177393	intergenic	0.919	7	5	15	7.346E-08	2.826E-01	4.400E-02	-0.075	0.002	-0.006
rs4858251	20726646	3	T	C	rs4858241	7	*RNU6-815P*	177397	intergenic	4.445	7	5	15	7.346E-08	2.826E-01	4.606E-02	-0.075	0.002	-0.006
rs4858253	20729091	3	T	C	rs4858241	7	*RNU6-815P*	179842	intergenic	1.686	7	9	15	5.522E-08	3.183E-01	6.417E-02	-0.075	0.002	-0.005
rs55686218	20724936	3	T	C	rs4858241	7	*RNU6-815P*	175687	intergenic	2.528	6	5	15	6.596E-08	4.570E-01	6.450E-02	-0.075	0.001	-0.005
rs55712289	20721919	3	T	C	rs4858241	7	*RNU6-815P*	172670	intergenic	1.203	7	5	15	9.669E-08	2.996E-01	5.426E-02	-0.074	0.002	-0.006
rs55964255	20742291	3	T	C	rs4858241	7	*RNU6-815P*	193042	intergenic	ND	5	5	15	2.445E-06	1.088E-01	3.852E-01	-0.071	0.003	-0.003
rs55983260	20617726	3	C	T	rs4858241	7	*RNU6-815P*	68477	intergenic	0.092	5	5	15	3.517E-07	4.949E-02	9.087E-01	0.075	-0.004	0.000
rs56135409	20725016	3	A	C	rs4858241	7	*RNU6-815P*	175767	intergenic	ND	7	5	15	5.265E-08	3.081E-01	5.845E-02	-0.076	0.002	-0.005
rs56168640	20712594	3	T	G	rs4858241	7	*RNU6-815P*	163345	intergenic	0.848	5	5	15	6.509E-06	9.852E-02	2.001E-01	-0.069	0.003	-0.004
rs56285459	20721818	3	G	A	rs4858241	7	*RNU6-815P*	172569	intergenic	1.701	7	5	15	8.923E-08	2.944E-01	5.153E-02	0.075	-0.002	0.006
rs62234988	20736873	3	C	T	rs4858241	7	*RNU6-815P*	187624	intergenic	3.596	7	9	15	2.673E-06	1.054E-01	3.669E-01	0.071	-0.003	0.003
rs62234991	20744496	3	A	G	rs4858241	7	*RNU6-815P*	195247	intergenic	3.153	6	9	15	2.148E-06	1.090E-01	3.871E-01	-0.071	0.003	-0.003
rs62234992	20748320	3	G	T	rs4858241	7	*RNU6-815P*	199071	intergenic	0.62	7	9	15	2.085E-06	1.104E-01	3.909E-01	0.072	-0.003	0.003

rs62237468	20689091	3	C	T	rs4858241	7	*RNU6-815P*	139842	intergenic	5.156	7	5	15	4.939E-06	8.094E-02	3.058E-01	0.070	-0.003	0.003
rs62237497	20713907	3	T	C	rs4858241	7	*RNU6-815P*	164658	intergenic	0.55	5	5	15	4.054E-06	8.178E-02	2.350E-01	-0.071	0.003	-0.004
rs62237499	20717763	3	G	T	rs4858241	7	*RNU6-815P*	168514	intergenic	1.387	7	5	15	2.333E-06	8.626E-02	2.916E-01	0.072	-0.003	0.003
rs62237502	20719402	3	A	G	rs4858241	7	*RNU6-815P*	170153	intergenic	0.402	7	5	15	1.852E-07	4.039E-01	4.672E-02	-0.073	0.002	-0.006
rs62237503	20719448	3	A	G	rs4858241	7	*RNU6-815P*	170199	intergenic	1.131	7	5	15	1.730E-07	4.096E-01	4.694E-02	-0.073	0.001	-0.006
rs62237504	20719807	3	T	C	rs4858241	7	*RNU6-815P*	170558	intergenic	0.2	7	5	15	1.751E-07	3.851E-01	4.913E-02	-0.073	0.002	-0.006
rs62241847	20466465	3	G	A	rs4858241	7	*RP11-669C19.1*	34410	intergenic	2.013	7	9	15	1.096E-06	1.057E-02	8.897E-01	0.070	-0.005	0.000
rs62242072	20594709	3	A	G	rs4858241	7	*RNU6-815P*	45460	intergenic	1.261	3a	5	15	5.901E-05	3.711E-02	9.996E-01	-0.056	0.004	0.000
rs62242075	20610495	3	A	G	rs4858241	7	*RNU6-815P*	61246	intergenic	1.245	7	5	15	3.265E-07	3.262E-03	9.317E-01	-0.072	0.005	0.000
rs62242077	20618712	3	G	T	rs4858241	7	*RNU6-815P*	69463	intergenic	1.526	7	5	15	3.015E-07	4.863E-03	9.323E-01	0.073	-0.005	0.000
rs62242105	20630395	3	A	G	rs4858241	7	*RNU6-815P*	81146	intergenic	3.038	5	7	15	6.916E-07	3.722E-03	8.993E-01	-0.073	0.005	0.000
rs62242112	20662735	3	T	C	rs4858241	7	*RNU6-815P*	113486	intergenic	4.551	7	5	15	1.638E-05	6.154E-02	2.737E-01	-0.066	0.004	-0.004
rs6801593	20465084	3	T	G	rs4858241	7	*RP11-669C19.1*	33029	intergenic	4.689	7	9	15	1.170E-06	1.190E-02	8.810E-01	-0.070	0.005	0.000
rs6807409	20478847	3	T	C	rs4858241	7	*RP11-669C19.1*	46792	intergenic	0.787	7	9	15	1.126E-05	1.190E-02	8.969E-01	-0.062	0.005	0.000
rs73025625	20592881	3	T	C	rs4858241	7	*RNU6-815P*	43632	intergenic	3.476	5	9	15	3.735E-07	2.693E-03	8.488E-01	-0.072	0.005	-0.001
rs73041017	20571461	3	T	C	rs4858241	7	*RNU6-815P*	22212	intergenic	ND	6	15	15	5.721E-06	1.009E-02	3.012E-01	-0.064	0.005	0.003
rs7618347	20576376	3	A	G	rs4858241	7	*RNU6-815P*	27127	intergenic	2.719	7	5	15	7.555E-05	3.046E-05	9.803E-01	-0.054	0.007	0.000
rs7620685	20552462	3	A	G	rs4858241	7	*RNU6-815P*	3213	intergenic	0.016	7	7	15	3.663E-06	4.310E-03	2.769E-01	-0.065	0.005	0.003
rs7630795	20703509	3	T	C	rs4858241	7	*RNU6-815P*	154260	intergenic	3.113	6	9	15	2.783E-06	1.322E-01	2.551E-01	-0.071	0.003	-0.004
rs7644505	20577602	3	T	C	rs4858241	7	*RNU6-815P*	28353	intergenic	ND	7	5	15	7.403E-05	3.226E-05	9.039E-01	-0.055	0.007	0.000
rs7644564	20703682	3	G	A	rs4858241	7	*RNU6-815P*	154433	intergenic	3.355	7	9	15	2.787E-06	1.107E-01	2.543E-01	0.072	-0.003	0.004
rs7646891	20577813	3	A	C	rs4858241	7	*RNU6-815P*	28564	intergenic	0.112	6	5	15	7.593E-05	2.711E-05	9.078E-01	-0.054	0.007	0.000
rs7652778	20576495	3	G	A	rs4858241	7	*RNU6-815P*	27246	intergenic	9.819	6	5	15	7.792E-05	3.054E-05	9.873E-01	0.054	-0.007	0.000
rs79490491	20470933	3	A	G	rs4858241	7	-	-	intergenic	ND	ND	ND	ND	1.795E-06	ND	9.929E-01	-0.069	ND	0.000
rs969167	20578377	3	G	A	rs4858241	7	*RNU6-815P*	29128	intergenic	ND	6	5	15	7.213E-05	3.461E-05	ND	0.055	-0.007	ND
rs969168	20578462	3	G	A	rs4858241	7	*RNU6-815P*	29213	intergenic	1.196	6	5	15	7.241E-05	3.306E-05	9.604E-01	0.055	-0.007	0.000
rs969169	20578590	3	A	C	rs4858241	7	*RNU6-815P*	29341	intergenic	0.581	7	5	15	7.452E-05	2.994E-05	9.419E-01	-0.055	0.007	0.000
rs9824283	20578028	3	A	G	rs4858241	7	*RNU6-815P*	28779	intergenic	4.363	7	5	15	7.311E-05	3.549E-05	8.989E-01	-0.055	0.007	0.000
rs9843917	20577938	3	C	T	rs4858241	7	*RNU6-815P*	28689	intergenic	0.246	6	5	15	7.367E-05	3.603E-05	9.183E-01	0.055	-0.007	0.000
rs993279	20557951	3	A	G	rs4858241	7	*RNU6-815P*	8702	intergenic	1.859	5	7	15	4.025E-06	4.664E-03	2.716E-01	-0.065	0.005	0.003
rs10510737	43548659	3	G	A	rs12493769	8	*ANO10*	0	intronic	ND	7	5	15	4.969E-04	1.872E-03	7.656E-04	-0.075	0.009	0.015
rs113758058	43535282	3	T	C	rs12493769	8	*ANO10*	0	intronic	6.902	7	5	15	5.434E-04	1.745E-03	6.387E-04	0.075	-0.009	-0.015
rs113875112	43523763	3	C	T	rs12493769	8	*ANO10*	0	intronic	6.057	7	5	15	5.183E-04	1.880E-03	5.182E-04	-0.075	0.008	0.015
rs115638313	43476816	3	A	C	rs12493769	8	*ANO10*	0	intronic	6.338	7	5	15	4.502E-05	3.827E-03	1.291E-04	0.080	-0.007	-0.016
rs116652041	43399709	3	A	C	rs12493769	8	*SNRK:ANO10*	0	intergenic	9.549	5	5	15	1.978E-04	4.825E-03	1.994E-04	0.073	-0.007	-0.015
rs11709892	43322021	3	T	C	rs12493769	8	*SNRK*	5982	intergenic	0.606	6	5	15	6.869E-04	2.806E-02	1.427E-02	0.058	-0.005	-0.008
rs12493769	43459624	3	G	A	rs12493769	8	*SNRK:ANO10*	0	intronic	0.446	5	4	15	2.093E-05	1.530E-02	1.193E-04	-0.081	0.006	0.015
rs1317402	43302377	3	A	G	rs12493769	8	*SNRK*	25626	intergenic	ND	7	5	15	3.288E-04	3.189E-03	7.852E-05	0.068	-0.007	-0.015
rs1320160	43303085	3	G	A	rs12493769	8	*SNRK*	24918	intergenic	5.688	6	5	15	3.307E-04	3.450E-03	1.130E-04	-0.068	0.007	0.014
rs1320161	43303127	3	G	A	rs12493769	8	*SNRK*	24876	intergenic	3.059	6	5	15	3.471E-04	2.971E-03	9.958E-05	-0.067	0.007	0.015
rs1320162	43303197	3	C	T	rs12493769	8	*SNRK*	24806	intergenic	1.871	7	5	15	3.464E-04	3.011E-03	1.194E-04	-0.067	0.007	0.014
rs1320163	43303296	3	A	G	rs12493769	8	*SNRK*	24707	intergenic	3.188	6	5	15	3.484E-04	2.930E-03	1.080E-04	0.067	-0.007	-0.014
rs17075415	43303171	3	T	C	rs12493769	8	*SNRK*	24832	intergenic	ND	7	5	15	3.120E-04	3.214E-03	1.304E-04	0.068	-0.007	-0.015
rs17075754	43564734	3	C	T	rs12493769	8	*ANO10*	0	intronic	3.426	3a	2	15	5.502E-04	1.898E-03	7.275E-04	-0.074	0.008	0.015
rs17254504	43281598	3	A	G	rs12493769	8	*AC104434.1*	29234	intergenic	2.387	4	5	15	3.697E-04	2.114E-03	2.478E-04	0.067	-0.007	-0.014
rs17254786	43288627	3	A	C	rs12493769	8	*AC104434.1*	36263	intergenic	ND	4	2	15	3.903E-04	1.900E-03	2.341E-04	0.067	-0.007	-0.014
rs17320570	43286582	3	A	C	rs12493769	8	*AC104434.1*	34218	intergenic	ND	7	5	15	3.981E-04	1.941E-03	2.741E-04	0.066	-0.007	-0.014
rs17473118	43443534	3	A	G	rs12493769	8	*SNRK:ANO10*	0	intronic	6.838	7	4	15	4.230E-05	3.139E-03	1.131E-04	0.080	-0.007	-0.016
rs1842805	43591405	3	C	T	rs12493769	8	*ANO10*	0	intronic	ND	6	4	5	6.907E-04	1.390E-03	5.362E-04	-0.073	0.009	0.015
rs1996497	43302159	3	G	A	rs12493769	8	*SNRK*	25844	intergenic	0.365	4	5	15	3.745E-04	3.567E-03	1.119E-04	-0.067	0.007	0.015
rs2372350	43278653	3	T	C	rs12493769	8	*AC104434.1*	26289	intergenic	7.372	6	5	15	4.671E-04	2.057E-03	3.204E-04	0.066	-0.007	-0.014
rs2372351	43278884	3	A	C	rs12493769	8	*AC104434.1*	26520	intergenic	5.685	7	5	15	5.544E-04	2.481E-03	3.061E-04	0.065	-0.007	-0.014
rs2372360	43301454	3	C	T	rs12493769	8	*SNRK*	26549	intergenic	5.602	4	5	15	3.729E-04	2.856E-03	9.601E-05	-0.067	0.007	0.015
rs2372361	43303400	3	A	G	rs12493769	8	*SNRK*	24603	intergenic	5.568	7	5	15	3.452E-04	3.049E-03	1.101E-04	0.067	-0.007	-0.014
rs2372435	43505963	3	A	G	rs12493769	8	*ANO10*	0	intronic	2.183	7	5	15	5.275E-04	1.856E-03	5.311E-04	0.075	-0.009	-0.015
rs4504148	43278413	3	C	T	rs12493769	8	*AC104434.1*	26049	intergenic	1.652	5	5	15	4.119E-04	1.980E-03	2.846E-04	-0.066	0.007	0.014
rs55650554	43278403	3	T	C	rs12493769	8	*AC104434.1*	26039	intergenic	5.875	5	5	15	5.296E-04	1.708E-03	2.099E-04	0.065	-0.007	-0.014
rs55836177	43325094	3	G	A	rs12493769	8	*SNRK*	2909	intergenic	8.357	5	5	15	2.222E-04	5.298E-03	1.359E-04	-0.072	0.007	0.016
rs55919553	43296532	3	T	C	rs12493769	8	*SNRK*	31471	intergenic	0.112	5	5	15	2.687E-04	3.705E-03	1.056E-04	0.069	-0.007	-0.015
rs55988644	43293235	3	A	G	rs12493769	8	*SNRK*	34768	intergenic	1.662	6	5	15	3.178E-04	2.942E-03	1.388E-04	0.068	-0.007	-0.015
rs55990908	43299122	3	G	A	rs12493769	8	*SNRK*	28881	intergenic	6.485	7	2	15	3.193E-04	3.470E-03	1.304E-04	-0.068	0.007	0.015
rs56023784	43439423	3	C	T	rs12493769	8	*SNRK:ANO10*	0	intronic	6.978	6	5	15	2.116E-05	1.336E-02	1.553E-04	-0.081	0.006	0.015
rs56029819	43478295	3	C	T	rs12493769	8	*ANO10*	0	intronic	3.185	4	5	15	3.507E-05	2.154E-02	1.743E-04	-0.079	0.006	0.015
rs56032317	43257413	3	T	C	rs12493769	8	*AC104434.1*	5049	intergenic	7.887	4	5	15	8.004E-04	2.613E-03	2.964E-04	0.063	-0.007	-0.014

rs56053383	43271712	3	C	A	rs12493769	8	*AC104434.1*	19348	intergenic	6.615		7	5	15	6.776E-04	2.477E-03	2.922E-04	-0.064	0.007	0.014
rs56403804	43368021	3	A	G	rs12493769	8	*SNRK*	0	intronic	3.973		6	2	7	2.159E-04	5.408E-03	1.812E-04	0.072	-0.007	-0.015
rs56412846	43299359	3	A	G	rs12493769	8	*SNRK*	28644	intergenic	7.661		5	2	15	2.891E-04	3.412E-03	1.201E-04	0.068	-0.007	-0.015
rs56745072	43279161	3	T	C	rs12493769	8	*AC104434.1*	26797	intergenic	4.318		5	5	15	4.047E-04	2.181E-03	2.266E-04	0.066	-0.007	-0.014
rs57757985	43280417	3	A	G	rs12493769	8	*AC104434.1*	28053	intergenic	5.464		5	5	15	4.035E-04	2.208E-03	2.216E-04	0.066	-0.007	-0.014
rs60971695	43296737	3	T	C	rs12493769	8	*SNRK*	31266	intergenic	0.8		7	2	15	2.837E-04	3.384E-03	1.282E-04	0.068	-0.007	-0.015
rs6767019	43297689	3	C	A	rs12493769	8	*SNRK*	30314	intergenic	4.346		6	2	15	3.325E-04	3.060E-03	9.301E-05	-0.068	0.007	0.015
rs6772068	43552728	3	C	T	rs12493769	8	*ANO10*	0	intronic	5.042		5	5	15	5.109E-04	1.719E-03	7.078E-04	-0.075	0.009	0.015
rs6791341	43294878	3	A	G	rs12493769	8	*SNRK*	33125	intergenic	5.457		7	2	15	3.148E-04	2.692E-03	1.464E-04	0.068	-0.007	-0.015
rs6791526	43256744	3	T	C	rs12493769	8	*AC104434.1*	4380	intergenic	6.673		5	2	15	9.815E-04	2.982E-03	2.709E-04	0.062	-0.007	-0.014
rs6795944	43580243	3	T	C	rs12493769	8	*ANO10*	0	intronic	0.963		5	4	5	7.086E-04	1.442E-03	4.925E-04	0.073	-0.009	-0.016
rs6796424	43256792	3	G	A	rs12493769	8	*AC104434.1*	4428	intergenic	3.568		5	2	15	9.674E-04	3.179E-03	2.704E-04	-0.062	0.007	0.014
rs6801151	43297587	3	A	G	rs12493769	8	*SNRK*	30416	intergenic	5.343		6	2	15	2.780E-04	4.351E-03	1.116E-04	0.068	-0.007	-0.015
rs6802567	43537085	3	C	T	rs12493769	8	*ANO10*	0	intronic	0.961		5	5	15	7.685E-04	2.216E-03	9.139E-04	-0.072	0.008	0.015
rs6805108	43294659	3	G	A	rs12493769	8	*SNRK*	33344	intergenic	5.267		6	5	15	3.471E-04	2.650E-03	1.874E-04	-0.067	0.007	0.015
rs6808396	43294971	3	C	T	rs12493769	8	*SNRK*	33032	intergenic	ND		7	2	15	3.546E-04	3.384E-03	2.172E-04	-0.067	0.007	0.014
rs72865005	43501988	3	C	T	rs12493769	8	*ANO10*	0	intronic	0.581		5	5	15	5.215E-04	1.714E-03	5.491E-04	-0.075	0.009	0.015
rs72865013	43526814	3	T	C	rs12493769	8	*ANO10:RP11-353H3.1*	0	ncRNA_intronic	7.516		4	4	15	5.228E-04	1.814E-03	5.659E-04	0.075	-0.009	-0.015
rs72865025	43538293	3	T	C	rs12493769	8	*ANO10*	0	intronic	5.713		5	2	15	8.109E-04	1.751E-03	5.888E-04	0.072	-0.009	-0.015
rs72865027	43541195	3	C	T	rs12493769	8	*ANO10*	0	intronic	2.427		7	5	15	5.003E-04	1.780E-03	5.237E-04	-0.075	0.009	0.015
rs72865029	43544147	3	G	T	rs12493769	8	*ANO10*	0	intronic	2.082		7	4	15	4.984E-04	1.847E-03	4.518E-04	-0.075	0.009	0.016
rs73072908	43287656	3	A	G	rs12493769	8	*AC104434.1*	35292	intergenic	ND		6	5	15	3.901E-04	2.024E-03	2.858E-04	0.067	-0.007	-0.014
rs73072912	43293704	3	C	T	rs12493769	8	*SNRK*	34299	intergenic	2.523		7	5	15	3.796E-04	3.153E-03	2.056E-04	-0.067	0.007	0.015
rs73072920	43296804	3	A	G	rs12493769	8	*SNRK*	31199	intergenic	0.929		7	2	15	2.694E-04	3.659E-03	1.244E-04	0.069	-0.007	-0.015
rs73088726	43265247	3	C	A	rs12493769	8	*AC104434.1*	12883	intergenic	0.098	2b		5	15	6.137E-04	2.951E-03	2.959E-04	-0.064	0.007	0.014
rs73088732	43275405	3	A	G	rs12493769	8	*AC104434.1*	23041	intergenic	5.433		5	5	15	5.231E-04	2.124E-03	2.483E-04	0.065	-0.007	-0.014
rs73088738	43278052	3	A	C	rs12493769	8	*AC104434.1*	25688	intergenic	3.962		5	7	15	4.172E-04	2.186E-03	2.252E-04	0.066	-0.007	-0.014
rs73088748	43280321	3	T	C	rs12493769	8	*AC104434.1*	27957	intergenic	3.138		7	5	15	4.637E-04	2.269E-03	3.544E-04	0.066	-0.007	-0.014
rs73088757	43284397	3	A	G	rs12493769	8	*AC104434.1*	32033	intergenic	2.204		7	5	9	3.910E-04	2.033E-03	2.359E-04	0.066	-0.007	-0.014
rs73829200	43288386	3	A	G	rs12493769	8	*AC104434.1*	36022	intergenic	4.796	3a		2	15	3.917E-04	1.819E-03	1.838E-04	0.067	-0.007	-0.014
rs74463492	43386182	3	G	A	rs12493769	8	*SNRK*	0	intronic	ND		5	3	4	2.058E-04	5.562E-03	1.635E-04	-0.072	0.007	0.015
rs74652506	43443878	3	T	C	rs12493769	8	*SNRK:ANO10*	0	intronic	8.112		7	4	15	4.075E-05	3.221E-03	8.128E-05	0.080	-0.007	-0.016
rs75169602	43287777	3	A	G	rs12493769	8	*AC104434.1*	35413	intergenic	3.513		5	5	15	4.038E-04	2.119E-03	3.355E-04	0.067	-0.007	-0.014
rs75507005	43432429	3	C	T	rs12493769	8	*SNRK:ANO10*	0	intronic	2.525		7	5	15	4.408E-05	3.158E-03	9.842E-05	-0.080	0.007	0.016
rs75661790	43405197	3	C	T	rs12493769	8	*SNRK:ANO10*	0	intergenic	1.774		4	4	5	1.937E-04	5.996E-03	3.603E-04	-0.073	0.007	0.015
rs75919775	43460323	3	C	T	rs12493769	8	*SNRK:ANO10*	0	intronic	8.049	2b		4	15	2.647E-05	1.843E-02	1.805E-04	-0.080	0.006	0.015
rs7633546	43290025	3	G	A	rs12493769	8	*AC104434.1*	37661	intergenic	1.178	3a		2	15	3.313E-04	2.054E-03	3.050E-04	-0.067	0.007	0.014
rs7634209	43254633	3	G	A	rs12493769	8	*AC104434.1*	2269	intergenic	ND		4	5	15	1.044E-03	2.484E-03	3.811E-04	-0.061	0.007	0.013
rs7641590	43263908	3	A	C	rs12493769	8	*AC104434.1*	11544	intergenic	1.278		7	5	15	6.807E-04	2.348E-03	2.712E-04	0.064	-0.007	-0.014
rs7646966	43300871	3	C	A	rs12493769	8	*SNRK*	27132	intergenic	4.531		5	5	15	4.365E-04	2.741E-03	7.884E-05	-0.066	0.007	0.015
rs7650267	43467895	3	C	T	rs12493769	8	*ANO10*	0	intronic	0.111		5	2	15	3.595E-05	2.109E-02	2.077E-04	-0.079	0.006	0.015
rs7651078	43499018	3	G	A	rs12493769	8	*ANO10*	0	intronic	5.139		7	5	15	5.207E-04	1.748E-03	7.926E-04	-0.075	0.009	0.015
rs76887862	43321414	3	T	G	rs12493769	8	*SNRK*	6589	intergenic	1.162		5	5	15	2.142E-04	4.785E-03	1.492E-04	0.073	-0.007	-0.016
rs77145152	43348912	3	T	C	rs12493769	8	*SNRK*	0	intronic	0.71		5	4	5	2.188E-04	5.501E-03	1.731E-04	0.072	-0.007	-0.015
rs77245213	43400755	3	C	T	rs12493769	8	*SNRK:ANO10*	0	intergenic	1.134		7	5	15	1.954E-04	5.137E-03	1.859E-04	-0.073	0.007	0.015
rs77431211	43427289	3	C	T	rs12493769	8	*SNRK:ANO10*	0	intronic	0.071		7	5	15	4.112E-05	4.469E-03	8.714E-05	-0.080	0.007	0.016
rs77463213	43432024	3	T	C	rs12493769	8	*SNRK:ANO10*	0	intronic	ND		4	2	7	2.615E-05	1.918E-02	1.625E-04	0.080	-0.006	-0.015
rs78131568	43455184	3	C	T	rs12493769	8	*SNRK:ANO10*	0	intronic	ND		5	5	15	2.151E-05	1.338E-02	1.643E-04	-0.081	0.006	0.015
rs78756554	43411374	3	T	C	rs12493769	8	*SNRK:ANO10*	0	intronic	ND		5	5	15	1.934E-04	5.691E-03	2.216E-04	0.073	-0.007	-0.015
rs78879443	43563334	3	C	T	rs12493769	8	*ANO10*	0	intronic	ND		6	5	5	5.380E-04	1.853E-03	4.774E-04	-0.075	0.009	0.015
rs79621756	43397223	3	G	A	rs12493769	8	*SNRK:ANO10*	0	intergenic	ND		6	5	9	1.997E-04	4.982E-03	1.948E-04	-0.073	0.007	0.015
rs79877168	43367397	3	G	T	rs12493769	8	*SNRK*	0	intronic	ND		5	2	7	2.165E-04	5.703E-03	1.611E-04	-0.072	0.007	0.015
rs906155	43446343	3	C	T	rs12493769	8	*SNRK:ANO10*	0	intronic	1.946	ND		5	15	2.726E-05	1.705E-02	2.183E-04	-0.080	0.006	0.015
rs10452032	49680973	3	G	A	rs28535523	9	*BSN*	0	intronic	3.955		6	4	15	1.976E-05	**1.010E-21**	9.647E-08	-0.073	0.021	0.019
rs1078341	49685592	3	A	G	rs28535523	9	*BSN*	0	intronic	4.689	1b		2	15	2.049E-05	**8.787E-22**	9.257E-08	0.073	-0.021	-0.019
rs11130207	49611666	3	T	G	rs28535523	9	*BSN*	0	intronic	7.296		7	5	15	1.953E-05	5.716E-05	ND	0.075	-0.075	ND
rs11130208	49615624	3	G	T	rs28535523	9	*BSN*	0	intronic	0.365		6	5	15	1.955E-05	**3.563E-20**	1.306E-07	-0.075	0.021	0.020
rs11130211	49645209	3	C	T	rs28535523	9	*BSN*	0	intronic	ND	1f		5	15	1.866E-05	**1.464E-19**	1.412E-07	-0.075	0.021	0.019
rs11130217	49737323	3	A	G	rs28535523	9	*RNF123*	0	intronic	4.497	1f		4	4	1.650E-05	**7.314E-21**	1.074E-07	0.073	-0.021	-0.019
rs112313157	50069032	3	G	A	rs28535523	9	*RBM6*	0	intronic	ND		6	4	5	1.197E-03	2.844E-03	ND	-0.049	0.048	ND
rs11709734	49745235	3	G	A	rs28535523	9	*RNF123*	0	intronic	1.136	1f		4	5	1.826E-05	**6.623E-21**	1.246E-07	-0.073	0.021	0.019
rs11720705	49753788	3	A	G	rs28535523	9	*RNF123*	0	intronic	0.108	1f		3	4	1.912E-05	**1.516E-20**	2.802E-07	0.073	-0.021	-0.018
rs11721148	49646669	3	G	A	rs28535523	9	*BSN*	0	intronic	2.404		7	5	15	1.862E-05	**1.800E-19**	1.674E-07	-0.075	0.021	0.019
rs12637313	49645458	3	A	G	rs28535523	9	*BSN*	0	intronic	0.498		4	5	15	1.742E-05	**1.512E-19**	1.434E-07	0.075	-0.021	-0.020
rs12715437	49751856	3	T	C	rs28535523	9	*RNF123*	0	intronic	0.376	1f		4	5	1.927E-05	**6.414E-21**	1.115E-07	0.073	-0.021	-0.019
rs13071931	50062878	3	A	G	rs28535523	9	*RBM6*	0	intronic	0.597		5	4	5	1.059E-03	**2.736E-21**	**2.411E-11**	0.050	-0.019	-0.021
rs13095697	50136463	3	A	G	rs28535523	9	*RBM6:RBM5*	0	intronic	3.463		7	4	4	1.179E-03	**2.026E-21**	**1.976E-11**	0.049	-0.019	-0.021

rs13096480	49658084	3	A	G	rs28535523	9	*BSN*	0	intronic	1.738	1f	5	15	1.881E-05	**7.869E-22**	7.607E-08	0.073	-0.021	-0.019
rs13097720	50101468	3	A	G	rs28535523	9	*RBM6*	0	intronic	2.804	6	4	4	9.415E-04	**1.320E-21**	**3.073E-11**	0.050	-0.019	-0.021
rs1352889	49652148	3	T	C	rs28535523	9	*BSN*	0	intronic	3.111	6	5	15	1.996E-05	**9.127E-22**	1.134E-07	0.073	-0.021	-0.019
rs148383796	49811047	3	A	G	rs28535523	9	*IP6K1*	0	intronic	0.068	7	4	5	1.029E-05	**7.963E-21**	1.254E-07	0.076	-0.021	-0.019
rs1491983	49639803	3	G	T	rs28535523	9	*BSN*	0	intronic	3.026	1d	5	15	1.859E-05	**7.307E-20**	1.456E-07	-0.075	0.021	0.019
rs1586827	49671224	3	T	C	rs28535523	9	*BSN*	0	intronic	8.604	7	5	15	2.169E-05	**8.157E-22**	7.793E-08	0.073	-0.021	-0.019
rs17304079	50085153	3	G	A	rs28535523	9	*RBM6*	0	intronic	2.254	5	4	4	1.310E-03	**3.254E-27**	**3.835E-13**	-0.048	0.021	0.023
rs1799844	49847642	3	A	G	rs28535523	9	*UBA7*	0	intronic	6.735	ND	4	4	9.025E-06	**3.187E-20**	3.614E-07	0.076	-0.021	-0.019
rs184219667	49813936	3	A	C	rs28535523	9	*IP6K1*	0	intronic	6.457	6	4	5	9.663E-06	1.211E-04	ND		0.076	-0.072 ND
rs1996664	49878395	3	G	A	rs28535523	9	*TRAIP*	0	intronic	ND	1f	4	5	1.577E-05	**2.369E-20**	1.132E-07	-0.073	0.021	0.019
rs2014004	50175940	3	A	G	rs28535523	9	*RP11-493K19.3*	0	ncRNA_intronic	ND	ND	1	7	1.568E-03	**1.408E-26**	**1.083E-13**	0.048	-0.021	-0.024
rs2029591	49646981	3	T	C	rs28535523	9	*BSN*	0	intronic	0.472	1f	5	15	1.691E-05	**1.186E-19**	1.296E-07	0.076	-0.021	-0.020
rs2131108	49665390	3	G	A	rs28535523	9	*BSN*	0	intronic	1.923	1f	4	15	1.908E-05	**7.193E-22**	8.156E-08	-0.073	0.021	0.019
rs2189691	50174025	3	C	T	rs28535523	9	*RP11-493K19.3*	0	ncRNA_intronic	0.412	ND	5	15	1.643E-03	**3.448E-26**	**2.525E-12**	-0.048	0.020	0.022
rs2329021	49679072	3	G	A	rs28535523	9	*BSN:BSN-AS1*	0	ncRNA_exonic	2.045	1f	5	15	1.934E-05	**8.128E-22**	9.145E-08	-0.073	0.021	0.019
rs28535523	49848414	3	T	C	rs28535523	9	*UBA7*	0	intronic	ND	5	3	4	8.248E-06	**1.384E-20**	2.654E-07	0.076	-0.021	-0.019
rs3020779	49724808	3	T	C	rs28535523	9	*MST1*	0	exonic	0.039	ND	1	5	2.126E-05	**3.659E-20**	9.302E-08	0.072	-0.021	-0.019
rs34890793	49619493	3	C	T	rs28535523	9	*BSN*	0	intronic	9.482	6	9	15	1.995E-05	**2.897E-20**	1.573E-07	-0.075	0.021	0.019
rs35012435	50031840	3	T	C	rs28535523	9	*RBM6*	0	intronic	ND	7	4	5	1.060E-03	**2.110E-21**	**1.382E-11**	0.050	-0.019	-0.021
rs35129566	49866584	3	G	T	rs28535523	9	*TRAIP*	0	exonic	4.124	7	4	4	1.974E-05	**1.801E-20**	9.286E-08	-0.073	0.021	0.019
rs35375092	50065274	3	A	G	rs28535523	9	*RBM6*	0	intronic	2.948	5	4	5	1.027E-03	**2.004E-21**	**3.407E-11**	0.050	-0.019	-0.021
rs35849525	50067350	3	C	T	rs28535523	9	*RBM6*	0	intronic	0.423	7	4	5	1.372E-03	**3.375E-27**	**6.862E-13**	-0.048	0.021	0.023
rs4241405	49642027	3	C	T	rs28535523	9	*BSN*	0	intronic	0.987	ND	5	15	1.738E-05	**6.209E-20**	1.040E-07	-0.075	0.021	0.020
rs4855833	49657441	3	A	G	rs28535523	9	*BSN*	0	intronic	3.373	ND	5	15	2.011E-05	**9.451E-22**	1.114E-07	0.073	-0.021	-0.019
rs4855845	49687043	3	T	C	rs28535523	9	*BSN*	0	intronic	1.968	ND	4	15	2.150E-05	**8.774E-22**	8.335E-08	0.072	-0.021	-0.019
rs4855846	49683526	3	G	A	rs28535523	9	*BSN*	0	intronic	3.481	ND	5	15	1.947E-05	**1.001E-21**	9.275E-08	-0.073	0.021	0.019
rs4855848	49653457	3	C	T	rs28535523	9	*BSN*	0	intronic	14.83	ND	5	15	1.872E-05	**9.029E-22**	9.509E-08	-0.073	0.021	0.019
rs4855849	49653378	3	A	G	rs28535523	9	*BSN*	0	intronic	2.167	ND	5	15	1.872E-05	**9.427E-22**	9.517E-08	0.073	-0.021	-0.019
rs4855882	49715354	3	G	T	rs28535523	9	*APEH*	0	intronic	0.591	ND	4	4	2.081E-05	**1.642E-21**	9.868E-08	-0.072	0.021	0.019
rs4855885	49690199	3	G	A	rs28535523	9	*BSN*	0	exonic	2.775	ND	4	15	2.242E-05	**1.040E-21**	1.023E-07	-0.072	0.021	0.019
rs55754265	49687486	3	T	C	rs28535523	9	*BSN*	0	intronic	ND	4	4	15	8.678E-04	**1.051E-19**	4.298E-07	0.062	-0.022	-0.020
rs55924524	50120257	3	G	A	rs28535523	9	*RBM6*	0	intronic	2.806	7	2	5	1.550E-03	**1.611E-26**	**2.775E-13**	-0.047	0.021	0.023
rs59357103	49890967	3	A	G	rs28535523	9	*TRAIP*	0	intronic	6.324	5	5	5	1.833E-05	**7.372E-20**	**2.586E-08**	0.075	-0.021	-0.021
rs59684465	49874246	3	T	C	rs28535523	9	*TRAIP*	0	intronic	0.515	6	4	5	9.077E-06	**1.509E-20**	2.405E-07	0.076	-0.021	-0.019
rs61557789	49871201	3	T	C	rs28535523	9	*TRAIP*	0	intronic	ND	7	4	5	8.693E-06	**1.519E-20**	2.438E-07	0.076	-0.021	-0.019
rs62260663	49814949	3	C	T	rs28535523	9	*IP6K1*	0	intronic	0.817	6	4	5	2.159E-05	**7.747E-21**	1.190E-07	-0.072	0.021	0.019
rs62260723	49872124	3	C	T	rs28535523	9	*TRAIP*	0	intronic	1.197	6	4	5	1.950E-05	**1.289E-20**	1.601E-07	-0.073	0.021	0.019
rs62262061	49917686	3	A	G	rs28535523	9	*ACTBP13*	2272	intergenic	1.809	6	5	15	1.071E-06	2.791E-03	ND		0.079	-0.051 ND
rs62262106	49991427	3	G	A	rs28535523	9	*RBM6*	0	intronic	1.231	7	4	5	1.051E-03	**4.760E-21**	**2.088E-11**	-0.050	0.018	0.021
rs62262118	50003586	3	A	G	rs28535523	9	*RBM6*	0	intronic	0.281	7	4	5	1.044E-03	**6.356E-21**	**1.828E-11**	0.050	-0.018	-0.021
rs62262671	49649873	3	G	A	rs28535523	9	*BSN*	0	intronic	4.368	6	5	15	7.703E-04	**1.954E-20**	4.002E-07	-0.063	0.023	0.020
rs62262673	49661634	3	T	C	rs28535523	9	*BSN*	0	intronic	1.847	7	5	15	1.636E-05	**1.194E-20**	9.577E-08	0.074	-0.021	-0.020
rs62262675	49673662	3	G	A	rs28535523	9	*BSN*	0	intronic	9.814	7	5	15	1.657E-05	**1.189E-20**	7.296E-08	-0.074	0.021	0.020
rs62262730	49808274	3	G	T	rs28535523	9	*IP6K1*	0	intronic	0.101	5	4	5	9.655E-06	**9.526E-21**	1.464E-07	-0.076	0.021	0.019
rs62263602	50152491	3	T	C	rs28535523	9	*RBM5*	0	intronic	1.163	6	4	4	3.123E-03	**1.721E-20**	**2.658E-11**	0.045	-0.018	-0.021
rs6446284	49616997	3	A	G	rs28535523	9	*BSN*	0	intronic	1.942	6	5	15	1.951E-05	**3.570E-20**	1.821E-07	0.075	-0.021	-0.019
rs6446285	49626306	3	G	A	rs28535523	9	*BSN*	0	intronic	1.794	6	1	15	1.957E-05	**5.135E-19**	1.352E-07	-0.075	0.021	0.020
rs6446286	49681704	3	A	G	rs28535523	9	*BSN*	0	intronic	2.361	5	4	15	1.939E-05	**8.140E-22**	9.139E-08	0.073	-0.021	-0.019
rs6774202	49687779	3	T	G	rs28535523	9	*BSN*	0	intronic	1.088	1b	4	15	2.142E-05	**8.266E-22**	9.579E-08	0.072	-0.021	-0.019
rs6787892	50046112	3	A	G	rs28535523	9	*RBM6*	0	intronic	0.074	6	4	5	1.036E-03	**1.959E-21**	**3.659E-11**	0.050	-0.019	-0.021
rs6790568	49835450	3	T	C	rs28535523	9	*CDHR4*	0	intronic	2.801	7	5	15	2.022E-05	**4.881E-20**	1.238E-07	0.073	-0.021	-0.019
rs6797299	49609794	3	G	T	rs28535523	9	*BSN*	0	intronic	0.171	5	5	15	1.361E-05	**3.984E-20**	1.333E-07	-0.076	0.021	0.020
rs6804970	49804290	3	T	C	rs28535523	9	*IP6K1*	0	intronic	3.133	7	4	5	9.423E-06	**5.971E-21**	1.572E-07	0.076	-0.021	-0.019
rs6809879	49834571	3	G	A	rs28535523	9	*CDHR4*	0	intronic	ND	1f	5	15	1.776E-05	**9.603E-20**	1.987E-07	-0.073	0.021	0.019
rs71326904	49991060	3	T	C	rs28535523	9	*RBM6*	0	intronic	1.035	7	4	5	1.057E-03	**4.324E-21**	**2.396E-11**	0.050	-0.018	-0.021
rs7613603	49812866	3	T	C	rs28535523	9	*IP6K1:RP13-1056D16.2*	0	ncRNA_exonic	ND	6	2	5	9.552E-06	**6.272E-21**	1.812E-07	0.076	-0.021	-0.019
rs7615318	49987475	3	T	C	rs28535523	9	*RBM6*	0	intronic	7.811	6	4	5	9.456E-04	**6.323E-21**	**1.822E-11**	0.050	-0.018	-0.021
rs7621797	49798864	3	A	G	rs28535523	9	*IP6K1*	0	intronic	0.187	7	4	5	2.076E-05	**5.149E-21**	1.232E-07	0.072	-0.021	-0.019
rs7628207	49754970	3	T	C	rs28535523	9	*RNF123:AMIGO3:GMPPB*	0	UTR3	2.013	1f	3	5	1.967E-05	**1.644E-20**	1.170E-07	0.073	-0.021	-0.019
rs7629322	49621994	3	C	T	rs28535523	9	*BSN*	0	intronic	9.595	7	9	15	1.994E-05	**3.163E-20**	1.838E-07	-0.075	0.021	0.019
rs7637711	49829653	3	G	A	rs28535523	9	*CDHR4*	0	intronic	7.712	1f	5	15	1.682E-05	**2.460E-20**	6.857E-08	-0.073	0.021	0.019
rs7646288	49646263	3	G	A	rs28535523	9	*BSN*	0	intronic	1.761	6	5	15	1.289E-05	6.048E-03	ND		-0.085	0.047 ND
rs7648652	50135412	3	C	A	rs28535523	9	*RBM6:RBM5*	0	intronic	1.728	7	4	4	1.548E-03	**6.697E-27**	**3.368E-13**	-0.047	0.021	0.023
rs77473999	49777660	3	C	T	rs28535523	9	-	-	intergenic	ND	ND	ND	ND	2.017E-05	3.175E-05	ND		-0.073	0.074 ND
rs77941694	49886319	3	T	G	rs28535523	9	*TRAIP*	0	intronic	0.06	7	5	5	9.957E-06	**2.680E-20**	3.198E-07	0.076	-0.021	-0.019
rs9824435	49674343	3	C	T	rs28535523	9	*BSN*	0	intronic	5.918	1f	2	15	2.108E-05	**1.457E-21**	8.674E-08	-0.072	0.021	0.019

rs9829155	49817450	3	C	T	rs28535523	9	*IP6K1*	0	intronic	2.338	1f	4	5	2.166E-05	**5.335E-21**	9.660E-08	-0.072	0.021	0.019
rs9835157	49797769	3	A	G	rs28535523	9	*IP6K1*	0	intronic	2.531	6	4	5	2.098E-05	**6.448E-21**	1.140E-07	0.072	-0.021	-0.019
rs9836756	49822909	3	A	G	rs28535523	9	*IP6K1*	0	intronic	1.745	6	1	2	2.210E-05	**9.124E-21**	1.084E-07	0.072	-0.021	-0.019
rs9851651	49825326	3	A	C	rs28535523	9	*IP6K1*	1350	intergenic	3.132	7	5	15	2.209E-05	**8.740E-21**	1.216E-07	0.072	-0.021	-0.019
rs9851930	49825369	3	A	G	rs28535523	9	*IP6K1*	1393	intergenic	6.785	7	5	15	2.209E-05	**5.113E-20**	1.126E-07	0.072	-0.021	-0.019
rs9869120	49624065	3	T	C	rs28535523	9	*BSN*	0	intronic	2.832	6	13	15	1.945E-05	**4.555E-20**	1.598E-07	0.075	-0.021	-0.020
rs9869256	49624095	3	T	G	rs28535523	9	*BSN*	0	intronic	ND	7	13	15	1.959E-05	**5.116E-19**	1.812E-07	0.075	-0.021	-0.020
rs9870755	49809841	3	T	C	rs28535523	9	*IP6K1*	0	intronic	9.224	6	4	5	9.422E-06	**6.259E-21**	1.769E-07	0.076	-0.021	-0.019
rs9870858	49769071	3	C	T	rs28535523	9	*IP6K1*	0	intronic	ND	6	4	4	1.935E-05	**6.897E-21**	1.244E-07	-0.073	0.021	0.019
rs9883000	49667691	3	T	C	rs28535523	9	*BSN*	0	intronic	3.793	1f	5	15	2.427E-05	**7.186E-22**	8.899E-08	0.072	-0.021	-0.019
rs10222594	71554856	3	A	G	rs6789751	10	*FOXP1*	0	intronic	3.043	7	4	5	4.147E-05	**2.230E-09**	9.655E-07	-0.060	0.011	0.014
rs111242991	71576058	3	T	C	rs6789751	10	*FOXP1*	0	intronic	0.126	6	5	15	6.194E-03	**1.512E-15**	**1.116E-09**	-0.038	0.014	0.017
rs112743340	71559214	3	A	C	rs6789751	10	*FOXP1*	0	intronic	3.783	6	5	5	5.057E-05	**5.135E-09**	4.207E-06	-0.060	0.011	0.014
rs11707890	71503479	3	G	T	rs6789751	10	*FOXP1*	0	intronic	ND	5	2	15	4.121E-03	**4.430E-15**	**6.358E-10**	0.040	-0.013	-0.017
rs11714337	71582521	3	A	G	rs6789751	10	*FOXP1*	0	intronic	0.499	4	2	15	9.039E-03	**1.506E-15**	**1.884E-10**	-0.036	0.014	0.018
rs11719972	71594837	3	C	T	rs6789751	10	*FOXP1*	0	intronic	0.809	3a	2	5	3.464E-03	**4.340E-16**	**2.933E-10**	0.041	-0.014	-0.018
rs11720121	71595258	3	C	T	rs6789751	10	*FOXP1*	0	intronic	9.013	5	2	15	3.771E-03	**2.467E-16**	**3.445E-10**	0.040	-0.014	-0.018
rs11720523	71545170	3	A	C	rs6789751	10	*FOXP1*	0	intronic	5.203	4	2	7	4.782E-03	**2.679E-15**	**3.889E-11**	-0.039	0.014	0.018
rs13075282	71517039	3	A	G	rs6789751	10	*FOXP1*	0	intronic	1.747	5	4	5	1.687E-03	3.751E-06	3.209E-04	-0.044	0.008	0.010
rs1392226	71552119	3	A	G	rs6789751	10	*FOXP1*	0	intronic	14.99	ND	5	5	5.008E-03	**9.486E-15**	**9.563E-11**	-0.039	0.013	0.018
rs1432611	71569678	3	T	G	rs6789751	10	*FOXP1*	0	intronic	14.51	4	4	15	4.966E-03	**4.699E-15**	**8.658E-10**	-0.039	0.013	0.017
rs1499894	71571696	3	T	C	rs6789751	10	*FOXP1*	0	intronic	4.002	ND	5	15	9.990E-03	**1.589E-15**	**7.148E-09**	-0.036	0.014	0.016
rs1499895	71571667	3	C	T	rs6789751	10	*FOXP1*	0	intronic	1.253	ND	5	15	9.964E-03	**1.317E-15**	**2.766E-09**	0.036	-0.014	-0.017
rs17108	71526205	3	A	G	rs6789751	10	*FOXP1*	0	intronic	4.998	4	4	15	5.973E-04	1.000E-06	1.385E-04	-0.048	0.009	0.011
rs17656627	71506510	3	A	C	rs6789751	10	*FOXP1*	0	intronic	ND	6	2	15	6.185E-05	**1.355E-09**	3.529E-07	-0.059	0.011	0.015
rs17662328	71564943	3	A	G	rs6789751	10	*FOXP1*	0	intronic	ND	4	1	15	5.002E-03	**1.914E-14**	**2.743E-10**	-0.039	0.013	0.018
rs17718444	71499401	3	T	C	rs6789751	10	*FOXP1*	0	intronic	8.496	3a	1	15	3.151E-05	**5.470E-09**	1.094E-06	-0.061	0.011	0.014
rs17718736	71555205	3	A	C	rs6789751	10	*FOXP1*	0	intronic	ND	4	4	5	3.013E-05	**1.841E-09**	5.980E-07	-0.062	0.011	0.015
rs1876245	71534763	3	C	T	rs6789751	10	*FOXP1*	0	intronic	2.175	ND	4	15	5.134E-03	**3.173E-15**	**4.175E-11**	0.038	-0.014	-0.018
rs2036281	71589755	3	T	G	rs6789751	10	*FOXP1*	0	intronic	9.094	5	4	5	2.601E-03	**9.661E-17**	**8.630E-10**	-0.042	0.014	0.017
rs34346645	71557945	3	A	C	rs6789751	10	*FOXP1*	0	intronic	ND	5	4	5	5.298E-03	**1.335E-14**	**4.428E-10**	-0.039	0.013	0.018
rs34492796	71539405	3	C	T	rs6789751	10	*FOXP1*	0	intronic	0.41	5	2	5	4.932E-03	**2.702E-15**	**4.315E-11**	0.039	-0.014	-0.018
rs34956723	71516105	3	A	G	rs6789751	10	*FOXP1*	0	intronic	7.072	4	1	15	1.503E-03	3.846E-06	2.200E-04	-0.044	0.008	0.010
rs35480566	71583177	3	G	A	rs6789751	10	*FOXP1*	0	intronic	3.233	7	2	15	1.308E-02	**5.926E-16**	**6.118E-10**	0.034	-0.014	-0.017
rs35768603	71544252	3	C	T	rs6789751	10	*FOXP1*	0	intronic	1.197	6	2	5	4.725E-03	**4.617E-15**	**5.456E-11**	0.039	-0.013	-0.018
rs35967223	71519604	3	A	G	rs6789751	10	*FOXP1*	0	intronic	0.169	6	5	15	8.198E-04	2.573E-06	1.362E-04	-0.047	0.008	0.011
rs36023390	71523093	3	T	C	rs6789751	10	*FOXP1*	0	intronic	0.84	6	5	15	6.364E-04	1.036E-06	1.790E-04	-0.048	0.009	0.011
rs55716899	71498561	3	C	T	rs6789751	10	*FOXP1*	0	intronic	ND	7	5	15	3.951E-03	**1.623E-14**	**9.427E-10**	0.040	-0.013	-0.017
rs56310245	71523285	3	A	G	rs6789751	10	*FOXP1*	0	intronic	ND	6	5	15	6.311E-04	1.060E-06	1.526E-04	-0.048	0.009	0.011
rs56343799	71572406	3	A	G	rs6789751	10	*FOXP1*	0	intronic	3.624	6	5	15	1.051E-02	**1.940E-15**	**4.412E-09**	-0.035	0.014	0.016
rs57205040	71520890	3	C	A	rs6789751	10	*FOXP1*	0	intronic	0.18	6	4	15	5.210E-03	**5.299E-15**	**7.316E-11**	0.038	-0.013	-0.018
rs57462727	71548258	3	A	G	rs6789751	10	*FOXP1*	0	intronic	4.501	7	4	5	3.870E-05	**2.365E-09**	8.789E-07	-0.061	0.011	0.014
rs57929572	71563561	3	T	C	rs6789751	10	*FOXP1*	0	intronic	7.606	7	5	15	5.680E-03	**1.548E-14**	**6.480E-10**	-0.038	0.013	0.017
rs59404643	71537399	3	T	C	rs6789751	10	*FOXP1*	0	intronic	13.83	6	4	5	4.080E-05	**8.652E-10**	9.641E-07	-0.060	0.011	0.014
rs60135207	71563777	3	T	G	rs6789751	10	*FOXP1*	0	intronic	1.604	6	5	15	5.011E-03	**1.472E-14**	**6.692E-10**	-0.039	0.013	0.017
rs60281674	71536607	3	A	G	rs6789751	10	*FOXP1*	0	intronic	1.341	5	2	15	4.225E-05	**6.824E-10**	9.965E-07	-0.060	0.011	0.014
rs60405683	71538137	3	A	C	rs6789751	10	*FOXP1*	0	intronic	0.036	5	2	5	4.218E-05	**9.444E-10**	7.615E-07	-0.060	0.011	0.014
rs60756930	71556471	3	G	A	rs6789751	10	*FOXP1*	0	intronic	1.149	4	4	5	5.139E-03	**8.776E-15**	**1.655E-10**	0.039	-0.013	-0.018
rs62244860	71547590	3	G	A	rs6789751	10	*FOXP1*	0	intronic	14.54	4	2	7	4.415E-03	**6.798E-15**	**1.003E-10**	0.039	-0.013	-0.018
rs62244863	71550774	3	C	T	rs6789751	10	*FOXP1*	0	intronic	1.456	6	4	5	5.094E-03	**5.696E-15**	**5.553E-11**	0.039	-0.013	-0.018
rs62244884	71583383	3	A	G	rs6789751	10	*FOXP1*	0	intronic	ND	6	4	15	7.938E-03	**2.256E-15**	**1.410E-10**	-0.037	0.014	0.018
rs62244888	71603774	3	C	T	rs6789751	10	*FOXP1*	0	intronic	1.277	6	2	15	1.141E-02	**2.770E-15**	**6.330E-10**	0.035	-0.014	-0.017
rs62244889	71609007	3	A	G	rs6789751	10	*FOXP1*	0	intronic	2.171	3a	4	15	1.378E-02	**7.654E-15**	**7.682E-10**	-0.034	0.013	0.017
rs62244890	71611630	3	C	T	rs6789751	10	*FOXP1*	0	intronic	7.015	7	4	15	7.467E-03	**2.834E-15**	**7.798E-11**	0.037	-0.014	-0.018
rs62246015	71481192	3	T	C	rs6789751	10	*FOXP1*	0	intronic	ND	5	2	5	7.921E-05	**9.981E-10**	1.839E-06	-0.060	0.011	0.014
rs62246017	71483084	3	A	G	rs6789751	10	*FOXP1*	0	intronic	ND	5	2	5	8.190E-05	**1.107E-09**	2.635E-06	-0.060	0.011	0.014
rs62246055	71515183	3	T	C	rs6789751	10	*FOXP1*	0	intronic	0.427	7	4	5	6.090E-05	**4.231E-09**	6.920E-07	-0.059	0.011	0.015
rs62247034	71545798	3	A	C	rs6789751	10	*FOXP1*	0	intronic	3.958	5	1	7	3.568E-05	**1.264E-09**	1.708E-06	-0.061	0.011	0.014
rs62247035	71546358	3	A	G	rs6789751	10	*FOXP1*	0	intronic	8.167	5	2	7	3.322E-05	**1.253E-09**	2.533E-06	-0.061	0.011	0.014
rs62247160	71523651	3	A	G	rs6789751	10	*FOXP1*	0	intronic	0.36	6	5	15	6.500E-04	1.159E-06	1.354E-04	-0.048	0.009	0.011
rs62247165	71532621	3	T	C	rs6789751	10	*FOXP1*	0	intronic	9.434	5	5	15	5.663E-03	**2.967E-15**	**6.435E-11**	-0.038	0.014	0.018
rs62247167	71533935	3	T	C	rs6789751	10	*FOXP1*	0	intronic	2.169	7	2	15	4.959E-05	**1.218E-09**	9.924E-07	-0.060	0.011	0.014
rs62247168	71535682	3	C	A	rs6789751	10	*FOXP1*	0	intronic	2.166	5	1	15	4.482E-05	**1.067E-09**	1.171E-06	0.060	-0.011	-0.014
rs62247169	71536056	3	T	C	rs6789751	10	*FOXP1*	0	intronic	ND	5	2	15	4.371E-05	**8.560E-10**	9.515E-07	-0.060	0.011	0.014
rs62247171	71536301	3	T	C	rs6789751	10	*FOXP1*	0	intronic	2.021	5	2	15	4.324E-05	**9.298E-10**	1.344E-06	-0.060	0.011	0.014
rs62247173	71536974	3	C	A	rs6789751	10	*FOXP1*	0	intronic	ND	5	2	15	4.370E-05	**1.026E-09**	1.221E-06	0.060	-0.011	-0.014

rs6549391	71529915	3	C	A	rs6789751	10	*FOXP1*	0	intronic	ND		6	2	15	5.448E-05	**1.412E-09**	6.132E-07	0.059	-0.011	-0.014
rs6549392	71538696	3	T	G	rs6789751	10	*FOXP1*	0	intronic	ND		5	1	5	4.226E-05	**1.144E-09**	3.647E-07	-0.060	0.011	0.015
rs6549393	71539046	3	T	C	rs6789751	10	*FOXP1*	0	intronic	3.678		5	2	5	4.337E-05	**1.015E-09**	4.156E-07	-0.060	0.011	0.015
rs6549395	71549167	3	T	C	rs6789751	10	*FOXP1*	0	intronic	0.189		7	5	5	3.660E-05	**1.519E-09**	4.675E-07	-0.061	0.011	0.015
rs6549400	71606466	3	G	T	rs6789751	10	*FOXP1*	0	intronic	2.987		7	5	15	1.121E-02	**3.929E-15**	**3.847E-10**	0.035	-0.013	-0.017
rs6764416	71574051	3	T	C	rs6789751	10	*FOXP1*	0	intronic	ND	3a		5	15	6.071E-03	**8.413E-15**	**9.099E-10**	-0.038	0.013	0.017
rs6778026	71571386	3	A	G	rs6789751	10	*FOXP1*	0	intronic	4.794		7	5	15	1.017E-02	**1.173E-15**	**1.791E-09**	-0.035	0.014	0.017
rs6779258	71549639	3	C	T	rs6789751	10	*FOXP1*	0	intronic	4.263		5	4	5	5.033E-03	**6.596E-15**	**4.080E-11**	0.039	-0.013	-0.018
rs6780776	71554185	3	T	C	rs6789751	10	*FOXP1*	0	intronic	2.819		5	2	5	5.200E-03	**3.490E-15**	**1.488E-10**	-0.039	0.013	0.018
rs6789751	71546744	3	C	T	rs6789751	10	*FOXP1*	0	intronic	ND	3a		2	7	2.918E-05	**1.843E-09**	1.781E-06	0.062	-0.011	-0.014
rs6790644	71592594	3	T	C	rs6789751	10	*FOXP1*	0	UTR5	4.854		4	1	7	1.782E-03	**7.724E-16**	**9.193E-11**	-0.044	0.014	0.018
rs6796042	71530120	3	G	A	rs6789751	10	*FOXP1*	0	intronic	2.525		7	2	15	1.231E-03	1.350E-06	1.931E-04	0.045	-0.008	-0.010
rs6798184	71546773	3	A	G	rs6789751	10	*FOXP1*	0	intronic	5.022	2b		2	7	3.055E-05	**1.772E-09**	2.396E-06	-0.061	0.011	0.014
rs6803008	71571345	3	T	C	rs6789751	10	*FOXP1*	0	intronic	3.535		7	5	15	9.758E-03	**2.197E-15**	**1.990E-09**	-0.036	0.014	0.017
rs73093445	71542279	3	A	C	rs6789751	10	*FOXP1*	0	intronic	6.031		5	1	5	4.681E-03	**5.304E-15**	**4.900E-11**	-0.039	0.013	0.018
rs73094902	71603361	3	T	C	rs6789751	10	*FOXP1*	0	intronic	0.044		7	5	15	2.442E-03	**6.591E-16**	**1.392E-10**	-0.043	0.014	0.018
rs73837358	71540853	3	A	G	rs6789751	10	*FOXP1*	0	intronic	0.946		4	1	5	4.095E-05	**1.000E-09**	8.777E-07	-0.060	0.011	0.014
rs73837362	71546321	3	A	G	rs6789751	10	*FOXP1*	0	intronic	1.316	3a		2	7	2.921E-05	**6.743E-10**	2.604E-06	-0.062	0.011	0.014
rs7610856	71579022	3	A	C	rs6789751	10	*FOXP1*	0	intronic	ND		5	4	15	6.042E-03	**6.480E-16**	**4.435E-10**	-0.038	0.014	0.017
rs76204832	71513336	3	A	C	rs6789751	10	*FOXP1*	0	intronic	2.035		7	4	15	8.020E-05	**2.879E-09**	1.104E-06	-0.058	0.011	0.014
rs7632921	71543758	3	T	G	rs6789751	10	*FOXP1*	0	intronic	1.756		5	2	5	5.212E-03	**3.780E-15**	**7.526E-11**	-0.039	0.013	0.018
rs76929866	71628286	3	C	A	rs6789751	10	*FOXP1*	0	intronic	8.753		5	1	5	1.443E-03	1.658E-07	3.597E-04	0.050	-0.010	-0.011
rs9819066	71523110	3	T	C	rs6789751	10	*FOXP1*	0	intronic	3.665		6	5	15	6.882E-04	1.088E-06	1.020E-04	-0.047	0.009	0.011
rs9828629	71530346	3	T	C	rs6789751	10	*FOXP1*	0	intronic	2.989		7	2	15	5.807E-04	8.607E-07	1.081E-04	-0.048	0.009	0.011
rs9832796	71551971	3	G	A	rs6789751	10	*FOXP1*	0	intronic	0.804		6	4	5	4.986E-03	**9.914E-15**	**1.406E-10**	0.039	-0.013	-0.018
rs9837383	71552366	3	C	T	rs6789751	10	*FOXP1*	0	intronic	3.826		5	5	5	3.904E-03	**7.614E-15**	**8.054E-11**	0.040	-0.013	-0.018
rs9842406	71553132	3	G	T	rs6789751	10	*FOXP1*	0	intronic	8.316		4	2	5	4.534E-03	**8.899E-15**	**1.364E-10**	0.039	-0.013	-0.018
rs9853632	71525367	3	C	T	rs6789751	10	*FOXP1*	0	intronic	2.678		6	4	15	6.059E-04	9.178E-07	1.143E-04	0.048	-0.009	-0.011
rs11710737	107464170	3	G	A	rs11710737	11	*BBX*	0	intronic	1.568		6	4	5	5.549E-06	1.885E-05	1.547E-03	0.061	-0.007	-0.009
rs6809506	107470613	3	T	C	rs11710737	11	*BBX*	0	intronic	6.716		6	4	5	4.924E-06	7.894E-01	ND	-0.062	0.004	ND
rs7634587	107516847	3	G	A	rs7634587	12	*BBX*	0	intronic	1.997		6	4	5	2.202E-06	2.144E-02	3.757E-03	0.065	-0.004	-0.008
rs873093	107501282	3	C	T	rs7634587	12	*BBX*	0	intronic	9.973	ND		4	5	3.150E-06	2.404E-02	3.403E-03	0.064	-0.004	-0.008
rs10008926	31133967	4	A	G	rs28522755	13	*PCDH7*	0	intronic	3.009		7	5	15	3.353E-07	8.135E-01	3.738E-02	-0.077	0.000	0.006
rs10028386	31122779	4	G	A	rs28522755	13	*PCDH7*	0	intronic	3.594		7	5	15	2.071E-06	4.771E-01	1.492E-01	0.066	-0.001	-0.004
rs10034048	31127672	4	T	C	rs28522755	13	*PCDH7*	0	intronic	4.253		5	5	15	3.370E-07	8.191E-01	1.895E-02	-0.077	0.000	0.007
rs1044352	31147874	4	T	G	rs28522755	13	*PCDH7*	0	UTR3	0.002	ND		1	15	7.036E-07	9.994E-01	1.070E-01	-0.069	0.000	0.004
rs10517222	31154918	4	G	A	rs28522755	13	*PCDH7*	6495	intergenic	5.865	ND		5	15	4.924E-06	6.126E-01	3.707E-03	0.070	-0.001	-0.009
rs1463843	31158168	4	A	G	rs28522755	13	*PCDH7*	9745	intergenic	2.634	ND		5	15	4.628E-06	5.688E-01	3.076E-03	-0.070	0.001	0.009
rs1463844	31157943	4	C	A	rs28522755	13	*PCDH7*	9520	intergenic	1.134	ND		5	15	3.977E-06	2.352E-01	1.542E-02	0.066	-0.002	-0.007
rs1463849	31148846	4	G	A	rs28522755	13	*PCDH7*	423	downstream	ND	ND		5	15	1.305E-06	9.480E-01	7.485E-02	0.067	0.000	-0.005
rs1499475	31119045	4	G	A	rs28522755	13	*PCDH7*	0	intronic	6.249		7	5	15	2.662E-06	7.460E-01	6.464E-03	0.072	0.001	-0.008
rs1499476	31119281	4	T	C	rs28522755	13	*PCDH7*	0	intronic	5.318		7	5	15	7.369E-06	6.936E-01	9.074E-02	-0.062	0.001	0.005
rs16867990	31129798	4	G	T	rs28522755	13	*PCDH7*	0	intronic	3.855		6	5	15	5.143E-07	8.943E-01	1.633E-02	0.075	0.000	-0.007
rs16884384	31128230	4	T	C	rs28522755	13	*PCDH7*	0	intronic	2.092		7	5	15	4.320E-07	7.905E-01	1.881E-02	-0.076	-0.001	0.007
rs16884398	31139333	4	C	T	rs28522755	13	*PCDH7*	0	intronic	2.914		7	5	15	2.421E-07	8.050E-01	2.751E-02	0.078	0.001	-0.007
rs16884402	31141947	4	C	T	rs28522755	13	*PCDH7*	0	intronic	ND		7	5	15	2.648E-07	7.970E-01	2.166E-02	0.078	0.001	-0.007
rs16884451	31148688	4	T	C	rs28522755	13	*PCDH7*	265	downstream	6.221		7	1	15	8.781E-07	9.538E-01	1.096E-01	-0.069	0.000	0.004
rs16884473	31151060	4	T	C	rs28522755	13	*PCDH7*	2637	intergenic	ND		7	5	15	8.556E-07	9.981E-01	5.851E-02	-0.068	0.000	0.005
rs1827140	31118091	4	T	C	rs28522755	13	*PCDH7*	0	intronic	1.731		7	5	15	6.227E-06	5.180E-01	1.143E-01	-0.063	0.001	0.004
rs1827141	31118158	4	A	G	rs28522755	13	*PCDH7*	0	intronic	2.436		6	5	15	2.018E-05	6.463E-01	8.364E-02	-0.059	0.001	0.005
rs1846526	31131372	4	A	G	rs28522755	13	*PCDH7*	0	intronic	0.469		6	5	15	6.474E-06	6.427E-01	9.021E-02	-0.062	0.001	0.005
rs28463037	31154532	4	C	T	rs28522755	13	*PCDH7*	6109	intergenic	9.572		5	5	15	5.040E-06	6.241E-01	2.545E-03	0.070	-0.001	-0.009
rs28498976	31151357	4	A	G	rs28522755	13	*PCDH7*	2934	intergenic	5.957		6	5	15	1.397E-06	9.665E-01	4.397E-02	-0.067	0.000	0.006
rs28522755	31149943	4	G	A	rs28522755	13	*PCDH7*	1520	intergenic	1.889		6	5	15	1.532E-07	7.562E-01	1.876E-02	0.079	0.001	-0.007
rs28568738	31122002	4	T	C	rs28522755	13	*PCDH7*	0	intronic	1.416		7	5	15	4.601E-07	8.274E-01	1.634E-02	-0.076	0.000	0.007
rs3733655	31146018	4	G	A	rs28522755	13	*PCDH7*	0	UTR3	0.003		6	4	15	6.279E-06	9.298E-01	6.674E-02	0.065	0.000	-0.005
rs3857021	31117942	4	C	T	rs28522755	13	*PCDH7*	0	intronic	2.317		7	5	15	1.151E-05	6.141E-01	8.195E-02	0.061	-0.001	-0.005
rs4692500	31147272	4	C	A	rs28522755	13	*PCDH7*	0	UTR3	ND		6	5	15	1.016E-06	9.987E-01	1.240E-01	0.068	0.000	-0.004
rs6448744	31151925	4	G	T	rs28522755	13	*PCDH7*	3502	intergenic	4.801		6	5	15	6.096E-07	9.994E-01	7.293E-02	0.070	0.000	-0.005
rs6448745	31159293	4	A	G	rs28522755	13	*PCDH7*	10870	intergenic	3.507		7	5	15	4.706E-06	5.759E-01	4.294E-03	-0.070	0.001	0.009
rs6448746	31160819	4	T	C	rs28522755	13	*RP11-617I14.1*	11946	intergenic	4.199		6	5	15	4.046E-06	5.843E-01	4.193E-03	-0.071	0.001	0.009
rs6448747	31161112	4	A	G	rs28522755	13	*RP11-617I14.1*	11653	intergenic	1.569		7	5	15	4.023E-05	2.756E-01	2.013E-02	-0.061	0.002	0.007
rs6448748	31161251	4	T	C	rs28522755	13	*RP11-617I14.1*	11514	intergenic	2.269		6	5	15	3.512E-05	2.657E-01	2.167E-02	-0.061	0.002	0.007
rs6820584	31133185	4	G	T	rs28522755	13	*PCDH7*	0	intronic	4.993		7	5	15	5.922E-06	6.339E-01	1.035E-01	0.062	-0.001	-0.004
rs6856098	31120805	4	C	T	rs28522755	13	*PCDH7*	0	intronic	15.96		5	5	15	2.466E-06	7.422E-01	7.651E-03	0.072	0.001	-0.008
rs7674487	31121445	4	G	A	rs28522755	13	*PCDH7*	0	intronic	2.722		7	5	15	6.138E-06	6.669E-01	9.186E-02	0.062	-0.001	-0.005
rs7675916	31143818	4	T	C	rs28522755	13	*PCDH7*	0	intronic	6.016		6	4	15	2.128E-07	7.849E-01	2.657E-02	-0.078	-0.001	0.007
rs7683211	31158917	4	C	T	rs28522755	13	*PCDH7*	10494	intergenic	0.077		7	5	15	1.197E-05	2.508E-01	1.217E-02	0.063	-0.002	-0.007

rs7693417	31157528	4	A	G	rs28522755	13	*PCDH7*	9105	intergenic	2.079	5	5	15	4.749E-06	5.725E-01	2.773E-03	-0.070	0.001	0.009
rs7693529	31124183	4	C	A	rs28522755	13	*PCDH7*	0	intronic	0.037	7	5	15	2.007E-06	4.876E-01	1.445E-01	0.066	-0.001	-0.004
rs9996642	31119646	4	T	G	rs28522755	13	*PCDH7*	0	intronic	ND	5	5	15	1.676E-06	5.572E-01	1.539E-01	-0.067	0.001	0.004
rs1038425	80218290	4	G	A	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	1.851	5	5	15	2.667E-06	9.290E-05	6.788E-01	-0.063	-0.007	-0.001
rs12642606	80204717	4	G	A	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	6.783	7	5	15	1.389E-05	9.493E-04	2.084E-01	0.058	0.006	0.003
rs13106961	80233882	4	A	G	rs1484144	14	*NAA11*	0	intronic	3.086	6	5	15	1.458E-03	3.528E-04	5.116E-01	0.044	0.006	0.002
rs13108290	80198876	4	T	C	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	0.349	7	5	15	3.857E-06	8.993E-04	5.255E-01	-0.062	-0.006	-0.002
rs13143951	80203560	4	A	C	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	ND	7	7	15	5.810E-06	1.012E-03	6.268E-01	-0.061	-0.006	-0.001
rs1484141	80192824	4	T	C	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	0.893	6	5	15	7.835E-06	2.000E-04	2.000E-01	0.061	0.006	0.004
rs1484144	80217597	4	T	C	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	1.933	6	5	15	1.984E-06	1.614E-04	5.892E-01	0.064	0.006	0.001
rs1484145	80217741	4	T	C	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	ND	7	5	15	2.813E-06	9.541E-05	7.011E-01	0.063	0.007	0.001
rs1979508	80231746	4	T	C	rs1484144	14	*NAA11*	0	intronic	4.637	6	5	15	2.287E-03	4.259E-04	6.518E-01	0.042	0.006	0.001
rs2129132	80194689	4	A	G	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	0.009	ND	5	15	6.284E-06	6.958E-04	5.844E-01	-0.061	-0.006	-0.002
rs28409854	80193148	4	G	A	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	0.6	6	5	15	1.124E-05	2.013E-03	1.721E-01	0.059	0.005	0.004
rs28548377	80203962	4	A	C	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	1.365	6	5	15	7.153E-06	2.901E-04	1.847E-01	0.061	0.006	0.004
rs28711203	80193152	4	G	A	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	0.824	6	5	15	1.209E-05	1.854E-03	1.906E-01	0.059	0.005	0.004
rs34207047	80199323	4	C	A	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	ND	6	5	15	3.374E-06	9.909E-05	6.194E-01	-0.063	-0.007	-0.001
rs35840311	80191417	4	A	G	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	3.273	7	5	15	8.829E-06	6.190E-02	ND	0.060	0.026	ND
rs6534269	80187872	4	C	T	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	ND	7	5	15	1.102E-05	7.433E-04	2.037E-01	0.060	0.006	0.004
rs6534293	80202960	4	A	G	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	9.264	4	5	15	7.686E-06	2.385E-04	2.378E-01	0.061	0.006	0.003
rs6811299	80207740	4	C	T	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	5.692	5	5	15	2.964E-06	8.121E-04	5.890E-01	0.063	0.006	0.001
rs6816922	80206272	4	C	A	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	ND	3a	5	15	3.748E-06	1.368E-04	6.631E-01	-0.062	-0.006	-0.001
rs6822761	80187053	4	T	C	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	1.215	7	5	15	3.663E-04	1.545E-04	1.918E-01	0.049	0.006	0.004
rs6848123	80203425	4	C	A	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	3.526	5	7	15	1.659E-05	8.950E-04	2.811E-01	0.058	0.006	0.003
rs727312	80196569	4	C	T	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	2.362	7	5	15	9.809E-06	8.949E-04	2.053E-01	0.060	0.006	0.003
rs7684235	80189377	4	C	T	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	2.637	7	5	15	9.693E-06	8.569E-04	2.334E-01	0.060	0.006	0.003
rs7696466	80211399	4	A	G	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	5.126	6	5	15	4.771E-06	8.839E-04	5.712E-01	-0.062	-0.006	-0.002
rs968256	80208634	4	A	C	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	ND	ND	5	15	2.599E-06	2.426E-04	6.157E-01	0.063	0.006	0.001
rs9998799	80218412	4	C	T	rs1484144	14	*LINC01088:NAA11*	0	ncRNA_intronic	0.427	6	5	15	2.795E-06	6.479E-04	5.429E-01	0.063	0.006	0.002
rs150900	103625183	4	C	T	rs227372	15	*MANBA*	0	intronic	1.633	7	4	15	1.691E-07	6.383E-01	3.293E-03	0.076	-0.001	-0.008
rs170563	103606672	4	C	T	rs227372	15	*MANBA*	0	intronic	6.514	ND	4	5	1.751E-07	4.827E-01	3.317E-03	0.076	-0.001	-0.008
rs170564	103608308	4	C	T	rs227372	15	*MANBA*	0	intronic	3.816	ND	2	5	1.416E-07	5.412E-01	2.149E-03	0.076	-0.001	-0.009
rs223501	103643128	4	A	G	rs227372	15	*MANBA*	0	intronic	1.049	7	4	5	1.223E-03	2.086E-01	3.860E-03	-0.053	0.002	0.009
rs223504	103635183	4	C	T	rs227372	15	*MANBA*	0	intronic	0.409	6	4	5	4.506E-06	5.131E-01	1.139E-03	0.066	-0.001	-0.009
rs223505	103634220	4	T	C	rs227372	15	*MANBA*	0	intronic	ND	1b	4	5	1.504E-07	6.726E-01	5.608E-03	-0.077	0.001	0.008
rs223506	103633894	4	C	T	rs227372	15	*MANBA*	0	intronic	1.821	7	4	5	1.413E-06	4.647E-01	2.144E-03	0.070	-0.001	-0.009
rs223507	103633815	4	A	G	rs227372	15	*MANBA*	0	intronic	7.984	7	4	5	1.792E-07	6.474E-01	6.595E-03	-0.076	0.001	0.008
rs223508	103632963	4	T	C	rs227372	15	*MANBA*	0	intronic	2.462	6	4	5	1.433E-07	6.989E-01	5.244E-03	-0.077	0.001	0.008
rs223510	103627968	4	C	T	rs227372	15	*MANBA*	0	intronic	8.082	6	4	15	8.554E-07	4.886E-01	1.262E-03	0.071	-0.001	-0.009
rs223511	103627874	4	G	A	rs227372	15	*MANBA*	0	intronic	1.082	6	4	15	7.553E-07	4.885E-01	1.369E-03	0.072	-0.001	-0.009
rs223512	103626859	4	C	T	rs227372	15	*MANBA*	0	intronic	1.108	1f	4	15	8.973E-07	4.990E-01	8.939E-04	0.071	-0.001	-0.009
rs223513	103625590	4	T	C	rs227372	15	*MANBA*	0	intronic	3.642	7	4	15	8.146E-07	4.854E-01	8.549E-04	-0.071	0.001	0.010
rs227280	103603949	4	A	G	rs227372	15	*MANBA*	0	intronic	2.977	ND	4	5	7.050E-08	5.473E-01	3.755E-03	-0.079	0.001	0.008
rs227281	103606872	4	C	T	rs227372	15	*MANBA*	0	intronic	0.992	ND	4	5	1.227E-07	5.000E-01	3.455E-03	0.077	-0.001	-0.008
rs227282	103606886	4	C	A	rs227372	15	*MANBA*	0	intronic	0.113	ND	4	5	1.026E-07	5.314E-01	3.424E-03	0.077	-0.001	-0.008
rs227284	103607635	4	G	A	rs227372	15	*MANBA*	0	intronic	2.346	ND	2	5	1.360E-07	5.454E-01	2.094E-03	0.076	-0.001	-0.009
rs227285	103607806	4	C	T	rs227372	15	*MANBA*	0	intronic	1.012	ND	2	5	1.441E-07	5.413E-01	2.108E-03	0.076	-0.001	-0.009
rs227363	103610248	4	C	T	rs227372	15	*MANBA*	0	intronic	2.529	ND	4	5	1.559E-07	6.128E-01	3.858E-03	0.076	-0.001	-0.008
rs227365	103610872	4	A	G	rs227372	15	*MANBA*	0	intronic	2.079	ND	4	5	1.275E-07	5.856E-01	4.355E-03	-0.077	0.001	0.008
rs227366	103611364	4	G	A	rs227372	15	*MANBA*	0	intronic	0.705	ND	4	5	1.318E-07	5.970E-01	4.106E-03	0.076	-0.001	-0.008
rs227369	103612018	4	G	T	rs227372	15	*MANBA*	0	intronic	8.295	ND	4	5	1.297E-07	6.045E-01	2.665E-03	0.077	-0.001	-0.009
rs227370	103612043	4	T	C	rs227372	15	*MANBA*	0	intronic	0.583	ND	4	5	8.288E-08	6.434E-01	3.578E-03	-0.078	0.001	0.008
rs227371	103612137	4	G	A	rs227372	15	*MANBA*	0	intronic	2.296	ND	4	5	1.261E-07	5.859E-01	3.862E-03	0.077	-0.001	-0.008
rs227372	103612917	4	T	C	rs227372	15	*MANBA*	0	intronic	0.668	ND	4	5	8.429E-08	5.999E-01	2.739E-03	-0.078	0.001	0.009
rs227373	103613266	4	A	G	rs227372	15	*MANBA*	0	intronic	0.942	ND	4	5	7.867E-08	6.274E-01	4.801E-03	-0.078	0.001	0.008
rs227374	103613299	4	A	G	rs227372	15	*MANBA*	0	intronic	ND	ND	4	5	1.105E-07	5.518E-01	3.591E-03	-0.077	0.001	0.008
rs393223	103605916	4	G	A	rs227372	15	*MANBA*	0	intronic	1.887	ND	2	5	7.008E-07	3.306E-01	4.951E-04	0.072	-0.002	-0.010
rs10026245	112223534	4	A	G	rs72678859	16	*RNU6-289P*	29033	intergenic	1.011	7	9	15	2.351E-04	5.425E-03	7.111E-01	-0.069	0.006	0.001
rs10026336	112223649	4	A	G	rs72678859	16	*RNU6-289P*	28918	intergenic	2.563	7	9	15	2.236E-04	5.798E-03	7.134E-01	-0.069	0.006	0.001
rs11729080	112503872	4	A	G	rs72678859	16	*RP11-255I10.1*	30542	intergenic	ND	6	9	15	1.832E-05	**4.281E-08**	7.938E-02	-0.084	0.013	0.007
rs11942352	112410355	4	G	A	rs72678859	16	*RP11-255I10.1*	62654	intergenic	5.937	7	14	15	2.669E-04	3.951E-07	1.157E-01	0.065	-0.011	-0.006
rs12503582	112254288	4	G	A	rs72678859	16	*RNU6-289P*	1613	intergenic	6.971	6	9	15	3.023E-06	6.940E-04	6.097E-01	0.103	-0.009	-0.002
rs147098535	112303764	4	T	C	rs72678859	16	*RNU6-289P*	51089	intergenic	0.433	7	15	15	9.568E-05	3.472E-02	ND	-0.078	0.040	ND
rs17576773	112217523	4	T	C	rs72678859	16	*RNU6-289P*	35044	intergenic	4.174	6	14	15	1.689E-06	1.893E-03	5.968E-01	-0.104	0.008	0.002
rs17576924	112219151	4	G	A	rs72678859	16	*RNU6-289P*	33416	intergenic	3.266	7	14	15	9.424E-05	7.278E-04	6.772E-01	0.081	-0.008	-0.002
rs17638593	112217810	4	T	C	rs72678859	16	*RNU6-289P*	34757	intergenic	4.976	4	14	15	1.740E-06	1.943E-03	6.036E-01	-0.103	0.008	0.002
rs28391418	112231857	4	C	T	rs72678859	16	*RNU6-289P*	20710	intergenic	0.352	6	9	15	5.576E-06	1.122E-03	7.144E-01	0.100	-0.008	-0.002

rs28865977	112235755	4	C	T	rs72678859	16	*RNU6-289P*	16812	intergenic	4.328	7	14	15	6.668E-06	8.846E-04	7.006E-01	0.099	-0.009	-0.002
rs3934797	112467612	4	A	G	rs72678859	16	*RP11-255I10.1*	5397	intergenic	ND	6	5	15	5.287E-05	8.481E-07	1.352E-01	-0.075	0.011	0.005
rs4834781	112220899	4	T	C	rs72678859	16	*RNU6-289P*	31668	intergenic	ND	6	9	15	1.951E-04	3.730E-03	7.594E-01	-0.070	0.007	0.001
rs6533559	112226195	4	T	G	rs72678859	16	*RNU6-289P*	26372	intergenic	0.68	5	14	15	2.596E-04	5.135E-03	7.736E-01	-0.069	0.006	0.001
rs6822712	112228994	4	T	G	rs72678859	16	*RNU6-289P*	23573	intergenic	0.747	7	9	15	3.002E-04	4.981E-03	6.352E-01	-0.068	0.006	0.002
rs6825161	112224497	4	G	A	rs72678859	16	*RNU6-289P*	28070	intergenic	4.429	7	9	15	4.159E-04	4.936E-03	6.723E-01	0.066	-0.006	-0.001
rs6835245	112227461	4	C	T	rs72678859	16	*RNU6-289P*	25106	intergenic	9.013	6	9	15	2.711E-04	5.229E-03	7.519E-01	0.069	-0.006	-0.001
rs72678859	112406961	4	T	C	rs72678859	16	*RP11-255I10.1*	66048	intergenic	0.381	5	14	15	5.430E-06	**1.941E-08**	8.891E-02	-0.089	0.013	0.007
rs72678864	112422145	4	A	G	rs72678859	16	*RP11-255I10.1*	50864	intergenic	ND	7	5	15	7.232E-06	**1.627E-08**	6.034E-02	-0.088	0.013	0.007
rs7665430	112249893	4	G	T	rs72678859	16	*RNU6-289P*	2674	intergenic	1.725	7	5	15	3.381E-06	8.848E-04	5.864E-01	0.103	-0.009	-0.002
rs76675076	112232706	4	C	T	rs72678859	16	*RNU6-289P*	19861	intergenic	ND	6	14	15	3.001E-06	9.170E-04	6.766E-01	0.103	-0.009	-0.002
rs76729396	112232163	4	C	T	rs72678859	16	*RNU6-289P*	20404	intergenic	5.128	7	9	15	2.987E-06	8.489E-04	6.716E-01	0.103	-0.009	-0.002
rs7698550	112227001	4	G	A	rs72678859	16	*RNU6-289P*	25566	intergenic	2.415	5	9	15	2.617E-04	5.497E-03	7.742E-01	0.069	-0.006	-0.001
rs77767351	112282681	4	C	T	rs72678859	16	*RNU6-289P*	30006	intergenic	1.311	7	7	15	3.017E-06	8.346E-04	6.838E-01	0.103	-0.009	-0.002
rs77854845	112371633	4	C	T	rs72678859	16	*RP11-255I10.1*	101376	intergenic	1.575	6	5	15	1.660E-04	2.659E-06	1.839E-01	0.081	-0.012	-0.006
rs79532211	112396533	4	G	A	rs72678859	16	*RP11-255I10.1*	76476	intergenic	2.596	5	14	15	1.357E-04	9.921E-07	1.783E-01	0.082	-0.012	-0.006
rs79573484	112208748	4	C	T	rs72678859	16	*RNU6-289P*	43819	intergenic	5.879	5	14	15	1.963E-06	2.001E-03	6.831E-01	0.103	-0.008	-0.002
rs11133113	176720914	4	T	C	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	4.973	6	5	15	2.734E-05	4.594E-01	ND	-0.057	0.026	ND
rs11133115	176721192	4	G	A	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	3.519	6	5	15	4.261E-05	1.542E-05	1.981E-01	-0.056	0.007	0.004
rs11133116	176754093	4	C	T	rs62338074	17	*GPM6A*	0	intronic	ND	7	5	15	8.205E-05	1.114E-03	2.663E-02	0.056	-0.006	-0.006
rs11728789	176719707	4	T	G	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	2.456	7	5	15	2.605E-05	2.063E-05	2.011E-01	0.058	-0.007	-0.004
rs13111643	176735337	4	G	A	rs62338074	17	*GPM6A*	0	intronic	5.309	5	1	15	5.814E-04	1.868E-03	5.967E-01	-0.049	0.005	0.001
rs1390346	176717652	4	A	G	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	0.039	7	5	15	2.373E-05	2.469E-05	1.873E-01	0.058	-0.007	-0.004
rs1390347	176724385	4	C	T	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	2.272	7	1	15	2.806E-05	1.183E-05	1.621E-01	-0.057	0.007	0.004
rs1495716	176728576	4	C	T	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	ND	5	1	15	1.189E-03	1.853E-03	7.662E-01	-0.046	0.005	0.001
rs17062044	176718487	4	A	G	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	2.993	7	5	15	3.354E-04	3.870E-02	7.643E-01	0.050	-0.004	-0.001
rs17062049	176719560	4	T	C	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	2.552	5	5	15	2.874E-05	2.014E-05	2.438E-01	0.057	-0.007	-0.003
rs17062055	176721793	4	C	T	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	2.361	7	2	15	2.992E-05	1.645E-05	2.256E-01	-0.057	0.007	0.003
rs17062071	176724880	4	G	A	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	8.186	5	1	15	2.779E-05	1.216E-05	2.102E-01	-0.057	0.007	0.003
rs17062080	176727901	4	C	T	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	2.225	7	1	15	2.620E-05	4.944E-05	2.959E-01	-0.057	0.007	0.003
rs1826764	176724437	4	T	C	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	1.478	7	1	15	2.806E-05	1.183E-05	2.143E-01	0.057	-0.007	-0.003
rs1845730	176719637	4	G	A	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	0.404	7	5	15	2.626E-05	2.013E-05	1.862E-01	-0.058	0.007	0.004
rs2220918	176724778	4	T	C	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	0.467	6	1	15	2.083E-05	1.115E-05	2.203E-01	0.058	-0.007	-0.003
rs2291761	176730094	4	C	A	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	7.519	7	1	15	1.278E-05	1.518E-05	1.102E-01	-0.059	0.007	0.004
rs28549021	176726038	4	C	T	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	1.826	7	1	15	4.481E-04	1.408E-02	6.827E-01	-0.049	0.004	0.001
rs62336053	176722011	4	G	A	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_exonic	8.275	7	5	15	2.546E-05	1.801E-05	2.048E-01	-0.058	0.007	0.004
rs62336054	176723298	4	G	A	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	2.245	7	2	15	2.922E-05	1.366E-05	2.217E-01	-0.057	0.007	0.003
rs62336056	176726022	4	C	T	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	2.234	7	1	15	2.762E-05	1.391E-05	1.986E-01	-0.057	0.007	0.004
rs62336057	176726213	4	A	G	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	2.382	5	2	15	2.772E-05	4.794E-06	2.140E-01	0.057	-0.008	-0.003
rs62338074	176735335	4	T	C	rs62338074	17	*GPM6A*	0	intronic	1.714	5	1	15	8.468E-06	2.512E-05	6.360E-02	0.061	-0.007	-0.005
rs7664633	176728914	4	G	A	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	1.883	3a	1	15	2.649E-05	1.583E-05	1.803E-01	-0.057	0.007	0.004
rs7665032	176729081	4	G	A	rs62338074	17	*GPM6A:RP11-806K15.1*	0	ncRNA_intronic	1.397	2b	1	15	2.618E-05	1.810E-05	1.745E-01	-0.057	0.007	0.004
rs12516485	3269403	5	A	G	rs13163845	18	*CTD-2029E14.1*	88056	intergenic	0.793	5	9	15	5.769E-06	**3.043E-08**	1.807E-02	-0.099	0.014	0.010
rs13163845	3264389	5	C	T	rs13163845	18	*CTD-2029E14.1*	83042	intergenic	ND	6	5	15	4.512E-06	**2.099E-08**	9.581E-03	0.097	-0.014	-0.010
rs10044382	43179331	5	G	A	rs13176429	19	*ZNF131*	0	intronic	6.286	5	5	5	4.535E-06	4.000E-02	1.843E-02	0.066	-0.004	-0.007
rs10058350	43141644	5	T	C	rs13176429	19	*ZNF131*	0	intronic	0.089	4	4	4	1.916E-06	1.471E-02	1.217E-02	-0.070	0.005	0.008
rs10070751	43166783	5	G	A	rs13176429	19	*ZNF131*	0	intronic	2.159	7	4	5	6.702E-06	2.077E-02	1.491E-02	0.066	-0.004	-0.007
rs10074873	43191823	5	A	G	rs13176429	19	*ZNF131*	0	intronic	ND	4	1	2	6.290E-06	2.038E-02	3.216E-02	-0.065	0.004	0.006
rs10075647	43149499	5	G	A	rs13176429	19	*ZNF131*	0	intronic	4.434	6	4	5	2.217E-06	4.395E-02	2.302E-02	0.068	-0.004	-0.007
rs10076858	43134752	5	G	A	rs13176429	19	*ZNF131*	0	intronic	0.114	7	4	5	4.616E-06	2.024E-02	2.071E-02	0.067	-0.004	-0.007
rs10078527	43193052	5	A	G	rs13176429	19	*NIM1K*	0	UTR5	8.575	4	1	11	1.178E-05	8.279E-03	1.912E-02	-0.064	0.005	0.007
rs10214190	43184616	5	A	G	rs13176429	19	*ZNF131*	0	intronic	3.514	6	5	15	9.502E-06	1.837E-02	1.920E-02	-0.065	0.004	0.007
rs10805667	43171913	5	A	G	rs13176429	19	*ZNF131*	0	intronic	2.172	7	4	5	4.256E-06	5.134E-02	1.836E-02	-0.066	0.004	0.007
rs10941611	43162608	5	T	C	rs13176429	19	*ZNF131*	0	intronic	0.257	7	4	5	8.420E-06	2.790E-02	1.944E-02	-0.064	0.004	0.007
rs13176429	43152216	5	T	C	rs13176429	19	*ZNF131*	0	intronic	0.985	7	4	5	5.028E-07	2.450E-02	1.553E-02	-0.073	0.004	0.007
rs1532331	43116830	5	G	T	rs13176429	19	*ZNF131*	0	intronic	0.634	7	5	15	9.253E-06	4.440E-02	4.328E-02	0.065	-0.004	-0.006
rs4498259	43165943	5	G	A	rs13176429	19	*ZNF131*	0	intronic	1.701	1f	4	5	6.638E-06	2.075E-02	1.242E-02	0.066	-0.004	-0.008
rs4866808	43180535	5	C	T	rs13176429	19	*ZNF131*	0	intronic	3.503	5	4	5	3.456E-06	4.174E-02	1.833E-02	0.067	-0.004	-0.007
rs4866971	43151537	5	C	T	rs13176429	19	*ZNF131*	0	intronic	1.274	5	4	5	1.308E-06	1.352E-02	8.975E-03	0.071	-0.005	-0.008
rs6414900	43126528	5	G	A	rs13176429	19	*ZNF131*	0	intronic	3.727	5	3	4	5.512E-06	1.422E-02	1.008E-02	0.067	-0.005	-0.008
rs6451674	43110754	5	C	T	rs13176429	19	*ZNF131*	0	intronic	2.533	4	2	15	3.151E-06	6.828E-02	4.469E-02	0.067	-0.003	-0.006
rs6862639	43166254	5	T	C	rs13176429	19	*ZNF131*	0	intronic	0.563	5	4	5	6.676E-06	2.358E-02	1.490E-02	-0.066	0.004	0.007
rs6864955	43170567	5	G	A	rs13176429	19	*ZNF131*	0	intronic	5.494	6	4	5	4.729E-06	4.213E-02	2.174E-02	0.066	-0.004	-0.007
rs6870418	43111526	5	C	T	rs13176429	19	*ZNF131*	0	intronic	3.604	6	5	15	5.551E-06	3.626E-02	4.304E-02	0.067	-0.004	-0.006
rs6884303	43152799	5	T	C	rs13176429	19	*ZNF131*	0	intronic	0.361	6	2	5	8.058E-06	2.361E-02	1.442E-02	-0.065	0.004	0.007
rs6894506	43169096	5	C	T	rs13176429	19	*ZNF131*	0	intronic	0.085	1b	4	5	2.284E-05	1.662E-01	1.582E-01	0.058	-0.002	-0.004
rs7712046	43134968	5	C	T	rs13176429	19	*ZNF131*	0	intronic	ND	6	4	5	5.678E-06	1.611E-02	1.608E-02	0.066	-0.004	-0.007
rs7723426	43186097	5	T	C	rs13176429	19	*ZNF131*	0	intronic	ND	ND	5	15	9.267E-06	3.566E-02	2.797E-02	-0.064	0.004	0.006

rs7730004	43191033	5	C	T	rs13176429	19 *ZNF131*	0	intronic	ND	2a	1	5	9.089E-06	2.209E-02	2.173E-02	0.064	-0.004	-0.007
rs10044618	87781168	5	T	C	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	3.302	7	2	15	2.050E-05	**2.167E-11**	3.078E-01	-0.059	0.011	0.003
rs10060720	87763468	5	A	C	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	2.472	6	14	15	2.253E-06	**5.038E-12**	2.491E-01	-0.064	0.012	0.003
rs10942529	87647584	5	C	T	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	1.222	6	5	15	6.771E-06	**4.366E-11**	4.892E-01	-0.061	0.011	0.002
rs11952470	87763516	5	A	G	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	1.364	6	14	15	1.965E-06	**4.800E-12**	1.999E-01	-0.064	0.012	0.004
rs1430205	87678585	5	T	C	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	ND	ND	5	15	6.917E-06	**4.346E-11**	6.145E-01	-0.061	0.011	0.001
rs150004038	87607309	5	G	A	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	1.098	7	5	15	9.463E-06	1.166E-01	ND	0.060	-0.021	ND
rs1644039	87909877	5	T	C	rs4916723	20 *LINC00461*	0	ncRNA_intronic	2.773	6	9	15	1.269E-04	**4.763E-13**	9.179E-02	0.052	-0.012	-0.005
rs1823016	87612658	5	A	G	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	2.046	ND	5	15	7.440E-06	8.857E-02	ND	-0.061	0.023	ND
rs2195613	87644310	5	G	A	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	ND	7	5	15	6.356E-06	**2.111E-11**	6.090E-01	0.061	-0.011	-0.001
rs226488	87896330	5	C	T	rs4916723	20 *LINC00461*	0	ncRNA_intronic	2.831	ND	9	15	**2.491E-08**	1.320E-02	ND	-0.077	0.035	ND
rs247909	87592024	5	T	C	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	1.051	ND	5	15	1.004E-05	**2.961E-11**	5.079E-01	-0.060	0.011	0.002
rs247910	87630769	5	G	A	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	3.133	7	14	15	5.931E-06	1.610E-01	ND	0.061	-0.019	ND
rs247911	87633758	5	G	A	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	7.008	7	9	15	6.697E-06	**1.791E-11**	4.671E-01	0.061	-0.011	-0.002
rs247914	87620249	5	G	T	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	4.707	7	5	15	7.565E-06	**3.486E-11**	5.022E-01	0.061	-0.011	-0.002
rs2565726	87581913	5	C	T	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	2.624	ND	4	5	1.069E-05	**4.701E-11**	5.301E-01	0.060	-0.011	-0.002
rs2565727	87601508	5	A	G	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	4.961	7	5	15	1.046E-05	**5.196E-11**	7.016E-01	-0.060	0.011	0.001
rs2582042	87625244	5	A	G	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	1.727	6	5	15	6.679E-06	**2.093E-11**	4.979E-01	-0.061	0.011	0.002
rs2582044	87602093	5	C	T	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	0.312	ND	5	15	1.047E-05	**2.638E-11**	5.513E-01	0.060	-0.011	-0.002
rs3099437	87637449	5	T	C	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	2.499	ND	9	15	8.989E-06	**1.468E-11**	4.782E-01	-0.060	0.012	0.002
rs3099438	87557207	5	A	G	rs4916723	20 *TMEM161B*	0	intronic	0.634	ND	5	5	7.270E-06	**1.290E-10**	5.862E-01	-0.061	0.011	0.002
rs3099439	87545318	5	C	T	rs4916723	20 *TMEM161B*	0	intronic	1.926	ND	4	5	6.912E-06	**4.503E-10**	5.768E-01	0.061	-0.011	-0.002
rs3110021	87610059	5	C	A	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	0.503	7	5	15	7.678E-06	**2.087E-11**	5.409E-01	0.061	-0.011	-0.002
rs324886	87896602	5	T	C	rs4916723	20 *LINC00461*	0	ncRNA_intronic	1.463	ND	9	15	**2.502E-08**	**5.018E-17**	5.057E-03	0.077	-0.015	-0.008
rs324897	87914467	5	A	C	rs4916723	20 *LINC00461*	0	ncRNA_intronic	0.078	7	9	15	4.754E-06	3.169E-01	ND	0.062	-0.014	ND
rs324901	87920406	5	T	C	rs4916723	20 *LINC00461*	0	ncRNA_intronic	3.022	7	5	15	1.326E-04	**9.445E-14**	1.175E-01	0.052	-0.013	-0.004
rs4244212	87764618	5	A	G	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	ND	7	14	15	2.360E-06	**5.800E-12**	2.228E-01	-0.064	0.012	0.003
rs4352629	87756821	5	T	C	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	5.951	7	14	15	2.086E-06	**7.721E-12**	2.661E-01	-0.064	0.012	0.003
rs4571506	87756918	5	T	C	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	2.394	6	14	15	2.269E-06	**6.568E-12**	2.793E-01	-0.064	0.012	0.003
rs4916720	87677848	5	T	C	rs4916723	20 *TMEM161B-AS1:RPS3AP22*	0	ncRNA_exonic	4.675	7	5	15	7.021E-06	**3.665E-11**	6.240E-01	-0.061	0.011	0.001
rs4916723	87854395	5	C	A	rs4916723	20 *LINC00461*	0	ncRNA_intronic	ND	5	2	15	**1.807E-08**	**2.324E-13**	1.437E-01	-0.078	0.013	0.004
rs4916908	87679052	5	C	T	rs4916723	20 *TMEM161B-AS1:CTC-498M16.3*	0	ncRNA_exonic	1.745	7	5	15	6.700E-06	**4.664E-11**	6.302E-01	0.061	-0.011	-0.001
rs62369151	87883503	5	C	T	rs4916723	20 *LINC00461*	0	ncRNA_intronic	9.998	7	9	15	**2.099E-08**	**1.598E-16**	3.677E-03	-0.077	0.014	0.008
rs6414945	87682030	5	A	G	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	2.202	6	5	15	2.637E-06	**7.697E-12**	2.956E-01	-0.064	0.012	0.003
rs6414946	87729711	5	A	C	rs4916723	20 *TMEM161B-AS1:CTC-498M16.2:CTC-498M16.4*	0	ncRNA_exonic	1.795	7	5	15	1.190E-06	**2.160E-12**	2.482E-01	0.066	-0.012	-0.003
rs6452784	87680994	5	G	A	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	9.458	3a	5	15	2.976E-06	**7.754E-12**	4.021E-01	0.063	-0.012	-0.002
rs6452785	87685500	5	T	C	rs4916723	20 *TMEM161B-AS1*	0	ncRNA_intronic	16.44	5	1	15	2.096E-06	**2.372E-11**	3.134E-01	-0.064	0.012	0.003
rs6452791	87771093	5	C	A	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	1.525	6	5	15	2.142E-06	**5.057E-12**	1.872E-01	0.064	-0.012	-0.004
rs6866315	87754805	5	T	C	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	2.807	7	14	15	2.381E-06	**8.414E-12**	3.115E-01	-0.064	0.012	0.003
rs6873449	87773655	5	G	A	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	8.828	6	5	15	2.151E-06	**4.864E-12**	1.915E-01	0.064	-0.012	-0.004
rs6874021	87773729	5	T	G	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	ND	7	5	15	2.480E-06	**6.061E-12**	2.350E-01	-0.064	0.012	0.003
rs6891239	87769693	5	T	C	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	ND	7	5	15	2.293E-06	**5.767E-12**	2.266E-01	-0.064	0.012	0.003
rs7448716	87752695	5	G	A	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	ND	7	13	15	2.101E-06	**7.722E-12**	2.682E-01	0.064	-0.012	-0.003
rs7706932	87775691	5	C	T	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	4.042	6	5	15	2.921E-05	**4.492E-11**	2.029E-01	0.057	-0.011	-0.004
rs7708715	87712519	5	C	A	rs4916723	20 *TMEM161B-AS1:CTC-498M16.2*	0	ncRNA_intronic	4.012	5	4	15	1.504E-06	**3.326E-12**	2.635E-01	-0.065	0.012	0.003
rs7713243	87926055	5	T	C	rs4916723	20 *LINC00461*	0	ncRNA_intronic	1.992	6	14	15	3.996E-05	**4.792E-11**	1.525E-02	0.056	-0.011	-0.007
rs7722095	87740893	5	C	T	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	1.014	6	7	15	2.305E-06	**1.176E-11**	2.889E-01	0.064	-0.012	-0.003
rs7728883	87751752	5	A	G	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	5.149	7	13	15	2.426E-06	**8.407E-12**	3.090E-01	-0.064	0.012	0.003
rs9293500	87765771	5	C	T	rs4916723	20 *CTC-498M16.4*	0	ncRNA_intronic	0.758	7	14	15	2.106E-06	**4.833E-12**	1.227E-01	0.064	-0.012	-0.004
rs10041792	93032427	5	T	C	rs7733142	21 *FAM172A*	0	intronic	3.148	5	5	15	3.823E-03	**1.741E-10**	7.405E-02	-0.051	0.014	0.006
rs10044641	93032492	5	G	A	rs7733142	21 *FAM172A*	0	intronic	0.356	7	5	15	2.489E-04	**2.093E-10**	1.000E-01	0.062	-0.013	-0.005
rs10050364	93064127	5	C	T	rs7733142	21 *FAM172A*	0	intronic	2.862	5	5	15	2.662E-03	**1.469E-10**	6.201E-02	0.053	-0.014	-0.006
rs10057664	93182274	5	C	T	rs7733142	21 *FAM172A*	0	intronic	0.972	6	4	15	1.323E-03	**9.414E-10**	5.806E-02	0.057	-0.013	-0.007
rs10064158	93095186	5	T	C	rs7733142	21 *FAM172A*	0	intronic	4.538	5	5	15	2.938E-03	**4.532E-10**	4.362E-02	-0.053	0.014	0.007
rs10071040	93033999	5	T	C	rs7733142	21 *FAM172A*	0	intronic	2.365	7	5	15	4.192E-03	**1.645E-10**	6.991E-02	-0.051	0.014	0.006
rs10076965	93094972	5	A	G	rs7733142	21 *FAM172A*	0	intronic	1.201	6	5	15	2.868E-03	**4.158E-10**	4.689E-02	-0.053	0.014	0.007
rs1026279	93209581	5	C	A	rs7733142	21 *FAM172A*	0	intronic	8.471	5	5	15	1.336E-03	**7.192E-10**	5.486E-02	0.057	-0.013	-0.007
rs1031423	93276883	5	T	C	rs7733142	21 *FAM172A*	0	intronic	13.18	ND	5	15	6.155E-05	**6.876E-10**	1.061E-01	-0.069	0.013	0.005
rs1038686	93002382	5	T	G	rs7733142	21 *FAM172A*	0	intronic	3.648	ND	5	15	5.712E-03	**5.150E-10**	5.408E-02	-0.050	0.014	0.007
rs10476520	93058290	5	C	A	rs7733142	21 *FAM172A*	0	intronic	0.809	6	5	15	1.939E-03	**1.599E-10**	6.580E-02	0.055	-0.014	-0.006
rs10476588	93208330	5	C	T	rs7733142	21 *FAM172A*	0	intronic	0.409	6	4	15	1.308E-03	**3.797E-10**	5.130E-02	0.057	-0.014	-0.007
rs10476604	93461838	5	T	C	rs7733142	21 *FAM172A*	14433	intergenic	1.643	5	9	15	3.090E-05	1.537E-05	4.790E-01	-0.071	0.009	0.002
rs10866760	93338335	5	G	A	rs7733142	21 *FAM172A*	0	intronic	3.026	6	5	15	1.007E-05	**3.721E-08**	2.617E-01	0.074	-0.011	-0.004
rs11135394	93187135	5	C	T	rs7733142	21 *FAM172A*	0	intronic	0.152	7	5	15	2.320E-05	**9.357E-09**	1.488E-01	0.070	-0.012	-0.005
rs11135397	93214975	5	T	G	rs7733142	21 *FAM172A*	0	intronic	4.455	7	4	15	1.277E-03	**1.414E-09**	5.673E-02	-0.057	0.013	0.007
rs11135401	93365716	5	G	A	rs7733142	21 *FAM172A*	0	intronic	15.35	6	4	5	3.053E-05	**8.937E-09**	1.964E-01	0.071	-0.012	-0.004

rs11948511	93286601	5	A	C	rs7733142	21	*FAM172A*	0	intronic	0.419	6	5	15	3.783E-05	**4.068E-10**	1.556E-01	-0.070	0.013	0.005
rs12521461	93193322	5	G	A	rs7733142	21	*FAM172A*	0	intronic	4.307	7	5	15	2.429E-05	**4.721E-08**	1.490E-01	0.070	-0.011	-0.005
rs12653528	93212833	5	T	C	rs7733142	21	*FAM172A*	0	intronic	1.821	7	4	15	1.328E-03	**9.458E-10**	5.338E-02	-0.057	0.013	0.007
rs13165221	93096539	5	T	C	rs7733142	21	*FAM172A*	0	intronic	ND	7	5	15	1.744E-04	**4.316E-10**	6.573E-02	-0.064	0.013	0.006
rs13181456	93079924	5	C	T	rs7733142	21	*FAM172A*	0	intronic	1.212	6	5	15	2.867E-03	**3.475E-10**	5.523E-02	0.053	-0.014	-0.007
rs13184801	93096542	5	G	A	rs7733142	21	*FAM172A*	0	intronic	1.765	7	5	15	1.750E-04	**4.728E-10**	6.533E-02	0.064	-0.013	-0.006
rs13186432	93336940	5	G	A	rs7733142	21	*FAM172A*	0	intronic	2.357	7	4	15	2.665E-05	**3.009E-09**	2.042E-01	0.071	-0.012	-0.004
rs1349711	93179032	5	C	T	rs7733142	21	*FAM172A*	0	intronic	0.139	ND	5	15	1.240E-03	**5.178E-10**	5.206E-02	0.057	-0.013	-0.007
rs1453003	93151611	5	T	C	rs7733142	21	*FAM172A*	0	intronic	2.743	7	4	15	1.661E-03	**2.385E-10**	5.117E-02	-0.056	0.014	0.007
rs1901736	93175887	5	A	G	rs7733142	21	*FAM172A*	0	intronic	5.489	6	5	15	1.289E-03	**3.954E-10**	5.102E-02	-0.057	0.014	0.007
rs2045019	93201971	5	C	T	rs7733142	21	*FAM172A*	0	intronic	ND	7	4	15	1.316E-03	**6.588E-10**	4.931E-02	0.057	-0.013	-0.007
rs2045020	93224466	5	T	C	rs7733142	21	*FAM172A*	0	intronic	1.229	6	5	15	1.203E-03	**8.065E-10**	4.901E-02	-0.057	0.013	0.007
rs2045021	93224222	5	G	A	rs7733142	21	*FAM172A*	0	intronic	2.441	ND	5	15	1.229E-03	**8.926E-10**	5.412E-02	0.057	-0.013	-0.007
rs28526002	93087212	5	C	T	rs7733142	21	*FAM172A*	0	intronic	ND	6	5	15	2.130E-03	**4.619E-10**	5.709E-02	0.054	-0.014	-0.007
rs28594545	93054704	5	T	C	rs7733142	21	*FAM172A*	0	intronic	2.796	6	5	15	1.546E-03	**1.615E-10**	5.606E-02	-0.056	0.014	0.007
rs2924374	93151141	5	T	C	rs7733142	21	*FAM172A*	0	intronic	2.818	6	4	15	1.536E-03	**2.683E-10**	5.661E-02	-0.056	0.014	0.007
rs34196073	93195744	5	T	C	rs7733142	21	*FAM172A*	0	intronic	2.286	6	5	15	1.315E-03	**1.676E-09**	5.016E-02	-0.057	0.013	0.007
rs35372313	93026965	5	T	C	rs7733142	21	*FAM172A*	0	intronic	3.287	7	5	15	4.083E-03	**1.548E-10**	7.878E-02	-0.051	0.014	0.006
rs35791029	93094139	5	C	T	rs7733142	21	*FAM172A*	0	intronic	4.524	6	5	15	2.143E-03	**4.686E-10**	4.671E-02	0.054	-0.014	-0.007
rs35878747	93094070	5	A	C	rs7733142	21	*FAM172A*	0	intronic	5.478	6	5	15	2.874E-03	**4.947E-10**	4.624E-02	-0.053	0.014	0.007
rs4449516	93473009	5	G	T	rs7733142	21	*KIAA0825*	15661	intergenic	4.462	6	9	15	4.492E-05	1.981E-06	2.707E-01	0.069	-0.010	-0.004
rs60375544	93273068	5	G	T	rs7733142	21	*FAM172A*	0	intronic	1.076	6	5	15	1.401E-05	**9.171E-09**	2.676E-01	0.072	-0.012	-0.004
rs6556833	93104707	5	C	T	rs7733142	21	*FAM172A*	0	intronic	4.258	6	5	15	1.241E-04	**6.274E-10**	7.567E-02	0.065	-0.013	-0.006
rs6556834	93123067	5	C	T	rs7733142	21	*FAM172A*	0	intronic	3.748	6	5	15	1.852E-03	**5.490E-10**	4.850E-02	0.055	-0.013	-0.007
rs6556839	93206292	5	T	C	rs7733142	21	*FAM172A*	0	intronic	1.909	5	4	15	1.490E-03	**5.700E-10**	5.114E-02	-0.056	0.013	0.007
rs6860390	93494731	5	G	T	rs7733142	21	*KIAA0825*	0	intronic	1.688	5	5	15	3.592E-05	1.102E-06	3.001E-01	0.070	-0.010	-0.003
rs6868067	92999887	5	A	G	rs7733142	21	*FAM172A*	0	intronic	ND	7	5	15	2.308E-03	**1.176E-09**	9.183E-02	-0.056	0.014	0.006
rs6869110	93355531	5	G	A	rs7733142	21	*FAM172A*	0	intronic	7.639	6	4	5	1.307E-05	7.731E-08	2.535E-01	0.073	-0.011	-0.004
rs6877616	93036860	5	A	G	rs7733142	21	*FAM172A*	0	intronic	ND	7	5	15	4.708E-03	**1.365E-10**	6.632E-02	-0.050	0.014	0.006
rs6879620	93119893	5	G	A	rs7733142	21	*FAM172A*	0	intronic	4.087	7	4	15	1.918E-03	**4.501E-10**	5.369E-02	0.055	-0.014	-0.007
rs6881815	93105666	5	G	A	rs7733142	21	*FAM172A*	0	intronic	0.709	7	5	15	2.113E-03	**5.350E-10**	5.849E-02	0.054	-0.013	-0.007
rs6885725	93098302	5	C	T	rs7733142	21	*FAM172A*	0	intronic	0.734	7	5	15	3.028E-03	**5.329E-10**	4.353E-02	0.053	-0.014	-0.007
rs6886025	93098452	5	C	T	rs7733142	21	*FAM172A*	0	intronic	0.923	6	5	15	2.853E-03	4.586E-02	ND	0.053	-0.035	ND
rs6890998	93033377	5	T	C	rs7733142	21	*FAM172A*	0	intronic	17.74	6	5	15	3.977E-03	**2.315E-10**	7.745E-02	-0.051	0.014	0.006
rs6891666	93159537	5	T	C	rs7733142	21	*FAM172A*	0	intronic	2.114	6	4	15	1.644E-03	**1.109E-09**	5.603E-02	-0.056	0.013	0.007
rs6895356	93060781	5	G	A	rs7733142	21	*FAM172A*	0	intronic	2.871	5	5	15	2.244E-03	**3.959E-10**	5.161E-02	0.054	-0.014	-0.007
rs6898507	93082343	5	T	C	rs7733142	21	*FAM172A*	0	intronic	0.628	4	5	15	2.915E-03	**3.598E-10**	5.057E-02	-0.053	0.014	0.007
rs71639293	92995013	5	G	A	rs7733142	21	*FAM172A*	0	intronic	17.39	5	5	15	5.016E-05	**4.092E-09**	1.806E-01	0.074	-0.013	-0.005
rs72786643	93038598	5	C	T	rs7733142	21	*FAM172A*	0	intronic	0.874	6	5	15	3.139E-03	**8.891E-11**	6.052E-02	0.052	-0.014	-0.007
rs72786644	93038599	5	A	G	rs7733142	21	*FAM172A*	0	intronic	1.945	6	5	15	3.418E-03	**6.951E-11**	6.078E-02	-0.052	0.014	0.007
rs7701114	93096028	5	C	T	rs7733142	21	*FAM172A*	0	intronic	1.105	7	5	15	2.141E-03	**4.054E-10**	4.728E-02	0.054	-0.014	-0.007
rs7702348	93065683	5	A	G	rs7733142	21	*FAM172A*	0	intronic	19.72	7	5	15	2.435E-03	**3.889E-10**	5.248E-02	-0.054	0.014	0.007
rs7702649	93065149	5	A	C	rs7733142	21	*FAM172A*	0	intronic	4.589	7	5	15	2.732E-03	**1.260E-10**	5.658E-02	-0.053	0.014	0.007
rs7708175	93381182	5	A	G	rs7733142	21	*FAM172A*	0	intronic	1.882	6	4	5	3.625E-05	**2.517E-09**	1.655E-01	-0.070	0.012	0.005
rs7713956	93133185	5	T	C	rs7733142	21	*FAM172A*	0	intronic	8.925	7	5	15	1.628E-03	**4.981E-10**	5.349E-02	-0.056	0.014	0.007
rs7721668	93290995	5	G	A	rs7733142	21	*FAM172A*	0	intronic	ND	7	4	15	1.343E-05	**1.388E-08**	2.169E-01	0.073	-0.012	-0.004
rs7727923	93321900	5	C	T	rs7733142	21	*FAM172A*	0	intronic	1.212	7	5	15	9.668E-06	**4.043E-08**	2.633E-01	0.074	-0.011	-0.004
rs7728825	93384594	5	T	C	rs7733142	21	*FAM172A*	0	intronic	8.482	6	4	5	1.127E-05	**4.259E-08**	2.651E-01	-0.074	0.011	0.004
rs7729807	93104089	5	T	C	rs7733142	21	*FAM172A*	0	intronic	2.201	6	5	15	2.075E-03	**4.286E-10**	5.517E-02	-0.054	0.014	0.007
rs7732578	93410244	5	C	T	rs7733142	21	*FAM172A*	0	intronic	7.237	6	5	15	1.356E-05	9.578E-08	2.871E-01	0.073	-0.011	-0.003
rs7733142	93322795	5	C	A	rs7733142	21	*FAM172A*	0	intronic	0.042	6	5	15	9.620E-06	**3.409E-08**	2.925E-01	0.074	-0.011	-0.003
rs7735009	93260865	5	T	C	rs7733142	21	*FAM172A*	0	intronic	6.564	6	5	15	1.527E-05	**1.631E-08**	2.139E-01	-0.072	0.012	0.004
rs7736892	93205597	5	G	A	rs7733142	21	*FAM172A*	0	intronic	4.413	7	5	15	1.216E-03	**5.209E-10**	5.342E-02	0.057	-0.013	-0.007
rs896729	93222178	5	A	G	rs7733142	21	*FAM172A*	0	intronic	ND	ND	5	15	1.356E-03	**7.447E-10**	4.222E-02	-0.057	0.013	0.007
rs9314086	93021996	5	T	G	rs7733142	21	*FAM172A*	0	intronic	1.235	7	5	15	2.816E-03	**2.378E-10**	9.132E-02	-0.053	0.014	0.006
rs9314087	93107933	5	A	G	rs7733142	21	*FAM172A*	0	intronic	0.8	6	5	15	1.942E-03	1.488E-02	ND	-0.055	0.049	ND
rs10040923	103822036	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.897	7	5	15	6.704E-06	1.104E-04	2.006E-01	0.061	-0.007	0.004
rs10052804	103919822	5	A	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.596	6	5	15	1.528E-05	9.669E-06	9.529E-01	0.058	-0.008	0.000
rs10053368	103914758	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	ND	7	5	15	1.402E-05	9.412E-06	9.033E-01	0.059	-0.008	0.000
rs10054977	103914836	5	T	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.117	7	5	15	1.402E-05	8.910E-06	9.345E-01	0.059	-0.008	0.000
rs10057459	103918699	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.237	6	5	15	1.512E-05	8.896E-06	9.460E-01	-0.058	0.008	0.000
rs10057469	103918749	5	G	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.217	7	5	15	1.532E-05	8.662E-06	9.367E-01	-0.058	0.008	0.000
rs10059133	103901424	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.998	7	7	15	3.358E-06	3.157E-05	5.449E-01	-0.063	0.007	-0.002
rs10059643	103919840	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.667	6	5	15	1.447E-05	9.672E-06	9.248E-01	-0.059	0.008	0.000
rs10064425	103899690	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.541	6	9	15	7.044E-06	1.539E-05	9.184E-01	0.061	-0.007	0.000
rs10071115	103912208	5	A	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.931	6	5	15	3.545E-05	6.460E-06	9.232E-01	-0.056	0.008	0.000
rs10072579	103918228	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	6.795	7	5	15	1.534E-05	9.379E-06	9.454E-01	-0.058	0.008	0.000
rs10072849	103918622	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.331	6	5	15	1.519E-05	8.653E-06	9.472E-01	-0.058	0.008	0.000

rs10078807	103912319	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.298	6	5	15	3.919E-05	6.486E-06	9.015E-01	0.056	-0.008	0.000
rs10455065	103941401	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.74	7	15	15	9.228E-06	5.708E-05	9.868E-01	0.060	-0.007	0.000
rs10455066	103941415	5	T	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.559	6	15	15	9.118E-06	5.170E-05	9.758E-01	0.060	-0.007	0.000
rs10477834	103917352	5	A	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.011	6	5	15	1.532E-05	8.634E-06	9.192E-01	0.058	-0.008	0.000
rs10479296	103915443	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.711	5	5	15	1.419E-05	7.484E-06	9.141E-01	-0.059	0.008	0.000
rs10479297	103915728	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.678	7	5	15	1.397E-05	6.724E-06	9.497E-01	0.059	-0.008	0.000
rs11242522	103904914	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.017	6	9	15	7.473E-06	1.481E-05	9.482E-01	0.061	-0.007	0.000
rs11738191	103913202	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.006	5	15	15	1.410E-05	8.701E-06	9.158E-01	0.059	-0.008	0.000
rs11738197	103913264	5	A	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.157	5	15	15	1.385E-05	6.620E-06	9.610E-01	0.059	-0.008	0.000
rs11747125	103847569	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.171	7	9	15	5.002E-06	6.905E-05	2.506E-01	0.062	-0.007	0.003
rs11747766	103838556	5	G	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	4.531	7	9	15	6.097E-06	7.665E-05	2.420E-01	-0.061	0.007	-0.003
rs11955377	103861597	5	C	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	4.847	6	15	15	5.427E-06	8.802E-05	2.239E-01	-0.061	0.007	-0.003
rs11958220	103843517	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.271	7	9	15	4.970E-06	6.284E-05	2.477E-01	0.062	-0.007	0.003
rs12055234	104037760	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.379	7	15	15	9.843E-07	**7.416E-12**	7.050E-02	0.071	-0.012	-0.005
rs12187898	103939674	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.332	6	9	15	8.161E-06	3.149E-05	9.947E-01	-0.060	0.007	0.000
rs12187903	103939770	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	ND	7	9	15	8.513E-06	3.261E-05	9.716E-01	-0.060	0.007	0.000
rs12515429	103905275	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.457	6	9	15	7.550E-06	1.488E-05	9.452E-01	-0.061	0.007	0.000
rs12657531	103903837	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.68	7	9	15	7.387E-06	2.309E-05	9.262E-01	0.061	-0.007	0.000
rs12658007	103904034	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.887	6	9	15	7.194E-06	1.616E-05	9.869E-01	0.061	-0.007	0.000
rs12658019	103904108	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.126	7	9	15	1.055E-05	2.917E-06	9.843E-01	0.060	-0.008	0.000
rs12658032	103904226	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.375	7	9	15	1.154E-07	**3.052E-10**	6.856E-02	0.075	-0.011	-0.005
rs12658276	103915282	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.784	5	5	15	1.410E-05	8.418E-06	9.372E-01	0.059	-0.008	0.000
rs12658451	103904037	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	ND	6	9	15	7.423E-06	1.617E-05	9.530E-01	0.061	-0.007	0.000
rs12659431	103903766	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	ND	7	9	15	3.330E-06	3.567E-05	5.345E-01	-0.063	0.007	-0.002
rs12659965	103904399	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.102	6	9	15	6.317E-06	4.715E-06	ND	-0.061	0.062	ND
rs12719532	103822938	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.849	7	5	15	9.781E-06	7.386E-05	1.746E-01	-0.060	0.007	-0.004
rs13162928	103736802	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	15.79	5	7	15	1.921E-06	4.675E-05	7.346E-01	-0.067	0.007	0.001
rs13165289	103836995	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.206	7	9	15	5.123E-06	7.372E-04	2.314E-01	-0.062	0.006	-0.003
rs13166408	103741966	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.652	7	9	15	2.863E-06	1.226E-02	ND	0.066	-0.036	ND
rs13166522	103817315	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.842	7	14	15	1.404E-05	3.572E-05	ND	0.059	-0.057	ND
rs13172611	103913268	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.004	5	15	15	1.393E-05	6.620E-06	9.639E-01	-0.059	0.008	0.000
rs13177365	103914543	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.007	6	7	15	1.490E-05	8.913E-06	9.204E-01	-0.059	0.008	0.000
rs13177473	103745044	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.994	7	5	15	2.780E-06	3.601E-05	6.275E-01	-0.066	0.007	0.001
rs13181679	103737890	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.593	6	14	15	3.635E-06	8.238E-05	6.447E-01	0.065	-0.007	-0.001
rs13187104	103841272	5	G	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.42	6	9	15	5.968E-06	7.158E-05	2.509E-01	-0.061	0.007	-0.003
rs1363096	103876193	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	5.674	ND	5	15	6.033E-06	7.670E-05	2.439E-01	0.061	-0.007	0.003
rs1363097	103875902	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.794	ND	5	15	8.024E-06	7.364E-05	2.639E-01	0.060	-0.007	0.003
rs1363098	103867339	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.625	7	5	15	6.661E-06	8.653E-05	2.474E-01	0.061	-0.007	0.003
rs1363101	103941070	5	T	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	4.862	ND	15	15	9.766E-06	6.378E-05	9.864E-01	0.060	-0.007	0.000
rs1363102	103917867	5	G	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.045	ND	5	15	1.318E-05	8.650E-06	9.137E-01	-0.059	0.008	0.000
rs1363105	103917790	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.674	ND	5	15	1.394E-05	2.610E-05	ND	-0.059	0.057	ND
rs1372500	103758742	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.644	ND	15	15	1.573E-06	8.900E-05	7.001E-01	-0.068	0.007	0.001
rs1372504	103749428	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.286	7	9	15	1.662E-05	1.401E-04	9.712E-01	0.060	-0.007	0.000
rs1421665	103914014	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	ND	ND	7	15	1.404E-05	8.703E-06	9.299E-01	-0.059	0.008	0.000
rs1421666	103908410	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.758	ND	5	15	8.035E-06	1.306E-05	9.512E-01	0.060	-0.007	0.000
rs1421667	103907606	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.179	ND	5	15	7.789E-06	1.338E-05	9.212E-01	-0.060	0.007	0.000
rs1421668	103902958	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.497	ND	9	15	7.269E-06	1.629E-05	9.396E-01	-0.061	0.007	0.000
rs1442111	103771206	5	T	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.561	7	15	15	2.138E-06	6.058E-05	6.068E-01	0.067	-0.007	-0.001
rs1442114	103717385	5	C	A	rs12658032	22	*RP11-6N13.1*	1613	intergenic	0.557	7	9	15	1.059E-06	2.932E-04	8.230E-01	-0.068	0.006	0.001
rs1530303	103723455	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.889	7	9	15	2.285E-06	1.220E-04	7.949E-01	0.066	-0.007	-0.001
rs1561780	103682279	5	A	G	rs12658032	22	*RP11-6N13.1*	36719	intergenic	2.016	ND	5	15	2.924E-06	1.632E-04	4.374E-01	0.066	-0.007	-0.002
rs1582419	103870101	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.575	ND	5	15	9.600E-06	9.624E-05	1.965E-01	-0.060	0.007	-0.004
rs1583953	103750804	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.967	6	13	15	2.417E-06	5.171E-05	6.467E-01	0.066	-0.007	-0.001
rs1592754	103938115	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.368	ND	9	15	1.802E-05	1.232E-05	8.495E-01	-0.058	0.007	0.001
rs161645	104069917	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.481	3a	7	15	2.005E-06	**1.007E-11**	5.848E-02	0.069	-0.012	-0.006
rs17156671	103905410	5	A	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.207	5	7	15	7.439E-06	1.413E-05	9.356E-01	0.061	-0.007	0.000
rs1833514	103896130	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.329	ND	9	15	7.027E-06	1.687E-05	9.567E-01	-0.061	0.007	0.000
rs185260	103965223	5	C	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	16.63	7	14	15	5.487E-05	9.021E-06	8.187E-01	-0.055	0.008	-0.001
rs1899386	103704857	5	T	C	rs12658032	22	*RP11-6N13.1*	14141	intergenic	1.079	7	14	15	1.718E-06	6.778E-04	4.572E-01	0.067	-0.006	-0.002
rs2018142	103941793	5	C	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.324	6	7	15	5.381E-06	6.912E-05	9.479E-01	-0.061	0.007	0.000
rs2028526	103766154	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.419	7	9	15	1.806E-06	6.072E-05	5.995E-01	-0.067	0.007	0.002
rs2032790	103908246	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.623	ND	5	15	8.012E-06	1.377E-05	9.450E-01	-0.060	0.007	0.000
rs2112163	103946482	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	4.396	ND	5	15	2.810E-05	5.503E-06	7.516E-01	0.057	-0.008	0.001
rs21126	104013782	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.389	7	9	15	2.514E-06	1.457E-06	5.272E-01	-0.065	0.008	-0.002
rs2161097	103945178	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.257	ND	5	15	2.402E-05	4.891E-06	7.879E-01	0.057	-0.008	0.001
rs2403284	103906073	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.398	7	5	15	7.414E-06	1.396E-05	9.606E-01	-0.061	0.007	0.000
rs2403304	103733250	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.788	ND	9	15	1.376E-05	1.597E-04	8.607E-01	-0.061	0.007	0.000
rs2403326	103791044	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	ND	6	15	15	2.916E-05	5.453E-05	1.625E-01	-0.057	0.007	-0.004

rs2431108	103947968	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	18.71	ND	7	15	4.471E-07	**1.801E-11**	8.570E-02	-0.073	0.012	0.005
rs2431109	103945126	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.473	ND	5	15	3.116E-05	4.966E-06	7.153E-01	-0.057	0.008	-0.001
rs2431112	103931707	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	ND	ND	9	15	1.691E-05	6.023E-06	5.080E-01	0.059	-0.008	0.002
rs2447827	103948045	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.375	ND	9	15	2.382E-05	1.081E-05	7.234E-01	0.058	-0.008	0.001
rs2447828	103947205	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.786	ND	5	15	2.336E-05	5.447E-06	7.429E-01	0.058	-0.008	0.001
rs2447832	103933473	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	8.006	ND	9	15	1.912E-05	9.562E-06	4.791E-01	0.058	-0.008	0.002
rs2447838	103927579	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	ND	7	9	15	1.989E-05	5.461E-06	5.179E-01	0.058	-0.008	0.002
rs254011	103920770	5	A	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	4.477	ND	5	15	3.514E-05	2.346E-06	6.080E-01	0.056	-0.008	0.001
rs254013	103926044	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.002	ND	9	15	3.786E-05	3.045E-06	6.116E-01	0.056	-0.008	0.001
rs254020	103950251	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.618	ND	15	15	4.912E-05	1.157E-05	7.524E-01	0.055	-0.008	0.001
rs254023	103955361	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.308	ND	7	15	4.710E-05	1.283E-05	7.081E-01	-0.055	0.007	-0.001
rs254024	103944020	5	T	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.573	ND	5	15	2.574E-05	4.956E-06	7.686E-01	0.057	-0.008	0.001
rs254045	103959345	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.148	ND	15	15	4.315E-05	9.679E-06	7.697E-01	-0.056	0.008	-0.001
rs2860455	103802354	5	A	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	8.822	6	9	15	1.710E-05	3.681E-05	2.461E-01	0.058	-0.007	0.003
rs2896539	103696430	5	C	A	rs12658032	22	*RP11-6N13.1*	22568	intergenic	1.221	ND	15	15	3.500E-06	1.320E-04	4.110E-01	-0.065	0.007	0.002
rs2919961	103795692	5	A	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.794	6	9	15	2.968E-05	3.593E-05	2.658E-01	0.057	-0.007	0.003
rs2963222	103698728	5	G	A	rs12658032	22	*RP11-6N13.1*	20270	intergenic	2.186	ND	5	15	4.257E-06	6.715E-04	3.285E-01	-0.064	0.006	0.003
rs2963227	103705870	5	A	G	rs12658032	22	*RP11-6N13.1*	13128	intergenic	ND	7	5	15	2.874E-06	4.690E-04	4.350E-01	0.065	-0.006	-0.002
rs30266	103972357	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.788	ND	15	15	4.023E-07	**1.905E-11**	7.221E-02	0.073	-0.012	-0.005
rs323509	104082179	5	A	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.112	ND	9	15	1.655E-06	**1.812E-11**	6.700E-02	0.070	-0.012	-0.005
rs325481	104000752	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	5.618	ND	9	15	2.553E-06	3.921E-07	6.196E-01	-0.065	0.009	-0.001
rs325485	103995368	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	19.55	3a	5	15	3.781E-06	2.928E-06	7.866E-01	0.064	-0.008	0.001
rs325500	104006667	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	4.565	5	14	15	4.695E-06	5.666E-07	6.142E-01	0.063	-0.009	0.001
rs325502	104008133	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	8.438	6	9	15	1.694E-06	1.462E-06	5.485E-01	-0.066	0.008	-0.002
rs325521	104043156	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.731	5	7	15	6.317E-06	1.028E-06	5.506E-01	-0.062	0.008	-0.002
rs325523	104045386	5	C	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.731	6	7	15	2.419E-06	1.196E-06	5.585E-01	-0.064	0.008	-0.002
rs33817	103978326	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.429	ND	7	15	4.964E-05	5.878E-06	8.662E-01	0.055	-0.008	0.000
rs35207728	103917304	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.08	6	5	15	1.142E-05	2.982E-05	ND	0.060	-0.057	ND
rs35313049	103806932	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.078	6	9	15	1.852E-05	4.581E-05	2.787E-01	-0.058	0.007	-0.003
rs35792668	103917300	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.035	6	5	15	1.142E-05	2.978E-05	ND	0.060	-0.057	ND
rs35949602	103736622	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.396	7	7	15	2.343E-06	5.995E-05	7.721E-01	0.066	-0.007	-0.001
rs410915	104034140	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.639	ND	8	9	4.206E-06	9.808E-07	5.552E-01	-0.063	0.008	-0.002
rs416223	103991476	5	C	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.738	ND	9	15	3.499E-06	7.513E-07	5.984E-01	-0.064	0.009	-0.001
rs4235642	103818412	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.694	5	9	15	3.383E-07	**1.460E-09**	2.966E-01	-0.072	0.011	0.003
rs4295362	103908868	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.242	7	7	15	7.351E-06	1.272E-05	9.176E-01	-0.061	0.007	0.000
rs4320234	103895115	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.915	7	9	15	7.375E-06	1.438E-05	9.654E-01	-0.061	0.007	0.000
rs4438849	103895102	5	G	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.848	7	9	15	3.336E-06	2.606E-05	5.537E-01	-0.063	0.007	-0.002
rs4482879	103878652	5	C	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.464	7	9	15	6.712E-06	8.478E-05	2.630E-01	-0.061	0.007	-0.003
rs4510551	103729262	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.571	7	9	15	1.768E-06	1.142E-04	7.771E-01	0.067	-0.007	-0.001
rs4515268	103874262	5	G	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.272	6	5	15	6.656E-06	7.174E-05	2.667E-01	-0.061	0.007	-0.003
rs4521446	103897758	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.084	6	9	15	7.039E-06	1.604E-05	9.400E-01	-0.061	0.007	0.000
rs4703040	103879813	5	T	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.406	6	15	15	6.531E-06	8.657E-05	2.568E-01	0.061	-0.007	0.003
rs55649128	103743732	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	8.283	7	5	15	1.059E-05	5.628E-05	8.430E-01	0.061	-0.007	0.001
rs60271	104078233	5	A	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.697	7	9	15	1.639E-06	**1.748E-11**	4.326E-02	0.070	-0.012	-0.006
rs60734212	103812660	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.197	6	9	15	1.856E-05	4.720E-05	2.420E-01	0.058	-0.007	0.003
rs62362442	103911784	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.744	7	1	15	1.730E-05	5.501E-06	ND	-0.058	0.062	ND
rs62362443	103912114	5	C	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.826	7	5	15	2.776E-05	1.006E-05	9.239E-01	0.057	-0.007	0.000
rs62362459	103916831	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.923	7	5	15	1.530E-05	8.851E-06	9.396E-01	0.058	-0.008	0.000
rs6421926	104075130	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.447	6	9	15	1.234E-06	**3.258E-12**	2.970E-02	0.071	-0.013	-0.006
rs6596578	103899178	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.545	7	9	15	6.897E-06	1.694E-05	9.450E-01	-0.061	0.007	0.000
rs67909927	103827658	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.727	5	5	15	5.335E-06	1.047E-04	2.265E-01	-0.062	0.007	-0.003
rs6865511	103902180	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	6.562	7	7	15	7.353E-06	1.625E-05	9.336E-01	-0.061	0.007	0.000
rs6867409	103890096	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	6.056	6	9	15	4.034E-06	3.178E-05	5.641E-01	0.062	-0.007	0.002
rs6869862	103886213	5	G	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.559	5	7	15	6.718E-06	3.614E-05	4.194E-01	-0.061	0.007	-0.002
rs6874138	103899596	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.286	7	9	15	3.125E-06	2.601E-05	5.410E-01	0.063	-0.007	0.002
rs6881764	103810310	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.714	6	9	15	1.979E-05	4.670E-05	2.450E-01	0.058	-0.007	0.003
rs72776989	103751465	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.367	6	9	15	2.472E-06	5.022E-05	6.546E-01	0.066	-0.007	-0.001
rs768792	103757005	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	3.306	ND	7	15	1.593E-06	7.097E-05	6.683E-01	-0.068	0.007	0.001
rs768905	103909664	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.704	7	5	15	8.295E-06	1.192E-05	9.093E-01	0.060	-0.007	0.000
rs7703746	103907337	5	G	A	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	2.197	6	5	15	4.709E-06	9.066E-06	6.559E-01	-0.062	0.008	-0.001
rs7706353	103895016	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.025	7	9	15	7.053E-06	1.633E-05	9.511E-01	0.061	-0.007	0.000
rs7706513	103832094	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.434	7	5	15	4.668E-06	1.271E-04	2.422E-01	0.062	-0.007	0.003
rs7710489	103916349	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	0.556	7	5	15	1.531E-05	9.341E-06	9.123E-01	0.058	-0.008	0.000
rs77960	103964585	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.954	ND	9	15	4.111E-07	**1.321E-11**	5.685E-02	0.073	-0.012	-0.006
rs876392	103769681	5	T	C	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.464	ND	9	15	1.998E-06	6.749E-05	5.558E-01	0.067	-0.007	-0.002
rs920623	103771888	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	ND	6	15	15	2.019E-06	4.038E-05	5.532E-01	0.068	-0.007	-0.002
rs959857	103909548	5	C	T	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.869	6	5	15	8.272E-06	1.273E-05	9.296E-01	-0.060	0.007	0.000
rs964040	103705506	5	G	A	rs12658032	22	*RP11-6N13.1*	13492	intergenic	5.743	ND	15	15	1.950E-06	5.360E-04	4.118E-01	-0.067	0.006	0.002

rs969397	103863877	5	A	G	rs12658032	22	*RP11-6N13.1*	0	ncRNA_intronic	1.887		6	9	15	5.787E-06	7.314E-05	2.448E-01	0.061	-0.007	0.003
rs10807184	37483713	6	C	T	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	6.302	3a		2	7	1.106E-04	6.476E-06	1.418E-01	-0.052	0.008	0.004
rs10947675	37479972	6	G	A	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	4.767	3a		5	13	1.742E-04	1.009E-05	1.206E-01	-0.051	0.008	0.004
rs11755329	37368362	6	T	C	rs57349798	23	*RNF8*	5847	intergenic	1.679		7	5	15	1.064E-02	1.904E-04	9.868E-02	-0.038	0.006	0.009
rs11756241	37445101	6	C	T	rs57349798	23	*CMTR1*	0	intronic	14.33		5	4	4	2.210E-03	2.898E-05	3.101E-01	-0.041	0.007	0.003
rs11969056	37484285	6	C	T	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	6.363		4	2	7	4.692E-05	4.470E-06	1.798E-01	-0.055	0.008	0.004
rs12202664	37481198	6	A	G	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	3.689		5	2	13	1.327E-04	6.400E-06	1.411E-01	0.052	-0.008	-0.004
rs12211110	37466232	6	A	G	rs57349798	23	*CCDC167*	0	intronic	ND	1f		1	5	1.315E-03	3.105E-05	3.758E-01	0.044	-0.007	-0.002
rs1757186	37484111	6	A	G	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	2.636		4	2	7	6.780E-05	5.099E-06	1.769E-01	0.054	-0.008	-0.004
rs1757188	37483808	6	A	G	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	3.868	1b		2	7	8.773E-05	5.997E-06	1.949E-01	0.053	-0.008	-0.004
rs1757191	37482871	6	C	T	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	3.956	ND		2	7	9.015E-05	6.271E-06	1.456E-01	-0.053	0.008	0.004
rs1776454	37482099	6	C	T	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	2.978	3a		2	7	8.342E-05	6.275E-06	1.419E-01	-0.053	0.008	0.004
rs2270687	37418263	6	A	G	rs57349798	23	*CMTR1*	0	intronic	4.883	ND		4	4	2.089E-03	3.642E-05	2.832E-01	0.042	-0.007	-0.003
rs2776870	37481364	6	C	A	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	6.218		5	2	13	9.864E-05	6.027E-06	1.428E-01	-0.053	0.008	0.004
rs2776871	37481759	6	A	G	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	2.983		5	2	13	8.797E-05	5.563E-06	1.416E-01	0.053	-0.008	-0.004
rs2776874	37483197	6	G	A	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	1.381		7	2	7	8.657E-05	6.314E-06	1.595E-01	-0.053	0.008	0.004
rs2776920	37480605	6	G	A	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	4.769	2b		1	13	1.057E-04	2.940E-03	ND	-0.053	0.041	ND
rs2797794	37480604	6	T	C	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	1.507	2b		1	13	1.031E-04	6.379E-06	1.412E-01	0.053	-0.008	-0.004
rs2797795	37480683	6	T	C	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	1.576		4	1	13	1.034E-04	7.155E-06	1.429E-01	0.053	-0.008	-0.004
rs2797796	37480886	6	T	C	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	5.692		4	2	13	1.018E-04	5.429E-06	1.325E-01	0.053	-0.008	-0.004
rs2797798	37481437	6	C	T	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	2.642		5	2	13	9.798E-05	6.026E-06	1.377E-01	-0.053	0.008	0.004
rs2797799	37483620	6	T	G	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	ND	2b		2	7	8.548E-05	5.703E-06	1.694E-01	0.053	-0.008	-0.004
rs3818985	37484214	6	G	T	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	8.672		4	2	7	8.092E-05	6.265E-06	1.744E-01	-0.053	0.008	0.004
rs3818986	37484349	6	C	A	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	5.798	2b		2	7	7.872E-05	1.207E-05	2.160E-01	-0.054	0.007	0.003
rs4714068	37455642	6	T	G	rs57349798	23	*CCDC167*	0	intronic	ND	1b		4	5	1.904E-03	2.581E-05	2.893E-01	0.042	-0.007	-0.003
rs4714070	37473198	6	C	T	rs57349798	23	*RP1-153P14.8*	1925	intergenic	3.989		5	5	15	2.301E-04	2.521E-05	2.015E-01	-0.050	0.007	0.003
rs4714071	37474393	6	C	T	rs57349798	23	*RP1-153P14.8*	730	upstream	4.731		5	5	15	1.998E-04	2.538E-05	2.697E-01	-0.051	0.007	0.003
rs57349798	37486052	6	A	G	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	2.771		5	2	14	6.270E-06	**7.595E-10**	3.857E-02	-0.066	0.011	0.006
rs62406510	37412735	6	G	A	rs57349798	23	*CMTR1*	0	intronic	1.503		7	4	4	2.872E-03	3.809E-05	3.109E-01	-0.040	0.007	0.003
rs62408395	37488001	6	C	A	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	2.236		7	5	14	1.049E-04	6.325E-06	1.269E-01	-0.053	0.008	0.004
rs6903910	37487722	6	G	A	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	ND		7	5	14	2.016E-04	8.291E-06	3.553E-01	-0.051	0.008	0.003
rs6921922	37483428	6	G	T	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	0.821		7	2	7	1.086E-04	6.489E-06	1.326E-01	-0.052	0.008	0.004
rs882322	37484103	6	A	G	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	6.341		4	2	7	7.072E-05	5.233E-06	1.814E-01	0.054	-0.008	-0.004
rs914348	37484729	6	G	A	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	ND	ND		1	7	4.797E-05	6.490E-06	2.087E-01	-0.055	0.008	0.003
rs9349039	37480392	6	A	G	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	ND	2b		2	13	1.033E-04	3.068E-06	9.492E-02	0.053	-0.008	-0.005
rs9366935	37480404	6	C	T	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	7.269		4	2	13	1.054E-04	3.247E-06	9.993E-02	-0.053	0.008	0.005
rs9369005	37483109	6	T	C	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	3.438	1b		2	7	1.149E-04	6.673E-06	1.320E-01	0.052	-0.008	-0.004
rs9380673	37415125	6	T	C	rs57349798	23	*CMTR1*	0	intronic	5.143		6	4	4	2.961E-03	4.160E-05	2.920E-01	0.040	-0.007	-0.003
rs9380677	37480366	6	A	G	rs57349798	23	*RP1-153P14.8*	0	ncRNA_intronic	1.335		4	2	13	1.401E-04	5.682E-06	1.368E-01	0.052	-0.008	-0.004
rs141547796	50615935	6	A	G	rs78648104	24	*RP1-28O17.1*	11016	intergenic	7.742		7	9	15	9.640E-08	1.402E-05	3.443E-06	-0.137	0.013	0.022
rs3857597	50912055	6	A	G	rs141547796	24	*FTH1P5*	31085	intergenic	1.033	ND		15	15	1.937E-05	4.093E-06	1.217E-05	-0.097	0.013	0.018
rs9381917	50911334	6	A	G	rs141547796	24	*FTH1P5*	30364	intergenic	1.146		6	15	15	1.782E-05	3.690E-06	1.108E-05	-0.098	0.013	0.018
rs9395644	50923637	6	G	A	rs141547796	24	*FTH1P5*	42667	intergenic	2.692		7	7	15	2.521E-05	2.681E-06	1.852E-05	0.096	-0.013	-0.017
rs10457368	98259776	6	A	G	rs4839923	25	*RP11-436D23.1*	4808	intergenic	ND		7	5	15	3.610E-06	**1.065E-15**	**1.435E-09**	0.063	-0.014	-0.017
rs10872204	98322436	6	C	T	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	0.213		6	5	15	3.380E-04	**5.883E-19**	**1.807E-11**	-0.050	0.015	0.019
rs11153822	98214814	6	T	C	rs4839923	25	*RP1-104O17.2*	34225	intergenic	0.228		7	5	15	1.489E-03	**1.449E-15**	**1.301E-11**	-0.044	0.014	0.019
rs11755344	98286626	6	T	C	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	2.571		7	5	15	5.973E-06	**1.367E-15**	**5.605E-09**	0.062	-0.014	-0.016
rs11962819	98282773	6	T	C	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	1.098		7	5	15	6.762E-06	**6.030E-16**	**5.576E-09**	0.061	-0.014	-0.016
rs12208753	98248413	6	A	G	rs4839923	25	*RP11-436D23.1*	16171	intergenic	0.88		7	5	15	2.839E-05	**2.254E-16**	**2.054E-10**	-0.057	0.014	0.018
rs1338548	98312172	6	T	C	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	ND	ND		5	15	2.489E-04	**4.388E-19**	**9.632E-12**	0.051	-0.015	-0.019
rs1343667	98293830	6	C	T	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	1.955	ND		5	15	6.394E-06	**3.695E-16**	**1.109E-09**	-0.062	0.014	0.017
rs1416221	98301643	6	A	G	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	3.061		7	5	15	6.134E-06	**7.051E-16**	**6.341E-09**	0.062	-0.014	-0.016
rs1538360	98276688	6	A	G	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	0.636	ND		4	15	3.741E-06	**6.223E-15**	**3.061E-09**	0.063	-0.013	-0.016
rs17754668	98303377	6	G	A	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	1.198		6	5	15	6.058E-06	**7.572E-16**	**3.826E-09**	-0.062	0.014	0.016
rs1933717	98271019	6	T	C	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	19.74		6	5	15	2.497E-06	**1.617E-15**	**4.144E-09**	0.064	-0.014	-0.016
rs2388195	98283960	6	C	A	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	3.306	ND		5	15	6.307E-06	**6.052E-16**	**5.637E-09**	-0.062	0.014	0.016
rs4839713	98263613	6	G	A	rs4839923	25	*RP11-436D23.1*	971	upstream	ND		5	5	15	2.883E-06	**1.040E-15**	**1.929E-09**	-0.064	0.014	0.017
rs4839922	98230758	6	G	A	rs4839923	25	*RP11-436D23.1*	33826	intergenic	ND		7	1	15	5.233E-05	4.875E-03	ND	-0.055	0.039	ND
rs4839923	98274701	6	A	G	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	2.008		7	5	15	1.900E-06	**2.463E-15**	**1.117E-08**	0.065	-0.014	-0.016
rs4839924	98313975	6	C	T	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	0.97		7	5	15	3.255E-04	**5.118E-19**	**1.409E-11**	-0.050	0.015	0.019
rs6569109	98283371	6	G	A	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	5.428		6	5	15	6.759E-06	**5.229E-16**	**5.148E-09**	-0.061	0.014	0.016
rs675974	98237598	6	T	C	rs4839923	25	*RP11-436D23.1*	26986	intergenic	2.004		7	5	15	5.537E-05	**1.747E-12**	**1.845E-08**	0.055	-0.012	-0.015
rs6907471	98251222	6	T	C	rs4839923	25	*RP11-436D23.1*	13362	intergenic	7.051		6	5	15	7.635E-06	2.608E-04	ND	0.061	-0.051	ND
rs6908348	98328077	6	T	C	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	0.293		6	5	15	2.856E-04	**2.754E-19**	**1.239E-11**	0.050	-0.015	-0.019
rs6915773	98287329	6	G	A	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	3.341		7	5	15	6.792E-06	**4.470E-16**	**1.202E-09**	-0.061	0.014	0.017
rs6929455	98327350	6	G	T	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	2.644		7	5	15	3.370E-04	**4.706E-19**	**1.806E-11**	-0.050	0.015	0.019
rs7747481	98315696	6	T	C	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	1.848		6	5	15	2.898E-04	**3.340E-19**	**8.924E-12**	0.050	-0.015	-0.019

rs7748635	98247390	6	A	C	rs4839923	25	*RP11-436D23.1*	17194	intergenic	2.992		6	5	15	7.134E-05	6.953E-03	ND		0.054	-0.037	ND	
rs7759889	98266586	6	A	G	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	13.75		6	1	15	2.094E-06	**3.014E-16**	**2.167E-09**		0.065	-0.014		-0.016
rs7761172	98284050	6	T	G	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	ND		6	5	15	2.480E-06	**3.309E-16**	**8.178E-10**		0.064	-0.014		-0.017
rs7763892	98266607	6	T	C	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	1.773		6	1	15	2.022E-06	**1.051E-15**	**1.506E-09**		0.065	-0.014		-0.017
rs7769267	98243389	6	T	G	rs4839923	25	*RP11-436D23.1*	21195	intergenic	2.617		7	5	15	7.491E-05	**2.391E-13**	**8.620E-10**		0.054	-0.013		-0.017
rs7770226	98320402	6	T	C	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	4.697		6	5	15	3.083E-04	**3.750E-19**	**1.807E-11**		0.050	-0.015		-0.019
rs9320691	98219254	6	T	G	rs4839923	25	*RP1-104O17.2*	38665	intergenic	ND		7	2	15	3.632E-05	**8.043E-14**	**1.650E-09**		0.056	-0.013		-0.017
rs9320716	98256949	6	G	T	rs4839923	25	*RP11-436D23.1*	7635	intergenic	0.488		6	5	15	4.633E-06	**1.360E-15**	**1.288E-09**		-0.062	0.014		0.017
rs9374829	98252007	6	A	G	rs4839923	25	*RP11-436D23.1*	12577	intergenic	8.634		6	5	15	1.430E-05	**5.289E-14**	7.695E-08		0.060	-0.013		-0.015
rs9374860	98278033	6	A	G	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	ND		4	4	15	2.816E-06	**1.753E-15**	**9.343E-10**		0.064	-0.014		-0.017
rs9387711	98286151	6	G	T	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	7.087		7	5	15	6.541E-06	**3.343E-16**	**6.539E-10**		-0.061	0.014		0.017
rs9401196	98274551	6	G	A	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	0.008		5	5	15	2.514E-06	**1.067E-15**	**3.791E-09**		-0.064	0.014		0.016
rs9401295	98328774	6	C	T	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	ND		5	5	15	3.905E-04	**4.577E-19**	**1.534E-11**		-0.049	0.015		0.019
rs9489891	98285098	6	C	A	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	6.712		7	5	15	6.102E-06	**6.624E-16**	**4.271E-09**		-0.062	0.014		0.016
rs9489926	98300239	6	A	C	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	ND		7	5	15	6.101E-06	**6.429E-16**	**3.822E-09**		0.062	-0.014		-0.016
rs9489931	98303699	6	G	A	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	1.928		6	5	15	4.464E-06	**6.462E-16**	**3.589E-09**		-0.063	0.014		0.016
rs9784827	98313181	6	C	T	rs4839923	25	*RP11-436D23.1*	0	ncRNA_intronic	3.957		7	5	15	2.955E-04	**4.372E-19**	**7.736E-12**		-0.050	0.015		0.019
rs10228189	1879843	7	A	G	rs117624174	26	*MAD1L1:AC110781.3*	0	intronic	1.942		5	5	15	1.905E-02	**7.506E-10**	8.464E-01		-0.040	0.013		0.001
rs10267593	1937261	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	ND		5	4	4	3.933E-03	**7.439E-12**	8.670E-01		-0.050	0.015		-0.001
rs10268609	1962163	7	G	T	rs117624174	26	*MAD1L1*	0	intronic	1.011	2b		2	5	1.846E-03	**5.830E-12**	8.540E-01		0.055	-0.015		-0.001
rs10278591	1921362	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	3.132		5	4	5	6.439E-03	**3.489E-10**	4.879E-01		-0.046	0.014		0.002
rs117624174	2081425	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	ND		5	4	5	3.083E-06	3.704E-04	6.966E-01		-0.142	0.013		0.003
rs11763813	1896690	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	0.29		4	2	15	1.543E-02	**1.880E-10**	8.795E-01		-0.042	0.014		0.001
rs11766944	1888051	7	A	G	rs117624174	26	*MAD1L1:AC110781.3*	0	UTR3	1.832		5	4	15	2.213E-02	**3.965E-10**	7.902E-01		-0.039	0.014		0.001
rs11767040	1945468	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	2.408		6	4	5	4.084E-03	**4.285E-12**	6.730E-01		-0.050	0.015		0.001
rs11767515	1941051	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	4.232		5	4	5	5.272E-03	**7.365E-12**	8.029E-01		-0.049	0.015		0.001
rs11770148	1899447	7	G	A	rs117624174	26	*MAD1L1*	0	intronic	0.84		5	4	15	1.500E-02	**5.327E-12**	5.795E-01		0.043	-0.016		-0.002
rs11770612	1915493	7	C	A	rs117624174	26	*MAD1L1*	0	intronic	0.372		4	1	15	5.880E-03	**3.406E-10**	4.392E-01		0.047	-0.014		-0.003
rs11771828	1941003	7	C	T	rs117624174	26	*MAD1L1*	0	intronic	4.495		5	4	5	5.262E-03	**7.134E-12**	8.223E-01		0.049	-0.015		-0.001
rs11973114	1913270	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	1.114		5	4	15	9.272E-03	**2.394E-13**	5.806E-01		-0.046	0.016		0.002
rs12113633	1932936	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	2.738		5	4	5	5.775E-03	**3.795E-11**	5.284E-02		-0.048	0.016		0.014
rs28728306	1961814	7	A	C	rs117624174	26	*MAD1L1*	0	intronic	0.795	2a		1	5	1.879E-03	**4.843E-12**	7.729E-01		-0.055	0.015		0.001
rs34040190	1920356	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	1.264		5	4	15	6.779E-03	**5.853E-12**	4.937E-01		-0.048	0.015		0.002
rs3889573	1878377	7	A	G	rs117624174	26	*MAD1L1:AC110781.3*	0	exonic	0.002	ND		2	15	2.786E-02	1.656E-02	ND		-0.038	0.041	ND	
rs4332037	1950809	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	0.434		5	4	5	2.491E-03	**5.240E-12**	7.201E-01		-0.052	0.015		0.001
rs4719331	1914679	7	C	A	rs117624174	26	*MAD1L1*	0	intronic	0.688		4	2	15	6.594E-03	**1.433E-10**	4.047E-01		0.046	-0.014		-0.003
rs4719332	1914681	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	1.149		4	2	15	5.915E-03	**1.271E-10**	4.036E-01		-0.047	0.014		0.003
rs4721096	1877311	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	0.345		5	4	15	2.099E-02	**8.367E-10**	8.388E-01		-0.040	0.013		0.001
rs4721142	1918079	7	C	T	rs117624174	26	*MAD1L1*	0	intronic	ND		5	4	5	5.486E-03	**5.702E-10**	4.669E-01		0.047	-0.013		-0.002
rs55934553	1914059	7	C	T	rs117624174	26	*MAD1L1*	0	intronic	2.601		5	1	15	6.707E-03	**4.870E-10**	4.341E-01		0.046	-0.013		-0.003
rs56070303	1891015	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	0.044		5	4	15	2.245E-02	**3.568E-10**	8.958E-01		-0.039	0.014		0.000
rs56093134	1973970	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	5.291		5	4	5	1.556E-03	**3.046E-13**	4.240E-01		-0.055	0.016		0.003
rs56259105	1978002	7	C	T	rs117624174	26	*MAD1L1*	0	intronic	6.296		4	1	5	1.672E-03	**8.282E-13**	4.744E-01		0.055	-0.015		-0.002
rs57234495	1906466	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	1.433		5	4	15	2.398E-03	**7.401E-11**	6.401E-01		-0.053	0.014		0.002
rs60595248	1967731	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	0.46		5	5	5	4.403E-05	**4.660E-09**	9.977E-01		-0.069	0.012		0.000
rs61409925	1971226	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	0.371		5	4	5	1.901E-05	**2.308E-09**	8.849E-01		-0.073	0.013		0.000
rs62435127	1884937	7	G	A	rs117624174	26	*MAD1L1:AC110781.3*	0	intronic	4.324	2b		4	15	2.142E-02	**3.437E-10**	9.175E-01		0.039	-0.014		0.000
rs62435130	1890002	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	1.798		5	2	15	2.022E-02	**4.039E-10**	8.013E-01		-0.040	0.014		0.001
rs62435132	1891315	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	0.547		4	2	15	2.039E-02	**4.007E-10**	8.686E-01		-0.040	0.014		0.001
rs62435134	1895463	7	G	T	rs117624174	26	*MAD1L1*	0	intronic	3.587		4	2	15	1.872E-02	1.736E-02	ND		0.040	-0.040	ND	
rs62436669	1926636	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	2.415		4	3	5	5.847E-03	**3.391E-12**	7.593E-01		-0.048	0.016		0.001
rs62442895	1936938	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	1.694		5	4	4	5.094E-03	**2.050E-12**	8.596E-01		-0.049	0.016		0.001
rs62442899	1948454	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	ND	2b		4	5	5.984E-03	**7.263E-12**	5.764E-01		-0.048	0.015		0.002
rs62442913	1970649	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	0.438		5	4	5	3.585E-05	**3.998E-09**	9.478E-01		-0.070	0.012		0.000
rs62442944	2015047	7	G	T	rs117624174	26	*MAD1L1*	0	intronic	ND		5	4	5	2.303E-04	**1.056E-15**	4.016E-01		0.063	-0.017		-0.003
rs6461009	1952139	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	0.139	2b		2	5	5.840E-03	**4.558E-12**	7.827E-01		-0.048	0.015		0.001
rs73046323	1882795	7	A	G	rs117624174	26	*MAD1L1:AC110781.3*	0	intronic	0.426		5	3	15	2.356E-02	**4.672E-10**	7.918E-01		-0.039	0.013		0.001
rs73046334	1887037	7	C	T	rs117624174	26	*MAD1L1:AC110781.3*	0	exonic	0.009		5	4	15	2.160E-02	**3.770E-10**	7.960E-01		0.039	-0.014		-0.001
rs73046339	1889300	7	A	G	rs117624174	26	*MAD1L1:AC110781.3*	0	UTR3	2.585		4	4	15	2.534E-02	**4.079E-10**	7.989E-01		-0.038	0.014		0.001
rs73048106	1929019	7	T	G	rs117624174	26	*MAD1L1*	0	intronic	0.698		5	4	5	6.004E-03	**7.307E-12**	5.827E-01		-0.048	0.015		0.002
rs73050128	1961882	7	A	C	rs117624174	26	*MAD1L1*	0	intronic	ND		4	1	5	1.781E-03	**4.121E-12**	8.329E-01		-0.055	0.016		0.001
rs7788921	1915282	7	A	C	rs117624174	26	*MAD1L1*	0	intronic	5.801		4	2	15	6.144E-03	**3.420E-10**	5.105E-01		-0.047	0.014		0.002
rs7791299	1935598	7	C	T	rs117624174	26	*MAD1L1*	0	intronic	2.292		5	2	5	5.985E-03	**3.939E-12**	6.232E-01		0.048	-0.015		-0.002
rs7791637	1915423	7	A	G	rs117624174	26	*MAD1L1*	0	intronic	1.537	2b		1	15	4.367E-03	**5.462E-10**	4.679E-01		-0.049	0.013		0.002
rs7791899	1935988	7	C	T	rs117624174	26	*MAD1L1*	0	intronic	1.499		5	4	5	5.517E-03	**3.985E-12**	7.908E-01		0.049	-0.015		-0.001
rs7807014	1939021	7	C	T	rs117624174	26	*MAD1L1*	0	intronic	0.828		4	2	5	5.336E-03	**4.963E-12**	8.200E-01		0.049	-0.015		-0.001
rs78443464	1970229	7	T	C	rs117624174	26	*MAD1L1*	0	intronic	4.133		5	4	5	3.831E-05	**3.098E-09**	9.529E-01		-0.070	0.012		0.000

rs1015488	71732966	7	G	T	rs1978102	27	*CALN1*	0	intronic	1.133	7	5	15	1.898E-04	**1.811E-09**	**4.238E-10**	0.052	-0.011	-0.018
rs10227014	71682105	7	A	G	rs1978102	27	*CALN1*	0	intronic	ND	7	4	15	2.091E-04	**2.591E-09**	**3.622E-09**	-0.052	0.010	0.017
rs10228688	71764119	7	A	G	rs1978102	27	*CALN1*	0	intronic	2.831	5	5	15	2.104E-04	**2.313E-09**	**7.014E-10**	-0.052	0.010	0.018
rs10244856	71756897	7	G	A	rs1978102	27	*CALN1*	0	intronic	1.893	6	5	15	1.715E-04	**2.571E-09**	**7.187E-10**	0.053	-0.010	-0.018
rs10248548	71777059	7	T	C	rs1978102	27	*CALN1*	0	intronic	9.277	6	4	15	1.806E-04	**3.636E-09**	**2.194E-09**	-0.053	0.010	0.017
rs10253915	71773114	7	T	C	rs1978102	27	*CALN1*	0	intronic	2.648	6	5	15	1.572E-04	**5.137E-09**	**2.410E-09**	-0.053	0.010	0.017
rs10267124	71765941	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.735	7	5	15	1.689E-04	**2.938E-09**	**9.719E-10**	-0.053	0.010	0.018
rs10277004	71756548	7	A	G	rs1978102	27	*CALN1*	0	intronic	2.905	6	5	15	1.719E-04	**2.573E-09**	**2.759E-09**	-0.053	0.010	0.017
rs10277561	71764197	7	G	T	rs1978102	27	*CALN1*	0	intronic	2.039	5	5	15	2.197E-04	**2.085E-09**	**3.036E-09**	0.052	-0.011	-0.017
rs10282511	71773117	7	A	G	rs1978102	27	*CALN1*	0	intronic	2.672	6	5	15	1.572E-04	**5.314E-09**	**2.347E-09**	-0.053	0.010	0.017
rs1034616	71701364	7	T	C	rs1978102	27	*CALN1*	0	intronic	3.949	7	5	15	2.369E-04	**2.646E-15**	**3.060E-15**	0.050	-0.013	-0.022
rs10486883	71726874	7	T	C	rs1978102	27	*CALN1*	0	intronic	3.293	6	4	15	2.366E-04	**5.002E-14**	**7.213E-15**	0.050	-0.013	-0.021
rs10950304	71722090	7	A	G	rs1978102	27	*CALN1*	0	intronic	3.823	7	5	15	1.728E-04	**2.786E-15**	**3.502E-15**	0.051	-0.013	-0.022
rs11762675	71758598	7	A	C	rs1978102	27	*CALN1*	0	intronic	3.128	7	2	15	1.774E-04	**2.720E-09**	**1.177E-09**	-0.053	0.010	0.018
rs11762805	71753010	7	T	C	rs1978102	27	*CALN1*	0	intronic	6.506	6	5	15	1.357E-04	**4.237E-09**	**1.213E-09**	-0.054	0.010	0.018
rs11771673	71834171	7	G	A	rs1978102	27	*CALN1*	0	intronic	1.837	7	9	15	7.416E-04	**1.477E-14**	**1.329E-14**	-0.046	0.013	0.021
rs11971116	71781573	7	C	T	rs1978102	27	*CALN1*	0	intronic	4.453	5	4	15	8.053E-04	**7.839E-09**	**4.593E-08**	0.047	-0.010	-0.016
rs11981237	71781766	7	A	C	rs1978102	27	*CALN1*	0	intronic	0.05	6	4	15	3.153E-04	1.161E-02	ND	-0.052	0.036	ND
rs11982081	71788267	7	A	C	rs1978102	27	*CALN1*	0	intronic	7.868	5	5	15	1.024E-03	**1.537E-14**	**2.198E-15**	0.044	-0.013	-0.022
rs12113387	71681409	7	C	A	rs1978102	27	*CALN1*	0	intronic	ND	6	4	15	1.736E-04	2.814E-02	ND	0.053	-0.031	ND
rs12154550	71754006	7	T	C	rs1978102	27	*CALN1*	0	intronic	ND	7	5	15	1.836E-04	**1.101E-15**	**8.148E-15**	0.051	-0.014	-0.022
rs12154643	71718217	7	A	G	rs1978102	27	*CALN1*	0	intronic	4.455	6	4	15	1.871E-04	**2.557E-15**	**2.719E-15**	0.050	-0.013	-0.022
rs1232521	71737462	7	A	G	rs1978102	27	*CALN1*	0	intronic	0.502	6	4	15	1.800E-04	**2.594E-09**	**7.341E-10**	-0.053	0.010	0.018
rs12532494	71758634	7	C	T	rs1978102	27	*CALN1*	0	intronic	0.642	7	5	15	1.960E-05	**7.080E-19**	**2.204E-15**	0.058	-0.015	-0.022
rs12537060	71780089	7	T	C	rs1978102	27	*CALN1*	0	intronic	ND	7	5	15	1.505E-03	**1.776E-09**	**2.389E-09**	-0.046	0.011	0.018
rs12537428	71726143	7	C	A	rs1978102	27	*CALN1*	0	intronic	0.409	6	5	15	1.734E-04	**2.770E-15**	**3.432E-15**	-0.051	0.013	0.022
rs12539327	71783290	7	T	C	rs1978102	27	*CALN1*	0	intronic	3.802	7	5	15	2.044E-03	**1.330E-08**	**3.886E-09**	-0.044	0.010	0.017
rs12539817	71774130	7	C	T	rs1978102	27	*CALN1*	0	intronic	0.439	5	5	15	1.736E-04	**3.658E-09**	**4.348E-09**	0.053	-0.010	-0.017
rs12539838	71726164	7	A	G	rs1978102	27	*CALN1*	0	intronic	ND	6	5	15	1.732E-04	**2.776E-15**	**3.434E-15**	0.051	-0.013	-0.022
rs12699130	71723211	7	G	A	rs1978102	27	*CALN1*	0	intronic	8.102	5	4	15	2.086E-04	**2.119E-15**	**7.372E-15**	-0.050	0.014	0.021
rs12699131	71751316	7	A	G	rs1978102	27	*CALN1*	0	intronic	3.169	7	5	15	1.579E-05	**7.270E-19**	**5.818E-15**	-0.058	0.015	0.021
rs13225090	71716207	7	T	C	rs1978102	27	*CALN1*	0	intronic	ND	5	4	15	1.933E-04	**2.120E-15**	**2.546E-15**	0.050	-0.014	-0.022
rs13231507	71723095	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.06	5	4	15	1.728E-04	6.314E-05	ND	0.051	-0.055	ND
rs13236492	71712487	7	A	G	rs1978102	27	*CALN1*	0	intronic	1.481	7	5	15	2.276E-04	**2.116E-15**	**2.287E-15**	0.050	-0.014	-0.022
rs13236874	71719991	7	C	T	rs1978102	27	*CALN1*	0	intronic	2.449	7	4	15	1.733E-04	**3.199E-15**	**2.699E-15**	-0.051	0.013	0.022
rs13239080	71716159	7	G	A	rs1978102	27	*CALN1*	0	intronic	0.936	5	4	15	1.933E-04	**2.222E-15**	**2.350E-15**	-0.050	0.014	0.022
rs13244320	71714028	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.75	6	5	15	1.977E-04	**2.317E-15**	**3.326E-15**	0.050	-0.013	-0.022
rs13244813	71705695	7	G	A	rs1978102	27	*CALN1*	0	intronic	ND	7	4	15	2.351E-04	**2.262E-15**	**4.295E-15**	-0.050	0.013	0.022
rs13246484	71710557	7	C	T	rs1978102	27	*CALN1*	0	intronic	0.067	6	5	15	1.976E-04	**2.206E-15**	**2.063E-15**	-0.050	0.014	0.022
rs1468163	71740458	7	A	G	rs1978102	27	*CALN1*	0	intronic	ND	7	4	15	1.910E-04	**1.267E-15**	**9.270E-15**	0.050	-0.014	-0.021
rs1548423	71730844	7	T	C	rs1978102	27	*CALN1*	0	intronic	3.615	4	5	15	2.374E-04	**1.989E-15**	**2.336E-15**	0.050	-0.014	-0.022
rs17503400	71706809	7	T	C	rs1978102	27	*CALN1*	0	intronic	3.585	7	4	15	5.569E-05	**1.425E-13**	**3.980E-14**	0.054	-0.013	-0.021
rs17581606	71709163	7	C	T	rs1978102	27	*CALN1*	0	intronic	2.027	7	4	15	2.008E-04	**2.340E-15**	**2.085E-15**	-0.050	0.013	0.022
rs17581634	71709709	7	G	A	rs1978102	27	*CALN1*	0	intronic	0.882	7	4	15	2.342E-04	**2.033E-15**	**2.427E-15**	-0.050	0.014	0.022
rs17673971	71765376	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.64	7	5	15	1.903E-04	**3.489E-09**	**4.835E-09**	-0.053	0.010	0.017
rs1878490	71844391	7	C	T	rs1978102	27	*CALN1*	0	intronic	0.758	ND	9	15	5.164E-04	**1.313E-13**	**5.815E-14**	-0.047	0.013	0.021
rs1914388	71735582	7	A	C	rs1978102	27	*CALN1*	0	intronic	2.289	ND	4	15	1.986E-04	**1.461E-15**	**2.440E-15**	0.050	-0.014	-0.022
rs1914389	71735544	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.657	ND	4	15	2.470E-04	**1.191E-15**	**2.696E-15**	0.050	-0.014	-0.022
rs1914391	71690601	7	T	C	rs1978102	27	*CALN1*	0	intronic	ND	ND	4	15	2.027E-04	**9.998E-16**	**2.909E-14**	0.050	-0.014	-0.021
rs1978102	71750298	7	C	T	rs1978102	27	*CALN1*	0	intronic	3.132	7	5	15	1.250E-05	**1.577E-18**	**1.741E-15**	0.059	-0.015	-0.022
rs2023724	71683951	7	C	T	rs1978102	27	*CALN1*	0	intronic	1.217	7	5	15	2.100E-04	**2.392E-09**	**2.752E-09**	0.052	-0.010	-0.017
rs2090463	71835892	7	T	G	rs1978102	27	*CALN1*	0	intronic	ND	ND	9	15	7.861E-04	**9.286E-15**	**1.956E-14**	0.045	-0.013	-0.021
rs2138756	71835456	7	A	G	rs1978102	27	*CALN1*	0	intronic	0.719	ND	9	15	1.860E-03	**1.016E-13**	**4.716E-13**	0.042	-0.013	-0.020
rs2203709	71750100	7	C	T	rs1978102	27	*CALN1*	0	intronic	3.092	7	5	15	1.346E-04	**2.921E-09**	**3.351E-09**	0.054	-0.010	-0.017
rs2203710	71750113	7	T	C	rs1978102	27	*CALN1*	0	intronic	1.224	7	5	15	1.343E-04	**2.920E-09**	**3.337E-09**	-0.054	0.010	0.017
rs2677274	71749356	7	G	A	rs1978102	27	*CALN1*	0	intronic	4.566	ND	4	15	1.350E-04	**3.244E-09**	**8.333E-10**	0.054	-0.010	-0.018
rs2677277	71712651	7	G	A	rs1978102	27	*CALN1*	0	intronic	3.571	ND	5	15	2.561E-04	**3.562E-09**	**2.120E-09**	0.051	-0.010	-0.017
rs2677279	71693713	7	A	G	rs1978102	27	*CALN1*	0	intronic	4.555	ND	4	15	2.285E-04	**7.034E-10**	**1.074E-08**	-0.052	0.011	0.017
rs2677281	71686395	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.106	ND	5	15	2.618E-04	**3.105E-09**	**5.691E-10**	-0.052	0.010	0.018
rs28591449	71681489	7	T	C	rs1978102	27	*CALN1*	0	intronic	3.638	7	4	15	1.589E-04	**2.484E-09**	**6.362E-10**	-0.053	0.010	0.018
rs2867673	71752652	7	T	C	rs1978102	27	*CALN1*	0	intronic	ND	6	5	15	1.444E-05	**2.115E-18**	**4.172E-15**	-0.058	0.015	0.022
rs28733015	71779634	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.542	6	5	15	2.263E-04	**4.021E-09**	**2.699E-09**	-0.052	0.010	0.017
rs2944787	71841880	7	G	T	rs1978102	27	*CALN1*	0	intronic	ND	ND	9	15	7.970E-04	**1.830E-14**	**1.877E-14**	-0.045	0.013	0.021
rs2944788	71841811	7	C	T	rs1978102	27	*CALN1*	0	intronic	6.947	ND	9	15	7.938E-04	**1.672E-14**	**2.199E-14**	-0.045	0.013	0.021
rs2944790	71841136	7	T	C	rs1978102	27	*CALN1*	0	intronic	6.913	ND	14	15	5.531E-04	**2.287E-13**	**4.605E-14**	0.047	-0.012	-0.021
rs2944792	71840365	7	C	T	rs1978102	27	*CALN1*	0	intronic	8.997	ND	14	15	4.905E-04	**1.271E-13**	**8.145E-14**	-0.048	0.013	0.021
rs2944794	71834260	7	C	T	rs1978102	27	*CALN1*	0	intronic	1.033	ND	9	15	7.425E-04	**7.834E-16**	**1.991E-14**	-0.046	0.014	0.021
rs2944798	71832036	7	A	G	rs1978102	27	*CALN1*	0	intronic	1.999	ND	9	15	7.233E-04	**5.878E-16**	**1.282E-14**	0.046	-0.014	-0.021

rs2944799	71831935	7	C	T	rs1978102	27	*CALN1*	0	intronic	5.807	ND	7	15	7.438E-04	**1.104E-14**	**1.043E-14**	-0.046	0.013	0.021
rs2944803	71829766	7	A	G	rs1978102	27	*CALN1*	0	intronic	5.476	ND	14	15	7.466E-04	**1.202E-14**	**6.498E-15**	0.046	-0.013	-0.022
rs2944805	71822914	7	C	T	rs1978102	27	*CALN1*	0	intronic	0.238	ND	9	15	7.831E-04	**2.263E-14**	**8.044E-15**	-0.045	0.013	0.022
rs2944808	71819852	7	A	G	rs1978102	27	*CALN1*	0	intronic	ND	ND	9	15	7.882E-04	**4.039E-14**	**2.542E-15**	0.045	-0.013	-0.022
rs2944814	71813660	7	A	G	rs1978102	27	*CALN1*	0	intronic	1.453	ND	5	15	7.879E-04	**1.624E-14**	**3.282E-15**	0.045	-0.013	-0.022
rs2944815	71811748	7	A	G	rs1978102	27	*CALN1*	0	intronic	0.26	ND	5	15	9.089E-04	**1.560E-14**	**3.159E-15**	0.045	-0.013	-0.022
rs2944817	71806977	7	C	T	rs1978102	27	*CALN1*	0	intronic	ND	ND	5	15	9.492E-04	**1.714E-14**	**4.364E-15**	-0.045	0.013	0.022
rs2944819	71801632	7	A	G	rs1978102	27	*CALN1*	0	intronic	7.012	ND	1	13	9.211E-04	**2.328E-14**	**2.436E-15**	0.045	-0.013	-0.022
rs2944820	71801285	7	T	C	rs1978102	27	*CALN1*	0	intronic	4.538	ND	1	13	7.864E-04	**2.376E-14**	**1.966E-15**	0.045	-0.013	-0.022
rs2944822	71795592	7	T	C	rs1978102	27	*CALN1*	0	intronic	3.137	ND	4	15	8.703E-04	**2.021E-14**	**4.573E-15**	0.045	-0.013	-0.022
rs2944825	71793386	7	C	T	rs1978102	27	*CALN1*	0	intronic	1.612	7	4	15	8.829E-04	**1.746E-14**	**2.774E-15**	-0.045	0.013	0.022
rs2944829	71786721	7	A	G	rs1978102	27	*CALN1*	0	intronic	15.88	ND	4	15	8.454E-04	**2.253E-14**	**4.799E-15**	0.045	-0.013	-0.022
rs2944833	71774496	7	G	A	rs1978102	27	*CALN1*	0	intronic	5.183	ND	5	15	1.655E-05	**1.669E-18**	**4.938E-15**	0.058	-0.015	-0.021
rs2944834	71772929	7	A	G	rs1978102	27	*CALN1*	0	intronic	ND	ND	1	15	1.599E-05	**1.512E-18**	**7.592E-15**	-0.058	0.015	0.021
rs2944839	71770703	7	C	T	rs1978102	27	*CALN1*	0	intronic	2.332	ND	5	15	1.329E-05	**1.234E-18**	**1.325E-14**	0.059	-0.015	-0.021
rs2968500	71831219	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.036	ND	9	15	4.754E-04	**7.919E-14**	**1.041E-14**	0.048	-0.013	-0.021
rs2968513	71814969	7	C	T	rs1978102	27	*CALN1*	0	intronic	ND	5	7	15	8.776E-04	**1.731E-14**	**4.804E-15**	-0.045	0.013	0.022
rs2968518	71819854	7	C	A	rs1978102	27	*CALN1*	0	intronic	0.547	7	9	15	8.733E-04	1.389E-04	ND	-0.045	0.053	ND
rs2968528	71778063	7	A	G	rs1978102	27	*CALN1*	0	intronic	2.007	6	5	15	2.500E-04	**1.093E-15**	**1.076E-14**	0.050	-0.014	-0.021
rs2968532	71787692	7	A	G	rs1978102	27	*CALN1*	0	intronic	3.151	ND	5	15	8.579E-04	**1.786E-14**	**3.856E-15**	0.045	-0.013	-0.022
rs2968533	71787660	7	A	G	rs1978102	27	*CALN1*	0	intronic	6.917	ND	5	15	8.586E-04	**1.543E-14**	**1.564E-15**	0.045	-0.013	-0.022
rs2968538	71838207	7	A	G	rs1978102	27	*CALN1*	0	intronic	0.59	ND	9	15	7.446E-04	**1.587E-14**	**3.320E-14**	0.046	-0.013	-0.021
rs34089087	71717962	7	G	A	rs1978102	27	*CALN1*	0	intronic	0.028	6	4	15	1.873E-04	**2.118E-15**	**2.215E-15**	-0.050	0.014	0.022
rs34345544	71709895	7	A	G	rs1978102	27	*CALN1*	0	intronic	1.432	5	4	15	2.003E-04	**2.332E-15**	**1.772E-15**	0.050	-0.013	-0.022
rs34547894	71747584	7	T	C	rs1978102	27	*CALN1*	0	intronic	2.396	5	5	15	3.743E-05	**1.215E-13**	**3.905E-14**	0.056	-0.013	-0.021
rs34818820	71698511	7	A	G	rs1978102	27	*CALN1*	0	intronic	ND	7	4	15	2.449E-04	**2.661E-15**	**2.509E-15**	0.050	-0.013	-0.022
rs34858520	71723883	7	G	A	rs1978102	27	*CALN1*	0	intronic	3.926	6	5	15	9.465E-05	4.437E-05	ND	-0.053	0.057	ND
rs35021318	71705215	7	C	T	rs1978102	27	*CALN1*	0	intronic	2.216	7	5	15	2.413E-04	**2.072E-15**	**2.848E-15**	-0.050	0.014	0.022
rs35069269	71745699	7	A	G	rs1978102	27	*CALN1*	0	intronic	0.078	7	5	15	2.292E-04	**1.514E-15**	**5.100E-15**	0.050	-0.014	-0.022
rs35198953	71722721	7	C	T	rs1978102	27	*CALN1*	0	intronic	ND	7	4	15	2.202E-04	**2.102E-15**	**3.046E-15**	-0.050	0.014	0.022
rs35363996	71724573	7	T	C	rs1978102	27	*CALN1*	0	intronic	3.999	6	5	15	2.094E-04	**2.215E-15**	**3.967E-15**	0.050	-0.014	-0.022
rs35417702	71739916	7	C	T	rs1978102	27	*CALN1*	0	intronic	5.193	6	4	15	1.647E-05	**4.901E-19**	**1.528E-15**	0.058	-0.015	-0.022
rs35537723	71797191	7	A	G	rs1978102	27	*CALN1*	0	intronic	2.234	7	4	15	9.267E-04	**2.428E-14**	**2.969E-15**	0.045	-0.013	-0.022
rs35787114	71722730	7	C	T	rs1978102	27	*CALN1*	0	intronic	ND	7	4	15	1.882E-04	**2.412E-15**	**3.550E-15**	-0.050	0.013	0.022
rs35793217	71708502	7	A	G	rs1978102	27	*CALN1*	0	intronic	4.076	4	4	15	1.978E-04	**2.450E-15**	**2.319E-15**	0.050	-0.013	-0.022
rs4639398	71770094	7	C	T	rs1978102	27	*CALN1*	0	intronic	1.638	5	5	15	1.642E-05	**1.373E-18**	**8.825E-15**	0.058	-0.015	-0.021
rs4717636	71706847	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.157	7	4	15	2.342E-04	**1.958E-15**	**3.979E-15**	0.050	-0.014	-0.022
rs4719223	71763861	7	T	C	rs1978102	27	*CALN1*	0	intronic	2.346	6	5	15	2.446E-04	**9.809E-16**	**7.266E-14**	0.050	-0.014	-0.021
rs473176	71713805	7	G	A	rs1978102	27	*CALN1*	0	intronic	ND	6	5	15	2.444E-04	2.933E-02	ND	0.052	-0.031	ND
rs491413	71714102	7	T	C	rs1978102	27	*CALN1*	0	intronic	5.034	7	5	15	2.500E-04	**1.851E-09**	**1.516E-09**	-0.052	0.011	0.017
rs492481	71705842	7	T	C	rs1978102	27	*CALN1*	0	intronic	ND	7	4	15	2.551E-04	**1.914E-09**	**1.960E-09**	-0.052	0.011	0.017
rs495016	71711067	7	C	T	rs1978102	27	*CALN1*	0	intronic	2.528	7	5	15	2.445E-04	**1.844E-09**	**2.123E-09**	0.052	-0.011	-0.017
rs496808	71711227	7	A	C	rs1978102	27	*CALN1*	0	intronic	7.847	7	5	15	2.467E-04	**2.436E-09**	**2.150E-09**	-0.052	0.010	0.017
rs501430	71691058	7	T	C	rs1978102	27	*CALN1*	0	intronic	3.125	ND	4	15	2.690E-04	**4.862E-09**	**4.045E-10**	-0.051	0.010	0.018
rs505671	71681620	7	T	G	rs1978102	27	*CALN1*	0	intronic	2.514	7	4	15	2.703E-04	**2.417E-09**	**3.136E-09**	-0.051	0.010	0.017
rs512843	71691870	7	C	A	rs1978102	27	*CALN1*	0	intronic	2.648	6	4	15	2.547E-04	**3.051E-09**	**2.451E-09**	0.052	-0.010	-0.017
rs520564	71711551	7	C	T	rs1978102	27	*CALN1*	0	intronic	ND	7	5	15	2.447E-04	**2.522E-09**	**2.067E-09**	0.052	-0.010	-0.017
rs525120	71712039	7	A	G	rs1978102	27	*CALN1*	0	intronic	ND	7	5	15	2.721E-04	2.630E-02	ND	-0.051	0.031	ND
rs531390	71706092	7	A	G	rs1978102	27	*CALN1*	0	intronic	0.486	5	4	15	2.360E-04	**1.838E-09**	**1.997E-09**	-0.052	0.011	0.017
rs532169	71715628	7	A	G	rs1978102	27	*CALN1*	0	intronic	2.399	6	4	15	2.214E-04	**2.631E-09**	**4.394E-10**	-0.052	0.010	0.018
rs536759	71716138	7	T	C	rs1978102	27	*CALN1*	0	intronic	5.773	5	4	15	2.139E-04	**3.128E-09**	**4.152E-10**	-0.052	0.010	0.018
rs538657	71716352	7	G	A	rs1978102	27	*CALN1*	0	intronic	9.061	7	4	15	2.106E-04	**2.637E-09**	**1.760E-09**	0.052	-0.010	-0.017
rs544861	71717089	7	C	T	rs1978102	27	*CALN1*	0	intronic	1.678	5	5	15	2.096E-04	**1.931E-09**	**3.142E-10**	0.052	-0.011	-0.018
rs549763	71745829	7	T	G	rs1978102	27	*CALN1*	0	intronic	1.756	ND	5	15	1.869E-04	**2.077E-09**	**7.055E-10**	-0.053	0.011	0.018
rs56150095	71759069	7	C	A	rs1978102	27	*CALN1*	0	intronic	4.201	7	5	15	1.437E-05	**9.618E-19**	**1.275E-15**	0.059	-0.015	-0.022
rs57151899	71717365	7	G	A	rs1978102	27	*CALN1*	0	intronic	1.086	7	5	15	1.924E-04	**1.934E-15**	**2.315E-15**	-0.050	0.014	0.022
rs57980488	71702211	7	T	C	rs1978102	27	*CALN1*	0	intronic	1.145	6	5	15	2.367E-04	**3.547E-15**	**2.017E-15**	0.050	-0.013	-0.022
rs60369863	71716294	7	C	T	rs1978102	27	*CALN1*	0	intronic	0.803	5	4	15	1.873E-04	**2.115E-15**	**2.312E-15**	-0.050	0.014	0.022
rs62464865	71752643	7	A	G	rs1978102	27	*CALN1*	0	intronic	3.579	7	5	15	1.356E-04	**5.949E-09**	**9.923E-10**	-0.054	0.010	0.018
rs6460707	71712040	7	A	G	rs1978102	27	*CALN1*	0	intronic	3.564	7	5	15	1.973E-04	**4.292E-15**	**2.183E-15**	0.050	-0.013	-0.022
rs6460708	71712135	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.972	5	5	15	1.973E-04	**2.430E-15**	**3.388E-15**	0.050	-0.013	-0.022
rs6460709	71712215	7	C	T	rs1978102	27	*CALN1*	0	intronic	0.008	6	5	15	2.087E-04	1.673E-04	ND	-0.050	0.053	ND
rs6460710	71755222	7	T	C	rs1978102	27	*CALN1*	0	intronic	1.954	5	4	15	1.520E-04	**2.674E-09**	**2.995E-09**	-0.053	0.010	0.017
rs66801943	71736962	7	A	G	rs1978102	27	*CALN1*	0	intronic	1.896	7	4	15	2.382E-04	**1.328E-15**	**2.412E-15**	0.050	-0.014	-0.022
rs67041541	71725678	7	C	T	rs1978102	27	*CALN1*	0	intronic	1.901	7	5	15	1.733E-04	**2.418E-15**	**3.653E-15**	-0.051	0.013	0.022
rs67502107	71765403	7	A	C	rs1978102	27	*CALN1*	0	intronic	0.051	6	5	15	2.108E-04	**4.564E-10**	**4.729E-10**	-0.052	0.011	0.018
rs6947575	71753733	7	C	T	rs1978102	27	*CALN1*	0	intronic	1.736	5	5	15	1.352E-04	**3.010E-09**	**1.026E-09**	0.054	-0.010	-0.018
rs6962083	71714871	7	A	G	rs1978102	27	*CALN1*	0	intronic	0.433	6	4	15	2.325E-04	**2.377E-09**	**3.469E-10**	-0.052	0.010	0.018

rs6963187	71715532	7	G	A	rs1978102	27	*CALN1*	0	intronic	1.363	6	4	15	1.905E-04	**2.214E-15**	**2.966E-15**	-0.050	0.014	0.022
rs6970677	71771288	7	T	C	rs1978102	27	*CALN1*	0	intronic	7.324	7	5	15	1.687E-04	**5.302E-09**	**1.541E-09**	-0.053	0.010	0.017
rs6979866	71765653	7	T	C	rs1978102	27	*CALN1*	0	intronic	1.891	7	5	15	2.136E-05	**1.648E-18**	**9.730E-15**	-0.058	0.015	0.021
rs73143219	71686609	7	T	C	rs1978102	27	*CALN1*	0	intronic	3.281	7	4	15	3.105E-04	**2.548E-15**	**1.988E-15**	0.049	-0.013	-0.022
rs756912	71741797	7	C	T	rs1978102	27	*CALN1*	0	intronic	ND	7	5	15	1.631E-05	**5.415E-19**	**5.710E-15**	0.058	-0.015	-0.021
rs7778928	71720873	7	A	G	rs1978102	27	*CALN1*	0	intronic	0.228	7	4	15	1.720E-04	**2.919E-15**	**3.518E-15**	0.051	-0.013	-0.022
rs7779206	71721049	7	A	G	rs1978102	27	*CALN1*	0	intronic	ND	7	4	15	1.729E-04	**2.656E-15**	**6.197E-15**	0.051	-0.013	-0.021
rs7782831	71734315	7	T	G	rs1978102	27	*CALN1*	0	intronic	6.363	7	5	15	2.380E-04	**1.413E-15**	**2.098E-15**	0.050	-0.014	-0.022
rs7792669	71728822	7	T	G	rs1978102	27	*CALN1*	0	intronic	0.36	5	4	15	2.313E-04	**1.651E-15**	**5.433E-15**	0.050	-0.014	-0.022
rs7795342	71707831	7	C	A	rs1978102	27	*CALN1*	0	intronic	0.948	6	4	15	1.974E-04	**3.623E-15**	**1.999E-15**	-0.050	0.013	0.022
rs7799175	71724815	7	T	G	rs1978102	27	*CALN1*	0	intronic	1.842	7	5	15	1.735E-04	**2.537E-15**	**6.378E-15**	0.051	-0.013	-0.021
rs7799227	71707883	7	C	T	rs1978102	27	*CALN1*	0	intronic	1.026	6	4	15	1.974E-04	**1.267E-16**	**2.328E-15**	-0.050	0.014	0.022
rs7800217	71725442	7	A	G	rs1978102	27	*CALN1*	0	intronic	1.272	7	5	15	1.733E-04	**2.534E-15**	**2.995E-15**	0.051	-0.013	-0.022
rs7801170	71725336	7	T	C	rs1978102	27	*CALN1*	0	intronic	0.75	7	5	15	1.734E-04	**2.533E-15**	**3.484E-15**	0.051	-0.013	-0.022
rs9638655	71837301	7	A	G	rs1978102	27	*CALN1*	0	intronic	ND	7	9	15	1.954E-04	**1.222E-12**	**1.981E-13**	0.050	-0.012	-0.020
rs10229691	114024179	7	A	G	rs9969232	28	*FOXP2*	0	intronic	0.24	5	15	15	1.974E-03	1.111E-02	5.376E-03	0.043	-0.004	0.008
rs10233347	114021527	7	G	A	rs9969232	28	*FOXP2*	0	intronic	ND	6	15	15	1.296E-03	1.397E-02	5.692E-03	-0.044	0.004	-0.008
rs10249531	114014574	7	C	T	rs9969232	28	*FOXP2*	0	intronic	ND	6	5	15	1.326E-03	1.577E-02	8.366E-03	-0.044	0.004	-0.008
rs10255943	114072443	7	A	G	rs9969232	28	*FOXP2*	0	intronic	ND	7	2	15	8.740E-06	1.818E-04	8.152E-01	-0.070	0.007	0.001
rs10259672	114021306	7	T	C	rs9969232	28	*FOXP2*	0	intronic	2.617	6	5	15	1.305E-03	1.417E-02	6.209E-03	0.044	-0.004	0.008
rs10261780	114082494	7	C	T	rs9969232	28	*FOXP2*	0	intronic	ND	5	5	15	**4.998E-08**	1.624E-02	2.672E-02	-0.075	0.004	-0.006
rs10262192	114091753	7	A	G	rs9969232	28	*FOXP2*	0	intronic	3.159	7	5	15	**3.655E-08**	1.895E-02	2.778E-02	0.074	-0.004	0.006
rs10269986	114211447	7	A	G	rs9969232	28	*FOXP2*	0	intronic	6.071	7	5	15	2.512E-07	1.330E-02	1.179E-01	-0.071	0.004	-0.004
rs11983431	114267996	7	T	C	rs9969232	28	*FOXP2*	0	intronic	0.505	6	5	15	2.972E-07	1.336E-02	7.520E-01	-0.071	0.004	0.002
rs1229758	114229139	7	G	A	rs9969232	28	*FOXP2*	0	intronic	0.129	ND	5	15	2.292E-07	1.227E-02	9.967E-02	0.072	-0.004	0.005
rs1229760	114224163	7	A	G	rs13246732	28	*FOXP2*	0	intronic	ND	ND	5	15	3.547E-07	3.075E-05	8.978E-01	-0.075	0.007	0.000
rs1229761	114223723	7	C	A	rs13246732	28	*FOXP2*	0	intronic	ND	ND	5	15	3.477E-07	2.926E-05	9.303E-01	0.075	-0.008	0.000
rs1229762	114218582	7	C	T	rs13246732	28	*FOXP2*	0	intronic	2.768	ND	5	15	3.473E-07	2.403E-05	8.602E-01	0.075	-0.008	0.001
rs12532000	113772805	7	G	A	rs9969232	28	*FOXP2*	0	intronic	3.178	7	5	15	8.968E-06	1.247E-06	2.913E-01	0.069	-0.009	-0.003
rs12537376	114025053	7	G	A	rs13246732	28	*FOXP2*	0	intronic	0.964	6	15	15	8.882E-07	1.210E-05	4.793E-01	0.071	-0.008	0.002
rs12705966	114248851	7	G	A	rs13246732	28	*FOXP2*	0	intronic	4.003	6	5	15	6.037E-07	2.341E-05	5.970E-01	0.074	-0.008	-0.003
rs13246732	113775765	7	T	C	rs9969232	28	*FOXP2*	0	intronic	ND	5	5	15	8.327E-06	1.258E-06	2.296E-01	-0.069	0.009	0.004
rs17137004	114029251	7	G	A	rs9969232	28	*FOXP2*	0	intronic	2.297	5	5	15	1.711E-03	1.092E-02	6.947E-03	-0.043	0.004	-0.008
rs17137124	114210814	7	T	C	rs9969232	28	*FOXP2*	0	intronic	2.641	7	5	15	2.867E-07	1.544E-02	1.239E-01	-0.071	0.004	-0.004
rs2014265	114080336	7	G	T	rs9969232	28	*FOXP2*	0	intronic	1.267	ND	5	15	5.616E-08	1.701E-02	2.842E-02	-0.074	0.004	-0.006
rs2049604	113990352	7	T	C	rs9969232	28	*FOXP2*	0	intronic	3.362	5	5	15	1.962E-06	1.735E-03	1.485E-01	-0.070	0.006	0.008
rs2189012	114211912	7	G	A	rs13246732	28	*FOXP2*	0	intronic	1.248	ND	5	15	3.887E-07	2.256E-05	9.653E-01	0.075	-0.008	0.000
rs2396724	114033544	7	A	G	rs9969232	28	*FOXP2*	0	intronic	1.844	7	5	15	1.307E-03	1.029E-02	6.166E-03	0.044	-0.004	0.008
rs2396728	114025485	7	G	A	rs9969232	28	*FOXP2*	0	intronic	3.621	7	15	15	1.723E-03	1.054E-02	5.380E-03	-0.043	0.004	-0.008
rs28431297	114017067	7	A	G	rs9969232	28	*FOXP2*	0	intronic	ND	7	5	15	1.193E-03	1.480E-02	7.375E-03	0.044	-0.004	0.008
rs3997266	114022000	7	G	A	rs9969232	28	*FOXP2*	0	intronic	6.877	7	15	15	1.284E-03	1.353E-02	5.860E-03	-0.044	0.004	-0.008
rs4310137	114024424	7	A	G	rs9969232	28	*FOXP2*	0	intronic	ND	7	15	15	1.847E-03	1.091E-02	5.573E-03	0.043	-0.004	0.008
rs4355713	114200534	7	G	A	rs9969232	28	*FOXP2*	0	intronic	2.001	6	5	15	1.702E-07	1.049E-02	1.014E-01	0.072	-0.004	0.005
rs4727799	114110568	7	C	T	rs13246732	28	*FOXP2*	0	intronic	ND	6	5	15	4.087E-07	1.746E-06	5.235E-01	0.072	-0.008	-0.002
rs66571810	114021870	7	C	T	rs13246732	28	*FOXP2*	0	intronic	1.231	7	15	15	7.830E-07	1.131E-04	4.983E-01	0.071	-0.007	0.002
rs66647990	114018456	7	T	C	rs9969232	28	*FOXP2*	0	intronic	8.354	5	5	15	1.399E-03	1.395E-02	7.520E-03	0.044	-0.004	0.008
rs6972929	114021196	7	A	G	rs9969232	28	*FOXP2*	0	intronic	6.924	7	5	15	1.263E-03	1.440E-02	5.759E-03	0.044	-0.004	0.008
rs9969232	114158954	7	G	A	rs9969232	28	*FOXP2*	0	intronic	5.096	7	5	15	**3.867E-08**	1.648E-06	6.046E-01	0.080	-0.009	-0.001
rs10237306	121955981	7	T	G	rs3757541	29	*CADPS2*	2499	intergenic	2.321	4	1	13	1.170E-06	2.546E-02	9.472E-01	0.068	-0.004	0.000
rs10248298	121963813	7	A	C	rs3757541	29	*CADPS2*	0	intronic	ND	7	5	15	2.107E-07	5.679E-03	7.056E-01	0.073	-0.005	0.001
rs10252114	121955468	7	C	T	rs3757541	29	*CADPS2*	3012	intergenic	6.376	2b	1	13	1.117E-06	2.904E-02	9.879E-01	-0.068	0.004	0.000
rs10282257	121963210	7	C	T	rs3757541	29	*CADPS2*	0	intronic	4.333	6	5	15	2.059E-07	5.982E-03	6.839E-01	-0.073	0.005	-0.001
rs10953957	121954709	7	A	G	rs3757541	29	*CADPS2*	3771	intergenic	3.325	4	5	13	1.203E-06	1.591E-02	9.246E-01	0.069	-0.004	0.000
rs11760856	121965345	7	G	A	rs3757541	29	*CADPS2*	0	intronic	5.194	6	5	15	2.434E-07	5.389E-03	7.332E-01	-0.073	0.005	-0.001
rs11766895	121965082	7	A	G	rs3757541	29	*CADPS2*	0	intronic	5.703	7	5	15	2.379E-07	5.582E-03	7.345E-01	0.073	-0.005	0.001
rs11773702	121964937	7	G	A	rs3757541	29	*CADPS2*	0	intronic	2.035	6	5	15	2.360E-07	5.881E-03	7.261E-01	-0.073	0.005	-0.001
rs11773731	121965058	7	G	A	rs3757541	29	*CADPS2*	0	intronic	1.819	7	5	15	2.373E-07	5.397E-03	7.382E-01	-0.073	0.005	-0.001
rs1348442	121960407	7	G	T	rs3757541	29	*CADPS2*	0	intronic	0.113	5	5	14	2.066E-07	7.096E-03	8.315E-01	-0.073	0.005	-0.001
rs1443749	121960438	7	T	C	rs3757541	29	*CADPS2*	0	intronic	1.163	5	5	14	2.119E-07	7.362E-03	8.303E-01	0.073	-0.005	0.001
rs1899689	121964349	7	T	C	rs3757541	29	*CADPS2*	0	intronic	3.465	7	5	15	6.692E-07	2.235E-02	8.768E-01	0.069	-0.004	0.000
rs1899690	121966150	7	A	C	rs3757541	29	*CADPS2*	0	intronic	3.314	6	5	15	2.597E-07	6.714E-02	ND	0.073	-0.026	ND
rs2197290	121960919	7	G	A	rs3757541	29	*CADPS2*	0	intronic	0.586	7	5	14	2.074E-07	7.002E-03	7.185E-01	-0.073	0.005	-0.001
rs2218378	121961096	7	G	A	rs3757541	29	*CADPS2*	0	intronic	1.709	5	5	14	2.048E-07	8.009E-03	8.061E-01	-0.073	0.005	-0.001
rs28547519	121964618	7	C	T	rs3757541	29	*CADPS2*	0	intronic	1.652	7	5	15	2.296E-07	5.486E-03	7.130E-01	-0.073	0.005	-0.001
rs3757540	121962558	7	C	T	rs3757541	29	*CADPS2*	0	intronic	2.605	ND	5	15	2.038E-07	6.443E-03	7.700E-01	-0.073	0.005	-0.001
rs3757541	121962454	7	G	A	rs3757541	29	*CADPS2*	0	intronic	0.737	ND	5	15	2.037E-07	5.716E-03	7.256E-01	-0.073	0.005	-0.001
rs3958046	121955328	7	T	G	rs3757541	29	*CADPS2*	3152	intergenic	ND	4	1	13	5.091E-07	9.850E-02	ND	0.071	-0.023	ND
rs7777351	121962953	7	A	C	rs3757541	29	*CADPS2*	0	intronic	2.997	6	5	15	2.045E-07	9.843E-03	6.988E-01	0.073	-0.005	0.001

rs1532744	786916	8	G	A	rs1532744	30 *ERICH1-AS1*	0	ncRNA_intronic	0.286	ND	5	15	2.072E-06	2.460E-03	9.683E-03	-0.065	0.005	0.007
rs4735931	751823	8	T	C	rs1532744	30 *ERICH1-AS1*	0	ncRNA_intronic	1.117	5	5	15	2.737E-06	6.555E-03	5.594E-02	-0.063	0.005	0.005
rs4735932	751839	8	C	T	rs1532744	30 *ERICH1-AS1*	0	ncRNA_intronic	2.352	5	5	15	2.564E-06	7.348E-03	5.593E-02	0.063	-0.005	-0.005
rs17830672	12675621	8	T	C	rs4383968	31 *LINC00681*	0	ncRNA_exonic	5.465	4	2	15	3.257E-05	5.573E-06	7.378E-01	0.074	-0.010	-0.001
rs4074557	12662159	8	C	T	rs4383968	31 *RP11-252C15.1:LINC00681*	0	ncRNA_intronic	0.759	5	5	15	1.066E-04	1.172E-04	4.714E-01	-0.064	0.008	0.003
rs4383968	12673311	8	C	T	rs76552497	31 *LINC00681*	0	ncRNA_intronic	2.391	7	5	15	1.010E-05	1.344E-04	2.721E-01	-0.084	0.009	0.004
rs57924812	12664893	8	T	C	rs4383968	31 *RP11-252C15.1:LINC00681*	0	ncRNA_intronic	ND	6	5	15	3.761E-05	3.149E-06	6.852E-01	0.078	-0.011	-0.002
rs11984977	21312389	8	G	A	rs4739249	32 *AC009695.1*	39149	intergenic	2.765	6	9	15	5.171E-05	1.663E-06	1.902E-01	0.074	-0.011	-0.005
rs1549471	21298827	8	A	G	rs4739249	32 *AC009695.1*	52711	intergenic	4.555	7	7	15	2.632E-04	6.904E-06	2.032E-01	-0.064	0.010	0.004
rs2194955	21292558	8	C	A	rs4739249	32 *AC009695.1*	58980	intergenic	0.374	6	14	15	3.286E-04	8.641E-06	1.986E-01	0.063	-0.010	-0.004
rs36058245	21315809	8	A	G	rs4739249	32 *AC009695.1*	35729	intergenic	0.048	5	9	15	3.964E-05	2.289E-06	1.671E-01	-0.076	0.011	0.005
rs4739235	21287105	8	A	G	rs4739249	32 *AC009695.1*	64433	intergenic	9.281	6	7	15	1.456E-03	5.682E-06	1.034E-01	-0.058	0.010	0.006
rs4739247	21315374	8	G	A	rs4739249	32 *AC009695.1*	36164	intergenic	ND	6	9	15	4.310E-05	2.600E-06	1.796E-01	0.075	-0.011	-0.005
rs4739249	21323694	8	C	A	rs4739249	32 *AC009695.1*	27844	intergenic	2.096	6	7	15	5.832E-06	9.462E-07	7.961E-02	0.082	-0.011	-0.006
rs1032503	34112934	8	G	A	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	0.083	ND	9	15	1.288E-02	3.911E-01	4.524E-04	-0.059	-0.003	0.017
rs113052583	34820687	8	A	G	rs74760947	33 *AC098612.1*	7036	intergenic	1.239	7	7	15	1.716E-05	9.345E-01	6.605E-03	0.126	0.000	-0.019
rs113064804	34734293	8	A	C	rs74760947	33 *RP11-734J24.1*	2141	intergenic	0.838	6	9	15	1.030E-06	9.823E-01	9.793E-03	0.152	0.000	-0.018
rs116927296	33920260	8	A	G	rs74760947	33 *RP11-317N12.1*	23733	intergenic	0.927	7	9	15	1.575E-04	4.846E-01	1.167E-05	0.131	-0.003	-0.031
rs117396993	34225030	8	A	G	rs74760947	33 *RP1-84O15.2*	20780	intergenic	ND	6	5	15	**2.381E-08**	6.680E-01	2.322E-05	0.177	0.002	-0.029
rs118041269	34223422	8	G	A	rs74760947	33 *RP1-84O15.2*	19172	intergenic	ND	6	9	15	**2.384E-08**	6.175E-01	3.776E-05	-0.177	-0.002	0.029
rs118052144	34509409	8	T	G	rs74760947	33 *RP11-258J10.1*	132160	intergenic	ND	7	9	15	5.341E-05	9.116E-01	1.137E-03	0.155	0.001	-0.028
rs1353340	34120830	8	A	G	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	0.613	7	5	15	1.285E-02	4.103E-01	2.370E-04	0.059	0.002	-0.018
rs139042691	34446955	8	T	G	rs74760947	33 *RP11-258J10.1*	194614	intergenic	0.214	6	15	15	1.090E-03	1.042E-01	3.832E-03	0.063	0.004	-0.012
rs139868495	34662970	8	T	C	rs74760947	33 *RP11-258J10.1*	0	ncRNA_intronic	1.758	6	5	15	1.102E-07	3.910E-01	4.067E-04	0.164	0.003	-0.024
rs147048358	34386259	8	A	G	rs74760947	33 *RP1-84O15.2*	182009	intergenic	3.953	6	9	15	9.184E-05	3.846E-02	5.422E-02	0.080	0.005	-0.008
rs1495231	34115724	8	T	C	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	1.439	7	7	15	1.428E-02	4.140E-01	2.009E-04	0.058	0.002	-0.018
rs1495232	34115845	8	A	C	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	5.269	6	7	15	1.425E-02	4.081E-01	2.407E-04	0.058	0.003	-0.018
rs1495235	34119062	8	C	A	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	2.892	6	5	15	1.052E-02	3.804E-01	3.924E-04	-0.061	-0.003	0.017
rs1495236	34119750	8	C	A	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	1.267	7	5	15	1.242E-02	4.121E-01	3.144E-04	-0.060	-0.002	0.018
rs17315220	34490599	8	T	C	rs74760947	33 *RP11-258J10.1*	150970	intergenic	9.337	7	9	15	7.943E-04	1.037E-01	3.617E-03	0.065	0.004	-0.012
rs1874260	34111915	8	G	A	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	2.117	7	9	15	1.432E-02	4.080E-01	1.953E-04	-0.058	-0.003	0.018
rs1874261	34112016	8	A	G	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	8.851	7	9	15	1.153E-02	4.115E-01	3.457E-04	0.060	0.002	-0.018
rs1994963	34118294	8	A	G	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	2.113	7	7	15	1.363E-02	4.065E-01	3.092E-04	0.059	0.003	-0.018
rs2172840	34107868	8	T	G	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	3.655	7	9	15	9.068E-03	3.716E-01	2.952E-04	0.063	0.003	-0.018
rs2609653	34236992	8	C	T	rs74760947	33 *RP1-84O15.2*	32742	intergenic	2.433	6	9	15	3.458E-06	3.778E-01	4.956E-04	-0.132	-0.003	0.021
rs2730006	34107743	8	C	A	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	ND	ND	9	15	9.038E-03	3.794E-01	2.523E-04	-0.063	-0.003	0.018
rs2934978	34121314	8	T	C	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	0.111	7	5	15	1.277E-02	4.015E-01	2.527E-04	0.059	0.003	-0.018
rs2953928	34152492	8	A	G	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	1.437	ND	5	15	4.074E-06	4.746E-01	2.789E-04	0.131	0.003	-0.022
rs2959328	34121810	8	A	G	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	0.632	6	5	15	1.273E-02	3.211E-01	2.532E-04	0.059	0.003	-0.018
rs2978846	34118121	8	A	C	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	ND	5	7	15	1.368E-02	4.145E-01	2.607E-04	0.059	0.002	-0.018
rs55669358	34312412	8	C	T	rs74760947	33 *RP1-84O15.2*	108162	intergenic	4.848	7	9	15	4.621E-06	2.361E-01	6.650E-04	-0.107	-0.004	0.017
rs55916192	34374688	8	T	C	rs74760947	33 *RP1-84O15.2*	170438	intergenic	14.63	7	5	15	1.224E-05	4.932E-02	4.066E-02	0.088	0.005	-0.009
rs6990255	34126948	8	T	C	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	1.277	7	5	15	1.030E-07	6.068E-01	7.952E-05	0.168	0.002	-0.025
rs72634609	34257317	8	A	G	rs74760947	33 *RP1-84O15.2*	53067	intergenic	ND	6	9	15	5.663E-06	2.350E-01	1.089E-03	0.106	0.004	-0.016
rs72637016	34354957	8	T	G	rs74760947	33 *RP1-84O15.2*	150707	intergenic	4.007	7	5	15	8.919E-06	2.946E-01	1.128E-02	0.096	0.003	-0.012
rs72642204	34477732	8	A	G	rs74760947	33 *RP11-258J10.1*	163837	intergenic	1.565	6	9	15	1.039E-03	9.233E-02	2.500E-03	0.064	0.004	-0.012
rs73557392	34130197	8	T	C	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	1.801	7	9	15	5.247E-06	4.697E-01	2.776E-04	0.130	0.003	-0.022
rs73560982	34214305	8	C	T	rs74760947	33 *RP1-84O15.2*	10055	intergenic	1.188	6	9	15	2.650E-06	4.199E-01	4.205E-04	-0.134	-0.003	0.022
rs74427054	34317437	8	T	G	rs74760947	33 *RP1-84O15.2*	113187	intergenic	0.596	7	7	15	**2.071E-08**	6.856E-01	1.939E-05	0.178	0.002	-0.030
rs74760947	34352610	8	G	A	rs74760947	33 *RP1-84O15.2*	148360	intergenic	4.429	6	5	15	**1.393E-08**	5.313E-01	1.381E-05	-0.180	-0.003	0.030
rs74804370	33998571	8	C	T	rs74760947	33 *RP11-431M3.1*	33832	intergenic	1.366	6	9	15	2.799E-05	7.410E-01	3.928E-05	-0.140	0.001	0.029
rs75836205	34021138	8	C	T	rs74760947	33 *RP11-431M3.1*	11265	intergenic	2.957	6	9	15	5.514E-05	7.470E-01	9.610E-05	-0.140	0.001	0.031
rs76013678	34499840	8	A	C	rs74760947	33 *RP11-258J10.1*	141729	intergenic	ND	6	9	15	**4.023E-08**	6.518E-01	4.281E-05	0.172	0.002	-0.029
rs76545266	34081521	8	C	T	rs74760947	33 *RP1-84O15.2*	4435	intergenic	2.996	6	9	15	1.225E-06	5.600E-01	2.446E-05	-0.161	0.002	0.030
rs76758207	34057864	8	A	G	rs74760947	33 *RP11-431M3.1*	15450	intergenic	4.057	6	9	15	5.778E-06	4.128E-01	1.782E-05	0.152	-0.003	-0.031
rs78061065	34674539	8	T	C	rs74760947	33 *RP11-258J10.1*	0	ncRNA_intronic	0.337	6	5	15	1.104E-07	3.758E-01	7.365E-04	0.164	0.003	-0.023
rs79445414	33863561	8	C	T	rs74760947	33 *RP11-317N12.1:RP1-273G13.3*	0	ncRNA_intronic	1.768	7	9	15	2.294E-04	4.133E-01	7.707E-07	-0.128	0.003	0.035
rs80318442	34285545	8	G	T	rs74760947	33 *RP1-84O15.2*	81295	intergenic	7.269	7	9	15	**2.672E-08**	6.030E-01	6.391E-05	-0.176	-0.002	0.027
rs996990	34120405	8	C	T	rs74760947	33 *RP1-84O15.2*	0	ncRNA_intronic	ND	ND	5	15	1.165E-02	4.052E-01	3.758E-04	-0.060	-0.003	0.018

rs1072934	93450212	8	A	G	rs10956838	34	*RP11-700E23.1*	16185	intergenic	ND	7	7	15	1.150E-05	**4.277E-08**	1.701E-02	-0.068	0.010	0.007
rs10755939	93268649	8	A	G	rs10956838	34	*RP11-700E23.3*	95490	intergenic	3.604	7	7	15	4.653E-05	6.999E-07	1.994E-05	-0.063	0.010	0.013
rs10956838	93404442	8	C	A	rs62519892	34	*RP11-700E23.2*	11330	intergenic	0.729	7	5	15	1.276E-06	4.232E-07	2.626E-05	0.074	-0.010	-0.013
rs11775918	93299275	8	G	A	rs10956838	34	*RP11-700E23.3*	64864	intergenic	1.237	7	14	15	1.359E-04	7.342E-07	4.522E-05	0.059	-0.009	-0.013
rs12678329	93274267	8	G	A	rs10956838	34	*RP11-700E23.3*	89872	intergenic	ND	6	15	15	4.459E-05	7.030E-07	1.732E-05	0.064	-0.010	-0.013
rs13259661	93345304	8	C	T	rs10956838	34	*RP11-700E23.3*	18835	intergenic	ND	6	9	15	4.201E-06	3.444E-06	4.313E-05	0.070	-0.009	-0.012
rs13274294	93277429	8	T	C	rs10956838	34	*RP11-700E23.3*	86710	intergenic	2.603	6	9	15	5.742E-05	5.786E-07	2.565E-05	-0.063	0.010	0.013
rs13281878	93318607	8	T	C	rs10956838	34	*RP11-700E23.3*	45532	intergenic	0.514	7	9	15	1.128E-04	6.235E-07	6.987E-05	-0.060	0.010	0.012
rs1373527	93287385	8	A	G	rs10956838	34	*RP11-700E23.3*	76754	intergenic	1.736	ND	5	15	6.766E-05	8.780E-07	2.280E-05	-0.062	0.009	0.013
rs143695991	93321871	8	T	G	rs10956838	34	*RP11-700E23.3*	42268	intergenic	0.396	7	9	15	1.081E-04	3.642E-02	ND	-0.060	0.032	ND
rs17748153	93284681	8	T	C	rs10956838	34	*RP11-700E23.3*	79458	intergenic	ND	4	1	15	5.030E-05	7.844E-07	1.008E-05	-0.063	0.010	0.014
rs17748165	93286727	8	G	A	rs10956838	34	*RP11-700E23.3*	77412	intergenic	1.219	6	5	15	6.955E-05	9.916E-07	2.078E-05	0.062	-0.009	-0.013
rs17748359	93291163	8	C	A	rs10956838	34	*RP11-700E23.3*	72976	intergenic	15.27	7	5	15	6.872E-05	5.866E-07	2.833E-05	0.062	-0.010	-0.013
rs35040843	93341497	8	T	C	rs10956838	34	*RP11-700E23.3*	22642	intergenic	0.587	6	9	15	8.621E-06	1.568E-05	5.079E-05	-0.068	0.008	0.013
rs35348516	93273639	8	A	G	rs10956838	34	*RP11-700E23.3*	90500	intergenic	1.778	6	15	15	5.688E-05	7.142E-07	1.354E-05	-0.063	0.009	0.014
rs35442472	93384426	8	T	C	rs10956838	34	*RP11-700E23.3*	20049	intergenic	ND	4	2	15	3.496E-05	3.399E-05	1.349E-05	-0.064	0.008	0.014
rs35606437	93327532	8	A	G	rs10956838	34	*RP11-700E23.3*	36607	intergenic	2.665	7	9	15	1.077E-04	5.339E-07	3.733E-05	-0.060	0.010	0.013
rs35803447	93323053	8	T	C	rs10956838	34	*RP11-700E23.3*	41086	intergenic	3.423	6	9	15	1.082E-04	6.081E-07	4.459E-05	-0.060	0.010	0.013
rs35808086	93336734	8	T	C	rs10956838	34	*RP11-700E23.3*	27405	intergenic	7.569	6	15	15	1.079E-04	9.131E-07	5.293E-05	-0.060	0.010	0.013
rs4259397	93366290	8	A	G	rs10956838	34	*RP11-700E23.3*	1913	intergenic	0.121	7	9	15	3.676E-06	3.289E-06	4.451E-05	-0.070	0.009	0.012
rs62519893	93393726	8	T	C	rs10956838	34	*RP11-700E23.2*	22046	intergenic	2.857	7	9	15	1.963E-05	3.830E-05	4.870E-05	-0.068	0.008	0.013
rs62519947	93450407	8	T	C	rs10956838	34	*RP11-700E23.1*	16380	intergenic	3.813	7	7	15	3.053E-04	**3.325E-08**	9.467E-03	-0.054	0.010	0.008
rs6991228	93325492	8	C	T	rs10956838	34	*RP11-700E23.3*	38647	intergenic	ND	7	9	15	1.078E-04	5.929E-07	4.607E-05	0.060	-0.010	-0.013
rs71530232	93329307	8	T	C	rs10956838	34	*RP11-700E23.3*	34832	intergenic	0.014	7	5	15	1.077E-04	7.190E-07	4.541E-05	-0.060	0.009	0.013
rs7830355	93309479	8	C	T	rs10956838	34	*RP11-700E23.3*	54660	intergenic	ND	6	7	15	1.253E-04	6.921E-07	7.071E-05	0.060	-0.010	-0.012
rs7843008	93317204	8	C	T	rs10956838	34	*RP11-700E23.3*	46935	intergenic	1.518	5	7	15	1.088E-04	6.365E-07	4.675E-05	0.060	-0.010	-0.013
rs10868088	86656623	9	T	C	rs295268	35	*RP11-158D2.2*	21734	intergenic	ND	7	9	15	4.964E-04	3.526E-02	1.324E-03	-0.059	-0.005	-0.011
rs295268	86429305	9	C	T	rs55666007	35	*GKAP1*	0	intronic	ND	7	5	5	1.269E-05	2.139E-03	6.913E-05	0.067	0.006	0.012
rs10795674	8797946	10	C	T	rs3928823	36	*RP11-575N15.1*	31694	intergenic	5.732	5	5	15	7.824E-07	6.747E-05	2.212E-02	-0.068	0.007	0.006
rs10795677	8803581	10	T	C	rs3928823	36	*RP11-575N15.1*	37329	intergenic	0.337	6	5	15	6.719E-07	9.608E-05	2.352E-02	0.069	-0.007	-0.006
rs10795678	8813629	10	C	T	rs3928823	36	*RP11-575N15.1*	47377	intergenic	1.192	5	5	15	6.387E-07	1.068E-04	3.288E-02	-0.069	0.007	0.006
rs10905464	8816783	10	G	A	rs3928823	36	*RP11-575N15.1*	50531	intergenic	6.875	6	5	15	6.079E-07	1.256E-04	3.995E-02	-0.069	0.007	0.006
rs11255890	8784773	10	C	A	rs3928823	36	*RP11-575N15.1*	18521	intergenic	ND	6	14	15	1.223E-06	9.439E-05	3.424E-02	-0.068	0.007	0.006
rs11255891	8785995	10	T	C	rs3928823	36	*RP11-575N15.1*	19743	intergenic	14.13	6	9	15	1.532E-06	1.150E-04	4.907E-02	0.067	-0.007	-0.006
rs11255912	8808327	10	C	A	rs3928823	36	*RP11-575N15.1*	42075	intergenic	ND	7	5	15	6.048E-07	8.729E-05	1.345E-02	-0.069	0.007	0.007
rs11255914	8811751	10	A	G	rs3928823	36	*RP11-575N15.1*	45499	intergenic	3.751	5	5	15	5.843E-07	1.120E-04	2.871E-02	0.069	-0.007	-0.006
rs12248966	8831436	10	C	A	rs3928823	36	*RP11-575N15.1*	65184	intergenic	4.003	7	9	15	8.625E-07	7.081E-05	4.005E-02	-0.068	0.007	0.006
rs12769121	8838901	10	A	G	rs3928823	36	*RP11-575N15.1*	72649	intergenic	3.904	6	9	15	2.009E-06	6.241E-05	4.712E-02	0.066	-0.007	-0.005
rs1334561	8820088	10	G	A	rs3928823	36	*RP11-575N15.1*	53836	intergenic	4.226	5	2	15	7.521E-07	8.351E-05	4.070E-02	-0.069	0.007	0.006
rs169693	8822242	10	T	C	rs3928823	36	*RP11-575N15.1*	55990	intergenic	0.991	7	14	15	7.140E-07	3.083E-02	ND	0.069	-0.030	ND
rs2027105	8816199	10	C	T	rs3928823	36	*RP11-575N15.1*	49947	intergenic	5.321	7	5	15	6.218E-07	1.068E-04	2.893E-02	-0.069	0.007	0.006
rs2039494	8821145	10	C	T	rs3928823	36	*RP11-575N15.1*	54893	intergenic	3.675	7	7	15	8.295E-07	7.839E-05	5.553E-02	-0.068	0.007	0.005
rs2039495	8821156	10	G	T	rs3928823	36	*RP11-575N15.1*	54904	intergenic	1.076	7	7	15	8.313E-07	7.658E-05	3.986E-02	-0.068	0.007	0.006
rs2039496	8821299	10	C	T	rs3928823	36	*RP11-575N15.1*	55047	intergenic	1.629	6	7	15	8.385E-07	7.089E-05	5.133E-02	-0.068	0.007	0.005
rs2104525	8831074	10	T	C	rs3928823	36	*RP11-575N15.1*	64822	intergenic	4.678	7	9	15	8.621E-07	7.913E-05	6.189E-02	0.068	-0.007	-0.005
rs2243792	8826990	10	T	C	rs3928823	36	*RP11-575N15.1*	60738	intergenic	1.821	6	9	15	8.506E-07	8.096E-05	5.197E-02	0.068	-0.007	-0.005
rs2483936	8828404	10	A	G	rs3928823	36	*RP11-575N15.1*	62152	intergenic	0.56	ND	9	15	7.646E-07	1.023E-04	7.203E-02	0.068	-0.007	-0.005
rs2483937	8828397	10	G	A	rs3928823	36	*RP11-575N15.1*	62145	intergenic	2.151	ND	9	15	1.032E-06	8.674E-05	7.622E-02	-0.068	0.007	0.005
rs290356	8822658	10	G	A	rs3928823	36	*RP11-575N15.1*	56406	intergenic	3.117	6	14	15	7.270E-07	1.016E-04	6.372E-02	-0.069	0.007	0.005
rs2986300	8821635	10	T	G	rs3928823	36	*RP11-575N15.1*	55383	intergenic	1.281	7	9	15	7.146E-07	8.804E-05	4.654E-02	0.069	-0.007	-0.005
rs2991809	8821674	10	C	T	rs3928823	36	*RP11-575N15.1*	55422	intergenic	3.112	7	9	15	7.096E-07	9.450E-05	4.779E-02	-0.069	0.007	0.005
rs3928823	8805857	10	G	A	rs3928823	36	*RP11-575N15.1*	39605	intergenic	0.094	7	5	15	6.657E-07	6.467E-05	9.764E-03	-0.069	0.007	0.007
rs4749820	8800398	10	G	A	rs3928823	36	*RP11-575N15.1*	34146	intergenic	2.542	4	5	15	7.317E-07	6.400E-05	2.791E-02	-0.069	0.007	0.006
rs5020655	8827493	10	C	A	rs3928823	36	*RP11-575N15.1*	61241	intergenic	1.698	7	9	15	7.704E-07	8.465E-05	6.994E-02	-0.069	0.007	0.005
rs6602338	8837965	10	T	C	rs3928823	36	*RP11-575N15.1*	71713	intergenic	2.092	6	9	15	1.621E-06	5.884E-05	7.558E-02	0.067	-0.007	-0.005
rs7068268	8838086	10	C	T	rs3928823	36	*RP11-575N15.1*	71834	intergenic	6.022	7	9	15	1.539E-06	6.808E-05	6.907E-02	-0.067	0.007	0.005
rs7075267	8831705	10	T	C	rs3928823	36	*RP11-575N15.1*	65453	intergenic	1.901	7	9	15	8.621E-07	7.610E-05	4.188E-02	0.068	-0.007	-0.006
rs7079263	8794106	10	C	T	rs3928823	36	*RP11-575N15.1*	27854	intergenic	ND	5	7	15	8.040E-07	6.205E-05	3.241E-02	-0.068	0.007	0.006
rs7088921	8796848	10	G	A	rs3928823	36	*RP11-575N15.1*	30596	intergenic	2.853	7	5	15	8.259E-07	5.874E-05	2.325E-02	-0.068	0.007	0.006
rs7902526	8820426	10	A	G	rs3928823	36	*RP11-575N15.1*	54174	intergenic	0.882	7	7	15	6.728E-07	7.564E-05	2.946E-02	0.069	-0.007	-0.006
rs7923068	8786826	10	G	A	rs3928823	36	*RP11-575N15.1*	20574	intergenic	4.902	4	9	15	1.029E-06	1.694E-04	5.195E-02	-0.068	0.007	0.005
rs959606	8835711	10	C	A	rs3928823	36	*RP11-575N15.1*	69459	intergenic	ND	7	9	15	1.006E-06	8.037E-05	6.608E-02	-0.068	0.007	0.005
rs959607	8835914	10	G	A	rs3928823	36	*RP11-575N15.1*	69662	intergenic	2.409	6	9	15	1.117E-06	7.552E-05	6.557E-02	-0.068	0.007	0.005
rs9665552	8811034	10	T	C	rs3928823	36	*RP11-575N15.1*	44782	intergenic	0.266	5	5	15	6.258E-07	9.787E-05	3.129E-02	0.069	-0.007	-0.006
rs982013	8819182	10	C	T	rs3928823	36	*RP11-575N15.1*	52930	intergenic	ND	5	7	15	7.764E-07	8.498E-05	3.830E-02	-0.069	0.007	0.006
rs10741049	24562507	10	A	G	rs220370	37	*KIAA1217*	0	intronic	3.104	6	5	15	6.698E-04	2.412E-04	2.611E-01	0.048	-0.006	-0.003
rs11014001	24563953	10	G	A	rs220370	37	*KIAA1217*	0	intronic	3.005	7	5	15	5.721E-04	2.490E-05	5.970E-02	0.047	-0.007	-0.005

rs121126	24591458	10	C	T	rs220370	37	*KIAA1217*	0	intronic	2.078	ND	5	15	1.125E-05	1.302E-05	6.822E-01	0.062	-0.007	-0.002
rs1336187	24562761	10	A	G	rs220370	37	*KIAA1217*	0	intronic	0.041	7	4	15	2.556E-04	8.366E-04	2.115E-01	0.051	-0.006	-0.003
rs220355	24576622	10	A	C	rs220370	37	*KIAA1217*	0	intronic	2.297	ND	5	15	3.543E-05	5.687E-05	1.250E-01	-0.056	0.007	0.004
rs220357	24575370	10	T	C	rs220370	37	*KIAA1217*	0	intronic	1.346	ND	5	15	3.475E-05	3.116E-05	1.108E-01	-0.056	0.007	0.004
rs220358	24574409	10	G	A	rs220370	37	*KIAA1217*	0	intronic	3.326	4	5	15	7.548E-05	1.728E-05	5.055E-02	0.053	-0.007	-0.005
rs220360	24573507	10	G	A	rs220370	37	*KIAA1217*	0	intronic	2.897	ND	5	15	1.338E-04	1.415E-04	2.919E-02	-0.052	0.006	0.006
rs220361	24572979	10	T	C	rs220370	37	*KIAA1217*	0	intronic	1.024	ND	5	15	1.529E-04	5.532E-05	4.781E-02	0.051	-0.007	-0.005
rs220370	24588243	10	C	T	rs220370	37	*KIAA1217*	0	intronic	2.944	ND	5	15	8.253E-06	1.129E-05	7.722E-01	0.063	-0.008	-0.002
rs373648	24571677	10	C	T	rs220370	37	*KIAA1217*	0	intronic	5.104	ND	5	15	1.582E-04	1.538E-04	2.978E-02	-0.051	0.006	0.006
rs450039	24572333	10	C	T	rs220370	37	*KIAA1217*	0	intronic	3.862	ND	4	15	9.864E-05	8.039E-04	5.840E-02	-0.053	0.006	0.005
rs584193	24569670	10	T	C	rs220370	37	*KIAA1217*	0	intronic	1.714	ND	5	15	5.914E-05	2.210E-05	1.687E-01	-0.054	0.007	0.004
rs694084	24572496	10	C	T	rs220370	37	*KIAA1217*	0	intronic	0.108	ND	4	15	9.074E-05	4.721E-05	8.318E-02	-0.053	0.007	0.005
rs7350447	24588732	10	A	G	rs220370	37	*KIAA1217*	0	intronic	1.393	5	5	15	1.029E-03	6.008E-03	9.371E-01	0.047	-0.005	0.000
rs10400104	106755064	10	T	C	rs12265655	38	*SORCS3*	0	intronic	0.382	6	9	15	3.985E-04	1.405E-04	1.093E-03	-0.068	0.009	0.012
rs10400142	106762306	10	T	C	rs12265655	38	*SORCS3*	0	intronic	1.506	6	9	15	1.063E-04	3.003E-04	2.245E-03	-0.073	0.009	0.011
rs10400180	106755196	10	G	T	rs12265655	38	*SORCS3*	0	intronic	0.294	7	9	15	**1.907E-08**	2.782E-03	1.173E-04	0.092	-0.006	-0.012
rs10884075	106751915	10	A	G	rs12265655	38	*SORCS3*	0	intronic	0.638	7	5	15	4.154E-04	1.352E-04	5.625E-04	-0.068	0.009	0.013
rs10884076	106753710	10	T	C	rs12265655	38	*SORCS3*	0	intronic	1.003	7	9	15	4.158E-04	1.240E-04	9.682E-04	-0.068	0.009	0.013
rs11192250	106715295	10	C	A	rs12265655	38	*SORCS3*	0	intronic	2.781	7	9	15	1.430E-04	1.034E-04	3.800E-03	0.072	-0.009	-0.011
rs11192270	106761616	10	T	C	rs12265655	38	*SORCS3*	0	intronic	4.084	6	9	15	**1.887E-08**	3.102E-03	1.049E-04	-0.092	0.006	0.012
rs12241284	106713808	10	G	A	rs12265655	38	*SORCS3*	0	intronic	ND	7	9	15	1.240E-04	1.365E-04	2.834E-03	0.073	-0.009	-0.011
rs12245527	106780889	10	G	A	rs12265655	38	*SORCS3*	0	intronic	1.145	6	5	15	1.811E-06	1.108E-02	1.339E-02	0.076	-0.005	-0.008
rs12246569	106674116	10	T	C	rs12265655	38	*SORCS3*	0	intronic	2.956	6	9	15	8.269E-06	1.261E-02	1.184E-02	-0.069	0.005	0.008
rs12265655	106744534	10	C	T	rs12265655	38	*SORCS3*	0	intronic	ND	6	9	15	**1.762E-08**	2.369E-03	9.509E-05	0.092	-0.006	-0.012
rs1404785	106645398	10	C	T	rs12265655	38	*SORCS3*	0	intronic	2.769	7	9	15	6.429E-06	1.631E-02	1.484E-02	0.070	-0.005	-0.007
rs1464870	106678075	10	C	A	rs12265655	38	*SORCS3*	0	intronic	0.249	ND	9	15	7.124E-06	1.309E-02	1.992E-02	0.070	-0.005	-0.007
rs1565424	106653135	10	C	T	rs12265655	38	*SORCS3*	0	intronic	4.781	ND	7	15	6.315E-06	1.657E-02	1.985E-02	0.070	-0.005	-0.007
rs1565425	106652799	10	G	A	rs12265655	38	*SORCS3*	0	intronic	5.297	ND	9	15	5.620E-06	1.787E-02	2.357E-02	0.070	-0.005	-0.007
rs1586662	106650714	10	C	T	rs12265655	38	*SORCS3*	0	intronic	0.142	ND	9	15	5.910E-06	1.570E-02	1.676E-02	0.070	-0.005	-0.007
rs17117923	106676091	10	C	T	rs12265655	38	*SORCS3*	0	intronic	9.179	7	9	15	9.848E-06	1.223E-02	1.500E-02	0.069	-0.005	-0.007
rs17118067	106763400	10	A	C	rs12265655	38	*SORCS3*	0	intronic	ND	6	9	15	4.484E-04	1.476E-04	6.096E-04	-0.067	0.009	0.013
rs17775021	106663056	10	A	G	rs12265655	38	*SORCS3*	0	intronic	3.094	6	7	15	9.860E-06	1.490E-02	1.635E-02	-0.069	0.005	0.007
rs1826169	106642289	10	C	T	rs12265655	38	*SORCS3*	0	intronic	0.419	7	5	15	5.537E-06	1.583E-02	1.534E-02	0.070	-0.005	-0.007
rs2007698	106661383	10	A	G	rs12265655	38	*SORCS3*	0	intronic	0.817	ND	9	15	7.137E-06	1.660E-02	1.911E-02	-0.070	0.005	0.007
rs2177741	106678006	10	G	A	rs12265655	38	*SORCS3*	0	intronic	ND	ND	9	15	7.129E-06	1.385E-02	1.372E-02	0.070	-0.005	-0.008
rs34303669	106669028	10	C	T	rs12265655	38	*SORCS3*	0	intronic	3.901	7	7	15	7.952E-06	1.573E-02	1.735E-02	0.069	-0.005	-0.007
rs56693513	106657117	10	T	C	rs12265655	38	*SORCS3*	0	intronic	3.687	6	5	15	7.649E-06	1.568E-02	1.956E-02	-0.069	0.005	0.007
rs57944259	106765345	10	A	G	rs12265655	38	*SORCS3*	0	intronic	0.381	5	9	15	3.566E-04	1.310E-04	1.408E-03	-0.069	0.009	0.012
rs60551150	106674995	10	G	A	rs12265655	38	*SORCS3*	0	intronic	3.546	7	9	15	9.451E-06	1.287E-02	1.604E-02	0.069	-0.005	-0.007
rs61867167	106719083	10	T	C	rs12265655	38	*SORCS3*	0	intronic	0.202	7	9	15	8.175E-05	1.843E-04	3.977E-03	-0.075	0.009	0.011
rs61867171	106737026	10	C	T	rs12265655	38	*SORCS3*	0	intronic	4.755	6	5	15	1.313E-04	1.271E-04	3.361E-03	0.072	-0.009	-0.011
rs61867322	106647839	10	A	G	rs12265655	38	*SORCS3*	0	intronic	ND	6	9	15	7.228E-06	1.513E-02	2.925E-02	-0.070	0.005	0.007
rs6584633	106667382	10	T	C	rs12265655	38	*SORCS3*	0	intronic	16.25	7	5	15	7.729E-06	1.580E-02	1.933E-02	-0.069	0.005	0.007
rs6584649	106745104	10	G	T	rs12265655	38	*SORCS3*	0	intronic	2.759	5	9	15	**1.798E-08**	2.446E-03	1.054E-04	0.092	-0.006	-0.012
rs7068171	106649694	10	T	G	rs12265655	38	*SORCS3*	0	intronic	ND	6	9	15	7.254E-06	1.492E-02	1.823E-02	-0.070	0.005	0.007
rs7068586	106649942	10	A	G	rs12265655	38	*SORCS3*	0	intronic	1.241	7	9	15	6.586E-06	1.488E-02	1.542E-02	-0.070	0.005	0.007
rs7068754	106677953	10	C	A	rs12265655	38	*SORCS3*	0	intronic	2.255	6	9	15	7.222E-06	1.424E-02	1.377E-02	0.069	-0.005	-0.008
rs7073438	106650949	10	A	G	rs12265655	38	*SORCS3*	0	intronic	5.639	5	9	15	4.874E-06	1.776E-02	1.852E-02	-0.071	0.005	0.007
rs7085496	106699212	10	A	G	rs12265655	38	*SORCS3*	0	intronic	2.086	7	5	15	7.484E-06	1.355E-02	1.279E-02	-0.069	0.005	0.008
rs7086782	106677914	10	C	T	rs12265655	38	*SORCS3*	0	intronic	0.918	7	9	15	7.127E-06	1.591E-02	2.068E-02	0.070	-0.005	-0.007
rs74155086	106764576	10	T	G	rs12265655	38	*SORCS3*	0	intronic	0.819	6	7	15	3.714E-04	1.145E-04	5.662E-04	-0.068	0.009	0.013
rs7896186	106666146	10	T	C	rs12265655	38	*SORCS3*	0	intronic	4.376	4	5	15	1.025E-05	1.552E-02	1.554E-02	-0.069	0.005	0.007
rs7896463	106666355	10	T	C	rs12265655	38	*SORCS3*	0	intronic	13.77	7	5	15	8.361E-06	1.685E-02	1.858E-02	-0.069	0.005	0.007
rs7897270	106647072	10	C	T	rs12265655	38	*SORCS3*	0	intronic	2.476	7	9	15	5.853E-06	1.625E-02	1.738E-02	0.070	-0.005	-0.007
rs7901022	106656680	10	T	C	rs12265655	38	*SORCS3*	0	intronic	4.644	7	5	15	7.927E-06	1.482E-02	1.450E-02	-0.069	0.005	0.007
rs7901032	106667297	10	A	G	rs12265655	38	*SORCS3*	0	intronic	2.067	7	5	15	9.776E-06	1.549E-02	1.607E-02	-0.069	0.005	0.007
rs7903869	106697456	10	G	A	rs12265655	38	*SORCS3*	0	intronic	3.473	4	1	15	8.216E-06	1.375E-02	1.618E-02	0.069	-0.005	-0.007
rs7904532	106727956	10	T	C	rs12265655	38	*SORCS3*	0	intronic	1.536	7	9	15	1.332E-04	1.195E-04	3.445E-03	-0.072	0.009	0.011
rs7906067	106641784	10	C	T	rs12265655	38	*SORCS3*	0	intronic	0.212	7	7	15	6.277E-06	1.744E-02	1.502E-02	0.070	-0.005	-0.007
rs7907899	106646426	10	G	A	rs12265655	38	*SORCS3*	0	intronic	1.199	7	9	15	5.860E-06	1.648E-02	1.718E-02	0.070	-0.005	-0.007
rs7912102	106646974	10	A	G	rs12265655	38	*SORCS3*	0	intronic	0.033	5	9	15	5.999E-06	1.695E-02	1.720E-02	-0.070	0.005	0.007
rs7912437	106665912	10	C	T	rs12265655	38	*SORCS3*	0	intronic	2.394	5	5	15	1.021E-05	1.510E-02	1.565E-02	0.069	-0.005	-0.007
rs7919740	106711830	10	A	G	rs12265655	38	*SORCS3*	0	intronic	0.469	7	9	15	1.275E-04	1.025E-04	2.057E-03	-0.072	0.009	0.011
rs7922448	106724819	10	A	G	rs12265655	38	*SORCS3*	0	intronic	9.646	7	5	15	1.322E-04	1.114E-04	3.425E-03	-0.072	0.009	0.011
rs868009	106661592	10	A	G	rs12265655	38	*SORCS3*	0	intronic	ND	ND	7	15	7.129E-06	1.676E-02	1.984E-02	-0.070	0.005	0.007
rs961770	106750257	10	G	A	rs12265655	38	*SORCS3*	0	intronic	5.642	6	7	15	3.186E-04	2.130E-04	2.138E-03	0.068	-0.009	-0.011
rs9783122	106766398	10	A	G	rs12265655	38	*SORCS3*	0	intronic	2.917	6	9	15	**4.039E-08**	1.021E-04	2.675E-05	-0.093	0.008	0.014
rs9783155	106766194	10	C	T	rs12265655	38	*SORCS3*	0	intronic	3.649	6	9	15	3.484E-04	1.448E-04	8.185E-04	0.069	-0.009	-0.013

rs10902221	802379	11	T	C	rs28633403	39	*PIDD*	0	exonic	0.009	2b	3	4	9.843E-07	1.779E-02	8.961E-02	-0.068	0.004	0.005
rs10902222	810882	11	G	T	rs28633403	39	*RPLP2*	0	intronic	1.547	1d	1	2	2.508E-06	1.953E-02	9.978E-02	0.071	-0.004	-0.005
rs10902223	817786	11	C	T	rs28633403	39	*PNPLA2*	1115	intergenic	3.446	5	1	5	1.034E-04	1.982E-01	1.268E-01	0.057	-0.002	-0.004
rs11246313	805578	11	T	G	rs28633403	39	*PIDD*	0	upstream	8.101	4	1	1	1.831E-06	2.464E-02	9.809E-02	0.067	-0.004	-0.005
rs11246314	805589	11	A	G	rs28633403	39	*PIDD*	0	upstream	7.761	4	1	1	1.833E-06	2.894E-02	9.669E-02	0.067	-0.004	-0.005
rs11246316	805712	11	A	G	rs28633403	39	*PIDD*	0	upstream	2.764	4	1	2	1.045E-06	1.840E-02	7.664E-02	-0.068	0.004	0.005
rs11246318	807219	11	C	T	rs28633403	39	*PIDD*	0	intergenic	0.668	7	5	5	2.100E-06	5.864E-01	ND	-0.066	-0.007	ND
rs11246319	813524	11	C	T	rs28633403	39	*RPLP2*	643	downstream	5.961	4	3	4	2.715E-06	4.927E-02	7.124E-02	0.066	-0.003	-0.005
rs1138714	825110	11	A	G	rs28633403	39	*PNPLA2:AP006621.8*	0	ncRNA_intronic	5.778	5	2	4	1.128E-04	1.792E-01	9.914E-02	-0.056	0.002	0.005
rs28633403	813264	11	G	A	rs28633403	39	*RPLP2*	383	downstream	0.893	4	3	4	4.455E-07	1.227E-02	1.619E-01	0.072	-0.004	-0.004
rs28694634	808423	11	G	A	rs28633403	39	*PIDD*	0	intergenic	1.807	3a	1	5	6.390E-06	1.555E-02	1.252E-01	0.068	-0.005	-0.004
rs4131364	812188	11	G	A	rs28633403	39	*RPLP2*	0	intronic	1.466	1f	3	4	1.577E-06	4.933E-02	7.927E-02	0.067	-0.003	-0.005
rs4963120	825777	11	C	T	rs28633403	39	*AP006621.8*	0	ncRNA_intronic	5.247	ND	2	5	1.040E-04	1.894E-01	7.435E-02	0.057	-0.002	-0.005
rs4963153	791462	11	A	G	rs28633403	39	*SLC25A22*	0	UTR3	8.964	ND	3	5	7.867E-06	1.122E-01	3.244E-02	0.063	-0.003	-0.006
rs4963156	780827	11	T	C	rs28633403	39	*AP006621.5*	0	intronic	0.052	ND	4	5	4.046E-05	1.090E-01	9.640E-02	0.059	-0.003	-0.005
rs61876744	820754	11	T	C	rs28633403	39	*PNPLA2*	0	intronic	3.769	ND	1	2	4.068E-05	4.828E-02	1.899E-01	-0.061	0.003	0.004
rs6597979	815323	11	G	T	rs28633403	39	*RPLP2*	2442	intergenic	6.399	ND	1	5	2.635E-06	4.630E-02	4.117E-02	0.066	-0.003	-0.006
rs6597981	803017	11	A	G	rs28633403	39	*PIDD*	0	UTR3	0.974	ND	3	5	2.858E-06	3.062E-02	6.934E-02	-0.065	0.004	0.005
rs7104785	804212	11	C	A	rs28633403	39	*PIDD*	0	exonic	ND	ND	1	2	1.656E-06	1.756E-02	6.900E-02	0.067	-0.004	-0.005
rs7107271	784775	11	G	T	rs28633403	39	*AP006621.5*	477	downstream	1.001	ND	4	5	2.916E-04	1.615E-01	1.546E-01	0.052	-0.002	-0.004
rs7117921	800486	11	T	C	rs28633403	39	*PIDD*	0	intronic	2.644	ND	3	4	6.517E-05	3.612E-02	8.446E-02	0.059	-0.004	-0.010
rs7122416	807149	11	A	G	rs28633403	39	*PIDD*	0	intergenic	1.167	ND	5	5	1.321E-06	5.898E-02	5.952E-02	0.068	-0.003	-0.005
rs7479183	801776	11	G	T	rs28633403	39	*PIDD*	0	intronic	3.181	ND	3	4	4.498E-07	1.975E-02	9.740E-02	-0.071	0.004	0.005
rs7484068	805419	11	G	A	rs28633403	39	*PIDD*	0	upstream	8.548	ND	1	1	1.652E-06	1.658E-02	7.650E-02	0.067	-0.004	-0.005
rs7484123	805234	11	A	G	rs28633403	39	*PIDD*	0	UTR5	9.048	ND	1	1	1.160E-06	1.939E-02	6.921E-02	0.068	-0.004	-0.005
rs7928917	819464	11	T	G	rs28633403	39	*PNPLA2*	0	intronic	9.973	ND	1	1	1.411E-04	4.541E-01	ND	-0.056	-0.010	ND
rs7942159	822622	11	A	G	rs28633403	39	*PNPLA2*	0	intronic	7.094	ND	2	5	1.095E-04	5.985E-02	9.883E-02	-0.057	0.003	0.005
rs7946354	787679	11	G	T	rs28633403	39	*CEND1*	0	UTR3	2.314	ND	3	5	1.586E-04	1.520E-01	1.007E-01	0.055	-0.003	-0.005
rs10767729	28634751	11	T	C	rs4275621	40	*RP11-960D24.1*	65978	intergenic	6.451	7	14	15	5.218E-07	5.300E-05	9.998E-05	-0.069	0.007	0.011
rs10767730	28634862	11	G	A	rs4275621	40	*RP11-960D24.1*	65867	intergenic	5.041	6	14	15	6.718E-07	2.705E-05	1.244E-04	0.069	-0.007	-0.011
rs10767731	28634863	11	C	T	rs4275621	40	*RP11-960D24.1*	65866	intergenic	5.741	6	14	15	6.732E-07	2.508E-05	1.097E-04	0.069	-0.007	-0.011
rs10767732	28642268	11	A	G	rs4275621	40	*RP11-960D24.1*	58461	intergenic	1.762	7	2	15	1.056E-06	6.174E-05	1.377E-04	-0.068	0.007	0.011
rs10767733	28642320	11	A	G	rs4275621	40	*RP11-960D24.1*	58409	intergenic	4.256	5	2	15	9.836E-07	4.581E-05	1.050E-04	-0.068	0.007	0.011
rs10767742	28703205	11	C	T	rs4275621	40	*RP11-960D24.1*	0	ncRNA_intronic	ND	7	14	15	3.775E-05	2.062E-04	1.376E-02	0.057	-0.006	-0.007
rs10767744	28707675	11	T	C	rs4275621	40	*RP11-960D24.1*	2658	intergenic	6.215	7	5	15	5.413E-05	1.082E-03	3.280E-02	-0.056	0.006	0.006
rs10767746	28709323	11	C	T	rs4275621	40	*RP11-960D24.1*	4306	intergenic	2.691	7	5	15	7.073E-05	2.183E-04	2.325E-02	0.056	-0.006	-0.006
rs10835362	28626786	11	A	G	rs4275621	40	*RP11-960D24.1*	73943	intergenic	3.171	6	9	15	5.379E-07	5.059E-05	8.656E-05	-0.069	0.007	0.011
rs10835363	28627504	11	C	T	rs4275621	40	*RP11-960D24.1*	73225	intergenic	2.093	7	9	15	6.991E-07	5.735E-05	7.535E-05	0.068	-0.007	-0.011
rs10835364	28627653	11	A	G	rs4275621	40	*RP11-960D24.1*	73076	intergenic	ND	7	9	15	5.429E-07	6.280E-05	1.255E-04	-0.069	0.007	0.011
rs10835365	28630051	11	G	A	rs4275621	40	*RP11-960D24.1*	70678	intergenic	ND	5	5	15	5.877E-07	5.599E-05	6.012E-05	0.069	-0.007	-0.011
rs10835370	28643326	11	A	C	rs4275621	40	*RP11-960D24.1*	57403	intergenic	ND	5	1	15	8.005E-07	1.572E-01	ND	-0.069	0.020	ND
rs10835376	28644671	11	T	G	rs4275621	40	*RP11-960D24.1*	56058	intergenic	0.66	7	5	15	1.094E-06	1.444E-01	ND	-0.069	0.021	ND
rs10835377	28644675	11	G	A	rs4275621	40	*RP11-960D24.1*	56054	intergenic	2.895	7	5	15	1.014E-06	1.462E-01	ND	0.069	-0.020	ND
rs10835378	28644716	11	G	A	rs4275621	40	*RP11-960D24.1*	56013	intergenic	0.851	7	5	15	1.353E-06	1.854E-01	ND	0.068	-0.019	ND
rs10835379	28644719	11	A	G	rs4275621	40	*RP11-960D24.1*	56010	intergenic	1.889	7	5	15	1.348E-06	1.852E-01	ND	-0.068	0.019	ND
rs10835380	28644729	11	G	A	rs4275621	40	*RP11-960D24.1*	56000	intergenic	7.501	6	5	15	1.349E-06	1.860E-01	ND	0.068	-0.019	ND
rs11030385	28629115	11	A	G	rs4275621	40	*RP11-960D24.1*	71614	intergenic	2.053	6	5	15	5.979E-07	7.024E-05	9.364E-05	-0.069	0.007	0.011
rs11030386	28631248	11	A	C	rs4275621	40	*RP11-960D24.1*	69481	intergenic	8.823	5	5	15	5.472E-07	4.903E-05	8.458E-05	-0.069	0.007	0.011
rs11030387	28631484	11	T	C	rs4275621	40	*RP11-960D24.1*	69245	intergenic	1.333	7	7	15	5.854E-07	5.022E-05	8.913E-05	-0.069	0.007	0.011
rs11030410	28700544	11	G	A	rs4275621	40	*RP11-960D24.1*	185	upstream	6.688	7	5	15	3.295E-05	2.239E-04	1.206E-02	0.057	-0.006	-0.007
rs112670086	28644425	11	T	G	rs4275621	40	*RP11-960D24.1*	56304	intergenic	6.169	7	5	15	3.017E-06	1.614E-01	ND	-0.066	0.020	ND
rs11529859	28666727	11	C	T	rs4275621	40	*RP11-960D24.1*	34002	intergenic	1.231	6	9	15	1.466E-04	8.536E-05	4.787E-03	0.057	-0.007	-0.009
rs11821132	28630734	11	G	T	rs4275621	40	*RP11-960D24.1*	69995	intergenic	8.151	6	5	15	5.723E-07	5.313E-05	6.719E-05	0.069	-0.007	-0.011
rs12221661	28639130	11	C	T	rs4275621	40	*RP11-960D24.1*	61599	intergenic	2.168	7	5	15	7.038E-07	5.041E-05	1.652E-04	0.069	-0.007	-0.011
rs12226518	28641062	11	A	G	rs4275621	40	*RP11-960D24.1*	59667	intergenic	3.265	7	5	15	7.526E-07	6.896E-05	1.750E-04	-0.069	0.007	0.011
rs12226542	28641245	11	A	G	rs4275621	40	*RP11-960D24.1*	59484	intergenic	2.436	5	5	15	7.634E-07	7.064E-05	1.610E-04	-0.069	0.007	0.011
rs1317526	28701138	11	A	G	rs4275621	40	*RP11-960D24.1*	0	ncRNA_exonic	2.101	5	5	15	3.861E-05	3.898E-04	9.028E-03	-0.057	0.006	0.007
rs35054354	28644443	11	A	G	rs4275621	40	*RP11-960D24.1*	56286	intergenic	0.085	6	5	15	3.020E-06	1.612E-01	ND	-0.066	0.020	ND
rs35926073	28644440	11	T	C	rs4275621	40	*RP11-960D24.1*	56289	intergenic	2.394	6	5	15	3.020E-06	1.612E-01	ND	-0.066	0.020	ND
rs4275621	28652996	11	G	A	rs11821132	40	*RP11-960D24.1*	47733	intergenic	ND	7	7	15	2.031E-07	3.895E-05	1.075E-02	0.073	-0.007	-0.007
rs4354676	28662660	11	C	T	rs4275621	40	*RP11-960D24.1*	38069	intergenic	0.766	6	14	15	3.832E-07	7.930E-02	ND	0.071	-0.025	ND
rs4356210	28662825	11	C	T	rs4275621	40	*RP11-960D24.1*	37904	intergenic	0.957	7	9	15	2.800E-07	7.855E-02	ND	0.072	-0.025	ND
rs4391802	28674592	11	G	A	rs4275621	40	*RP11-960D24.1*	26137	intergenic	0.976	7	5	15	1.540E-04	8.846E-05	5.657E-03	0.057	-0.007	-0.008
rs4414202	28709434	11	C	A	rs4275621	40	*RP11-960D24.1*	4417	intergenic	2.157	7	5	15	7.136E-05	2.571E-04	3.570E-02	0.056	-0.006	-0.006
rs4442537	28625664	11	T	C	rs4275621	40	*RP11-960D24.1*	75065	intergenic	ND	7	14	15	5.965E-07	5.187E-05	1.147E-04	-0.069	0.007	0.011
rs4636654	28642653	11	A	G	rs4275621	40	*RP11-960D24.1*	58076	intergenic	2.056	5	5	15	6.248E-07	9.512E-05	3.387E-05	-0.069	0.007	0.012
rs4922808	28708258	11	C	T	rs4275621	40	*RP11-960D24.1*	3241	intergenic	2.964	6	5	15	6.361E-05	2.708E-04	1.951E-02	0.056	-0.006	-0.007

rs4923549	28637336	11	G	A	rs4275621	40	*RP11-960D24.1*	63393	intergenic	2.484		4	5	15	5.664E-07	4.678E-05	1.441E-04	0.069	-0.007	-0.011
rs4923550	28637363	11	C	T	rs4275621	40	*RP11-960D24.1*	63366	intergenic	6.979	3a		5	15	5.647E-07	4.677E-05	1.417E-04	0.069	-0.007	-0.011
rs57806515	28628549	11	A	C	rs4275621	40	*RP11-960D24.1*	72180	intergenic	16.51	3a		7	15	5.474E-07	5.559E-05	1.111E-04	-0.069	0.007	0.011
rs59617050	28630746	11	G	A	rs4275621	40	*RP11-960D24.1*	69983	intergenic	1.027		6	5	15	5.726E-07	6.001E-05	8.983E-05	0.069	-0.007	-0.011
rs7110556	28635929	11	A	G	rs4275621	40	*RP11-960D24.1*	64800	intergenic	0.805		7	9	15	5.696E-07	5.979E-05	1.697E-04	-0.069	0.007	0.011
rs7118807	28664779	11	C	T	rs4275621	40	*RP11-960D24.1*	35950	intergenic	0.977		7	9	15	2.938E-07	7.812E-02	ND	0.072	-0.025	ND
rs73437096	28679914	11	T	C	rs4275621	40	*RP11-960D24.1*	20815	intergenic	1.733		6	7	15	1.104E-04	1.312E-04	8.714E-03	-0.058	0.007	0.008
rs7928142	28668657	11	C	T	rs4275621	40	*RP11-960D24.1*	32072	intergenic	0.119		7	9	15	3.570E-07	7.133E-02	ND	0.071	-0.025	ND
rs7940384	28697984	11	A	G	rs4275621	40	*RP11-960D24.1*	2745	intergenic	ND		5	5	15	5.211E-05	3.817E-04	8.639E-03	-0.056	0.006	0.007
rs7944200	28702277	11	C	T	rs4275621	40	*RP11-960D24.1*	0	ncRNA_intronic	3.162	3a		7	15	3.844E-05	1.641E-04	1.079E-02	0.057	-0.007	-0.007
rs10431006	49010832	11	G	A	rs10839264	41	*TRIM53CP*	0	ncRNA_exonic	2.361		6	9	15	3.225E-05	2.212E-03	1.804E-01	-0.092	0.009	-0.006
rs10734600	49740634	11	G	A	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	3.593		5	9	15	1.512E-05	1.687E-06	9.759E-02	-0.102	0.014	0.015
rs10794259	50588460	11	A	G	rs10839264	41	*RP11-574M7.2*	206972	intergenic	9.066		7	8	9	1.189E-03	2.323E-04	8.883E-01	0.071	-0.010	0.001
rs10794261	50597750	11	A	G	rs10839264	41	*RP11-574M7.2*	216262	intergenic	8.194		6	9	15	1.143E-03	2.394E-04	9.077E-01	0.071	-0.010	0.001
rs10838987	48646903	11	T	G	rs10839264	41	*OR4A44P*	2194	intergenic	ND		5	9	15	2.451E-05	7.250E-04	1.493E-01	0.094	-0.010	0.007
rs10839224	49146066	11	C	T	rs10839264	41	*RP11-107P7.5*	0	ncRNA_exonic	3.886		5	9	15	3.303E-05	7.560E-04	2.081E-01	-0.093	0.010	-0.006
rs10839229	49162948	11	T	C	rs10839264	41	*FOLH1*	5238	intergenic	0.167		6	9	15	1.979E-05	7.150E-04	2.468E-01	0.095	-0.010	0.005
rs10839264	49356806	11	T	C	rs10839264	41	*CTD-2026G22.1*	0	ncRNA_intronic	4.309		5	9	15	2.553E-06	4.412E-05	3.413E-01	0.108	-0.013	0.005
rs10839424	49903616	11	C	A	rs10839264	41	*RP11-163O19.3*	934	upstream	1.231		6	9	15	1.923E-05	2.823E-06	5.381E-01	-0.102	0.014	0.003
rs10901919	50295051	11	T	C	rs10839264	41	*RP11-574M7.1*	0	ncRNA_intronic	2.336		6	9	15	2.124E-05	3.363E-06	4.998E-01	0.101	-0.014	-0.003
rs10902063	50130828	11	C	A	rs10839264	41	*RP11-347H15.1*	0	ncRNA_intronic	0.593		7	1	15	2.268E-05	5.362E-06	7.547E-01	-0.101	0.014	0.002
rs10902072	50154835	11	C	A	rs10839264	41	*RP11-347H15.1*	5222	intergenic	0.514		7	9	15	2.929E-05	3.114E-06	5.002E-01	-0.099	0.014	0.003
rs11039736	48449477	11	G	A	rs10839264	41	*OR4C10P*	4291	intergenic	2.931		7	9	15	4.995E-04	4.697E-01	ND	-0.084	0.018	ND
rs11039762	48483710	11	A	C	rs10839264	41	*OR4C9P*	1894	intergenic	0.131		7	9	15	3.532E-05	8.851E-04	3.144E-01	0.092	-0.010	0.005
rs11039834	48587474	11	T	C	rs10839264	41	*OR4A45P*	13513	intergenic	1.675		7	9	15	3.020E-05	5.175E-04	1.903E-01	0.093	-0.010	0.006
rs11039850	48599789	11	A	C	rs10839264	41	*OR4A45P*	1198	intergenic	2.433		6	9	15	3.134E-05	9.010E-04	1.726E-01	0.093	-0.010	0.007
rs11040267	49161683	11	G	A	rs10839264	41	*RP11-107P7.4*	5330	intergenic	ND		7	9	15	2.484E-05	7.555E-04	2.541E-01	-0.094	0.010	-0.005
rs11040269	49163784	11	A	G	rs10839264	41	*FOLH1*	4402	intergenic	3.138		7	9	15	2.366E-05	8.143E-04	3.177E-01	0.095	-0.010	0.005
rs11040490	49742774	11	A	G	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	5.155		6	9	15	1.279E-05	1.729E-06	7.043E-02	0.103	-0.014	-0.017
rs11040501	49753860	11	G	T	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	0.319		6	9	15	1.279E-05	1.624E-06	5.071E-02	-0.103	0.014	0.018
rs11040612	49898266	11	T	C	rs10839264	41	*TRIM51DP*	75	downstream	ND		6	9	15	1.930E-05	3.293E-06	5.473E-01	0.102	-0.014	-0.003
rs11040625	49905711	11	T	C	rs10839264	41	*RP11-163O19.3*	65	downstream	3.033		6	9	15	1.934E-05	2.534E-06	5.329E-01	0.102	-0.014	-0.003
rs11040644	49933122	11	A	G	rs10839264	41	*OR4A49P*	3442	intergenic	3.016		6	9	15	2.399E-05	5.774E-06	4.553E-01	0.100	-0.014	-0.004
rs111314125	50142058	11	A	C	rs10839264	41	*RP11-347H15.1*	0	ncRNA_intronic	3.209		5	5	15	3.100E-05	2.789E-06	4.769E-01	0.099	-0.014	-0.003
rs11245570	50193857	11	A	G	rs10839264	41	*RP11-347H15.6*	11867	intergenic	ND		5	5	15	3.089E-05	4.193E-06	5.974E-01	0.099	-0.014	-0.002
rs11245571	50194084	11	C	T	rs10839264	41	*RP11-347H15.6*	11640	intergenic	2.399		6	5	15	3.060E-05	3.254E-06	5.883E-01	-0.099	0.014	0.003
rs11245578	50197377	11	T	G	rs10839264	41	*RP11-347H15.6*	8347	intergenic	0.27		6	9	15	2.779E-05	3.822E-06	5.326E-01	0.100	-0.014	-0.003
rs11245583	50199879	11	A	G	rs10839264	41	*RP11-347H15.6*	5845	intergenic	16.87		5	9	15	2.309E-05	3.946E-06	4.833E-01	0.101	-0.014	-0.003
rs11245590	50214073	11	T	C	rs10839264	41	*RP11-347H15.6*	7140	intergenic	0.024		6	9	15	3.383E-05	3.746E-06	5.249E-01	0.098	-0.014	-0.003
rs11245600	50072675	11	G	A	rs10839264	41	*RP11-227P3.1*	10605	intergenic	7.082		7	9	15	2.648E-05	6.363E-06	5.259E-01	-0.100	0.014	0.003
rs11245612	50230999	11	T	C	rs10839264	41	*RP11-347H15.2*	2554	intergenic	0.175		7	9	15	1.895E-05	4.272E-06	5.246E-01	0.102	-0.014	-0.003
rs11245620	50253887	11	C	T	rs10839264	41	*RP11-347H15.5*	0	ncRNA_intronic	1.379		6	5	15	2.202E-05	3.691E-06	5.358E-01	-0.101	0.014	0.003
rs11245626	50265391	11	A	G	rs10839264	41	*RP11-574M7.1*	1460	intergenic	1.166		6	5	15	2.148E-05	3.199E-06	5.383E-01	0.101	-0.014	-0.003
rs11245638	50294718	11	A	G	rs10839264	41	*RP11-574M7.1*	0	ncRNA_intronic	1.281		6	9	15	2.124E-05	3.222E-06	5.036E-01	0.101	-0.014	-0.003
rs11245642	50302679	11	A	G	rs10839264	41	*RP11-574M7.1*	0	ncRNA_intronic	8.423		5	9	15	1.959E-05	2.975E-06	5.730E-01	0.102	-0.014	-0.003
rs11245644	50333254	11	A	C	rs10839264	41	*RP11-574M7.1*	12376	intergenic	9.517		7	8	9	2.885E-05	5.659E-06	4.994E-01	0.099	-0.014	-0.003
rs11245658	50383084	11	A	G	rs10839264	41	*RP11-574M7.2*	1596	intergenic	7.327		7	9	9	2.755E-05	6.827E-06	5.981E-01	0.100	-0.013	-0.003
rs11245668	50401549	11	A	C	rs10839264	41	*RP11-574M7.2*	20061	intergenic	3.603		7	9	15	2.843E-05	7.994E-06	6.050E-01	0.099	-0.013	-0.002
rs11245680	50434227	11	C	T	rs10839264	41	*RP11-574M7.2*	52739	intergenic	2.848		7	9	15	9.461E-04	7.457E-04	9.965E-01	-0.073	0.009	0.000
rs11245681	50436681	11	T	C	rs10839264	41	*RP11-574M7.2*	55193	intergenic	8.583		6	8	15	8.669E-04	7.444E-04	9.450E-01	0.073	-0.009	0.000
rs11245724	50496091	11	T	C	rs10839264	41	*RP11-574M7.2*	114603	intergenic	8.602		7	9	9	8.621E-04	1.326E-04	9.447E-01	0.073	-0.011	0.000
rs11245738	50517555	11	G	A	rs10839264	41	*RP11-574M7.2*	136067	intergenic	6.973		7	8	9	1.242E-03	1.799E-04	7.309E-01	-0.071	0.010	-0.002
rs11245741	50102994	11	T	G	rs10839264	41	*RP11-347H15.1*	26332	intergenic	0.534		7	5	15	3.132E-05	8.454E-06	4.897E-01	0.099	-0.013	-0.003
rs11245765	50107490	11	A	G	rs10839264	41	*RP11-347H15.1*	21836	intergenic	ND		7	9	15	2.815E-05	8.309E-06	5.658E-01	0.100	-0.013	-0.003
rs11245787	50112839	11	A	G	rs10839264	41	*RP11-347H15.1*	16487	intergenic	1.211		7	9	15	2.926E-05	8.255E-06	5.160E-01	0.099	-0.013	-0.003
rs11245863	50125634	11	A	C	rs10839264	41	*RP11-347H15.1*	3692	intergenic	ND		5	9	15	3.119E-05	2.142E-06	5.615E-01	0.099	-0.014	-0.003
rs11245866	50125724	11	G	A	rs10839264	41	*RP11-347H15.1*	3602	intergenic	1.404		5	9	15	2.793E-05	2.926E-06	5.828E-01	-0.099	0.014	0.003
rs11245897	50134926	11	A	G	rs10839264	41	*RP11-347H15.1*	0	ncRNA_intronic	1.011		5	5	15	2.795E-05	3.264E-06	5.456E-01	0.100	-0.014	-0.003
rs11245905	50138401	11	C	T	rs10839264	41	*RP11-347H15.1*	0	ncRNA_intronic	0.893		6	5	15	2.790E-05	3.237E-06	5.365E-01	-0.099	0.014	0.003
rs114856340	50549054	11	C	T	rs10839264	41	*RP11-574M7.2*	167566	intergenic	8.844		7	8	15	8.894E-04	6.638E-04	9.176E-01	-0.089	0.010	-0.001
rs11525488	50616618	11	G	A	rs10839264	41	*RP11-574M7.2*	235130	intergenic	ND		6	8	9	1.145E-03	3.654E-04	8.760E-01	-0.071	0.010	-0.001
rs11525491	50736366	11	G	A	rs10839264	41	*RP11-574M7.2*	354878	intergenic	9.245		7	5	9	1.207E-03	2.327E-03	5.826E-01	-0.071	0.009	-0.002
rs11530438	49836893	11	C	T	rs10839264	41	*RP11-707M1.7*	2436	intergenic	2.503		6	9	15	2.142E-05	2.831E-06	5.205E-01	-0.101	0.014	0.003
rs11530914	50577853	11	A	G	rs10839264	41	*RP11-574M7.2*	196365	intergenic	8.679		7	8	9	2.208E-03	3.643E-04	9.746E-01	0.066	-0.010	0.000
rs11530915	50582182	11	G	A	rs10839264	41	*RP11-574M7.2*	200694	intergenic	8.747		6	8	9	1.188E-03	1.184E-04	8.938E-01	-0.071	0.011	-0.001
rs11530916	50587078	11	C	A	rs10839264	41	*RP11-574M7.2*	205590	intergenic	7.825		7	8	9	7.250E-04	3.665E-04	7.509E-01	-0.075	0.010	-0.001

rs11530918	50713402	11	T	C	rs10839264	41	*RP11-574M7.2*	331914	intergenic	8.508	5	8	9	1.050E-03	5.113E-03	6.665E-01	0.072	-0.008	0.002
rs11532115	50509802	11	T	G	rs10839264	41	*RP11-574M7.2*	128314	intergenic	6.345	7	9	9	1.374E-03	1.018E-04	7.689E-01	0.070	-0.011	0.001
rs11532117	50583407	11	C	T	rs10839264	41	*RP11-574M7.2*	201919	intergenic	8.914	7	8	15	9.682E-04	3.813E-04	7.179E-01	-0.072	0.010	-0.002
rs11532120	50679066	11	T	C	rs10839264	41	*RP11-574M7.2*	297578	intergenic	ND	7	8	9	1.136E-03	1.739E-03	5.403E-01	0.071	-0.009	0.003
rs11532121	50714855	11	G	A	rs10839264	41	*RP11-574M7.2*	333367	intergenic	9.898	7	8	9	7.892E-04	4.006E-03	6.515E-01	-0.074	0.008	-0.002
rs11532126	50359000	11	A	G	rs10839264	41	*RP11-574M7.2*	9212	intergenic	9.076	6	8	9	2.451E-05	5.618E-06	4.955E-01	0.100	-0.013	-0.003
rs11532131	50446041	11	A	G	rs10839264	41	*RP11-574M7.2*	64553	intergenic	8.485	7	8	9	9.511E-04	8.435E-04	9.663E-01	0.073	-0.009	0.000
rs11532132	50447905	11	C	A	rs10839264	41	*RP11-574M7.2*	66417	intergenic	ND	7	9	9	8.832E-04	8.583E-04	9.973E-01	-0.073	0.009	0.000
rs11532137	50572817	11	A	G	rs10839264	41	*RP11-574M7.2*	191329	intergenic	8.712	7	8	9	1.121E-03	2.101E-04	9.389E-01	0.071	-0.010	0.000
rs11532138	50587778	11	G	T	rs10839264	41	*RP11-574M7.2*	206290	intergenic	9.815	7	8	9	1.193E-03	2.200E-04	9.053E-01	-0.071	0.010	-0.001
rs11532139	50588854	11	T	C	rs10839264	41	*RP11-574M7.2*	207366	intergenic	3.868	6	8	9	1.037E-03	2.562E-04	8.596E-01	0.072	-0.010	0.001
rs11532141	50647550	11	G	A	rs10839264	41	*RP11-574M7.2*	266062	intergenic	9.834	7	7	9	1.259E-03	1.713E-03	8.885E-01	-0.071	0.009	-0.001
rs11533298	50525717	11	G	A	rs10839264	41	*RP11-574M7.2*	144229	intergenic	8.715	6	8	9	1.169E-03	8.017E-05	8.750E-01	-0.071	0.011	-0.001
rs11533299	50546275	11	G	A	rs10839264	41	*RP11-574M7.2*	164787	intergenic	8.975	7	8	9	1.081E-03	1.214E-04	8.755E-01	-0.072	0.011	-0.001
rs11533300	50583629	11	A	G	rs10839264	41	*RP11-574M7.2*	202141	intergenic	8.772	7	8	15	1.187E-03	1.203E-04	9.116E-01	0.071	-0.011	0.000
rs11533303	50655118	11	A	C	rs10839264	41	*RP11-574M7.2*	273630	intergenic	ND	7	9	15	9.936E-04	1.618E-03	9.071E-01	0.072	-0.009	0.001
rs11533311	50431955	11	C	T	rs10839264	41	*RP11-574M7.2*	50467	intergenic	2.892	7	9	15	8.681E-04	7.861E-04	9.476E-01	-0.073	0.009	0.000
rs11533313	50445497	11	T	C	rs10839264	41	*RP11-574M7.2*	64009	intergenic	8.074	7	8	9	9.510E-04	7.227E-04	9.497E-01	0.073	-0.009	0.000
rs11533319	50460352	11	G	A	rs10839264	41	*RP11-574M7.2*	78864	intergenic	8.997	6	8	9	8.765E-04	5.698E-04	9.879E-01	-0.073	0.010	0.000
rs11533322	50462539	11	A	G	rs10839264	41	*RP11-574M7.2*	81051	intergenic	8.866	6	9	9	1.124E-03	7.993E-04	9.465E-01	0.072	-0.009	0.000
rs11533326	50523288	11	T	G	rs10839264	41	*RP11-574M7.2*	141800	intergenic	7.346	7	5	9	1.269E-03	2.076E-04	8.595E-01	0.071	-0.010	0.001
rs11533327	50528829	11	T	G	rs10839264	41	*RP11-574M7.2*	147341	intergenic	7.339	7	8	9	1.445E-03	9.457E-05	8.611E-01	0.070	-0.011	0.001
rs11533330	50589560	11	A	G	rs10839264	41	*RP11-574M7.2*	208072	intergenic	3.442	5	8	9	6.718E-04	4.023E-04	6.641E-01	0.075	-0.010	0.002
rs11533335	50624605	11	A	G	rs10839264	41	*RP11-574M7.2*	243117	intergenic	ND	6	8	15	1.176E-03	4.751E-04	8.503E-01	0.071	-0.010	0.001
rs11533336	50624641	11	A	G	rs10839264	41	*RP11-574M7.2*	243153	intergenic	9.016	6	8	15	1.217E-03	4.752E-04	8.569E-01	0.071	-0.010	0.001
rs11533337	50642647	11	C	T	rs10839264	41	*RP11-574M7.2*	261159	intergenic	8.464	7	8	9	1.060E-03	1.300E-03	9.832E-01	-0.072	0.009	0.000
rs11533339	50654069	11	A	G	rs10839264	41	*RP11-574M7.2*	272581	intergenic	4.623	5	9	9	1.030E-03	1.676E-03	9.085E-01	0.072	-0.009	0.001
rs11534593	50437404	11	T	G	rs10839264	41	*RP11-574M7.2*	55916	intergenic	6.736	5	8	9	9.215E-04	7.065E-04	9.890E-01	0.073	-0.009	0.000
rs11534606	50446084	11	G	A	rs10839264	41	*RP11-574M7.2*	64596	intergenic	8.712	6	8	9	9.519E-04	8.434E-04	9.678E-01	-0.073	0.009	0.000
rs11534617	50550333	11	T	C	rs10839264	41	*RP11-574M7.2*	168845	intergenic	8.139	6	8	15	1.079E-03	1.097E-04	9.947E-01	0.072	-0.011	0.000
rs11534619	50572682	11	C	A	rs10839264	41	*RP11-574M7.2*	191194	intergenic	6.123	7	8	9	1.098E-03	1.997E-04	9.674E-01	-0.071	0.010	0.000
rs11534621	50584505	11	G	T	rs10839264	41	*RP11-574M7.2*	203017	intergenic	ND	6	8	9	1.187E-03	1.206E-04	9.009E-01	-0.071	0.011	-0.001
rs11534623	50611167	11	C	T	rs10839264	41	*RP11-574M7.2*	229679	intergenic	8.595	6	8	9	1.105E-03	3.556E-04	8.561E-01	-0.071	0.010	-0.001
rs11534625	50653423	11	A	C	rs10839264	41	*RP11-574M7.2*	271935	intergenic	ND	7	8	9	1.188E-03	2.723E-03	8.528E-01	0.071	-0.009	0.001
rs11534626	50653429	11	A	C	rs10839264	41	*RP11-574M7.2*	271941	intergenic	9.366	7	8	9	1.148E-03	2.723E-03	8.708E-01	0.071	-0.009	0.001
rs11534627	50653951	11	T	C	rs10839264	41	*RP11-574M7.2*	272463	intergenic	3.608	7	9	9	1.143E-03	1.869E-03	8.754E-01	0.071	-0.009	0.001
rs11534640	50773921	11	C	T	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.639E-03	3.744E-01	ND	-0.069	0.020	ND
rs11535866	50498447	11	C	T	rs10839264	41	*RP11-574M7.2*	116959	intergenic	8.088	6	9	9	1.034E-03	8.952E-05	8.110E-01	-0.072	0.011	-0.001
rs11535875	50778367	11	A	G	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.814E-03	1.821E-03	5.159E-01	0.069	-0.009	0.003
rs11535884	50523558	11	C	A	rs10839264	41	*RP11-574M7.2*	142070	intergenic	7.799	7	5	9	9.119E-04	1.456E-04	9.392E-01	-0.073	0.011	0.000
rs11535887	50598819	11	C	T	rs10839264	41	*RP11-574M7.2*	217331	intergenic	8.633	6	8	9	1.116E-03	2.498E-04	8.606E-01	-0.071	0.010	-0.001
rs11535889	50608681	11	T	G	rs10839264	41	*RP11-574M7.2*	227193	intergenic	1.451	6	9	15	8.241E-04	9.192E-04	8.904E-01	0.073	-0.009	0.001
rs11535890	50615255	11	G	A	rs10839264	41	*RP11-574M7.2*	233767	intergenic	8.758	6	8	9	1.236E-03	5.007E-04	8.408E-01	-0.071	0.010	-0.001
rs11535894	50664943	11	T	C	rs10839264	41	*RP11-574M7.2*	283455	intergenic	1.971	7	9	15	1.028E-03	1.454E-03	9.314E-01	0.072	-0.009	0.000
rs11537270	50578119	11	C	A	rs10839264	41	*RP11-574M7.2*	196631	intergenic	7.749	6	8	9	2.201E-03	2.655E-04	9.213E-01	-0.067	0.010	0.000
rs11537287	50556716	11	A	G	rs10839264	41	*RP11-574M7.2*	175228	intergenic	7.958	7	8	9	2.524E-03	6.932E-05	4.886E-01	0.066	-0.011	0.003
rs11537289	50566547	11	T	C	rs10839264	41	*RP11-574M7.2*	185059	intergenic	8.614	6	8	9	1.126E-03	1.371E-04	9.305E-01	0.071	-0.011	0.000
rs11537291	50580845	11	T	C	rs10839264	41	*RP11-574M7.2*	199357	intergenic	8.609	7	8	9	1.188E-03	4.979E-05	9.143E-01	0.071	-0.012	0.000
rs11537292	50601443	11	C	A	rs10839264	41	*RP11-574M7.2*	219955	intergenic	7.429	6	8	9	1.116E-03	2.457E-04	8.763E-01	-0.071	0.010	-0.001
rs11559648	50772789	11	A	G	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.639E-03	3.135E-01	ND	0.069	-0.022	ND
rs11559671	50688542	11	T	C	rs10839264	41	*RP11-574M7.2*	307054	intergenic	8.649	6	8	9	9.996E-04	2.891E-03	6.504E-01	0.072	-0.009	0.002
rs11559674	50745011	11	T	C	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.234E-03	7.285E-04	5.945E-01	0.071	-0.010	0.002
rs11561030	50582910	11	T	G	rs10839264	41	*RP11-574M7.2*	201422	intergenic	6.812	7	8	9	1.214E-03	1.219E-04	9.216E-01	0.071	-0.011	0.000
rs11561057	50483935	11	C	T	rs10839264	41	*RP11-574M7.2*	102447	intergenic	8.366	7	8	9	1.206E-03	3.555E-04	7.504E-01	-0.071	0.010	-0.001
rs11561058	50485819	11	T	C	rs10839264	41	*RP11-574M7.2*	104331	intergenic	8.616	7	8	9	1.212E-03	3.804E-04	7.613E-01	0.071	-0.010	0.001
rs11561062	50509228	11	T	C	rs10839264	41	*RP11-574M7.2*	127740	intergenic	8.921	7	9	15	1.261E-03	9.750E-05	7.563E-01	0.071	-0.011	0.001
rs11561064	50566196	11	T	C	rs10839264	41	*RP11-574M7.2*	184708	intergenic	8.408	7	8	9	1.200E-03	1.476E-04	9.878E-01	0.071	-0.011	0.000
rs11561066	50110597	11	C	T	rs10839264	41	*RP11-347H15.1*	18729	intergenic	ND	6	9	15	2.283E-05	3.398E-06	4.682E-01	-0.101	0.014	0.004
rs11561072	50627249	11	C	T	rs10839264	41	*RP11-574M7.2*	245761	intergenic	8.723	7	8	9	1.102E-03	4.721E-04	9.541E-01	-0.072	0.010	0.000
rs11561081	50703238	11	T	C	rs10839264	41	*RP11-574M7.2*	321750	intergenic	0.529	7	9	15	9.665E-04	3.642E-03	7.032E-01	0.072	-0.009	0.002
rs11561089	50776940	11	A	C	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.655E-03	1.939E-03	5.085E-01	0.069	-0.009	0.003
rs11561090	50778199	11	A	G	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.655E-03	1.939E-03	5.014E-01	0.069	-0.009	0.003
rs11600038	49794257	11	A	G	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	0.182	7	9	15	2.015E-05	5.100E-06	4.868E-01	0.101	-0.013	-0.003
rs11600419	50445062	11	A	G	rs10839264	41	*RP11-574M7.2*	63574	intergenic	9.291	7	8	9	8.890E-04	2.628E-04	9.878E-01	0.073	-0.010	0.000
rs116004493	50439791	11	A	G	rs10839264	41	*RP11-574M7.2*	58303	intergenic	8.944	7	8	9	1.044E-03	1.737E-03	9.399E-01	0.087	-0.010	0.000
rs11600763	48525018	11	C	T	rs10839264	41	*OR4A46P*	6185	intergenic	0.677	7	9	15	3.685E-05	6.749E-04	3.799E-01	-0.092	0.010	-0.004
rs11601307	50514121	11	T	C	rs10839264	41	*RP11-574M7.2*	132633	intergenic	9.176	6	8	9	1.013E-03	1.368E-04	8.893E-01	0.072	-0.011	0.001

rs11602258	49970190	11	G	T	rs10839264	41	*OR4C13*	3752	intergenic	0.739	7	9	15	1.858E-05	3.327E-06	4.649E-01	-0.102	0.014	0.004
rs11602349	49804044	11	A	G	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	0.846	5	9	15	1.971E-05	4.277E-06	4.947E-01	0.101	-0.014	-0.003
rs11602648	50260679	11	T	C	rs10839264	41	*RP11-347H15.4*	0	ncRNA_intronic	8.698	6	5	9	2.704E-05	3.301E-06	5.687E-01	0.100	-0.014	-0.003
rs11603092	50627659	11	A	C	rs10839264	41	*RP11-574M7.2*	246171	intergenic	9.301	7	8	9	9.014E-04	7.390E-04	8.878E-01	0.089	-0.010	0.001
rs116032466	50250264	11	G	T	rs10839264	41	*RP11-347H15.5*	0	ncRNA_intronic	7.465	6	5	15	1.752E-05	2.894E-06	4.972E-01	-0.102	0.014	0.003
rs11603576	49344126	11	A	G	rs10839264	41	*CTD-2026G22.1*	0	ncRNA_intronic	3.448	7	9	15	3.632E-06	4.680E-05	4.992E-01	0.107	-0.013	0.003
rs11603859	49772699	11	C	T	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	0.991	5	9	15	1.913E-05	2.312E-06	5.143E-01	-0.102	0.014	0.003
rs11604135	49970180	11	C	A	rs10839264	41	*OR4C13*	3762	intergenic	0.021	7	9	15	2.625E-05	6.112E-06	4.634E-01	-0.100	0.013	0.003
rs11605648	50269480	11	G	A	rs10839264	41	*RP11-574M7.1*	0	ncRNA_intronic	1.966	7	5	15	1.685E-05	3.714E-06	5.679E-01	-0.102	0.014	0.003
rs11607604	49148936	11	A	C	rs10839264	41	*RP11-107P7.5*	2813	intergenic	6.194	5	9	15	2.606E-05	8.716E-04	3.228E-01	0.094	-0.010	0.005
rs11607791	49358347	11	C	T	rs10839264	41	*CTD-2026G22.1*	0	ncRNA_intronic	7.386	7	9	15	2.814E-06	6.952E-05	3.698E-01	-0.108	0.012	-0.004
rs116489441	50094796	11	A	G	rs10839264	41	*RP11-227P3.1*	32726	intergenic	3.923	6	9	15	2.860E-05	8.469E-06	5.386E-01	0.099	-0.013	-0.003
rs116533273	50442748	11	T	G	rs10839264	41	*RP11-574M7.2*	61260	intergenic	7.129	7	8	9	1.034E-03	1.754E-03	9.135E-01	0.087	-0.010	0.001
rs116620078	50746502	11	C	T	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.235E-03	1.995E-03	6.090E-01	-0.071	0.009	-0.002
rs116833490	50712710	11	T	C	rs10839264	41	*RP11-574M7.2*	331222	intergenic	5.641	6	8	9	1.177E-03	3.658E-03	6.517E-01	0.071	-0.008	0.002
rs116837135	50628477	11	G	T	rs10839264	41	*RP11-574M7.2*	246989	intergenic	9.786	7	8	9	1.278E-03	6.036E-04	8.784E-01	-0.071	0.010	-0.001
rs117027588	50258256	11	A	G	rs10839264	41	*RP11-347H15.4*	0	ncRNA_intronic	5.445	7	1	9	2.226E-05	3.634E-06	5.414E-01	0.101	-0.014	-0.003
rs117148191	50533697	11	A	G	rs10839264	41	*RP11-574M7.2*	152209	intergenic	ND	5	8	9	9.569E-04	7.017E-04	9.025E-01	0.088	-0.010	0.001
rs117195264	50457703	11	A	G	rs10839264	41	*RP11-574M7.2*	76215	intergenic	2.048	7	9	15	9.723E-04	8.225E-04	9.718E-01	0.072	-0.009	0.000
rs117205965	50557717	11	T	C	rs10839264	41	*RP11-574M7.2*	176229	intergenic	8.523	7	8	9	8.642E-04	6.109E-04	8.903E-01	0.089	-0.010	0.001
rs117421977	50702981	11	T	C	rs10839264	41	*RP11-574M7.2*	321493	intergenic	1.314	6	9	15	1.131E-03	3.030E-03	6.577E-01	0.071	-0.009	0.002
rs117462662	48693337	11	T	C	rs10839264	41	*OR4A44P*	43291	intergenic	8.674	7	9	9	1.698E-05	2.907E-03	2.643E-01	0.096	-0.009	0.005
rs117568066	50766141	11	A	G	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.563E-03	7.422E-04	4.997E-01	0.070	-0.010	0.003
rs117620803	50636189	11	C	A	rs10839264	41	*RP11-574M7.2*	254701	intergenic	6.393	6	8	9	1.060E-03	5.332E-04	9.539E-01	-0.072	0.010	0.000
rs117838176	49286896	11	T	C	rs10839264	41	*CTD-2026G22.1*	40369	intergenic	6.547	7	9	15	4.567E-06	ND	6.341E-01	0.106	ND	0.002
rs12049895	50732640	11	C	A	rs10839264	41	*RP11-574M7.2*	351152	intergenic	8.497	7	5	9	1.076E-03	1.039E-03	6.558E-01	-0.072	0.010	-0.002
rs12221948	49862110	11	C	T	rs10839264	41	*TRIM51FP*	1237	intergenic	0.707	7	9	15	1.834E-05	3.552E-06	4.973E-01	-0.102	0.014	0.003
rs12222489	50071943	11	T	G	rs10839264	41	*RP11-227P3.1*	9873	intergenic	1.092	6	9	15	2.955E-05	8.962E-06	5.315E-01	0.099	-0.013	-0.003
rs12222770	50328061	11	A	G	rs10839264	41	*RP11-574M7.1*	7183	intergenic	8.994	7	8	9	5.685E-05	1.009E-05	7.144E-01	0.092	-0.013	-0.002
rs12223023	50185153	11	A	C	rs10839264	41	*RP11-347H15.6*	20571	intergenic	3.969	7	9	15	2.743E-05	3.509E-06	5.315E-01	0.100	-0.014	-0.003
rs12223607	50127185	11	T	C	rs10839264	41	*RP11-347H15.1*	2141	intergenic	0.778	7	9	15	9.166E-05	3.143E-05	7.694E-02	0.085	-0.011	-0.008
rs12223681	50470636	11	A	G	rs10839264	41	*RP11-574M7.2*	89148	intergenic	3.402	7	9	15	1.308E-03	4.385E-04	7.964E-01	0.070	-0.010	0.001
rs12224066	50228358	11	A	C	rs10839264	41	*RP11-347H15.2*	0	ncRNA_exonic	4.596	3a	9	15	1.902E-05	4.340E-06	5.051E-01	0.102	-0.014	-0.003
rs12224566	49758856	11	A	C	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	ND	6	9	15	1.496E-05	3.300E-06	ND	0.103	-0.014	ND
rs12224979	49819722	11	A	G	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	3.188	5	9	15	2.364E-05	6.039E-06	4.865E-01	0.101	-0.014	-0.003
rs12225669	50578571	11	T	C	rs10839264	41	*RP11-574M7.2*	197083	intergenic	9.329	7	8	9	2.208E-03	1.335E-04	9.618E-01	0.066	-0.011	0.000
rs12225700	49852628	11	C	T	rs10839264	41	*TRIM51FP*	2063	intergenic	0.841	6	9	15	1.853E-05	3.113E-06	4.924E-01	-0.102	0.014	0.003
rs12225875	50533479	11	T	C	rs10839264	41	*RP11-574M7.2*	151991	intergenic	8.151	5	8	9	1.168E-03	1.326E-04	8.656E-01	0.071	-0.011	0.001
rs12226894	50068959	11	T	G	rs10839264	41	*RP11-227P3.1*	6889	intergenic	0.563	6	9	15	2.169E-05	4.106E-06	5.151E-01	0.101	-0.014	-0.003
rs1304636	50461046	11	A	G	rs10839264	41	*RP11-574M7.2*	79558	intergenic	9.011	6	9	9	9.835E-04	8.117E-04	9.526E-01	0.072	-0.009	0.000
rs138559055	50746572	11	G	A	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.235E-03	2.861E-03	6.233E-01	-0.071	0.009	-0.002
rs138670088	50109951	11	A	G	rs10839264	41	*RP11-347H15.1*	19375	intergenic	0.962	7	9	15	2.757E-05	4.865E-06	5.160E-01	0.100	-0.014	-0.003
rs138746291	50636403	11	A	G	rs10839264	41	*RP11-574M7.2*	254915	intergenic	9.104	6	8	9	1.087E-03	5.479E-04	9.233E-01	0.072	-0.010	0.000
rs138894090	49784963	11	C	A	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	1.228	7	9	15	2.828E-05	8.436E-06	4.708E-01	-0.099	0.013	0.003
rs139482349	50636783	11	G	T	rs10839264	41	*RP11-574M7.2*	255295	intergenic	ND	7	8	9	1.225E-03	2.860E-04	8.766E-01	-0.071	0.011	-0.001
rs139564703	50332390	11	C	T	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	8.381E-05	1.087E-05	7.441E-01	-0.145	0.017	0.002

rs142182397	50395684	11	C	T	rs10839264	41	*RP11-574M7.2*	14196	intergenic	9.252	7	8	9	2.952E-05	8.553E-06	6.275E-01	-0.099	0.013	0.002
rs142498449	50739469	11	T	C	rs10839264	41	*RP11-574M7.2*	357981	intergenic	8.617	6	5	9	1.035E-03	1.632E-03	6.065E-01	0.072	-0.009	0.002
rs142754828	50332565	11	A	G	rs10839264	41	*RP11-574M7.1*	11687	intergenic	9.182	7	8	9	2.441E-05	6.508E-06	5.673E-01	0.100	-0.014	-0.003
rs142937465	50664747	11	G	A	rs10839264	41	*RP11-574M7.2*	283259	intergenic	3.473	6	9	15	5.256E-04	2.322E-03	9.496E-01	-0.092	0.009	0.000
rs144203459	50691063	11	G	T	rs10839264	41	*RP11-574M7.2*	309575	intergenic	8.932	7	5	9	1.144E-03	2.344E-03	6.458E-01	-0.071	0.009	-0.002
rs144760606	49950521	11	C	T	rs10839264	41	*OR4R3P*	5082	intergenic	1.259	7	9	15	2.194E-05	5.309E-06	4.268E-01	-0.101	0.014	0.004
rs145609194	50658902	11	C	T	rs10839264	41	*RP11-574M7.2*	277414	intergenic	4.233	6	9	15	1.148E-03	1.742E-03	8.939E-01	-0.071	0.009	-0.001
rs145757665	50742476	11	A	C	rs10839264	41	*RP11-574M7.2*	360988	intergenic	9.124	7	8	9	1.670E-03	1.288E-03	6.144E-01	0.069	-0.009	0.002
rs145939077	50706361	11	G	A	rs10839264	41	*RP11-574M7.2*	324873	intergenic	1.258	7	9	15	1.130E-03	2.106E-03	6.231E-01	-0.071	0.009	-0.002
rs146382161	49873791	11	A	G	rs10839264	41	*RP11-163O19.1*	0	ncRNA_intronic	4.899	3a	1	15	1.797E-05	3.031E-06	5.064E-01	0.102	-0.014	-0.003
rs146920377	50699661	11	A	C	rs10839264	41	*RP11-574M7.2*	318173	intergenic	6.555	6	9	9	1.170E-03	2.053E-03	8.541E-01	0.073	-0.009	0.001
rs147629095	49780837	11	C	T	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	ND	7	9	15	2.014E-05	4.151E-06	4.826E-01	-0.101	0.014	0.003
rs147848893	49884371	11	A	G	rs10839264	41	*RP11-163O19.1*	290	downstream	1.635	5	9	15	1.961E-05	2.985E-06	4.943E-01	0.101	-0.014	-0.003
rs148128496	50455163	11	T	G	rs10839264	41	*RP11-574M7.2*	73675	intergenic	7.491	6	8	9	8.048E-04	4.545E-04	9.749E-01	0.074	-0.010	0.000
rs148562653	50735766	11	A	G	rs10839264	41	*RP11-574M7.2*	354278	intergenic	8.877	7	5	9	4.326E-04	2.435E-03	8.501E-01	0.091	-0.010	0.001
rs148694707	50775472	11	A	G	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.248E-03	2.042E-03	5.123E-01	0.071	-0.009	0.003
rs149052103	49279702	11	C	T	rs10839264	41	*CTD-2026G22.1*	47563	intergenic	ND	7	7	15	5.457E-06	1.908E-04	6.621E-01	-0.105	0.012	-0.002
rs1496471	50177343	11	A	C	rs10839264	41	*RP11-347H15.1*	27730	intergenic	ND	6	9	15	2.674E-05	3.458E-06	5.125E-01	0.100	-0.014	-0.003
rs149912782	48754255	11	G	A	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.594E-05	ND	2.520E-01	-0.096	ND	-0.006
rs150674103	50596586	11	T	C	rs10839264	41	*RP11-574M7.2*	215098	intergenic	2.982	6	9	15	1.001E-03	6.371E-04	8.664E-01	0.072	-0.010	0.001
rs151266008	50444146	11	C	A	rs10839264	41	*RP11-574M7.2*	62658	intergenic	6.603	6	8	9	9.514E-04	8.340E-04	9.862E-01	-0.073	0.009	0.000
rs1581435	50464038	11	T	G	rs10839264	41	*RP11-574M7.2*	82550	intergenic	ND	ND	9	9	1.304E-03	8.010E-04	9.337E-01	0.071	-0.009	0.000
rs1581443	50518418	11	A	G	rs10839264	41	*RP11-574M7.2*	136930	intergenic	5.507	7	9	9	1.304E-03	1.764E-04	7.440E-01	0.070	-0.010	0.001
rs1582374	50600710	11	C	A	rs10839264	41	*RP11-574M7.2*	219222	intergenic	ND	5	8	9	8.837E-04	1.187E-04	ND	-0.073	0.011	ND
rs1582375	50603091	11	A	G	rs10839264	41	*RP11-574M7.2*	221603	intergenic	8.919	6	1	9	8.227E-04	2.726E-04	8.852E-01	0.073	-0.010	0.001
rs1589627	50504789	11	T	C	rs10839264	41	*RP11-574M7.2*	123301	intergenic	ND	7	9	9	1.118E-03	1.009E-04	7.809E-01	0.072	-0.011	0.001
rs1592595	50642742	11	C	T	rs10839264	41	*RP11-574M7.2*	261254	intergenic	8.947	6	8	9	1.033E-03	6.145E-04	9.745E-01	-0.072	0.010	0.000
rs1592601	50602502	11	A	G	rs10839264	41	*RP11-574M7.2*	221014	intergenic	8.804	6	8	9	7.944E-04	2.748E-04	8.880E-01	0.074	-0.010	0.001
rs1623556	49907856	11	G	A	rs10839264	41	*RP11-163O19.3*	2210	intergenic	1.762	7	9	15	1.904E-05	2.960E-06	5.303E-01	-0.102	0.014	0.003
rs16906399	50275359	11	T	G	rs10839264	41	*RP11-574M7.1*	0	ncRNA_intronic	ND	7	4	15	1.947E-05	3.073E-06	5.770E-01	0.102	-0.014	-0.003
rs16906404	50275219	11	A	G	rs10839264	41	*RP11-574M7.1*	0	ncRNA_intronic	2.622	7	4	15	2.320E-05	3.553E-06	5.809E-01	0.100	-0.014	-0.003
rs16906478	50170337	11	C	T	rs10839264	41	*RP11-347H15.1*	20724	intergenic	ND	7	9	15	3.693E-05	3.055E-06	5.495E-01	-0.098	0.014	0.003
rs1722017	49906191	11	A	C	rs10839264	41	*RP11-163O19.3*	545	downstream	4.374	6	9	15	2.119E-05	3.572E-06	4.715E-01	0.101	-0.014	-0.003
rs1794163	49899554	11	T	C	rs10839264	41	*TRIM51DP*	1363	intergenic	1.432	7	9	15	1.889E-05	3.418E-06	4.985E-01	0.102	-0.014	-0.003
rs1812997	48696598	11	A	G	rs10839264	41	*OR4A44P*	46552	intergenic	8.292	ND	9	9	2.532E-05	8.515E-04	2.351E-01	0.093	-0.010	0.006
rs1819876	50591440	11	G	T	rs10839264	41	*RP11-574M7.2*	209952	intergenic	1.336	7	9	15	1.193E-03	2.294E-04	9.119E-01	-0.071	0.010	0.000
rs1826836	50140456	11	A	G	rs10839264	41	*RP11-347H15.1*	0	ncRNA_intronic	0.714	7	5	15	2.566E-05	6.440E-06	5.745E-01	0.100	-0.014	-0.003
rs1829948	49863812	11	T	C	rs10839264	41	*TRIM51FP*	2939	intergenic	ND	7	9	15	1.660E-05	3.148E-06	5.347E-01	0.102	-0.014	-0.003
rs1833267	50636051	11	T	G	rs10839264	41	*RP11-574M7.2*	254563	intergenic	7.056	7	8	9	1.062E-03	5.001E-04	9.696E-01	0.072	-0.010	0.000
rs1843629	49319195	11	A	G	rs10839264	41	*CTD-2026G22.1*	8070	intergenic	8.791	ND	9	15	3.386E-06	1.422E-04	5.442E-01	0.107	-0.012	0.003
rs1845865	50165888	11	C	A	rs10839264	41	*RP11-347H15.1*	16275	intergenic	ND	6	9	15	2.767E-05	4.378E-06	5.661E-01	-0.100	0.014	0.003
rs187449908	50115988	11	T	C	rs10839264	41	*RP11-347H15.1*	13338	intergenic	1.101	6	9	15	3.137E-05	8.342E-06	5.117E-01	0.099	-0.013	-0.003
rs1879975	50450111	11	A	G	rs10839264	41	*RP11-574M7.2*	68623	intergenic	3.276	6	9	15	8.991E-04	8.103E-04	9.732E-01	0.073	-0.009	0.000
rs1894992	50610916	11	A	G	rs10839264	41	*RP11-574M7.2*	229428	intergenic	9.025	7	8	9	1.048E-03	1.622E-04	8.600E-01	0.072	-0.011	0.001
rs1916216	50517463	11	A	G	rs10839264	41	*RP11-574M7.2*	135975	intergenic	6.761	6	8	9	1.379E-03	1.857E-04	8.140E-01	0.070	-0.010	0.001
rs1965513	49879466	11	T	C	rs10839264	41	*RP11-163O19.1:RP11-163O19.11*	0	ncRNA_intronic	1.379	ND	9	15	1.983E-05	3.344E-06	5.276E-01	0.101	-0.014	-0.003
rs1972458	50094473	11	T	C	rs10839264	41	*RP11-227P3.1*	32403	intergenic	6.482	7	9	15	3.148E-05	8.251E-06	5.364E-01	0.099	-0.013	-0.003

rs2007644	50473045	11	A	G	rs10839264	41	*RP11-574M7.2*	91557	intergenic	2.246	6	8	9	1.201E-03	3.935E-04	7.781E-01	0.071	-0.010	0.001
rs2015889	50182699	11	C	T	rs10839264	41	*RP11-347H15.6*	23025	intergenic	4.582	6	9	15	3.382E-05	3.719E-06	5.237E-01	-0.098	0.014	0.003
rs2026797	50257407	11	A	G	rs10839264	41	*RP11-347H15.4*	342	upstream	3.034	ND	1	9	2.193E-05	3.069E-06	6.061E-01	0.101	-0.014	-0.002
rs2111313	50641329	11	G	A	rs10839264	41	*RP11-574M7.2*	259841	intergenic	ND	7	8	9	9.743E-04	1.127E-03	9.957E-01	-0.072	0.010	0.000
rs2111319	50591411	11	T	C	rs10839264	41	*RP11-574M7.2*	209923	intergenic	3.614	7	9	15	1.191E-03	2.262E-04	9.208E-01	0.071	-0.010	0.000
rs2177266	50502777	11	G	A	rs10839264	41	*RP11-574M7.2*	121289	intergenic	9.053	7	8	9	1.228E-03	9.477E-05	7.697E-01	-0.071	0.011	-0.001
rs2193309	50668400	11	T	C	rs10839264	41	*RP11-574M7.2*	286912	intergenic	4.331	6	8	9	9.866E-04	9.831E-04	8.635E-01	0.072	-0.009	0.001
rs2193323	50608495	11	A	G	rs10839264	41	*RP11-574M7.2*	227007	intergenic	ND	6	9	15	8.643E-04	1.441E-03	8.773E-01	0.073	-0.009	0.001
rs2216272	50667877	11	T	C	rs10839264	41	*RP11-574M7.2*	286389	intergenic	4.986	6	8	9	1.034E-03	1.085E-03	9.353E-01	0.072	-0.009	0.000
rs2313605	50454023	11	A	G	rs10839264	41	*RP11-574M7.2*	72535	intergenic	3.895	ND	8	9	8.950E-04	7.554E-04	9.739E-01	0.073	-0.009	0.000
rs2313611	50436720	11	G	A	rs10839264	41	*RP11-574M7.2*	55232	intergenic	ND	ND	8	15	8.651E-04	7.543E-04	9.481E-01	-0.073	0.009	0.000
rs2313670	50505556	11	A	C	rs10839264	41	*RP11-574M7.2*	124068	intergenic	8.499	6	9	15	1.114E-03	1.055E-04	7.793E-01	0.072	-0.011	0.001
rs2313671	50503843	11	T	C	rs10839264	41	*RP11-574M7.2*	122355	intergenic	ND	ND	8	9	1.048E-03	1.347E-04	9.215E-01	0.072	-0.011	0.000
rs2872385	50472902	11	A	C	rs10839264	41	*RP11-574M7.2*	91414	intergenic	3.174	ND	8	9	1.096E-03	1.641E-04	9.175E-01	0.072	-0.011	0.000
rs34319009	50558148	11	A	C	rs10839264	41	*RP11-574M7.2*	176660	intergenic	9.202	6	8	9	1.496E-03	1.627E-04	9.447E-01	0.070	-0.011	0.000
rs34645712	49359718	11	C	T	rs10839264	41	*CTD-2026G22.1*	0	ncRNA_intronic	1.061	7	9	15	3.329E-06	1.560E-04	5.254E-01	-0.107	0.012	-0.003
rs34857479	50558306	11	T	G	rs10839264	41	*RP11-574M7.2*	176818	intergenic	6.496	6	8	9	2.048E-03	1.528E-04	9.687E-01	0.068	-0.011	0.000
rs3914005	49777809	11	G	A	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	1.754	6	9	15	1.738E-05	3.414E-06	4.686E-01	-0.102	0.014	0.004
rs3919554	50650940	11	T	C	rs10839264	41	*RP11-574M7.2*	269452	intergenic	ND	6	5	9	1.186E-03	2.191E-03	8.939E-01	0.071	-0.009	0.001
rs3960750	49836271	11	T	G	rs10839264	41	*RP11-707M1.7*	3058	intergenic	0.022	ND	9	15	2.060E-05	3.069E-06	4.686E-01	0.101	-0.014	-0.003
rs3974686	49350027	11	A	G	rs10839264	41	*CTD-2026G22.1*	0	ncRNA_intronic	1.652	7	7	15	3.324E-06	1.054E-04	4.167E-01	0.107	-0.012	0.004
rs4111476	50299098	11	A	G	rs10839264	41	*RP11-574M7.1*	0	ncRNA_intronic	1.976	ND	9	15	2.557E-05	2.745E-06	4.911E-01	0.100	-0.014	-0.003
rs4318009	50545688	11	G	A	rs10839264	41	*RP11-574M7.2*	164200	intergenic	8.953	ND	8	9	1.075E-03	1.380E-04	9.231E-01	-0.072	0.011	0.000
rs4426130	50677356	11	A	G	rs10839264	41	*RP11-574M7.2*	295868	intergenic	ND	ND	8	9	1.068E-03	2.237E-03	8.808E-01	0.072	-0.009	0.001
rs4438025	50655670	11	A	C	rs10839264	41	*RP11-574M7.2*	274182	intergenic	2.882	ND	9	15	1.185E-03	1.031E-03	8.722E-01	0.071	-0.010	0.001
rs4438069	50425664	11	G	T	rs10839264	41	*RP11-574M7.2*	44176	intergenic	8.983	ND	8	9	9.541E-04	6.229E-04	9.843E-01	-0.073	0.009	0.000
rs4564374	50552569	11	A	G	rs10839264	41	*RP11-574M7.2*	171081	intergenic	ND	ND	8	9	1.098E-03	1.206E-04	9.436E-01	0.072	-0.011	0.000
rs4881702	50096425	11	T	C	rs10839264	41	*RP11-347H15.1*	32901	intergenic	1.444	ND	9	15	3.030E-05	6.324E-06	5.736E-01	0.099	-0.013	-0.003
rs57078898	48564595	11	G	A	rs10839264	41	*OR4A43P*	16071	intergenic	0.922	7	9	15	2.920E-05	5.623E-04	3.048E-01	-0.093	0.010	-0.005
rs57197839	50742403	11	G	A	rs10839264	41	*RP11-574M7.2*	360915	intergenic	ND	7	8	9	1.622E-03	1.319E-03	6.280E-01	-0.069	0.009	-0.002
rs57541854	50458722	11	A	G	rs10839264	41	*RP11-574M7.2*	77234	intergenic	2.915	7	9	15	9.796E-04	8.034E-04	9.631E-01	0.072	-0.009	0.000
rs57618552	50376723	11	T	C	rs10839264	41	*RP11-574M7.2*	0	ncRNA_intronic	1.432	7	9	15	2.608E-05	7.178E-06	6.474E-01	0.100	-0.013	-0.002
rs58211814	50210581	11	C	A	rs10839264	41	*RP11-347H15.6*	3648	intergenic	0.232	6	9	15	2.574E-05	3.987E-06	5.241E-01	-0.100	0.014	0.003
rs58534789	50228665	11	A	G	rs10839264	41	*RP11-347H15.2*	220	downstream	1.649	5	9	15	2.340E-05	4.079E-06	5.678E-01	0.100	-0.014	-0.003
rs58584627	50095379	11	T	G	rs10839264	41	*RP11-227P3.1*	33309	intergenic	4.143	6	9	15	2.844E-05	6.390E-06	5.366E-01	0.099	-0.014	-0.003
rs59210032	50454189	11	C	A	rs10839264	41	*RP11-574M7.2*	72701	intergenic	2.423	5	8	9	9.035E-04	7.357E-04	9.907E-01	-0.073	0.009	0.000
rs59553295	50204538	11	T	C	rs10839264	41	*RP11-347H15.6*	1186	intergenic	2.311	7	9	15	2.809E-05	4.111E-06	5.166E-01	0.100	-0.014	-0.003
rs60059504	50095378	11	A	G	rs10839264	41	*RP11-227P3.1*	33308	intergenic	8.378	6	9	15	2.844E-05	6.293E-06	5.410E-01	0.099	-0.014	-0.003
rs60249225	50571491	11	A	C	rs10839264	41	*RP11-574M7.2*	190003	intergenic	8.445	6	8	15	2.021E-03	2.106E-04	8.860E-01	0.070	-0.010	0.001
rs60352383	50145239	11	G	A	rs10839264	41	*RP11-347H15.1*	0	ncRNA_intronic	0.367	7	5	15	2.658E-05	3.450E-06	5.154E-01	-0.100	0.014	0.003
rs60507532	50097884	11	T	C	rs10839264	41	*RP11-347H15.1*	31442	intergenic	1.843	7	9	15	2.854E-05	5.296E-06	5.568E-01	0.099	-0.014	-0.003
rs61350355	49292311	11	A	G	rs10839264	41	*CTD-2026G22.1*	34954	intergenic	7.754	7	9	15	3.739E-06	1.586E-04	6.123E-01	0.106	-0.012	0.002
rs61439234	50458431	11	A	C	rs10839264	41	*RP11-574M7.2*	76943	intergenic	3.467	6	9	15	9.723E-04	8.139E-04	9.625E-01	0.072	-0.009	0.000
rs7111195	49820053	11	T	C	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	4.164	6	9	15	2.361E-05	1.858E-06	4.829E-01	0.100	-0.014	-0.003
rs7123897	50226083	11	G	T	rs10839264	41	*RP11-347H15.2*	1248	intergenic	9.032	6	9	15	2.621E-05	4.002E-06	5.850E-01	-0.100	0.014	0.003
rs7394648	49882234	11	G	A	rs10839264	41	*RP11-163O19.1*	0	ncRNA_intronic	2.115	7	9	15	1.971E-05	3.290E-06	4.844E-01	-0.101	0.014	0.003
rs7395399	49877338	11	A	C	rs10839264	41	*RP11-163O19.1:RP11-163O19.11*	0	ncRNA_intronic	4.738	6	9	15	2.023E-05	3.328E-06	4.747E-01	0.101	-0.014	-0.003
rs7396773	49877142	11	T	C	rs10839264	41	*RP11-163O19.1:RP11-163O19.11*	0	ncRNA_intronic	4.676	7	9	15	2.302E-05	3.181E-06	4.910E-01	0.100	-0.014	-0.003
rs74337005	50602542	11	A	G	rs10839264	41	*RP11-574M7.2*	221054	intergenic	8.332	6	8	9	8.682E-04	2.423E-04	8.736E-01	0.073	-0.010	0.001
rs74389086	50445985	11	G	A	rs10839264	41	*RP11-574M7.2*	64497	intergenic	8.434	6	8	9	9.332E-04	8.012E-04	9.552E-01	-0.073	0.009	0.000
rs74535204	50443228	11	T	C	rs10839264	41	*RP11-574M7.2*	61740	intergenic	9.308	6	8	9	9.532E-04	8.028E-04	9.641E-01	0.072	-0.009	0.000
rs74707621	50235808	11	T	C	rs10839264	41	*RP11-347H15.2*	7363	intergenic	4.115	7	9	15	2.260E-05	4.122E-06	5.901E-01	0.101	-0.014	-0.003
rs74718536	50565909	11	G	A	rs10839264	41	*RP11-574M7.2*	184421	intergenic	9.197	7	8	9	9.235E-04	4.019E-04	9.744E-01	-0.073	0.010	0.000
rs7478897	49793473	11	G	A	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	1.621	7	9	15	2.329E-05	4.813E-06	4.539E-01	-0.100	0.014	0.004
rs7481692	48638604	11	T	C	rs10839264	41	*OR4A42P*	6051	intergenic	0.767	6	9	15	2.805E-05	6.881E-04	2.506E-01	0.093	-0.010	0.005
rs7481953	49890747	11	G	A	rs10839264	41	*RP11-163O19.10*	2630	intergenic	1.394	7	9	15	2.261E-05	3.062E-06	4.832E-01	-0.101	0.014	0.003
rs7483810	49901741	11	T	C	rs10839264	41	*RP11-163O19.3*	2809	intergenic	2.149	6	9	15	2.238E-05	3.476E-06	4.582E-01	0.101	-0.014	-0.004
rs74890742	50740662	11	T	C	rs10839264	41	*RP11-574M7.2*	359174	intergenic	8.833	7	5	9	1.038E-03	9.690E-04	6.476E-01	0.072	-0.010	0.002
rs75125785	50210189	11	G	T	rs10839264	41	*RP11-347H15.6*	3256	intergenic	3.551	7	9	15	2.306E-05	4.127E-06	5.479E-01	-0.100	0.014	0.003
rs75184905	50159229	11	T	G	rs10839264	41	*RP11-347H15.1*	9616	intergenic	0.037	7	9	15	3.359E-05	3.982E-06	3.592E-01	0.102	-0.014	-0.005
rs75362096	50527947	11	A	G	rs10839264	41	*RP11-574M7.2*	146459	intergenic	8.419	7	8	9	1.151E-03	3.357E-04	9.374E-01	0.072	-0.010	0.000
rs75542032	50569470	11	A	G	rs10839264	41	*RP11-574M7.2*	187982	intergenic	8.657	7	8	9	1.120E-03	2.091E-04	9.613E-01	0.071	-0.010	0.000
rs75609421	50675538	11	G	T	rs10839264	41	*RP11-574M7.2*	294050	intergenic	8.162	5	5	15	1.130E-03	1.626E-03	8.875E-01	-0.071	0.009	-0.001
rs75820798	49350584	11	A	G	rs10839264	41	*CTD-2026G22.1*	0	ncRNA_intronic	1.503	7	7	15	2.580E-06	8.806E-05	4.922E-01	0.108	-0.012	0.003
rs75842377	49868310	11	G	A	rs10839264	41	*RP11-163O19.1*	3870	intergenic	ND	6	9	15	1.813E-05	3.376E-06	4.965E-01	-0.102	0.014	0.003
rs76112576	50105646	11	A	G	rs10839264	41	*RP11-347H15.1*	23680	intergenic	3.704	4	7	15	2.885E-05	8.175E-06	5.097E-01	0.099	-0.013	-0.003
rs76149680	49873637	11	A	G	rs10839264	41	*RP11-163O19.1*	0	ncRNA_intronic	2.673	4	1	15	1.800E-05	3.382E-06	4.940E-01	0.102	-0.014	-0.003
rs76150217	50512195	11	A	G	rs10839264	41	*RP11-574M7.2*	130707	intergenic	0.911	6	8	9	1.302E-03	2.418E-04	7.699E-01	0.070	-0.010	0.001

rs76209387	50625895	11	T	C	rs10839264	41	*RP11-574M7.2*	244407	intergenic	8.376	6	8	15	1.106E-03	4.847E-04	9.661E-01	0.072	-0.010	0.000
rs76214319	49145320	11	C	T	rs10839264	41	*RP11-107P7.5*	0	ncRNA_intronic	6.045	7	9	15	2.984E-05	7.426E-04	2.677E-01	-0.093	0.010	-0.005
rs76218798	49356186	11	C	T	rs10839264	41	*CTD-2026G22.1*	0	ncRNA_intronic	2.829	6	15	15	3.023E-06	8.790E-05	4.442E-01	-0.107	0.012	-0.004
rs76441959	50060875	11	T	C	rs10839264	41	*RP11-227P3.1*	0	ncRNA_intronic	0.025	7	9	15	2.789E-05	5.446E-06	4.786E-01	0.100	-0.014	-0.003
rs76706605	50603620	11	T	C	rs10839264	41	*RP11-574M7.2*	222132	intergenic	8.618	6	8	9	8.219E-04	2.652E-04	8.776E-01	0.073	-0.010	0.001
rs76858341	50123910	11	T	G	rs10839264	41	*RP11-347H15.1*	5416	intergenic	0.961	7	9	15	2.784E-05	3.355E-06	5.444E-01	0.100	-0.014	-0.003
rs76916834	50451489	11	T	C	rs10839264	41	*RP11-574M7.2*	70001	intergenic	ND	7	8	9	8.981E-04	7.485E-04	9.738E-01	0.073	-0.009	0.000
rs77045091	50400975	11	A	G	rs10839264	41	*RP11-574M7.2*	19487	intergenic	3.182	7	9	9	2.768E-05	7.994E-06	6.293E-01	0.100	-0.013	-0.002
rs77111382	49131115	11	A	C	rs10839264	41	*RP11-107P7.2*	1192	intergenic	ND	7	9	15	2.927E-05	8.301E-04	2.666E-01	0.093	-0.010	0.005
rs77119464	50588161	11	T	C	rs10839264	41	*RP11-574M7.2*	206673	intergenic	8.905	6	8	9	1.266E-03	4.579E-04	8.637E-01	0.071	-0.010	0.001
rs77359854	50439878	11	A	G	rs10839264	41	*RP11-574M7.2*	58390	intergenic	ND	7	8	9	9.578E-04	8.145E-04	9.723E-01	0.072	-0.009	0.000
rs77501616	50528085	11	T	G	rs10839264	41	*RP11-574M7.2*	146597	intergenic	ND	7	8	9	1.711E-03	6.692E-04	7.991E-01	0.084	-0.010	0.001
rs77593101	50459100	11	A	G	rs10839264	41	*RP11-574M7.2*	77612	intergenic	9.621	6	9	9	8.163E-04	7.929E-04	9.686E-01	0.074	-0.009	0.000
rs77622929	50634946	11	A	G	rs10839264	41	*RP11-574M7.2*	253458	intergenic	8.948	7	8	9	9.921E-04	4.140E-04	8.922E-01	0.072	-0.010	0.001
rs77681640	50388542	11	T	C	rs10839264	41	*RP11-574M7.2*	7054	intergenic	6.793	7	8	9	2.759E-05	3.779E-06	6.074E-01	0.100	-0.014	-0.002
rs77698817	50451213	11	T	C	rs10839264	41	*RP11-574M7.2*	69725	intergenic	2.561	6	8	9	9.002E-04	3.351E-04	9.963E-01	0.073	-0.010	0.000
rs77969565	50635107	11	C	T	rs10839264	41	*RP11-574M7.2*	253619	intergenic	8.246	7	8	9	1.060E-03	5.001E-04	9.578E-01	-0.072	0.010	0.000
rs78017112	50178800	11	A	G	rs10839264	41	*RP11-347H15.6*	26924	intergenic	0.508	7	9	15	2.709E-05	3.015E-06	5.349E-01	0.100	-0.014	-0.003
rs78050365	50516186	11	A	C	rs10839264	41	*RP11-574M7.2*	134698	intergenic	ND	7	8	9	1.307E-03	1.670E-04	7.876E-01	0.070	-0.010	0.001
rs78087935	50495971	11	A	G	rs10839264	41	*RP11-574M7.2*	114483	intergenic	9.251	6	9	9	1.063E-03	8.663E-05	8.122E-01	0.072	-0.011	0.001
rs78161666	50452778	11	T	C	rs10839264	41	*RP11-574M7.2*	71290	intergenic	2.724	7	8	9	9.039E-04	8.173E-04	9.794E-01	0.073	-0.009	0.000
rs78169612	50526274	11	T	C	rs10839264	41	*RP11-574M7.2*	144786	intergenic	9.089	7	1	9	1.288E-03	6.728E-05	8.827E-01	0.070	-0.011	0.001
rs78259246	50481286	11	A	G	rs10839264	41	*RP11-574M7.2*	99798	intergenic	8.442	7	8	9	1.211E-03	3.968E-04	7.264E-01	0.071	-0.010	0.002
rs78384313	50732298	11	A	G	rs10839264	41	*RP11-574M7.2*	350810	intergenic	9.018	7	5	9	1.056E-03	4.137E-03	6.964E-01	0.072	-0.008	0.002
rs78487553	50436305	11	G	T	rs10839264	41	*RP11-574M7.2*	54817	intergenic	ND	7	8	15	8.852E-04	8.152E-04	9.296E-01	-0.073	0.009	0.000
rs78554927	50518238	11	T	G	rs10839264	41	*RP11-574M7.2*	136750	intergenic	4.027	7	9	9	1.010E-03	1.353E-04	8.745E-01	0.072	-0.011	0.001
rs78776718	48980827	11	G	A	rs10839264	41	*RP11-56P9.8*	652	upstream	0.591	6	9	15	2.091E-05	6.223E-03	2.922E-01	-0.094	0.009	-0.005
rs78906621	50632711	11	G	A	rs10839264	41	*RP11-574M7.2*	251223	intergenic	ND	5	8	9	9.969E-04	4.872E-04	9.892E-01	-0.072	0.010	0.000
rs79149371	50609475	11	G	A	rs10839264	41	*RP11-574M7.2*	227987	intergenic	9.221	7	9	15	7.066E-04	7.976E-04	9.021E-01	-0.090	0.010	-0.001
rs79158058	50622279	11	G	A	rs10839264	41	*RP11-574M7.2*	240791	intergenic	ND	6	8	9	1.262E-03	4.545E-04	8.533E-01	-0.071	0.010	-0.001
rs79189796	50123506	11	A	G	rs10839264	41	*RP11-347H15.1*	5820	intergenic	2.024	7	9	9	2.270E-05	3.350E-06	7.157E-01	0.101	-0.014	-0.002
rs7927426	50267921	11	G	A	rs10839264	41	*RP11-574M7.1*	0	ncRNA_intronic	6.208	6	5	15	1.719E-05	3.960E-06	5.082E-01	-0.102	0.014	0.003
rs7929543	49351026	11	C	A	rs10839264	41	*CTD-2026G22.1*	0	ncRNA_intronic	1.526	5	7	15	2.969E-06	8.722E-05	3.929E-01	-0.107	0.012	-0.004
rs7932872	50442313	11	G	A	rs10839264	41	*RP11-574M7.2*	60825	intergenic	ND	6	8	9	9.504E-04	8.033E-04	9.852E-01	-0.073	0.009	0.000
rs79349030	50742657	11	A	C	rs10839264	41	*RP11-574M7.2*	361169	intergenic	8.679	7	8	9	1.685E-03	4.816E-04	6.191E-01	0.069	-0.010	0.002
rs7937342	49733184	11	T	G	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	0.577	6	9	15	1.528E-05	1.319E-06	7.806E-02	0.102	-0.014	-0.016
rs7939338	49768578	11	T	C	rs10839264	41	*RP11-707M1.1*	0	ncRNA_intronic	1.182	7	9	15	1.992E-05	3.977E-06	4.634E-01	0.101	-0.014	-0.004
rs7943883	50443909	11	C	T	rs10839264	41	*RP11-574M7.2*	62421	intergenic	8.701	7	8	9	7.762E-04	2.812E-04	9.405E-01	-0.074	0.010	0.000
rs79761462	50510412	11	T	G	rs10839264	41	*RP11-574M7.2*	128924	intergenic	7.148	7	9	9	1.242E-03	2.464E-04	7.615E-01	0.071	-0.010	0.001
rs80099373	50249733	11	G	A	rs10839264	41	*RP11-347H15.5*	0	ncRNA_intronic	ND	6	5	15	1.769E-05	3.654E-06	4.904E-01	-0.102	0.014	0.003
rs80273328	50168918	11	T	C	rs10839264	41	*RP11-347H15.1*	19305	intergenic	3.042	7	9	15	2.622E-05	3.767E-06	5.224E-01	0.100	-0.014	-0.003
rs80307592	50055194	11	A	G	rs10839264	41	*RP11-227P3.1*	4868	intergenic	1.185	7	7	15	6.182E-05	3.684E-05	5.289E-01	0.095	-0.012	-0.003
rs8181488	50354018	11	T	C	rs10839264	41	*RP11-574M7.2*	14194	intergenic	8.534	7	8	9	2.485E-05	3.133E-06	5.973E-01	0.100	-0.014	-0.003
rs8186211	50542195	11	G	A	rs10839264	41	*RP11-574M7.2*	160707	intergenic	7.732	7	8	9	1.179E-03	1.223E-04	9.212E-01	-0.071	0.011	0.000
rs8186244	50771344	11	G	A	rs10839264	41	-	-	intergenic	ND	ND	ND	ND	1.705E-03	2.489E-03	5.126E-01	-0.069	0.009	-0.003
rs8186363	50563530	11	A	G	rs10839264	41	*RP11-574M7.2*	182042	intergenic	7.972	7	5	9	1.204E-03	1.411E-04	9.419E-01	0.071	-0.011	0.000
rs8186533	50567337	11	G	A	rs10839264	41	*RP11-574M7.2*	185849	intergenic	9.077	6	8	9	1.100E-03	1.477E-04	9.698E-01	-0.071	0.011	0.000
rs8189152	50569280	11	A	G	rs10839264	41	*RP11-574M7.2*	187792	intergenic	9.337	6	8	9	1.033E-03	2.062E-04	9.663E-01	0.072	-0.010	0.000
rs8189220	50577174	11	G	T	rs10839264	41	*RP11-574M7.2*	195686	intergenic	9.692	6	8	9	2.204E-03	2.977E-04	9.490E-01	-0.067	0.010	0.000
rs8189254	50564592	11	T	G	rs10839264	41	*RP11-574M7.2*	183104	intergenic	ND	7	1	9	1.196E-03	1.993E-04	9.999E-01	0.071	-0.010	0.000
rs833211	50372745	11	T	C	rs10839264	41	*RP11-574M7.2*	0	ncRNA_intronic	7.683	ND	9	9	2.483E-05	6.611E-06	5.716E-01	0.100	-0.013	-0.003
rs869194	50064519	11	T	C	rs10839264	41	*RP11-227P3.1*	2449	intergenic	2.319	6	9	15	2.976E-05	8.087E-06	5.132E-01	0.099	-0.014	-0.003
rs9634035	50212419	11	G	A	rs10839264	41	*RP11-347H15.6*	5486	intergenic	7.537	7	9	15	2.765E-05	4.195E-06	5.383E-01	-0.099	0.014	0.003
rs9787867	50268429	11	G	A	rs10839264	41	*RP11-574M7.1*	0	ncRNA_intronic	0.147	6	5	15	2.142E-05	2.974E-06	5.338E-01	-0.101	0.014	0.003
rs10897173	61481867	11	T	C	rs1791794	42	*DAGLA*	0	intronic	1.214	5	4	15	1.090E-05	3.371E-03	9.410E-01	0.072	-0.006	0.000
rs11230779	61449533	11	G	A	rs1791794	42	*DAGLA*	0	intronic	3.753	4	2	7	5.656E-06	3.819E-04	5.205E-01	-0.070	0.007	0.002
rs1791785	61442813	11	T	C	rs1791794	42	*DAGLA*	5091	intergenic	6.992	4	4	14	9.432E-06	4.619E-05	8.049E-01	0.068	-0.008	-0.001
rs1791794	61437088	11	G	A	rs1791794	42	*DAGLA*	10816	intergenic	6.044	4	2	14	2.445E-06	4.776E-05	5.213E-02	-0.069	0.007	0.006
rs198416	61496682	11	G	A	rs1791794	42	*DAGLA*	0	intronic	1.547	ND	1	5	2.064E-05	1.657E-03	7.896E-01	-0.065	0.006	-0.001
rs198417	61496657	11	T	C	rs1791794	42	*DAGLA*	0	intronic	9.136	ND	1	5	1.872E-05	1.771E-03	7.740E-01	0.065	-0.006	0.001
rs198418	61496272	11	C	A	rs1791794	42	*DAGLA*	0	intronic	1.338	ND	2	5	1.973E-05	1.564E-03	7.464E-01	-0.065	0.006	-0.001
rs198427	61489933	11	A	G	rs1791794	42	*DAGLA*	0	intronic	1.513	6	4	5	2.204E-05	1.679E-03	7.631E-01	0.065	-0.006	0.001
rs198429	61488841	11	A	G	rs1791794	42	*DAGLA*	0	intronic	9.785	ND	4	5	2.136E-05	1.799E-03	7.944E-01	0.065	-0.006	0.001
rs198430	61487690	11	A	G	rs1791794	42	*DAGLA*	0	exonic	13.65	ND	4	5	2.006E-05	1.945E-03	7.419E-01	0.065	-0.006	0.001
rs198432	61484981	11	A	C	rs1791794	42	*DAGLA*	0	intronic	ND	ND	5	7	1.027E-05	7.557E-04	8.541E-01	0.067	-0.007	-0.001
rs198438	61476450	11	A	G	rs1791794	42	*DAGLA*	0	intronic	2.703	ND	4	15	6.536E-06	1.272E-03	5.809E-01	0.069	-0.006	-0.002
rs198440	61508522	11	G	A	rs1791794	42	*DAGLA*	0	intronic	1.855	ND	4	4	2.871E-05	7.153E-05	8.401E-01	-0.063	0.007	-0.001
rs198446	61503381	11	A	G	rs1791794	42	*DAGLA*	0	intronic	0.41	ND	4	4	4.585E-05	9.882E-04	8.786E-01	0.065	-0.007	0.000

rs198450	61469473	11	C	T	rs1791794	42	*DAGLA*	0	intronic	ND	ND	2	5	2.020E-05	4.446E-05	1.889E-01	-0.061	0.007	0.004
rs198453	61464550	11	T	C	rs1791794	42	*DAGLA*	0	intronic	9.689	ND	2	7	5.200E-06	1.128E-03	6.160E-01	0.070	-0.006	-0.002
rs3018177	61481234	11	A	G	rs1791794	42	*DAGLA*	0	intronic	2.546	ND	4	15	1.203E-05	3.170E-03	9.588E-01	0.068	-0.006	0.000
rs4963304	61446352	11	A	G	rs1791794	42	*DAGLA*	1552	intergenic	8.205	4	5	14	4.218E-05	1.040E-05	1.419E-01	0.058	-0.008	-0.004
rs57295447	61485769	11	A	G	rs1791794	42	*DAGLA*	0	intronic	0.157	2b	1	2	1.059E-05	7.027E-04	7.393E-01	0.067	-0.007	-0.001
rs61896068	61513400	11	A	G	rs1791794	42	*DAGLA*	0	UTR3	2.335	5	4	5	2.865E-06	5.880E-03	8.209E-01	0.075	-0.005	0.001
rs61898513	61439097	11	A	G	rs1791794	42	*DAGLA*	8807	intergenic	0.219	2b	2	14	8.221E-06	5.144E-05	7.362E-01	0.069	-0.008	-0.001
rs61898525	61453604	11	A	G	rs1791794	42	*DAGLA*	0	intronic	3.874	5	4	5	5.069E-06	8.459E-04	5.277E-01	0.071	-0.006	-0.002
rs81658	61487944	11	A	G	rs1791794	42	*DAGLA*	0	intronic	2.077	5	4	5	2.130E-05	1.666E-03	7.130E-01	0.065	-0.006	0.001
rs81659	61467052	11	A	G	rs1791794	42	*DAGLA*	0	intronic	2.786	ND	2	7	4.011E-05	8.218E-05	1.355E-01	0.058	-0.007	-0.004
rs879486	61475233	11	T	C	rs1791794	42	*DAGLA*	0	intronic	0.415	5	5	15	3.882E-05	9.128E-05	1.767E-01	0.059	-0.007	-0.004
rs1049986	50158544	12	G	A	rs7953911	43	*TMBIM6*	0	UTR3	ND	7	4	4	7.604E-04	3.949E-05	1.242E-02	0.080	-0.012	-0.011
rs10875964	50080910	12	C	T	rs7953911	43	*FMNL3*	0	intronic	ND	5	4	5	7.520E-04	6.872E-05	1.205E-02	0.080	-0.011	-0.011
rs10875968	50151430	12	G	A	rs7953911	43	*TMBIM6*	0	intronic	ND	3a	4	4	7.176E-03	7.488E-03	9.273E-02	0.058	-0.007	-0.007
rs11169065	49939645	12	C	T	rs7953911	43	*KCNH3*	0	intronic	ND	5	5	13	2.461E-05	1.797E-04	4.445E-02	0.096	-0.010	-0.008
rs11169069	49966534	12	C	T	rs7953911	43	*PRPF40B*	0	intronic	0.399	7	4	5	1.318E-05	8.818E-05	3.157E-02	0.100	-0.011	-0.009
rs11169070	49966803	12	G	A	rs7953911	43	*PRPF40B*	0	intronic	ND	5	4	5	2.492E-05	6.998E-05	4.118E-02	0.096	-0.011	-0.009
rs11169073	49968426	12	C	T	rs7953911	43	*PRPF40B*	0	intronic	ND	6	4	5	2.232E-05	9.716E-05	4.258E-02	0.096	-0.011	-0.009
rs11169076	49975408	12	T	G	rs7953911	43	*PRPF40B*	0	intronic	1.377	5	2	5	2.703E-05	1.005E-04	5.432E-02	-0.095	0.011	0.008
rs11169080	49980141	12	C	A	rs7953911	43	*PRPF40B:FAM186B*	0	intronic	0.544	5	2	5	4.809E-04	1.170E-02	2.331E-01	0.072	-0.006	-0.005
rs11169081	49985210	12	A	G	rs7953911	43	*PRPF40B:FAM186B*	0	intronic	3.395	5	4	5	2.924E-05	1.044E-04	4.755E-02	-0.095	0.011	0.008
rs11169082	49985408	12	A	G	rs7953911	43	*PRPF40B:FAM186B*	0	intronic	6.333	3a	4	5	1.780E-05	7.246E-05	3.311E-02	-0.098	0.011	0.009
rs11169097	50052596	12	C	A	rs7953911	43	*FMNL3*	0	intronic	ND	5	4	4	8.192E-04	7.082E-05	1.241E-02	0.080	-0.011	-0.011
rs11169101	50068809	12	T	C	rs7953911	43	*FMNL3*	0	intronic	4.064	5	2	7	5.562E-03	1.487E-02	1.286E-01	-0.060	0.006	0.006
rs11169104	50076287	12	C	T	rs7953911	43	*FMNL3*	0	intronic	8.478	7	5	15	6.588E-04	1.694E-04	2.251E-02	0.081	-0.011	-0.010
rs11169106	50078567	12	C	T	rs7953911	43	*FMNL3*	0	intronic	ND	4	5	7	7.579E-04	6.952E-05	1.287E-02	0.080	-0.011	-0.011
rs11169112	50093941	12	T	C	rs7953911	43	*FMNL3*	0	intronic	0.592	6	2	5	4.116E-04	1.280E-04	1.720E-02	-0.087	0.011	0.011
rs11169113	50093947	12	G	A	rs7953911	43	*FMNL3*	0	intronic	0.966	6	2	5	4.122E-04	1.162E-04	1.618E-02	0.087	-0.011	-0.011
rs11169118	50102535	12	T	C	rs7953911	43	*TMBIM6*	0	intronic	3.826	6	5	14	7.331E-04	2.172E-04	1.109E-02	-0.080	0.011	0.011
rs11169125	50115404	12	G	T	rs7953911	43	*TMBIM6*	0	intronic	1.875	7	14	15	8.297E-04	7.099E-05	9.886E-03	0.079	-0.011	-0.011
rs11169127	50120901	12	C	A	rs7953911	43	*TMBIM6*	0	intronic	0.327	6	14	15	4.757E-04	4.698E-05	1.234E-02	0.083	-0.012	-0.011
rs11169133	50126058	12	C	T	rs7953911	43	*TMBIM6*	0	intronic	0.768	7	5	15	7.018E-04	5.934E-05	1.131E-02	0.081	-0.012	-0.011
rs11169140	50141447	12	G	A	rs7953911	43	*TMBIM6*	0	intronic	0.587	6	4	5	6.769E-03	5.685E-03	1.119E-01	0.058	-0.007	-0.006
rs11169143	50147550	12	T	C	rs7953911	43	*TMBIM6*	0	intronic	3.834	5	3	4	2.338E-02	**4.481E-08**	1.801E-03	-0.062	0.018	0.016
rs112536786	50076135	12	A	G	rs7953911	43	*FMNL3*	0	intronic	2.667	7	5	15	1.077E-03	8.252E-05	1.310E-03	-0.084	0.012	0.016
rs112980428	50161993	12	T	C	rs7953911	43	*LSM6P2*	2749	intergenic	2.636	5	5	5	6.406E-04	3.081E-01	ND	-0.086	0.024	ND
rs113605702	50095636	12	A	G	rs7953911	43	*FMNL3*	0	intronic	1.547	7	2	5	1.178E-03	1.221E-05	4.412E-04	-0.083	0.014	0.017
rs113680356	50006260	12	C	T	rs7953911	43	*PRPF40B*	0	intronic	0.495	4	5	15	4.588E-04	1.531E-05	2.932E-04	0.087	-0.013	-0.017
rs113903668	50001508	12	G	A	rs7953911	43	*PRPF40B*	0	intronic	0.612	7	5	15	4.130E-04	3.658E-05	2.546E-04	0.087	-0.013	-0.018
rs11833411	50000387	12	C	T	rs7953911	43	*PRPF40B*	0	intronic	0.19	6	5	15	3.417E-04	1.371E-04	1.226E-02	0.083	-0.011	-0.011
rs11834380	50080878	12	A	C	rs7953911	43	*FMNL3*	0	intronic	1.295	5	4	5	7.444E-04	8.702E-05	3.055E-02	-0.080	0.012	0.010
rs12296586	50140682	12	G	A	rs7953911	43	*TMBIM6*	0	intronic	0.555	7	3	5	7.118E-04	2.823E-05	1.002E-02	0.080	-0.012	-0.011
rs12299505	50019894	12	C	T	rs7953911	43	*PRPF40B*	0	intronic	4.153	4	5	5	4.097E-04	7.989E-05	1.111E-02	0.083	-0.011	-0.011
rs12299513	50019967	12	G	T	rs7953911	43	*PRPF40B*	0	intronic	1.414	3a	5	5	2.737E-04	5.893E-05	5.070E-03	0.087	-0.012	-0.012
rs12304796	50123466	12	G	T	rs7953911	43	*TMBIM6*	0	intronic	5.142	5	14	15	6.996E-04	7.498E-05	9.793E-03	0.081	-0.011	-0.011
rs12306481	50124076	12	C	T	rs7953911	43	*TMBIM6*	0	intronic	0.945	5	7	15	2.646E-02	1.704E-07	1.402E-03	0.061	-0.017	-0.017
rs12308256	50161746	12	G	A	rs7953911	43	*LSM6P2*	2996	intergenic	0.154	6	5	5	6.375E-04	6.036E-05	5.391E-03	0.085	-0.012	-0.012
rs12309940	50080339	12	T	C	rs7953911	43	*FMNL3*	0	intronic	ND	7	5	5	5.393E-04	4.322E-05	9.517E-03	-0.083	0.012	0.012
rs12310510	50066244	12	C	T	rs7953911	43	*FMNL3*	0	intronic	7.316	2b	2	7	5.197E-04	1.001E-04	1.426E-02	0.082	-0.011	-0.011
rs12311839	49963405	12	G	A	rs7953911	43	*PRPF40B*	0	intronic	13.55	6	1	5	1.723E-05	6.856E-05	2.855E-02	0.098	-0.011	-0.009
rs12314795	50147864	12	A	G	rs7953911	43	*TMBIM6*	0	intronic	5.383	3a	3	4	7.174E-04	4.197E-05	1.279E-02	-0.080	0.012	0.011
rs12314878	49942208	12	A	G	rs7953911	43	*KCNH3*	0	intronic	7.634	5	2	13	2.371E-05	5.715E-05	1.597E-02	-0.096	0.011	0.010
rs12315224	50109517	12	C	T	rs7953911	43	*TMBIM6*	0	intronic	2.173	7	5	14	7.216E-04	6.227E-05	9.672E-03	0.080	-0.012	-0.011
rs12315791	50083547	12	T	C	rs7953911	43	*FMNL3*	0	intronic	4.333	3a	2	15	4.427E-04	5.035E-05	8.402E-03	-0.085	0.012	0.012
rs12316284	50158866	12	A	G	rs7953911	43	*TMBIM6*	148	downstream	2.275	5	4	4	6.596E-04	3.306E-05	1.176E-02	-0.081	0.012	0.011
rs12317646	50084470	12	T	C	rs7953911	43	*FMNL3*	0	intronic	3.008	5	2	5	7.443E-04	6.793E-05	1.303E-02	-0.080	0.011	0.011
rs12317778	50105637	12	C	T	rs7953911	43	*TMBIM6*	0	intronic	8.954	5	5	14	8.348E-03	3.239E-07	1.640E-02	0.069	-0.016	-0.012
rs12320556	49973011	12	G	A	rs7953911	43	*PRPF40B*	0	intronic	2.467	6	4	5	2.135E-05	8.492E-05	2.707E-02	0.097	-0.011	-0.010
rs12321819	49941997	12	C	T	rs7953911	43	*KCNH3*	0	intronic	1.401	5	5	13	2.545E-05	8.722E-05	2.218E-02	0.096	-0.011	-0.010
rs13066	49960551	12	A	C	rs7953911	43	*MCRS1*	0	UTR5	ND	ND	1	7	2.398E-05	8.310E-05	4.069E-02	-0.096	0.011	0.009
rs13906	49952394	12	T	C	rs7953911	43	*MCRS1*	0	UTR3	3.156	ND	4	4	4.541E-04	7.163E-05	4.538E-02	-0.078	0.011	0.009
rs142219257	50131157	12	A	G	rs7953911	43	*TMBIM6*	0	intronic	3.134	6	5	15	2.080E-02	1.315E-07	1.767E-03	-0.063	0.018	0.016

rs143098885	50116651	12	A	G	rs7953911	43	*TMBIM6*	0	intronic	2.706	6	14	15	4.873E-04	5.134E-05	6.441E-03	-0.084	0.012	0.012
rs1574326	50090543	12	C	T	rs7953911	43	*FMNL3*	0	intronic	9.573	5	5	5	7.683E-04	8.346E-05	1.314E-02	0.080	-0.011	-0.011
rs17123764	49947952	12	T	C	rs7953911	43	*KCNH3*	0	intronic	0.515	5	5	5	5.723E-03	**2.215E-08**	1.399E-03	-0.074	0.018	0.017
rs17123808	49979413	12	T	C	rs7953911	43	*PRPF40B:FAM186B*	0	intronic	ND	5	4	5	2.825E-05	1.093E-04	4.582E-02	-0.095	0.011	0.008
rs1902329	49939836	12	C	T	rs7953911	43	*KCNH3*	0	intronic	3.981	5	5	13	2.175E-05	1.266E-04	2.450E-02	0.097	-0.011	-0.010
rs1902330	49939953	12	A	G	rs7953911	43	*KCNH3*	0	intronic	6.181	5	5	13	2.000E-05	8.511E-05	2.283E-02	-0.098	0.011	0.010
rs2005195	49983479	12	G	A	rs7953911	43	*PRPF40B:FAM186B*	0	intronic	2.106	ND	5	5	2.929E-05	1.029E-04	4.369E-02	0.095	-0.011	-0.009
rs2241418	49951232	12	C	T	rs7953911	43	*KCNH3:MCRS1*	0	exonic	0.001	ND	3	4	2.262E-05	3.587E-05	4.634E-02	0.096	-0.011	-0.009
rs2278068	49944588	12	C	T	rs7953911	43	*KCNH3*	0	intronic	1.196	ND	2	14	1.618E-05	3.362E-05	3.363E-02	0.099	-0.012	-0.009
rs2278069	49944508	12	G	A	rs7953911	43	*KCNH3*	0	intronic	1.631	5	2	14	1.596E-05	3.640E-05	3.444E-02	0.099	-0.012	-0.009
rs2278070	49943840	12	T	C	rs7953911	43	*KCNH3*	0	intronic	3.669	ND	5	13	4.414E-04	7.955E-06	3.475E-04	-0.087	0.014	0.017
rs2303305	49952668	12	A	G	rs7953911	43	*MCRS1*	0	exonic	6.968	ND	4	4	5.584E-04	1.545E-05	3.933E-04	-0.086	0.013	0.017
rs3815832	49948105	12	G	A	rs7953911	43	*KCNH3*	0	intronic	8.856	ND	5	5	2.069E-05	3.861E-05	4.164E-02	0.097	-0.011	-0.009
rs3887727	49972425	12	C	T	rs7953911	43	*PRPF40B*	0	intronic	1.769	4	4	5	4.371E-04	1.131E-02	2.485E-01	0.073	-0.007	-0.005
rs3887728	49972332	12	A	G	rs7953911	43	*PRPF40B*	0	intronic	8.368	ND	4	5	1.908E-05	7.052E-05	3.302E-02	-0.098	0.011	0.009
rs4045193	50003980	12	C	T	rs7953911	43	*PRPF40B*	0	intronic	1.687	5	5	15	3.439E-04	7.166E-05	1.029E-02	0.083	-0.011	-0.011
rs4133070	50078124	12	G	A	rs7953911	43	*FMNL3*	0	intronic	2.903	ND	5	7	7.621E-04	2.755E-04	2.741E-02	0.080	-0.010	-0.010
rs4563	50152193	12	A	G	rs7953911	43	*TMBIM6*	0	exonic	ND	7	4	4	8.350E-04	3.902E-05	1.386E-02	-0.079	0.012	0.011
rs4584654	50103546	12	T	C	rs7953911	43	*TMBIM6*	0	intronic	5.324	5	5	14	7.336E-04	2.126E-04	1.167E-02	-0.080	0.011	0.011
rs4641552	50047182	12	A	C	rs7953911	43	*FMNL3*	0	intronic	6.701	5	4	4	1.204E-02	**1.360E-08**	1.443E-03	-0.069	0.019	0.017
rs52824916	49993678	12	T	C	rs7953911	43	*PRPF40B:FAM186B*	0	exonic	13.33	5	4	15	4.049E-04	2.375E-05	3.447E-04	-0.088	0.013	0.017
rs55637397	50014181	12	A	G	rs7953911	43	*PRPF40B*	0	intronic	1.489	7	5	14	6.447E-03	**3.899E-08**	9.711E-04	-0.073	0.018	0.018
rs55812050	50088540	12	A	C	rs7953911	43	*FMNL3*	0	intronic	2.317	7	5	5	7.366E-04	7.653E-05	1.187E-02	-0.080	0.011	0.011
rs55853522	49949167	12	G	T	rs7953911	43	*KCNH3*	0	intronic	1.425	7	4	5	1.806E-05	3.348E-05	2.806E-02	0.098	-0.012	-0.009
rs56743994	49950408	12	A	G	rs7953911	43	*KCNH3:MCRS1*	0	UTR3	1.329	4	3	4	6.192E-03	**2.134E-08**	1.032E-03	-0.074	0.018	0.017
rs57191490	50064889	12	A	G	rs7953911	43	*FMNL3*	0	intronic	14.72	2b	2	7	8.615E-04	3.842E-05	3.400E-04	-0.085	0.013	0.017
rs57342147	50129422	12	G	A	rs7953911	43	*TMBIM6*	0	intronic	0.28	6	5	15	7.032E-04	4.402E-05	9.074E-03	0.081	-0.012	-0.012
rs57463238	50163074	12	A	G	rs7953911	43	*LSM6P2*	1668	intergenic	1.906	7	5	15	9.697E-04	9.719E-05	1.364E-02	-0.090	0.011	0.011
rs57916875	49989336	12	A	G	rs7953911	43	*PRPF40B:FAM186B:RP11-133N21.7*	0	ncRNA_exonic	ND	5	5	15	4.119E-04	2.914E-05	3.330E-04	-0.087	0.013	0.017
rs57965817	49957103	12	G	A	rs7953911	43	*MCRS1*	0	intronic	1.482	6	4	4	3.997E-04	1.275E-02	2.088E-01	0.073	-0.006	-0.005
rs58278271	50017975	12	A	G	rs7953911	43	*PRPF40B*	0	intronic	ND	5	1	2	6.780E-04	7.822E-06	3.073E-04	-0.086	0.014	0.018
rs58446833	50116733	12	C	T	rs7953911	43	*TMBIM6*	0	intronic	3.783	5	14	15	8.264E-04	6.991E-05	9.037E-03	0.080	-0.011	-0.012
rs59261129	49951377	12	T	C	rs7953911	43	*KCNH3:MCRS1*	0	exonic	ND	2b	3	4	6.205E-03	**2.018E-08**	1.227E-03	-0.074	0.018	0.017
rs59849800	50116773	12	T	C	rs7953911	43	*TMBIM6*	0	intronic	ND	5	14	15	1.207E-03	7.310E-05	9.938E-03	-0.077	0.011	0.011
rs59940006	49972902	12	C	T	rs7953911	43	*PRPF40B*	0	intronic	0.23	5	4	5	2.708E-05	1.069E-04	3.729E-02	0.095	-0.011	-0.009
rs60402517	50098471	12	G	A	rs7953911	43	*FMNL3*	0	intronic	2.535	5	1	7	7.410E-04	1.556E-04	1.216E-02	0.080	-0.011	-0.011
rs61512987	50043884	12	T	C	rs7953911	43	*FMNL3*	0	intronic	5.052	4	4	4	5.376E-03	9.864E-03	1.080E-01	-0.060	0.007	0.007
rs61616163	50083100	12	T	C	rs7953911	43	*FMNL3*	0	intronic	6.796	5	2	5	7.769E-03	8.021E-03	1.001E-01	-0.057	0.007	0.007
rs61620972	50098232	12	A	G	rs7953911	43	*FMNL3*	0	intronic	ND	7	1	7	4.369E-04	1.088E-04	6.881E-03	-0.085	0.011	0.012
rs61710637	50087680	12	C	T	rs7953911	43	*FMNL3*	0	intronic	1.154	7	5	5	7.378E-04	6.750E-05	1.317E-02	0.080	-0.011	-0.011
rs6580719	50071092	12	A	C	rs7953911	43	*FMNL3*	0	intronic	ND	7	5	15	6.404E-04	1.505E-04	2.443E-02	-0.082	0.011	0.010
rs7137976	50099067	12	G	A	rs7953911	43	*FMNL3*	0	intronic	1.894	2b	1	7	7.404E-04	1.579E-04	1.009E-02	0.080	-0.011	-0.011
rs7296281	49964558	12	G	A	rs7953911	43	*PRPF40B*	0	intronic	0.751	7	4	5	2.471E-05	9.564E-05	4.196E-02	0.096	-0.011	-0.009
rs7299002	50095459	12	T	C	rs7953911	43	*FMNL3*	0	intronic	1.308	7	2	5	5.088E-04	1.412E-04	7.881E-03	-0.084	0.011	0.012
rs7299609	50024926	12	T	C	rs7953911	43	*PRPF40B*	0	intronic	0.886	5	4	5	4.915E-02	2.147E-02	1.434E-01	-0.041	0.006	0.006
rs7301209	49946051	12	C	T	rs7953911	43	*KCNH3*	0	intronic	0.173	4	2	7	1.776E-05	3.533E-05	3.701E-02	0.098	-0.012	-0.009
rs7306877	50001705	12	G	A	rs7953911	43	*PRPF40B*	0	intronic	6.143	7	5	15	3.625E-03	1.056E-02	9.753E-02	0.061	-0.007	-0.007
rs7309607	50106606	12	G	T	rs7953911	43	*TMBIM6*	0	intronic	0.088	5	5	14	7.755E-03	9.550E-03	7.901E-02	0.057	-0.007	-0.007
rs7312658	50112677	12	C	T	rs7953911	43	*TMBIM6*	0	intronic	0.477	5	5	14	7.252E-03	9.663E-03	8.852E-02	0.058	-0.007	-0.007
rs73305008	49958911	12	A	G	rs7953911	43	*MCRS1*	0	intronic	0.199	4	2	4	1.664E-05	6.561E-05	3.007E-02	-0.099	0.011	0.009
rs73305012	49962637	12	C	A	rs7953911	43	*PRPF40B*	0	intronic	1.528	4	1	1	1.616E-05	6.755E-05	2.770E-02	0.099	-0.011	-0.010
rs73305085	50056233	12	A	G	rs7953911	43	*FMNL3*	0	intronic	0.995	5	2	7	4.633E-04	1.649E-04	1.107E-02	-0.084	0.011	0.011
rs73305098	50072997	12	A	G	rs7953911	43	*FMNL3*	0	intronic	7.765	6	5	15	4.253E-04	1.574E-04	1.662E-02	-0.085	0.011	0.011
rs73306808	50078632	12	T	G	rs7953911	43	*FMNL3*	0	intronic	6.253	4	5	7	7.574E-04	6.562E-05	1.180E-02	-0.080	0.011	0.011
rs73309030	50162023	12	C	T	rs7953911	43	*LSM6P2*	2719	intergenic	ND	5	5	5	6.387E-04	7.267E-05	7.122E-03	0.086	-0.011	-0.012
rs74086911	50015942	12	A	G	rs7953911	43	*PRPF40B*	0	intronic	5.726	3a	1	7	6.549E-03	9.503E-08	1.189E-03	-0.073	0.018	0.017
rs74087188	50149544	12	C	T	rs7953911	43	*TMBIM6*	0	intronic	1.528	7	4	4	6.905E-03	1.737E-07	1.617E-02	0.070	-0.016	-0.012
rs74089182	50063768	12	A	G	rs7953911	43	*FMNL3*	0	intronic	0.221	3a	2	5	7.751E-04	9.016E-05	5.468E-04	-0.086	0.012	0.017
rs74089566	49956575	12	C	T	rs7953911	43	*MCRS1*	0	intronic	ND	5	4	4	6.485E-03	**3.221E-08**	1.292E-03	0.073	-0.018	-0.017
rs74089573	49976074	12	T	C	rs7953911	43	*PRPF40B*	0	intronic	9.321	5	2	5	6.187E-03	7.945E-08	1.147E-03	-0.074	0.018	0.017
rs7487779	50150079	12	T	C	rs7953911	43	*TMBIM6*	0	intronic	1.448	7	4	4	1.933E-02	**4.560E-08**	1.721E-03	-0.064	0.018	0.016
rs7487854	50150266	12	T	G	rs7953911	43	*TMBIM6*	0	intronic	1.001	7	4	4	2.126E-02	1.293E-07	1.584E-03	-0.063	0.018	0.016
rs75222486	50009762	12	G	T	rs7953911	43	*PRPF40B*	0	intronic	ND	2b	5	15	4.936E-04	1.586E-05	2.952E-04	0.086	-0.013	-0.017
rs75278574	50000945	12	T	C	rs7953911	43	*PRPF40B*	0	intronic	ND	6	5	15	5.507E-03	9.553E-08	1.140E-03	-0.075	0.018	0.017
rs7688	50157071	12	C	T	rs7953911	43	*TMBIM6*	0	UTR3	5.156	2b	2	4	7.044E-04	2.787E-05	1.306E-02	0.081	-0.012	-0.011
rs7952734	50062681	12	C	A	rs7953911	43	*FMNL3*	0	intronic	ND	6	4	5	3.045E-04	6.991E-05	8.621E-03	0.086	-0.011	-0.012
rs7953412	50140266	12	G	A	rs7953911	43	*TMBIM6*	0	intronic	2.551	5	2	5	2.101E-02	**3.965E-08**	2.175E-03	0.063	-0.018	-0.016

rs7953911	49948500	12	C	T	rs7953911	43	*KCNH3*	0	intronic	0.395	4	4	5	1.658E-05	2.144E-05	2.788E-02	0.099	-0.012	-0.010
rs7954994	50068089	12	T	C	rs7953911	43	*FMNL3*	0	intronic	7.878	4	2	7	4.496E-04	1.831E-04	2.229E-02	-0.084	0.011	0.010
rs7956089	50153310	12	G	A	rs7953911	43	*TMBIM6*	0	intronic	0.007	7	4	4	7.524E-04	3.428E-05	1.101E-02	0.080	-0.012	-0.011
rs7956181	50056339	12	C	T	rs7953911	43	*FMNL3*	0	intronic	4.049	5	2	7	3.388E-04	1.127E-04	1.543E-02	0.086	-0.011	-0.011
rs7962645	50150939	12	C	T	rs7953911	43	*TMBIM6*	0	intronic	0.08	5	4	4	7.221E-04	3.565E-05	1.096E-02	0.080	-0.012	-0.011
rs7962863	50060874	12	C	T	rs7953911	43	*FMNL3*	0	intronic	2.404	5	4	5	5.773E-03	1.121E-02	9.724E-02	0.059	-0.007	-0.007
rs7967624	50159519	12	C	A	rs7953911	43	*TMBIM6*	801	downstream	2.498	5	4	5	7.033E-04	3.839E-05	9.990E-03	0.081	-0.012	-0.011
rs7968302	50140185	12	C	T	rs7953911	43	*TMBIM6*	0	intronic	2.177	7	1	5	2.100E-02	**4.033E-08**	1.588E-03	0.063	-0.018	-0.017
rs7970241	49948759	12	T	C	rs7953911	43	*KCNH3*	0	intronic	2.933	4	4	5	2.057E-05	4.105E-05	4.349E-02	-0.097	0.011	0.009
rs7973389	49980745	12	C	T	rs7953911	43	*PRPF40B:FAM186B*	0	intronic	2.689	5	4	5	1.908E-05	8.259E-05	3.484E-02	0.098	-0.011	-0.009
rs7975599	49944926	12	G	A	rs7953911	43	*KCNH3*	0	intronic	ND	4	2	14	3.184E-05	4.730E-05	5.271E-02	0.094	-0.011	-0.008
rs7977389	49981722	12	C	T	rs7953911	43	*PRPF40B:FAM186B*	0	intronic	1.409	5	4	5	2.648E-05	7.723E-05	4.002E-02	0.095	-0.011	-0.009
rs7979262	50065146	12	C	T	rs7953911	43	*FMNL3*	0	intronic	2.976	3a	2	7	5.149E-04	1.060E-04	1.258E-02	0.082	-0.011	-0.011
rs7979285	49986544	12	G	A	rs7953911	43	*PRPF40B:FAM186B*	0	intronic	1.464	7	5	5	4.909E-04	1.251E-02	2.242E-01	0.072	-0.006	-0.005
rs7980979	50122588	12	T	G	rs7953911	43	*TMBIM6*	0	intronic	0.741	6	14	15	7.015E-04	2.941E-05	9.729E-03	-0.081	0.012	0.011
rs8626	50034668	12	G	A	rs7953911	43	*PRPF40B:FMNL3*	0	UTR3	4.198	ND	4	5	6.229E-03	9.110E-03	1.046E-01	0.058	-0.007	-0.007
rs876889	49983378	12	T	C	rs7953911	43	*PRPF40B:FAM186B*	0	intronic	8.125	7	4	5	2.064E-05	8.046E-05	3.432E-02	-0.098	0.011	0.009
rs9804749	50094314	12	A	G	rs7953911	43	*FMNL3*	0	intronic	0.322	7	5	5	7.554E-04	6.930E-05	1.234E-02	-0.080	0.011	0.011
rs9804971	50094437	12	G	A	rs7953911	43	*FMNL3*	0	intronic	3.791	6	5	5	7.543E-04	1.082E-04	1.114E-02	0.080	-0.011	-0.011
rs10400419	66389968	12	T	C	rs10400419	44	*HMGA2*	29892	intergenic	1.671	5	2	15	3.411E-06	6.762E-05	8.103E-02	-0.067	0.007	0.009
rs10748028	66388846	12	A	C	rs10400419	44	*HMGA2*	28770	intergenic	1.889	7	5	15	3.468E-05	7.129E-03	3.958E-01	0.065	-0.005	-0.005
rs1585897	66383320	12	C	A	rs10400419	44	*HMGA2*	23244	intergenic	6.316	7	5	15	2.768E-05	5.058E-06	2.818E-03	0.061	-0.008	-0.008
rs12819667	89763529	12	C	T	rs1427829	45	*RP11-1109F11.3*	450	downstream	7.425	4	2	15	**2.125E-09**	4.200E-06	3.722E-05	-0.081	0.008	0.011
rs1427829	89760744	12	A	G	rs3990314	45	*RP11-1109F11.3*	839	upstream	1.856	ND	5	5	**1.349E-09**	3.637E-06	3.037E-05	0.082	-0.008	-0.011
rs1323623	31637620	13	A	G	rs66931513	46	*WDR95P*	13770	intergenic	0.062	ND	5	15	1.673E-05	2.580E-04	3.043E-04	0.064	-0.007	-0.011
rs2038696	31614181	13	A	G	rs66931513	46	*WDR95P*	37209	intergenic	0.751	7	5	15	2.731E-05	1.090E-03	1.159E-03	0.063	-0.006	-0.010
rs66931513	31633544	13	G	A	rs66931513	46	*WDR95P*	17846	intergenic	4.831	5	5	15	1.094E-05	1.287E-04	7.730E-05	-0.065	0.007	0.012
rs7981107	31652068	13	G	A	rs66931513	46	*WDR95P*	0	ncRNA_intronic	0.14	5	5	14	1.300E-05	3.492E-04	9.818E-01	-0.066	0.007	0.000
rs7990654	31650147	13	G	A	rs66931513	46	*WDR95P*	1243	intergenic	ND	7	5	15	2.224E-05	3.086E-04	5.507E-04	-0.063	0.007	0.011
rs9315107	31642858	13	C	T	rs66931513	46	*WDR95P*	8532	intergenic	1.777	5	5	15	7.476E-05	1.942E-06	1.611E-04	-0.055	0.008	0.011
rs9526604	31614964	13	T	G	rs66931513	46	*WDR95P*	36426	intergenic	0.888	7	5	14	1.598E-05	2.494E-04	3.986E-04	0.064	-0.007	-0.011
rs9535447	31621474	13	T	C	rs66931513	46	*WDR95P*	29916	intergenic	5.038	4	1	7	2.387E-05	2.984E-04	4.802E-04	0.062	-0.007	-0.011
rs9535843	31637563	13	G	A	rs66931513	46	*WDR95P*	13827	intergenic	1.371	7	5	15	1.734E-05	2.391E-04	2.099E-04	-0.064	0.007	0.012
rs9591453	31642829	13	A	G	rs66931513	46	*WDR95P*	8561	intergenic	2.692	5	5	15	9.088E-05	1.789E-06	1.264E-04	0.055	-0.008	-0.011
rs9591486	31646976	13	A	G	rs66931513	46	*WDR95P*	4414	intergenic	3.395	5	5	15	1.625E-05	3.423E-04	2.205E-04	0.064	-0.007	-0.011
rs9596756	31647353	13	A	C	rs66931513	46	*WDR95P*	4037	intergenic	4.435	7	5	15	1.697E-05	2.376E-04	3.366E-04	0.064	-0.007	-0.011
rs9596770	31649431	13	A	G	rs66931513	46	*WDR95P*	1959	intergenic	ND	5	5	15	2.176E-05	2.949E-04	5.635E-04	0.063	-0.007	-0.011
rs118110515	29396922	14	T	G	rs140802584	47	*CTD-2384A14.1*	0	ncRNA_intronic	0.277	6	9	15	1.233E-05	7.346E-04	2.094E-04	0.174	-0.017	-0.031
rs140802584	29419892	14	G	A	rs140802584	47	*CTD-2384A14.1:RP11-148E17.1*	0	ncRNA_intronic	2.877	6	9	15	1.492E-05	1.217E-03	8.416E-05	-0.172	0.016	0.033
rs17638843	29524041	14	C	T	rs140802584	47	*RP11-148E17.1*	26071	intergenic	9.327	7	9	15	6.487E-05	7.387E-03	2.655E-05	-0.154	0.013	0.035
rs10133551	33282232	14	C	T	rs2300861	48	*AKAP6*	0	intronic	0.824	7	2	15	1.363E-05	2.057E-04	**2.701E-10**	-0.062	0.006	0.018
rs10145461	33298330	14	T	G	rs2300861	48	*AKAP6*	0	intronic	8.515	7	5	15	6.405E-05	3.906E-02	**9.117E-13**	-0.055	0.004	0.020
rs1051695	33293122	14	A	G	rs2300861	48	*AKAP6*	0	exonic	0.445	5	4	15	9.999E-06	6.984E-04	**1.060E-12**	0.061	-0.006	-0.020
rs11156769	33304534	14	G	A	rs2300861	48	*AKAP6*	3966	intergenic	8.619	6	5	15	1.984E-04	2.166E-03	**1.070E-11**	-0.051	0.005	0.019
rs11623122	33304091	14	A	G	rs2300861	48	*AKAP6*	3523	intergenic	2.691	7	5	15	2.159E-04	2.200E-03	**7.365E-12**	0.051	-0.005	-0.019
rs11623135	33304272	14	T	C	rs2300861	48	*AKAP6*	3704	intergenic	8.556	7	5	15	2.288E-04	2.203E-03	**1.077E-11**	0.051	-0.005	-0.019
rs12433255	33304711	14	A	G	rs2300861	48	*AKAP6*	4143	intergenic	ND	7	5	15	2.077E-04	2.387E-03	**7.672E-12**	0.051	-0.005	-0.019
rs12879159	33302960	14	A	G	rs2300861	48	*AKAP6*	2392	intergenic	7.127	6	5	15	1.587E-04	1.938E-03	**1.836E-11**	0.052	-0.005	-0.019
rs12883788	33303540	14	T	C	rs2300861	48	*AKAP6*	2972	intergenic	1.147	7	5	15	1.096E-03	1.796E-03	**5.132E-13**	0.045	-0.005	-0.020
rs12885124	33303589	14	G	T	rs2300861	48	*AKAP6*	3021	intergenic	2.233	6	5	15	1.793E-04	1.011E-03	**9.801E-12**	-0.051	0.006	0.019
rs12885467	33303788	14	C	T	rs2300861	48	*AKAP6*	3220	intergenic	1.205	7	5	15	5.185E-04	9.104E-04	**4.075E-13**	-0.048	0.006	0.020
rs12892113	33308401	14	A	C	rs2300861	48	*AKAP6*	7833	intergenic	1.996	7	5	15	5.760E-04	2.518E-03	**1.824E-10**	0.051	-0.005	-0.018
rs12894779	33305020	14	A	G	rs2300861	48	*AKAP6*	4452	intergenic	ND	6	5	15	1.835E-04	2.644E-03	**7.052E-12**	0.051	-0.005	-0.019
rs12896446	33305499	14	G	T	rs2300861	48	*AKAP6*	4931	intergenic	2.094	6	5	15	1.785E-04	1.063E-03	**1.331E-11**	-0.051	0.006	0.019
rs17522122	33302882	14	T	G	rs2300861	48	*AKAP6*	2314	intergenic	1.734	7	5	15	7.120E-04	1.238E-03	**1.067E-11**	0.047	-0.006	-0.019
rs2239647	33292743	14	A	C	rs2300861	48	*AKAP6*	0	exonic	0.002	6	4	15	9.022E-05	2.713E-04	**1.136E-13**	0.054	-0.006	-0.021
rs2300861	33294781	14	C	T	rs2300861	48	*AKAP6*	0	intronic	13.39	7	5	15	9.041E-06	9.179E-04	**1.846E-12**	-0.062	0.006	0.020
rs2383378	33282470	14	A	C	rs2300861	48	*AKAP6*	0	intronic	ND	6	2	15	1.160E-05	2.507E-04	**1.384E-10**	0.062	-0.006	-0.018
rs4261436	33299482	14	T	C	rs2300861	48	*AKAP6*	0	UTR3	5.326	6	5	15	7.392E-05	3.881E-02	**6.723E-13**	-0.054	0.004	0.020
rs7140259	33309030	14	G	T	rs2300861	48	*AKAP6*	8462	intergenic	16.65	7	5	15	4.412E-04	2.389E-03	**7.193E-10**	-0.055	0.005	0.017
rs7140608	33309186	14	C	T	rs2300861	48	*AKAP6*	8618	intergenic	2.016	7	5	15	3.333E-04	3.483E-03	**7.810E-10**	-0.056	0.005	0.017
rs7142530	33306043	14	A	G	rs2300861	48	*AKAP6*	5475	intergenic	ND	7	5	15	1.282E-04	1.914E-03	**5.856E-11**	0.053	-0.005	-0.018
rs7145828	33303298	14	G	A	rs2300861	48	*AKAP6*	2730	intergenic	4.262	7	5	15	1.682E-04	1.859E-03	**4.008E-12**	-0.052	0.005	0.019
rs7146265	33303274	14	A	G	rs2300861	48	*AKAP6*	2706	intergenic	6.709	7	5	15	1.607E-04	1.910E-03	**8.888E-12**	0.052	-0.005	-0.019
rs7156389	33308918	14	A	G	rs2300861	48	*AKAP6*	8350	intergenic	15.27	7	5	15	7.583E-04	2.615E-03	**4.378E-10**	0.052	-0.005	-0.018
rs7160974	33309228	14	T	C	rs2300861	48	*AKAP6*	8660	intergenic	2.281	6	5	15	3.909E-04	2.334E-03	**7.434E-10**	0.055	-0.005	-0.017

rs7161135	33309293	14	A	C	rs2300861	48 *AKAP6*	8725	intergenic	6.438		6	5	15	4.481E-04	1.921E-03	**6.032E-10**	0.055	-0.005	-0.017
rs7161424	33309274	14	A	G	rs2300861	48 *AKAP6*	8706	intergenic	0.015		7	5	15	4.501E-04	8.324E-04	**4.678E-10**	0.055	-0.006	-0.018
rs8016504	33308021	14	C	A	rs2300861	48 *AKAP6*	7453	intergenic	2.397		5	5	15	3.196E-04	4.018E-05	5.315E-08	0.052	-0.007	-0.015
rs12435486	98670849	14	A	G	rs12435486	49 *RP11-61O1.1*	0	ncRNA_intronic	ND		5	1	15	2.639E-05	1.441E-03	3.204E-07	0.066	-0.006	-0.017
rs17701958	98645610	14	A	G	rs12435486	49 *RP11-61O1.1*	0	ncRNA_intronic	2.517		6	5	15	8.700E-05	1.012E-02	1.550E-05	0.065	-0.005	-0.015
rs17775184	98647550	14	T	C	rs12435486	49 *RP11-61O1.1*	0	ncRNA_intronic	3.687		4	2	15	9.562E-05	1.059E-02	1.016E-05	0.065	-0.005	-0.015
rs2008260	98646940	14	A	G	rs12435486	49 *RP11-61O1.1*	0	ncRNA_intronic	1.753		6	5	15	9.673E-05	6.159E-03	9.303E-06	0.065	-0.006	-0.016
rs7141014	98667928	14	C	T	rs12435486	49 *RP11-61O1.1*	0	ncRNA_intronic	ND		6	1	15	2.210E-04	1.006E-02	6.293E-06	-0.062	0.005	0.016
rs7144406	98659847	14	G	A	rs12435486	49 *RP11-61O1.1*	0	ncRNA_intronic	1.269		7	5	15	2.633E-04	9.131E-03	6.660E-06	-0.061	0.006	0.016
rs77653640	98643863	14	A	G	rs12435486	49 *RP11-61O1.1*	0	ncRNA_intronic	4.553		5	2	15	2.883E-05	3.323E-02	8.198E-06	0.072	-0.005	-0.016
rs79470265	98649129	14	C	A	rs12435486	49 *RP11-61O1.1*	0	ncRNA_intronic	0.507	2b		2	15	1.357E-04	2.111E-02	7.935E-07	-0.065	0.005	0.018
rs1019625	47791573	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	7.418	ND		5	15	3.075E-05	2.322E-05	2.331E-01	0.062	-0.008	-0.004
rs1019626	47791436	15	C	A	rs8039398	50 *SEMA6D*	0	intronic	0.884	ND		5	15	7.037E-07	8.949E-06	1.235E-01	-0.070	0.008	0.004
rs1019627	47791429	15	A	C	rs8039398	50 *SEMA6D*	0	intronic	3.063	ND		5	15	1.046E-05	1.315E-04	4.064E-01	0.066	-0.007	-0.002
rs1025142	47684932	15	C	A	rs8039398	50 *SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	4.372		5	5	15	3.540E-04	5.638E-04	3.391E-01	-0.051	0.006	-0.003
rs1025143	47685059	15	C	T	rs8039398	50 *SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	1.397		6	5	15	1.460E-04	2.810E-04	4.290E-01	-0.054	0.006	-0.002
rs1025144	47685080	15	G	A	rs8039398	50 *SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	1.283		7	5	15	3.506E-04	5.406E-04	3.978E-01	-0.051	0.006	-0.002
rs1025145	47685306	15	G	A	rs8039398	50 *SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	0.755		6	5	15	2.661E-04	2.416E-04	3.686E-01	-0.052	0.007	-0.003
rs1035702	47828716	15	G	T	rs8039398	50 *SEMA6D*	0	intronic	3.768	ND		5	15	8.821E-05	1.508E-07	6.338E-01	-0.053	0.009	0.001
rs10519129	47850326	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	0.999		7	9	15	2.394E-06	**6.837E-09**	3.499E-01	0.064	-0.010	-0.003
rs10519130	47860938	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	0.348		7	5	15	1.902E-04	8.092E-03	2.020E-01	0.056	-0.005	-0.004
rs10851453	47826457	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	0.083		7	5	15	2.632E-04	6.105E-03	2.935E-01	0.055	-0.005	-0.003
rs10851454	47826503	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	1.494		6	5	15	2.631E-04	6.218E-03	2.997E-01	0.055	-0.005	-0.003
rs10851456	47903615	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	4.465		7	5	15	1.978E-05	**1.335E-08**	3.982E-01	-0.058	0.010	0.002
rs11070587	47764386	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	ND		6	1	15	7.628E-06	5.213E-04	2.783E-01	-0.067	0.007	0.003
rs11070588	47776893	15	C	T	rs8039398	50 *SEMA6D*	0	intronic	3.925		7	5	15	3.776E-05	5.113E-05	3.031E-01	-0.061	0.008	0.003
rs11070591	47816374	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	ND		4	5	15	9.591E-06	2.298E-04	3.401E-01	0.067	-0.007	-0.003
rs11070592	47821138	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	1.452		6	5	15	7.550E-05	2.613E-07	4.386E-01	0.054	-0.009	-0.002
rs11070593	47821222	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	2.272		6	5	15	7.133E-05	2.613E-07	4.287E-01	0.054	-0.009	-0.002
rs11070597	47893317	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	ND		7	5	15	1.657E-05	5.229E-08	4.360E-01	-0.058	0.010	0.002
rs11070599	47894320	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	4.873		7	5	15	5.196E-04	6.553E-03	1.906E-01	-0.052	0.005	0.004
rs11629755	47862212	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	1.586		6	5	15	2.091E-04	7.677E-03	1.669E-01	0.056	-0.005	-0.004
rs11632616	47716150	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	ND		6	5	15	4.983E-05	3.472E-04	9.291E-01	-0.059	0.007	0.000
rs11633288	47876710	15	C	T	rs8039398	50 *SEMA6D*	0	intronic	17.97		5	5	15	1.073E-05	**9.528E-09**	4.676E-01	-0.059	0.010	0.002
rs11633464	47789112	15	T	G	rs8039398	50 *SEMA6D*	0	intronic	1.256		4	5	15	1.365E-05	2.370E-04	4.703E-01	0.065	-0.007	-0.002
rs11633588	47870228	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	3.717		6	5	15	2.518E-04	4.355E-03	1.633E-01	-0.055	0.005	0.004
rs11634974	47878420	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	5.006		7	5	15	6.853E-05	7.860E-06	6.399E-01	0.054	-0.008	-0.001
rs11635423	47896407	15	A	G	rs8039398	50 *SEMA6D:RP11-552E10.1*	0	ncRNA_intronic	4.118		6	5	15	1.794E-05	**9.693E-09**	4.615E-01	0.058	-0.010	-0.002
rs11635824	47874891	15	C	T	rs8039398	50 *SEMA6D*	0	intronic	3.983		7	5	15	2.865E-04	1.071E-02	1.829E-01	-0.054	0.005	0.004
rs11636198	47879004	15	A	C	rs8039398	50 *SEMA6D*	0	intronic	3.224		5	5	15	8.245E-05	5.920E-06	6.379E-01	0.054	-0.008	-0.001
rs11636476	47879406	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	0.725		5	5	15	1.131E-04	**6.200E-09**	1.254E-01	-0.053	0.010	0.004
rs11638931	47870251	15	C	T	rs8039398	50 *SEMA6D*	0	intronic	1.084		7	5	15	2.637E-04	4.652E-03	1.662E-01	-0.055	0.005	0.004
rs12050589	47733197	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	5.282	3a		5	15	4.192E-05	2.116E-04	9.391E-01	0.060	-0.007	0.000
rs1224671	47895543	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	0.405		4	5	15	5.774E-04	5.338E-03	1.820E-01	0.052	-0.005	-0.004
rs12437563	47852961	15	T	G	rs8039398	50 *SEMA6D*	0	intronic	4.949		6	9	15	2.046E-04	8.382E-03	1.613E-01	0.056	-0.005	-0.004
rs12438247	47892505	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	4.248		6	5	15	5.574E-04	5.660E-03	1.994E-01	0.052	-0.005	-0.004
rs12438416	47805237	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	3.525		6	5	15	7.793E-06	2.372E-04	2.674E-01	0.067	-0.007	-0.003
rs12439408	47733570	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	4.142		6	5	15	4.201E-05	2.114E-04	9.412E-01	-0.060	0.007	0.000
rs12440756	47783437	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	7.283		7	9	15	1.484E-05	3.098E-04	5.242E-01	-0.065	0.007	0.002
rs12440759	47804269	15	C	T	rs8039398	50 *SEMA6D*	0	intronic	0.964		5	5	15	4.221E-06	2.196E-04	2.103E-01	-0.069	0.007	0.004
rs12442480	47785257	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	4.959		7	5	15	1.474E-05	3.310E-04	4.218E-01	-0.065	0.007	0.002
rs12592235	47787970	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	2.547		7	5	15	8.278E-06	4.480E-04	3.211E-01	-0.067	0.007	0.003
rs12592568	47864298	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	3.346		6	5	15	2.063E-04	7.881E-03	1.711E-01	0.056	-0.005	-0.004
rs12594544	47889802	15	C	A	rs8039398	50 *SEMA6D*	0	intronic	0.256		7	9	15	4.674E-04	5.356E-03	2.080E-01	-0.052	0.005	0.004
rs12594780	47797044	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	2.507		5	1	15	4.988E-06	1.483E-04	2.701E-01	0.068	-0.007	-0.003
rs12898308	47756148	15	C	T	rs8039398	50 *SEMA6D*	0	intronic	ND		7	5	15	2.459E-05	1.077E-04	3.030E-01	-0.063	0.007	0.003
rs12899823	47870773	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	3.077		7	5	15	3.168E-04	9.359E-03	1.332E-01	0.054	-0.005	-0.005
rs12900091	47886897	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	1.136		7	9	15	2.964E-05	**3.751E-09**	6.553E-01	0.056	-0.010	-0.001
rs12901328	47856831	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	13.87		6	9	15	2.071E-06	**7.996E-09**	3.170E-01	0.064	-0.010	-0.003
rs12902636	47971451	15	C	T	rs8039398	50 *SEMA6D*	0	intronic	ND		7	7	15	9.973E-04	8.763E-07	9.350E-01	-0.045	0.008	0.000
rs12903499	47911870	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	ND		5	5	15	5.879E-04	8.622E-03	2.133E-01	-0.052	0.005	0.004
rs12904411	47853888	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	0.984		6	9	15	2.267E-06	**7.343E-09**	3.269E-01	0.064	-0.010	-0.003
rs12905006	47878853	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	7.697		5	5	15	3.553E-04	7.633E-03	1.725E-01	0.054	-0.005	-0.004
rs12905914	47872162	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	ND		7	5	15	3.104E-04	9.469E-03	1.731E-01	0.054	-0.005	-0.004
rs12906510	47889545	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	2.213		7	9	15	4.676E-04	6.289E-03	1.962E-01	0.052	-0.005	-0.004
rs12907773	47875754	15	A	G	rs8039398	50 *SEMA6D*	0	intronic	ND		6	5	15	2.683E-04	1.166E-02	1.389E-01	0.054	-0.005	-0.004
rs12907939	47758111	15	T	C	rs8039398	50 *SEMA6D*	0	intronic	7.264		6	5	15	8.099E-06	3.710E-04	3.280E-01	0.067	-0.007	-0.003
rs12908208	47796875	15	G	A	rs8039398	50 *SEMA6D*	0	intronic	0.8		5	2	15	7.405E-06	1.449E-04	2.168E-01	-0.067	0.007	0.004

rs12917100	47910531	15	T	C	rs8039398	50	*SEMA6D*		0	intronic	7.907		5	5	15	5.647E-04	9.460E-03	2.221E-01	0.052	-0.005	-0.004
rs1347468	47887802	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	4.311		7	9	15	5.911E-04	4.765E-03	3.074E-01	-0.052	0.005	0.003
rs1347469	47814528	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	0.731	ND		5	15	3.055E-07	8.995E-06	1.884E-01	-0.072	0.008	0.004
rs1369643	47904808	15	T	C	rs8039398	50	*SEMA6D*		0	intronic	ND	ND		5	15	2.233E-05	**7.714E-09**	4.257E-01	0.057	-0.010	-0.002
rs1369645	47788809	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	1.555		5	5	15	3.355E-05	3.931E-05	3.630E-01	0.062	-0.008	-0.003
rs1390871	47755532	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	ND		7	5	15	1.068E-05	5.349E-04	3.342E-01	-0.066	0.007	0.003
rs1435742	47935785	15	G	A	rs8039398	50	-	-		intergenic	ND	ND	ND	ND		1.189E-03	5.914E-07	4.053E-01	-0.044	0.009	0.002
rs1435745	47841705	15	T	G	rs8039398	50	*SEMA6D*		0	intronic	1.606		5	5	15	2.061E-06	**1.405E-08**	3.513E-01	0.064	-0.010	-0.003
rs1435746	47841998	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	9.844		5	5	15	1.669E-06	**9.482E-09**	2.956E-01	-0.064	0.010	0.003
rs1435749	47845973	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	1.459		5	5	15	2.066E-06	**1.153E-08**	3.932E-01	-0.064	0.010	0.002
rs1435757	47895902	15	C	A	rs8039398	50	*SEMA6D*		0	intronic	3.518		6	5	15	1.754E-05	2.320E-03	ND	-0.058	0.041	ND
rs1435758	47895987	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	8.894		7	5	15	1.754E-05	**1.056E-08**	4.749E-01	-0.058	0.010	0.002
rs1435762	47860980	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	2.429	ND		5	15	2.158E-04	7.856E-03	1.790E-01	-0.056	0.005	0.004
rs1435763	47860636	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	ND	ND		5	15	2.166E-04	8.245E-03	1.841E-01	0.056	-0.005	-0.004
rs1496898	47747795	15	T	C	rs8039398	50	*SEMA6D*		0	intronic	1.433		7	13	15	3.688E-05	2.181E-04	9.394E-01	0.060	-0.007	0.000
rs1496899	47731599	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	2.327	ND		5	15	4.241E-05	2.456E-04	9.160E-01	-0.060	0.007	0.000
rs1496903	47725696	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	1.657		6	5	15	4.582E-05	3.343E-04	9.433E-01	-0.060	0.007	0.000
rs1496908	47771532	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	2.204		6	5	15	5.799E-06	2.817E-04	3.050E-01	-0.067	0.007	0.003
rs1541729	47727288	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	4.712		6	5	15	4.278E-05	2.427E-04	9.176E-01	0.060	-0.007	0.000
rs1541730	47727399	15	A	C	rs8039398	50	*SEMA6D*		0	intronic	7.556		5	5	15	4.538E-05	2.587E-04	9.218E-01	0.060	-0.007	0.000
rs1561043	47907212	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	1.456		6	5	15	4.236E-04	5.324E-03	1.800E-01	-0.053	0.005	0.004
rs1561044	47907348	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	0.994		7	5	15	3.562E-04	6.579E-03	1.594E-01	-0.053	0.005	0.004
rs1610098	47806012	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	1.547	ND		5	15	1.165E-07	5.622E-06	1.088E-01	-0.075	0.008	0.005
rs1618196	47797832	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	4.054		6	5	15	3.528E-07	8.996E-06	1.038E-01	-0.071	0.008	0.005
rs1623020	47825290	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	2.975		6	5	15	8.529E-05	1.309E-07	6.038E-01	-0.053	0.009	0.001
rs1656604	47794252	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	2.948		6	5	15	**2.595E-08**	**1.162E-12**	3.040E-01	-0.075	0.012	0.003
rs1656605	47795418	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	3.601		6	5	15	1.242E-05	1.540E-04	2.939E-01	-0.065	0.007	0.003
rs1656607	47796089	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	13.94		6	5	15	7.476E-07	5.633E-06	8.579E-02	-0.070	0.008	0.005
rs1656608	47796192	15	C	A	rs8039398	50	*SEMA6D*		0	intronic	9.705		7	5	15	4.136E-07	8.701E-06	5.735E-02	-0.071	0.008	0.005
rs1656618	47810363	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	4.976		6	2	15	9.271E-07	3.971E-06	1.563E-01	0.073	-0.009	-0.004
rs1656622	47813909	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	1.468	ND		5	15	2.940E-07	1.055E-05	1.776E-01	-0.073	0.008	0.004
rs1656623	47815484	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	2.305		5	5	15	5.545E-07	1.058E-05	2.019E-01	0.071	-0.008	-0.004
rs1656624	47820086	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	ND		5	5	15	3.598E-04	6.642E-03	2.644E-01	0.053	-0.005	-0.003
rs1656629	47824426	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	15.37		6	5	15	2.097E-04	4.946E-03	2.268E-01	-0.055	0.005	0.004
rs1656631	47836009	15	C	A	rs8039398	50	*SEMA6D*		0	intronic	6.074		7	9	15	1.881E-06	1.103E-03	8.585E-02	-0.068	0.006	0.005
rs16952896	47796366	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	2.656		5	5	15	1.278E-05	1.553E-04	3.026E-01	0.065	-0.007	-0.003
rs16959485	47724559	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	ND		7	5	15	4.098E-05	2.991E-04	9.568E-01	0.060	-0.007	0.000
rs16959549	47761859	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	3.225		6	5	15	2.018E-05	8.113E-05	2.873E-01	0.063	-0.007	-0.003
rs16959618	47805357	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	1.247		6	5	15	7.783E-06	2.282E-04	2.533E-01	-0.067	0.007	0.003
rs16959659	47821637	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	3.864		7	5	15	3.232E-04	6.158E-03	2.280E-01	-0.054	0.005	0.004
rs16959700	47872281	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	ND		6	5	15	3.187E-04	8.637E-03	1.906E-01	-0.054	0.005	0.004
rs16959825	47903008	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	7.277		7	5	15	5.091E-04	5.494E-03	1.886E-01	-0.052	0.005	0.004
rs16959883	47911263	15	T	C	rs8039398	50	*SEMA6D*		0	intronic	3.576		7	5	15	6.082E-04	8.993E-03	2.185E-01	0.051	-0.005	-0.004
rs17527773	47767101	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	5.934		7	5	15	9.146E-06	4.065E-04	3.705E-01	0.066	-0.007	-0.003
rs1797224	47793320	15	T	C	rs8039398	50	*SEMA6D*		0	intronic	5.239	ND		5	15	6.984E-07	8.327E-06	9.366E-02	0.070	-0.008	-0.005
rs1797227	47837257	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	3.582	ND		9	15	1.294E-05	1.926E-05	4.794E-01	-0.060	0.007	0.002
rs1797229	47836823	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	0.406	ND		9	15	1.324E-05	1.891E-05	4.151E-01	-0.060	0.007	0.002
rs1797231	47831916	15	C	A	rs8039398	50	*SEMA6D*		0	intronic	4.149	ND		9	15	4.081E-04	1.799E-04	7.237E-01	-0.050	0.007	0.001
rs1797233	47829075	15	T	G	rs8039398	50	*SEMA6D*		0	intronic	0.757	ND		5	15	4.992E-04	1.238E-04	9.025E-01	0.049	-0.007	0.000
rs1797234	47827998	15	T	C	rs8039398	50	*SEMA6D*		0	intronic	4.269	ND		5	15	6.153E-04	1.627E-04	9.351E-01	0.049	-0.007	0.000
rs1797236	47820264	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	8.954		6	5	15	3.608E-04	6.433E-03	2.561E-01	0.053	-0.005	-0.003
rs1797242	47816055	15	T	C	rs8039398	50	*SEMA6D*		0	intronic	ND	ND		2	15	1.006E-05	2.096E-04	3.236E-01	0.067	-0.007	-0.003
rs1865647	47870186	15	G	T	rs8039398	50	*SEMA6D*		0	intronic	1.425		7	5	15	2.249E-04	5.190E-03	1.059E-01	-0.055	0.005	0.005
rs1865648	47878621	15	T	G	rs8039398	50	*SEMA6D*		0	intronic	2.444		6	5	15	3.566E-04	7.978E-03	1.090E-01	0.053	-0.005	-0.005
rs1898110	47890350	15	T	G	rs8039398	50	*SEMA6D*		0	intronic	ND		7	9	15	1.867E-05	**7.633E-09**	4.909E-01	0.058	-0.010	-0.002
rs1898117	47859085	15	T	G	rs8039398	50	*SEMA6D*		0	intronic	3.198		6	5	15	2.309E-06	**6.034E-09**	3.297E-01	0.064	-0.010	-0.003
rs1908794	47730508	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	0.117	ND		5	15	4.448E-05	2.430E-04	9.028E-01	0.060	-0.007	0.000
rs1912635	47899868	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	4.851	3a		7	15	1.731E-05	**1.238E-08**	4.771E-01	0.058	-0.010	-0.002
rs2059473	47751591	15	T	C	rs8039398	50	*SEMA6D*		0	intronic	ND		7	7	15	3.525E-05	2.441E-04	9.292E-01	0.061	-0.007	0.000
rs2059474	47808354	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	5.961	ND		5	15	4.456E-06	1.852E-04	1.889E-01	0.069	-0.007	-0.004
rs2060509	47877901	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	5.613		6	5	15	1.147E-05	**8.362E-09**	4.226E-01	0.059	-0.010	-0.002
rs2117801	47852505	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	ND		6	9	15	2.152E-06	**5.746E-09**	3.380E-01	-0.064	0.010	0.003
rs2164370	47900379	15	G	A	rs8039398	50	*SEMA6D*		0	intronic	4.184		5	5	15	5.204E-04	6.764E-03	1.920E-01	-0.052	0.005	0.004
rs2164371	47900383	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	5.752		5	5	15	5.695E-04	5.785E-03	1.780E-01	-0.052	0.005	0.004
rs2201670	47758188	15	G	T	rs8039398	50	*SEMA6D*		0	intronic	1.961		5	5	15	2.118E-05	8.922E-05	4.069E-01	-0.063	0.007	0.002
rs2201671	47758194	15	A	G	rs8039398	50	*SEMA6D*		0	intronic	2.608		5	5	15	2.122E-05	9.118E-05	4.039E-01	0.063	-0.007	-0.003
rs2433018	47677596	15	G	A	rs8039398	50	*SEMA6D:CTD-2050N2.1*		0	ncRNA_intronic	0.679		6	5	15	3.457E-05	6.065E-07	9.065E-01	-0.060	0.009	0.000
rs2666550	47917976	15	C	T	rs8039398	50	*SEMA6D*		0	intronic	4.036		6	9	15	3.689E-04	1.973E-06	9.219E-01	-0.048	0.008	0.000

rs281264	47675569	15	G	A	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	2.741		5	5	15	1.149E-04	1.809E-04	4.053E-01	-0.055	0.007	-0.002
rs281265	47675602	15	C	A	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	7.272		5	5	15	1.220E-04	1.807E-04	4.247E-01	-0.054	0.007	-0.002
rs281286	47681250	15	C	T	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	3.044	ND		5	15	3.943E-04	5.645E-04	4.035E-01	-0.050	0.006	-0.002
rs281287	47681552	15	G	A	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	0.929		6	5	15	1.609E-04	2.878E-04	4.175E-01	-0.053	0.006	-0.002
rs281289	47682079	15	G	A	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	1.978		7	5	15	3.884E-04	5.764E-04	3.797E-01	-0.050	0.006	-0.002
rs281291	47682428	15	G	A	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	ND	ND		5	15	3.876E-04	5.531E-04	4.009E-01	-0.050	0.006	-0.002
rs281293	47683333	15	A	G	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	3.035	ND		5	15	4.217E-04	5.517E-04	3.673E-01	0.050	-0.006	0.003
rs281296	47685010	15	A	G	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	0.641		7	5	15	1.559E-04	2.514E-04	4.256E-01	0.054	-0.007	0.002
rs281297	47685504	15	C	T	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	0.53		7	5	15	1.885E-07	1.028E-07	5.713E-01	-0.076	0.009	0.002
rs281320	47769424	15	G	T	rs8039398	50	*SEMA6D*	0	intronic	5.413	ND		5	15	**8.308E-09**	**1.751E-12**	1.816E-01	-0.078	0.012	0.004
rs281323	47754027	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	4.666		5	5	15	**8.265E-09**	**1.804E-12**	2.991E-01	0.078	-0.012	-0.003
rs28505872	47844059	15	T	C	rs8039398	50	*SEMA6D*	0	intronic	14.28		5	5	15	2.563E-06	**1.126E-08**	4.130E-01	0.063	-0.010	-0.002
rs28533540	47867762	15	G	A	rs8039398	50	*SEMA6D*	0	intronic	1.249		7	5	15	1.785E-06	**4.172E-09**	3.310E-01	-0.065	0.010	0.003
rs28703303	47880378	15	G	T	rs8039398	50	*SEMA6D*	0	intronic	4.614		5	5	15	1.608E-05	**5.845E-09**	4.360E-01	-0.058	0.010	0.002
rs34059417	47761930	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	ND		7	5	15	8.463E-06	4.887E-04	4.063E-01	0.067	-0.007	-0.003
rs34248173	47862236	15	G	A	rs8039398	50	*SEMA6D*	0	intronic	1.759		7	5	15	2.129E-06	5.667E-03	ND	-0.064	0.038	ND
rs34597513	47787448	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	4.289		6	5	15	3.475E-05	3.676E-05	4.420E-01	0.061	-0.008	-0.002
rs34890167	47789397	15	T	C	rs8039398	50	*SEMA6D*	0	intronic	3.433		7	5	15	1.161E-05	2.275E-04	4.290E-01	0.066	-0.007	-0.002
rs35423432	47777945	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	2.742		4	5	15	1.393E-05	2.468E-04	4.463E-01	0.065	-0.007	-0.002
rs35450711	47836357	15	G	A	rs8039398	50	*SEMA6D*	0	intronic	7.872		6	9	15	3.874E-06	1.092E-03	8.029E-02	-0.065	0.006	0.005
rs3817170	47895581	15	G	A	rs8039398	50	*SEMA6D*	0	UTR5	6.264	ND		5	15	5.277E-04	6.370E-03	1.811E-01	-0.052	0.005	0.004
rs4270119	47877690	15	G	T	rs8039398	50	*SEMA6D*	0	intronic	17.96		5	5	15	2.925E-04	9.540E-03	2.080E-01	-0.054	0.005	0.004
rs4338738	47684530	15	A	G	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	1.557		5	5	15	3.553E-04	5.641E-04	3.878E-01	0.051	-0.006	0.002
rs4404005	47684196	15	T	C	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	3.542		6	5	15	3.535E-04	5.766E-04	3.588E-01	0.051	-0.006	0.003
rs4497626	47684508	15	G	A	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	ND		5	5	15	3.558E-04	5.642E-04	3.815E-01	-0.051	0.006	-0.002
rs4511474	47684680	15	A	G	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	3.683		5	5	15	3.565E-04	5.639E-04	3.899E-01	0.051	-0.006	0.002
rs4603502	47874654	15	C	T	rs8039398	50	*SEMA6D*	0	intronic	ND		5	5	15	2.821E-04	9.659E-03	1.666E-01	-0.054	0.005	0.004
rs4774496	47842379	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	0.967		6	5	15	2.896E-04	9.749E-03	2.346E-01	0.055	-0.005	-0.004
rs4774497	47858255	15	G	A	rs8039398	50	*SEMA6D*	0	intronic	6.439		7	7	15	2.205E-06	**7.161E-09**	3.166E-01	-0.064	0.010	0.003
rs4775695	47849944	15	G	A	rs8039398	50	*SEMA6D*	0	intronic	4.321		7	7	15	2.130E-04	7.635E-03	1.695E-01	-0.056	0.005	0.004
rs4775696	47857723	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	1.261		7	9	15	2.132E-06	**9.258E-09**	3.474E-01	0.064	-0.010	-0.003
rs4775699	47873549	15	C	T	rs8039398	50	*SEMA6D*	0	intronic	ND		6	5	15	8.483E-06	**1.385E-08**	4.242E-01	-0.060	0.010	0.002
rs55689274	47758909	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	0.29	3a		5	15	8.585E-06	3.938E-04	4.010E-01	0.067	-0.007	-0.003
rs56342217	47766663	15	C	T	rs8039398	50	*SEMA6D*	0	intronic	2.041		7	5	15	2.066E-05	5.791E-05	3.029E-01	-0.063	0.007	0.003
rs56683038	47785743	15	T	C	rs8039398	50	*SEMA6D*	0	intronic	7.394		7	5	15	1.258E-05	2.685E-04	4.620E-01	0.065	-0.007	-0.002
rs60435677	47785834	15	G	A	rs8039398	50	*SEMA6D*	0	intronic	ND		7	5	15	1.257E-05	3.017E-04	4.805E-01	-0.065	0.007	0.002
rs66618959	47841484	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	4.078		5	5	15	2.824E-04	8.731E-03	2.337E-01	0.055	-0.005	-0.004
rs67405493	47845425	15	G	A	rs8039398	50	*SEMA6D*	0	intronic	ND		6	5	15	2.036E-04	8.253E-03	1.692E-01	-0.056	0.005	0.004
rs71467630	47889542	15	T	G	rs8039398	50	*SEMA6D*	0	intronic	0.527		7	9	15	4.676E-04	6.091E-03	1.890E-01	0.052	-0.005	-0.004
rs7163186	47740830	15	T	C	rs8039398	50	*SEMA6D*	0	intronic	ND		7	9	15	4.218E-05	2.384E-04	9.526E-01	0.060	-0.007	0.000
rs7163346	47778267	15	A	C	rs8039398	50	*SEMA6D*	0	intronic	5.038		7	5	15	3.261E-05	3.972E-05	3.491E-01	0.061	-0.008	-0.003
rs7164326	47883550	15	C	A	rs8039398	50	*SEMA6D*	0	intronic	0.795		6	9	15	4.069E-04	5.848E-03	1.887E-01	-0.053	0.005	0.004
rs7166297	47783414	15	A	C	rs8039398	50	*SEMA6D*	0	intronic	3.297		6	9	15	1.420E-05	3.141E-04	5.265E-01	0.065	-0.007	-0.002
rs7168717	47881056	15	G	A	rs8039398	50	*SEMA6D*	0	intronic	4.606		7	2	15	7.974E-05	7.785E-06	6.582E-01	-0.054	0.008	0.001
rs718113	47875273	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	1.541	ND		5	15	5.748E-05	1.311E-05	6.914E-01	0.055	-0.007	-0.001
rs7183347	47782865	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	0.287		6	9	15	3.298E-05	4.859E-05	4.489E-01	0.062	-0.008	-0.002
rs8027136	47839785	15	G	T	rs8039398	50	*SEMA6D*	0	intronic	2.401		5	1	15	1.729E-06	**8.387E-09**	3.372E-01	-0.064	0.010	0.003
rs8027222	47832577	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	4.618		7	9	15	3.005E-04	6.914E-03	3.067E-01	0.054	-0.005	-0.003
rs8033833	47784679	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	18.00		7	9	15	1.469E-05	2.797E-04	5.321E-01	0.065	-0.007	-0.002
rs8038491	47731079	15	T	C	rs8039398	50	*SEMA6D*	0	intronic	ND		7	5	15	3.951E-05	2.183E-04	9.452E-01	0.060	-0.007	0.000
rs8039398	47730870	15	C	T	rs8039398	50	*SEMA6D*	0	intronic	3.184		7	5	15	**2.986E-09**	**3.748E-11**	2.091E-01	-0.080	0.011	0.003
rs8041003	47734973	15	T	C	rs8039398	50	*SEMA6D*	0	intronic	2.806		7	5	15	3.918E-05	2.155E-04	9.362E-01	0.060	-0.007	0.000
rs8043206	47886702	15	C	T	rs8039398	50	*SEMA6D*	0	intronic	1.836		5	9	15	1.687E-05	**7.677E-09**	4.616E-01	-0.058	0.010	0.002
rs890153	47820431	15	C	T	rs8039398	50	*SEMA6D*	0	intronic	2.932		5	5	15	1.156E-04	2.516E-07	6.403E-01	-0.053	0.009	0.001
rs903978	47764727	15	C	T	rs8039398	50	*SEMA6D*	0	intronic	0.232		7	5	15	1.984E-05	1.165E-04	2.487E-01	-0.063	0.007	0.003
rs938043	47909513	15	G	A	rs8039398	50	*SEMA6D*	0	intronic	ND	ND		5	15	5.808E-04	1.029E-02	2.182E-01	-0.052	0.005	0.004
rs962949	47685378	15	G	A	rs8039398	50	*SEMA6D:CTD-2050N2.1*	0	ncRNA_intronic	0.667		7	5	15	2.561E-04	2.634E-04	4.138E-01	-0.053	0.007	-0.002
rs9646181	47873172	15	C	T	rs8039398	50	*SEMA6D*	0	intronic	9.299		5	5	15	1.016E-05	**1.245E-08**	3.927E-01	-0.059	0.010	0.002
rs989652	47823734	15	A	G	rs8039398	50	*SEMA6D*	0	intronic	0.323	ND		5	15	1.458E-04	1.692E-07	6.514E-01	0.052	-0.009	-0.001
rs10852664	5832894	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.76		5	9	15	7.922E-05	2.745E-04	1.370E-07	-0.059	0.007	0.016
rs10852665	5833068	16	C	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.878		5	9	15	6.265E-05	2.940E-04	1.541E-07	-0.059	0.007	0.016
rs11076958	5793415	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.462		7	9	15	2.869E-04	1.400E-03	3.578E-06	0.054	-0.006	-0.014
rs11076962	5811367	16	C	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.35		6	5	15	3.777E-04	8.111E-05	**2.574E-08**	-0.053	0.007	0.017
rs11076965	5833981	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.759		6	9	15	5.833E-05	3.210E-04	4.105E-07	0.060	-0.007	-0.015
rs11076966	5833984	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.626		6	9	15	6.166E-05	3.060E-04	5.453E-07	0.060	-0.007	-0.015
rs11076967	5834006	16	T	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.927		6	9	15	3.865E-05	4.223E-04	3.469E-07	0.062	-0.007	-0.015
rs11076968	5835173	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.432		7	9	15	6.524E-05	2.560E-04	1.362E-07	0.060	-0.007	-0.016
rs11076969	5835438	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.072		7	9	15	8.190E-05	8.099E-04	4.238E-07	0.058	-0.006	-0.015

rs11076971	5837731	16	A	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	4.053	5	9	15	1.824E-03	5.063E-04	2.434E-06	0.048	-0.007	-0.014
rs112257642	5834237	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.426	7	9	15	4.708E-05	2.391E-04	2.226E-07	0.061	-0.007	-0.016
rs11642191	5788360	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.244	6	5	15	1.532E-04	2.835E-03	4.441E-06	0.056	-0.006	-0.014
rs11645832	5788583	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.875	5	5	15	1.584E-04	2.826E-03	5.808E-06	0.056	-0.006	-0.014
rs11648113	5823677	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.632	6	9	15	7.021E-05	1.466E-04	7.247E-07	-0.059	0.007	0.015
rs11648473	5788192	16	C	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.917	6	5	15	1.471E-04	2.875E-03	3.166E-06	-0.057	0.006	0.014
rs11648585	5788461	16	C	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.193	7	5	15	1.724E-04	2.954E-03	8.093E-06	-0.056	0.006	0.014
rs11860120	5834820	16	A	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	3.816	6	9	15	4.875E-05	2.740E-04	1.106E-07	0.061	-0.007	-0.016
rs11861310	5835841	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.045	6	9	15	1.276E-05	5.660E-04	2.268E-06	0.066	-0.007	-0.014
rs11861976	5832288	16	G	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	ND	6	9	15	5.873E-05	2.648E-04	1.779E-07	-0.060	0.007	0.016
rs11864860	5792854	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.191	7	9	15	2.430E-04	1.442E-03	4.129E-06	-0.055	0.006	0.014
rs11866983	5803924	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.565	7	2	15	1.806E-04	6.227E-04	9.332E-07	0.055	-0.006	-0.015
rs12051174	5790932	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	5.491	7	9	15	1.714E-04	2.203E-03	6.595E-06	-0.056	0.006	0.014
rs12051175	5791023	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.904	7	9	15	1.842E-04	1.932E-03	5.520E-06	-0.056	0.006	0.014
rs12051184	5791334	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	14.96	6	9	15	2.147E-04	1.970E-03	5.453E-06	-0.055	0.006	0.014
rs12596497	5788915	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.812	4	5	15	1.637E-04	2.211E-03	4.819E-06	-0.056	0.006	0.014
rs12597118	5835858	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.525	6	9	15	1.286E-05	6.477E-04	2.458E-06	0.066	-0.006	-0.014
rs13332618	5828740	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	3.171	7	9	15	3.254E-05	8.673E-04	4.302E-06	0.062	-0.006	-0.014
rs13335882	5825965	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	ND	7	9	15	1.237E-04	2.773E-04	1.976E-07	0.057	-0.007	-0.016
rs13380566	5832446	16	C	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.095	7	9	15	7.529E-05	2.554E-04	1.326E-07	-0.059	0.007	0.016
rs1436394	5824496	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.251	7	9	15	2.321E-05	3.736E-04	6.483E-06	-0.064	0.007	0.014
rs17138523	5804160	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	4.597	6	2	15	2.339E-04	2.626E-04	5.630E-07	0.054	-0.007	-0.015
rs1898226	5830044	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.211	7	9	15	2.610E-05	9.513E-04	3.096E-06	0.063	-0.006	-0.014
rs2164510	5841406	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.563	ND	5	15	1.433E-03	6.793E-04	2.436E-06	0.049	-0.007	-0.015
rs2342731	5824644	16	T	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.313	6	9	15	3.411E-05	4.868E-04	2.991E-06	0.062	-0.007	-0.014
rs2342733	5832094	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	3.839	6	9	15	1.479E-05	5.104E-04	2.652E-06	0.065	-0.007	-0.014
rs28521723	5834871	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.445	7	9	15	5.275E-05	2.355E-04	1.766E-07	0.060	-0.007	-0.016
rs34890332	5834813	16	C	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.037	7	9	15	5.609E-05	2.795E-04	1.559E-07	-0.060	0.007	0.016
rs36083606	5833175	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	3.145	6	9	15	5.295E-05	2.855E-04	2.259E-07	-0.060	0.007	0.016
rs3848385	5810461	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	4.504	6	5	15	1.028E-04	3.460E-04	5.845E-07	0.058	-0.007	-0.015
rs4421985	5797714	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.614	6	9	15	4.013E-04	1.907E-03	7.311E-06	0.053	-0.006	-0.014
rs4513101	5829196	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	3.163	6	9	15	1.393E-05	1.061E-03	3.531E-06	0.065	-0.006	-0.014
rs4589556	5828901	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.184	6	9	15	3.072E-05	8.938E-04	3.282E-06	0.063	-0.006	-0.014
rs57105172	5790083	16	T	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	ND	5	7	15	1.638E-04	2.263E-03	7.540E-06	0.056	-0.006	-0.014
rs57606741	5834500	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.884	7	9	15	5.490E-05	2.693E-04	2.335E-07	-0.060	0.007	0.016
rs6500717	5805394	16	A	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	4.624	5	5	15	7.534E-05	7.671E-04	1.010E-05	0.060	-0.006	-0.014
rs66926752	5790712	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.571	7	9	15	1.764E-04	1.919E-03	5.938E-06	0.056	-0.006	-0.014
rs67191483	5790479	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.555	7	9	15	1.746E-04	2.154E-03	6.887E-06	-0.056	0.006	0.014
rs67330230	5790238	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	5.074	5	7	15	1.780E-04	1.988E-03	6.722E-06	0.056	-0.006	-0.014
rs67771676	5832337	16	C	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.977	7	9	15	6.755E-05	3.389E-04	3.276E-07	-0.059	0.007	0.015
rs7186704	5829775	16	C	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.97	5	9	15	2.926E-05	8.923E-04	2.439E-06	-0.063	0.006	0.014
rs7187203	5830607	16	A	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.954	6	9	15	5.327E-05	8.839E-04	3.214E-06	0.061	-0.006	-0.014
rs7187204	5830608	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	3.099	6	9	15	2.460E-05	7.384E-04	1.962E-06	0.063	-0.006	-0.015
rs7187217	5830633	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	3.912	7	9	15	2.905E-05	1.256E-03	2.274E-06	0.063	-0.006	-0.015
rs7189389	5808520	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	16.57	4	5	15	7.348E-04	1.534E-04	7.088E-07	-0.050	0.007	0.015
rs7192968	5830742	16	C	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.944	5	9	15	2.367E-05	9.980E-04	2.925E-06	-0.064	0.006	0.014
rs7198618	5829440	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	4.612	7	9	15	1.868E-05	8.879E-04	1.816E-06	0.064	-0.006	-0.015
rs7199564	5829551	16	C	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.802	6	9	15	2.872E-05	7.538E-04	2.565E-06	-0.063	0.006	0.014
rs7202393	5829715	16	T	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.345	3a	9	15	1.576E-05	6.598E-04	3.258E-06	0.065	-0.007	-0.014
rs726239	5831030	16	T	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.821	ND	9	15	2.713E-05	7.428E-04	2.024E-06	0.063	-0.006	-0.015
rs726240	5831291	16	G	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	ND	ND	9	15	1.713E-05	6.563E-04	1.870E-06	-0.064	0.006	0.014
rs929468	5789575	16	G	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	3.785	6	5	15	1.571E-04	2.148E-03	2.432E-06	-0.056	0.006	0.014
rs929469	5789629	16	A	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	3.011	7	5	15	1.620E-04	2.127E-03	1.915E-06	0.056	-0.006	-0.015
rs9923242	5801079	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	3.394	7	5	15	4.019E-04	1.699E-03	1.245E-05	-0.053	0.006	0.013
rs9923553	5825579	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.556	7	9	15	1.013E-04	2.646E-04	4.909E-07	-0.058	0.007	0.015
rs9926798	5835883	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	0.741	5	9	15	6.511E-04	5.753E-03	1.309E-06	0.055	-0.006	-0.015
rs9926811	5827159	16	G	A	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	ND	5	9	15	9.787E-05	2.991E-04	7.940E-07	-0.058	0.007	0.015
rs9927324	5836500	16	A	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.121	5	9	15	5.547E-05	3.431E-04	1.942E-07	0.060	-0.007	-0.016
rs9927934	5824029	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	5.881	6	9	15	3.613E-05	4.766E-04	5.287E-06	0.062	-0.007	-0.014
rs9929536	5836667	16	T	C	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	ND	7	9	15	4.728E-05	3.589E-04	7.563E-07	0.061	-0.007	-0.015
rs9931288	5833425	16	C	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.663	7	9	15	5.214E-05	2.942E-04	1.497E-07	-0.060	0.007	0.016
rs9931383	5833526	16	C	T	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.617	6	9	15	5.212E-05	2.897E-04	1.142E-07	-0.060	0.007	0.016
rs9936015	5827015	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	2.303	5	9	15	1.001E-04	3.060E-04	5.887E-07	0.058	-0.007	-0.015
rs9938496	5833522	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.183	6	9	15	5.209E-05	2.895E-04	1.921E-07	0.060	-0.007	-0.016
rs9940764	5833801	16	A	G	rs11861310	51	*RP11-420N3.2*	0	ncRNA_intronic	1.353	7	9	15	4.663E-05	2.781E-04	1.531E-07	0.061	-0.007	-0.016
rs11639825	18007014	16	G	A	rs1428102	52	*RPL7P47*	19562	intergenic	0.555	6	9	15	2.249E-05	1.367E-01	ND	-0.061	0.021	ND
rs11642075	18043332	16	C	T	rs1428102	52	*CTA-481E9.4*	0	ncRNA_intronic	9.944	5	2	15	2.086E-05	9.853E-03	7.041E-01	-0.060	0.005	0.001

rs1366212	18058974	16	C	T	rs1428102	52 *CTA-481E9.4*	0	ncRNA_intronic	1.561	ND	5	15	2.681E-05	3.182E-02	5.613E-01	-0.062	0.004	0.002
rs140877425	18000445	16	T	C	rs1428102	52 *RPL7P47*	26131	intergenic	2.579	7	9	15	3.296E-05	9.426E-02	9.202E-01	0.062	-0.003	0.000
rs1428101	18026445	16	C	T	rs1428102	52 *RPL7P47*	131	upstream:downstream	3.654	ND	9	15	6.817E-06	3.563E-03	9.050E-01	-0.063	0.005	0.000
rs1428102	18026440	16	A	G	rs1428102	52 *RPL7P47*	136	upstream:downstream	3.982	ND	9	15	2.978E-06	9.098E-04	3.653E-01	0.065	-0.006	-0.003
rs16967988	18062047	16	A	C	rs1428102	52 *CTA-481E9.4*	0	ncRNA_intronic	4.743	6	5	15	6.595E-05	1.012E-01	4.479E-01	0.059	-0.003	-0.002
rs2081864	18034057	16	T	G	rs1428102	52 *CTA-481E9.4*	0	ncRNA_intronic	0.55	ND	5	15	2.132E-05	8.239E-02	8.081E-01	0.061	-0.003	-0.001
rs35981272	18062164	16	T	C	rs1428102	52 *CTA-481E9.4*	0	ncRNA_intronic	3.504	6	5	15	8.786E-05	8.348E-02	8.695E-01	0.059	-0.003	0.000
rs7195925	18001162	16	T	G	rs1428102	52 *RPL7P47*	25414	intergenic	4.841	7	9	15	1.965E-05	6.727E-02	9.704E-01	0.063	-0.003	0.000
rs11075441	61907668	16	T	C	rs1369918	53 *CDH8*	0	intronic	0.949	5	2	15	9.304E-06	4.879E-04	9.545E-03	0.061	-0.006	-0.007
rs11075445	61934599	16	G	T	rs1369918	53 *CDH8*	0	intronic	3.711	2a	4	15	4.495E-06	6.599E-04	8.480E-03	-0.063	0.006	0.007
rs11863799	61933401	16	T	C	rs1369918	53 *CDH8*	0	intronic	0.448	6	5	15	2.860E-04	1.480E-02	7.402E-03	0.052	-0.004	-0.008
rs11865535	61909915	16	G	A	rs1369918	53 *CDH8*	0	intronic	2.233	7	5	15	6.900E-06	5.651E-04	1.014E-02	-0.062	0.006	0.007
rs11865904	61965108	16	T	C	rs1369918	53 *CDH8:CTC-420A11.2*	0	ncRNA_intronic	1.075	5	5	15	9.663E-06	6.999E-02	9.780E-03	0.065	-0.003	-0.008
rs12102584	61907941	16	G	A	rs1369918	53 *CDH8*	0	intronic	2.595	6	1	15	9.339E-06	5.918E-04	8.217E-03	-0.061	0.006	0.007
rs13336134	61848954	16	C	T	rs1369918	53 *CDH8*	0	intronic	3.069	4	5	15	1.609E-04	3.427E-03	4.880E-02	-0.053	0.005	0.006
rs13338096	61983564	16	C	T	rs1369918	53 *CDH8*	0	intronic	2.215	6	5	15	1.530E-06	1.089E-02	7.530E-02	-0.067	0.005	0.005
rs1344864	61899142	16	T	C	rs1369918	53 *CDH8*	0	intronic	0.768	6	5	15	5.350E-06	5.164E-04	1.033E-02	0.062	-0.006	-0.007
rs1355265	61930896	16	G	A	rs1369918	53 *CDH8*	0	intronic	1.384	ND	5	15	4.787E-06	6.471E-04	8.653E-03	-0.063	0.006	0.007
rs1355266	61904887	16	T	C	rs1369918	53 *CDH8*	0	intronic	0.979	ND	5	15	7.960E-06	5.077E-04	9.498E-03	0.061	-0.006	-0.007
rs1369918	61852034	16	A	G	rs1369918	53 *CDH8*	0	intronic	15.26	ND	5	15	4.507E-06	1.916E-04	8.578E-03	0.063	-0.006	-0.007
rs1369919	61845943	16	T	C	rs1369918	53 *CDH8*	0	intronic	3.114	ND	5	15	4.813E-06	1.670E-04	9.028E-03	0.062	-0.007	-0.007
rs1369922	61900909	16	G	A	rs1369918	53 *CDH8*	0	intronic	0.242	ND	5	15	8.388E-06	5.161E-04	9.810E-03	-0.061	0.006	0.007
rs1397128	61919410	16	C	T	rs1369918	53 *CDH8*	0	intronic	ND	ND	5	15	6.613E-06	4.678E-04	9.046E-03	-0.062	0.006	0.007
rs1397136	61975440	16	A	G	rs1369918	53 *CDH8*	0	intronic	0.433	ND	2	15	8.913E-06	5.248E-02	8.792E-03	0.065	-0.004	-0.008
rs1436376	61864006	16	C	T	rs1369918	53 *CDH8*	0	intronic	0.429	ND	5	15	5.868E-06	4.388E-04	1.066E-02	-0.062	0.006	0.007
rs1436379	61814381	16	C	T	rs1369918	53 *CDH8*	0	intronic	1.882	4	5	15	4.864E-06	7.002E-04	4.030E-03	-0.062	0.006	0.008
rs1436380	61945648	16	G	A	rs1369918	53 *CDH8*	0	intronic	0.55	5	5	15	3.710E-06	1.639E-03	8.005E-03	-0.064	0.005	0.007
rs1510160	61918754	16	G	A	rs1369918	53 *CDH8*	0	intronic	3.014	ND	5	15	7.553E-06	4.246E-04	1.003E-02	-0.061	0.006	0.007
rs1510170	61981699	16	T	C	rs1369918	53 *CDH8*	0	intronic	2.259	ND	5	15	9.987E-07	1.358E-02	5.873E-02	0.068	-0.004	-0.005
rs16963957	61825993	16	C	T	rs1369918	53 *CDH8*	0	intronic	1.449	4	5	15	1.681E-04	4.131E-03	5.352E-02	-0.053	0.005	0.006
rs1848816	61918426	16	C	T	rs1369918	53 *CDH8*	0	intronic	0.097	ND	5	15	6.732E-06	4.584E-04	1.053E-02	-0.062	0.006	0.007
rs1865808	61850293	16	T	G	rs1369918	53 *CDH8*	0	intronic	1.546	ND	5	15	4.694E-06	2.046E-04	8.437E-03	0.062	-0.006	-0.007
rs1972824	61916799	16	A	G	rs1369918	53 *CDH8*	0	intronic	1.108	ND	5	15	6.799E-06	4.842E-04	9.432E-03	0.062	-0.006	-0.007
rs1978796	61889904	16	C	T	rs1369918	53 *CDH8*	0	intronic	16.83	ND	5	15	9.093E-06	5.343E-04	1.132E-02	-0.061	0.006	0.007
rs28652571	61910001	16	G	A	rs1369918	53 *CDH8*	0	intronic	0.636	7	5	15	7.351E-06	3.149E-04	8.834E-03	-0.061	0.006	0.007
rs28679397	61813125	16	C	T	rs1369918	53 *CDH8*	0	intronic	3.007	7	5	15	1.712E-04	2.932E-03	4.389E-02	-0.053	0.005	0.006
rs3784845	61978978	16	G	A	rs1369918	53 *CDH8*	0	intronic	2.133	ND	5	15	8.108E-07	1.518E-02	7.536E-02	-0.068	0.004	0.005
rs4131786	61780558	16	G	A	rs1369918	53 *CDH8*	0	intronic	3.169	4	7	15	5.443E-06	6.399E-04	5.670E-03	-0.062	0.006	0.008
rs4494526	61780606	16	T	C	rs1369918	53 *CDH8*	0	intronic	4.389	3a	7	15	1.637E-04	2.066E-03	8.387E-02	0.053	-0.005	-0.005
rs4784166	61887369	16	A	G	rs1369918	53 *CDH8*	0	intronic	2.388	5	5	15	7.191E-06	5.214E-04	1.100E-02	0.061	-0.006	-0.007
rs4784168	61922655	16	C	T	rs1369918	53 *CDH8*	0	intronic	2.196	3a	5	15	3.652E-04	1.651E-02	7.383E-03	-0.051	0.004	0.008
rs59941823	61777269	16	A	C	rs1369918	53 *CDH8:RN7SKP76*	0	ncRNA_exonic	2.812	7	5	15	1.715E-04	1.905E-03	6.723E-02	0.053	-0.006	-0.005
rs62050483	61779201	16	C	T	rs1369918	53 *CDH8*	0	intronic	6.743	6	7	15	1.862E-04	1.927E-03	7.090E-02	-0.053	0.005	0.005
rs62052038	61978684	16	G	A	rs1369918	53 *CDH8*	0	intronic	1.585	5	5	15	8.283E-06	4.764E-02	8.739E-03	-0.065	0.004	0.008
rs6498807	61800868	16	T	C	rs1369918	53 *CDH8*	0	intronic	0.602	6	5	15	1.603E-04	3.589E-03	5.754E-02	0.054	-0.005	-0.005
rs6498809	61833811	16	T	C	rs1369918	53 *CDH8*	0	intronic	2.873	6	9	15	5.047E-06	1.775E-04	6.689E-03	0.062	-0.006	-0.008
rs6498810	61848515	16	A	G	rs1369918	53 *CDH8*	0	intronic	9.741	6	5	15	5.329E-06	1.611E-04	7.883E-03	0.062	-0.007	-0.007
rs6498811	61923196	16	T	C	rs1369918	53 *CDH8*	0	intronic	2.464	6	5	15	5.597E-06	4.935E-04	8.940E-03	0.062	-0.006	-0.007
rs6498813	61976197	16	G	T	rs1369918	53 *CDH8*	0	intronic	5.005	7	2	15	7.240E-07	1.403E-02	8.335E-02	-0.069	0.004	0.005
rs6498815	61976545	16	T	C	rs1369918	53 *CDH8*	0	intronic	1.325	6	2	15	7.036E-07	1.447E-02	7.178E-02	0.069	-0.004	-0.005
rs7184371	61940564	16	G	A	rs1369918	53 *CDH8*	0	intronic	2.459	6	5	15	3.820E-06	7.900E-04	6.874E-03	-0.063	0.006	0.008
rs7187101	61787966	16	G	A	rs1369918	53 *CDH8*	0	intronic	2.089	7	5	15	7.649E-06	4.960E-04	5.786E-03	-0.061	0.006	0.008
rs7188042	61788417	16	G	A	rs1369918	53 *CDH8*	0	intronic	0.296	6	5	15	2.595E-04	8.728E-04	7.487E-02	-0.051	0.006	0.005
rs7188068	61966297	16	A	G	rs1369918	53 *CDH8:CTC-420A11.2*	0	ncRNA_intronic	2.839	7	5	15	1.033E-05	6.329E-02	7.412E-03	0.064	-0.003	-0.008
rs7189354	61906244	16	G	T	rs1369918	53 *CDH8*	0	intronic	1.057	7	1	15	7.039E-06	5.194E-04	9.831E-03	-0.062	0.006	0.007
rs7192912	61788572	16	T	C	rs1369918	53 *CDH8*	0	intronic	ND	6	5	15	7.647E-06	4.954E-04	5.937E-03	0.061	-0.006	-0.008
rs7196175	61815646	16	G	A	rs1369918	53 *CDH8*	0	intronic	ND	5	1	15	4.864E-06	6.910E-04	4.909E-03	-0.062	0.006	0.008
rs7200723	61976793	16	T	C	rs1369918	53 *CDH8*	0	intronic	ND	7	2	15	1.105E-06	1.140E-02	8.200E-02	0.068	-0.004	-0.005
rs7200802	61980200	16	A	G	rs1369918	53 *CDH8*	0	intronic	ND	3a	5	15	8.392E-07	1.320E-02	6.749E-02	0.068	-0.004	-0.005
rs7202312	61792281	16	G	A	rs1369918	53 *CDH8*	0	intronic	0.404	7	5	15	7.462E-06	3.987E-04	5.564E-03	-0.061	0.006	0.008
rs7206338	61783574	16	T	C	rs1369918	53 *CDH8*	0	intronic	0.785	6	5	15	5.523E-06	5.199E-04	5.817E-03	0.062	-0.006	-0.008
rs7206566	61953413	16	G	A	rs1369918	53 *CDH8:CTC-420A11.2*	0	ncRNA_intronic	0.64	6	14	15	2.532E-05	6.846E-01	ND	-0.062	-0.006	ND
rs7499166	61894041	16	G	T	rs1369918	53 *CDH8*	0	intronic	0.612	7	5	15	7.321E-06	6.098E-04	9.730E-03	-0.061	0.006	0.007
rs8044247	61970623	16	A	G	rs1369918	53 *CDH8:CTC-420A11.2*	0	ncRNA_intronic	4.296	4	5	15	7.321E-07	1.076E-02	5.679E-02	0.069	-0.005	-0.005
rs8044799	61918217	16	G	A	rs1369918	53 *CDH8*	0	intronic	1.094	6	5	15	6.584E-06	4.961E-04	9.889E-03	-0.062	0.006	0.007

rs8048599	61835934	16	A	G	rs1369918	53	*CDH8*	0	intronic	2.919	5	15	15	2.523E-03	3.956E-01	ND	0.046	0.033	ND
rs8049729	61941527	16	G	A	rs1369918	53	*CDH8*	0	intronic	1.628	7	5	15	4.306E-06	6.414E-04	7.102E-03	-0.063	0.006	0.007
rs8057549	61833954	16	A	G	rs1369918	53	*CDH8*	0	intronic	1.668	7	9	15	1.667E-04	4.219E-03	5.031E-02	0.053	-0.005	-0.006
rs8057760	61833473	16	C	T	rs1369918	53	*CDH8*	0	intronic	1.788	6	9	15	1.676E-04	4.148E-03	5.272E-02	-0.053	0.005	0.006
rs8058677	61968305	16	T	C	rs1369918	53	*CDH8:CTC-420A11.2*	0	ncRNA_intronic	0.281	6	7	15	5.947E-07	1.180E-02	4.983E-02	0.069	-0.004	-0.006
rs8059568	61968100	16	C	T	rs1369918	53	*CDH8:CTC-420A11.2*	0	ncRNA_exonic	1.662	7	7	15	6.776E-07	1.142E-02	6.534E-02	-0.069	0.004	0.005
rs8061672	61787127	16	T	C	rs1369918	53	*CDH8*	0	intronic	ND	5	5	15	7.758E-06	1.658E-04	5.406E-03	0.061	-0.006	-0.008
rs954015	61982202	16	G	T	rs1369918	53	*CDH8*	0	intronic	1.282	ND	2	15	8.236E-06	4.622E-02	8.929E-03	-0.065	0.004	0.008
rs9635514	61902555	16	A	G	rs1369918	53	*CDH8*	0	intronic	2.682	7	5	15	1.121E-05	5.852E-04	8.629E-03	0.060	-0.006	-0.007
rs9929274	61834690	16	C	T	rs1369918	53	*CDH8*	0	intronic	0.841	6	9	15	5.026E-06	1.817E-04	7.633E-03	-0.062	0.006	0.007
rs9936398	61979594	16	A	G	rs1369918	53	*CDH8*	0	intronic	ND	5	2	15	8.264E-07	1.392E-02	5.747E-02	0.068	-0.004	-0.005
rs9936428	61979849	16	T	C	rs1369918	53	*CDH8*	0	intronic	0.467	7	1	15	7.985E-06	4.744E-02	1.082E-02	0.065	-0.004	-0.008
rs9939779	61988372	16	A	G	rs1369918	53	*CDH8*	0	intronic	1.465	6	5	15	1.236E-05	5.616E-02	2.366E-02	0.065	-0.004	-0.007
rs117762660	72590903	16	A	G	rs212178	54	*AC004158.2*	0	ncRNA_intronic	8.875	7	5	15	**4.073E-08**	8.347E-06	2.549E-02	0.116	-0.013	-0.010
rs12920842	72211652	16	C	T	rs212178	54	*PMFBP1*	874	upstream	0.97	7	9	15	1.861E-05	1.033E-04	2.809E-03	-0.089	0.011	0.014
rs12920967	72251074	16	C	A	rs212178	54	*RP11-328J14.1*	7389	intergenic	0.083	4	5	15	3.896E-05	1.023E-01	1.813E-02	-0.079	0.004	0.010
rs12921278	72211938	16	C	T	rs212178	54	*PMFBP1*	1160	intergenic	0.051	7	14	15	1.867E-05	7.599E-05	4.642E-03	-0.089	0.011	0.013
rs12923749	72203522	16	G	A	rs212178	54	*PMFBP1*	0	intronic	2.078	5	5	15	1.223E-04	1.958E-01	9.020E-02	-0.074	0.003	0.007
rs12924285	72653326	16	A	G	rs212178	54	*AC004158.2*	0	ncRNA_intronic	3.721	7	5	15	**3.185E-08**	7.610E-06	3.615E-02	0.116	-0.013	-0.010
rs12925943	72207420	16	G	A	rs212178	54	*PMFBP1*	0	intronic	1.661	6	5	15	1.817E-05	1.260E-04	4.216E-03	-0.089	0.011	0.013
rs12926119	72207520	16	G	A	rs212178	54	*PMFBP1*	0	intronic	1.891	7	5	15	1.693E-05	1.188E-04	2.616E-03	-0.089	0.011	0.014
rs12926250	72213316	16	T	G	rs212178	54	*PMFBP1*	2538	intergenic	ND	6	7	15	2.396E-05	8.632E-05	2.451E-03	0.088	-0.011	-0.014
rs12927014	72207843	16	A	G	rs212178	54	*PMFBP1*	0	UTR5	0.23	7	5	15	1.487E-05	1.119E-04	2.280E-03	0.090	-0.011	-0.014
rs12928056	72225574	16	A	C	rs212178	54	*PMFBP1*	14796	intergenic	1.394	5	5	15	9.964E-06	1.585E-05	1.645E-03	0.091	-0.012	-0.015
rs12933376	72256911	16	G	A	rs212178	54	*RP11-328J14.1*	1552	intergenic	1.202	6	2	15	7.715E-06	8.747E-06	8.124E-04	-0.094	0.012	0.016
rs12933482	72189604	16	G	A	rs212178	54	*PMFBP1*	0	intronic	3.583	6	5	15	1.723E-05	1.188E-04	2.388E-03	-0.090	0.011	0.014
rs144616664	72179699	16	A	G	rs212178	54	*PMFBP1*	0	intronic	1.722	7	5	15	5.066E-05	1.249E-01	ND	0.077	-0.031	ND
rs148926303	72617333	16	A	G	rs212178	54	*AC004158.2*	0	ncRNA_intronic	1.473	7	15	15	**2.977E-08**	1.073E-05	2.237E-02	0.117	-0.012	-0.011
rs17604662	72221464	16	G	A	rs212178	54	*PMFBP1*	10686	intergenic	1.523	7	5	15	1.164E-05	3.089E-05	1.800E-03	-0.090	0.012	0.014
rs17604676	72221984	16	A	G	rs212178	54	*PMFBP1*	11206	intergenic	ND	7	5	15	1.227E-05	3.098E-05	2.293E-03	0.090	-0.012	-0.014
rs17667675	72201200	16	C	T	rs212178	54	*PMFBP1*	0	intronic	16.49	5	5	15	9.971E-05	2.028E-01	8.208E-02	-0.075	0.003	0.007
rs212178	72578131	16	G	A	rs212178	54	*AC004158.2*	0	ncRNA_intronic	2.181	ND	5	15	**1.198E-08**	3.371E-06	3.297E-02	-0.117	0.013	0.010
rs34139543	72158477	16	T	C	rs212178	54	*PMFBP1*	0	intronic	5.216	7	1	5	5.615E-06	4.597E-05	2.523E-03	0.093	-0.011	-0.014
rs34682685	72096227	16	A	G	rs212178	54	*TXNL4B:HPR*	0	intronic	ND	7	2	15	6.163E-06	2.792E-05	6.608E-04	0.094	-0.012	-0.016
rs35079155	72206840	16	T	C	rs212178	54	*PMFBP1*	0	intronic	4.756	5	5	15	2.346E-05	1.573E-04	3.699E-03	0.088	-0.011	-0.014
rs35448862	72155580	16	A	G	rs212178	54	*PMFBP1*	0	intronic	0.737	6	5	5	3.332E-04	2.865E-01	5.884E-01	0.065	-0.003	-0.002
rs35449889	72624210	16	T	G	rs212178	54	*AC004158.2*	0	ncRNA_intronic	15.42	2b	2	15	4.762E-07	3.406E-06	3.424E-02	0.121	-0.016	-0.012
rs35930480	72217681	16	A	G	rs212178	54	*PMFBP1*	6903	intergenic	0.67	7	5	15	9.205E-06	3.602E-05	1.881E-03	0.091	-0.011	-0.014
rs36012445	72199122	16	T	C	rs212178	54	*PMFBP1*	0	intronic	17.58	7	5	15	1.285E-04	1.840E-01	8.081E-02	0.074	-0.003	-0.007
rs36061252	72217613	16	G	T	rs212178	54	*PMFBP1*	6835	intergenic	5.244	7	5	15	8.749E-06	3.155E-05	2.216E-03	-0.091	0.012	0.014
rs36125653	72190805	16	A	G	rs212178	54	*PMFBP1*	0	intronic	ND	7	5	15	2.002E-05	1.860E-04	3.203E-03	0.089	-0.011	-0.014
rs3852783	72169076	16	T	G	rs212178	54	*PMFBP1*	0	intronic	0.254	6	5	15	5.805E-05	3.228E-03	1.385E-01	0.077	-0.007	-0.006
rs4788606	72157384	16	G	T	rs212178	54	*PMFBP1*	0	intronic	ND	5	4	5	2.987E-04	3.401E-01	5.594E-01	-0.065	0.002	0.002
rs4788612	72180955	16	A	G	rs212178	54	*PMFBP1*	0	intronic	0.082	6	5	15	8.391E-05	1.942E-03	1.369E-01	0.075	-0.008	-0.006
rs59049640	72172266	16	A	G	rs212178	54	*PMFBP1*	0	intronic	2.062	4	5	15	8.278E-05	2.365E-03	1.240E-01	0.075	-0.008	-0.007
rs71386950	72175927	16	G	A	rs212178	54	*PMFBP1*	0	intronic	6.722	6	5	15	7.443E-05	1.589E-03	1.840E-01	-0.076	0.008	0.006
rs9652628	72191052	16	A	C	rs212178	54	*PMFBP1*	0	intronic	2.254	7	5	15	1.767E-05	1.959E-04	2.988E-03	0.090	-0.010	-0.014
rs9927158	72256156	16	T	C	rs212178	54	*RP11-328J14.1*	2307	intergenic	0.88	7	1	15	4.860E-06	8.641E-06	1.374E-03	0.096	-0.012	-0.015
rs11082239	39186059	18	A	G	rs4144756	55	*RP11-142I20.1*	0	ncRNA_intronic	3.622	7	5	15	1.015E-06	1.279E-01	5.769E-01	0.066	-0.003	-0.002
rs4144756	39305154	18	A	G	rs4144756	55	*RP11-188I24.1*	63972	intergenic	0.643	6	9	15	1.455E-07	2.076E-02	9.107E-01	0.077	-0.004	-0.001
rs964274	39240054	18	T	C	rs4144756	55	*RP11-142I20.1*	27904	intergenic	1.218	ND	7	15	4.686E-06	9.662E-02	9.621E-01	0.062	-0.003	0.000
rs9961367	39252337	18	G	A	rs4144756	55	*RP11-142I20.1*	40187	intergenic	15.23	7	9	15	5.637E-07	1.302E-01	9.131E-01	-0.070	0.003	0.000
rs12624433	44680853	20	A	G	rs2024568	56	*SLC12A5*	0	intronic	7.447	2a	4	14	1.056E-03	5.927E-07	2.187E-04	0.051	-0.010	-0.011
rs13037326	44692598	20	T	C	rs2024568	56	*NCOA5*	0	intronic	ND	3a	4	4	7.047E-04	4.047E-07	1.355E-04	0.052	-0.010	-0.012
rs2024568	44732089	20	T	C	rs6032660	56	*RPL13P2*	3273	intergenic	0.055	6	5	14	1.423E-05	**3.370E-09**	7.279E-05	0.068	-0.012	-0.012
rs2425752	44702120	20	T	C	rs2024568	56	*NCOA5*	0	intronic	1.365	1d	4	5	8.904E-04	3.624E-07	2.127E-04	0.051	-0.010	-0.011
rs4239702	44749251	20	T	C	rs2024568	56	*CD40*	0	intronic	ND	5	1	5	4.811E-04	**4.985E-08**	1.809E-03	0.053	-0.010	-0.009
rs4578918	44721656	20	T	C	rs2024568	56	*NCOA5*	3064	intergenic	0.852	3a	5	14	1.487E-03	2.292E-07	1.362E-04	0.049	-0.010	-0.012
rs6032660	44730245	20	G	A	rs2024568	56	*RPL13P2*	1429	intergenic	1.845	6	5	14	1.361E-05	**5.071E-09**	1.086E-04	-0.068	0.011	0.012
rs6032663	44735263	20	T	G	rs2024568	56	*RPL13P2*	6447	intergenic	2.246	7	5	14	1.542E-05	**1.033E-08**	1.048E-04	0.067	-0.011	-0.012
rs6131010	44724305	20	A	G	rs2024568	56	*RPL13P2*	3851	intergenic	0.961	6	13	14	8.461E-04	8.591E-08	1.785E-04	0.051	-0.010	-0.012
rs9074	44688665	20	A	G	rs2024568	56	*SLC12A5*	0	UTR3	18.31	5	4	5	7.308E-04	3.039E-07	1.897E-04	0.052	-0.010	-0.011
rs992936	18417022	21	T	C	rs987982	57	*NEK4P1*	165764	intergenic	ND	5	5	15	1.783E-07	1.453E-04	2.497E-06	0.072	-0.006	-0.013
rs7276489	42353735	21	T	C	rs2898433	58	*YRDCP3*	117335	intergenic	2.889	6	9	15	3.700E-06	9.210E-06	5.370E-01	0.064	0.008	0.002

Table S8. eQTL lookup of representative SNPs from GTEx in brain tissue

Data was obtained from the GTEx project portal (V7) (http://gtexportal.org). For the eQTL association we report the specific brain region, gene, p-value and effect size. The effect size refers to the effect of the alternative allele relative to the reference allele for each SNP in the human genome reference GRCh37/hg19. BA, Brodmann area.

SNP	Brain Region	Gene	p-value	Effect Size
rs11040501	Caudate basal ganglia	*TRIM51DP*	7.10E-02	-0.51
rs11210931	Caudate basal ganglia	*ARTN*	2.08E-02	-0.42
	Cerebellar Hemisphere	*ARTN*	2.58E-10	-0.62
	Cerebellum	*ARTN*	1.08E-13	-0.72
	Spinal cord cervical c-1	*ARTN*	6.35E-03	-0.49
rs12723279	Caudate basal ganglia	*ARTN*	2.08E-02	-0.42
	Cerebellar Hemisphere	*ARTN*	2.58E-10	-0.62
	Cerebellum	*ARTN*	1.08E-13	-0.72
	Spinal cord cervical c-1	*ARTN*	6.35E-03	-0.49
rs2024568	Frontal Cortex BA9	*CD40*	1.79E-03	0.35
rs212178	Anterior cingulate cortex BA24	*HPR*	1.04E-02	-0.71
	Cerebellar Hemisphere	*HPR*	4.85E-02	-0.74
rs227372	Anterior cingulate cortex BA24	*KRT8P46*	1.99E-03	0.62
	Caudate basal ganglia	*LRRC37A15P*	1.75E-03	0.48
	Cerebellar Hemisphere	*KRT8P46*	3.64E-02	0.39
	Cerebellar Hemisphere	*LRRC37A15P*	5.58E-07	0.54
	Cerebellar Hemisphere	*MANBA*	1.64E-03	0.36
	Cerebellum	*KRT8P46*	4.01E-03	0.42
	Cerebellum	*LRRC37A15P*	5.90E-04	0.48
	Cerebellum	*MANBA*	3.42E-04	0.39
rs28535523	Caudate basal ganglia	*GPX1*	6.40E-02	0.22
	Caudate basal ganglia	*AMT*	5.95E-05	-0.45
	Cerebellar Hemisphere	*AMT*	3.46E-02	-0.35
	Cerebellum	*RP11-694I15.7*	1.14E-01	-0.29
	Cerebellum	*GPX1*	2.18E-03	0.32
	Cerebellum	*AMT*	5.65E-07	-0.51
	Cerebellum	*RNF123*	1.27E-06	0.35
	Cerebellum	*FAM212A*	2.00E-04	0.45
	Cortex	*GPX1*	1.07E-03	0.37
	Cortex	*AMT*	1.18E-04	-0.46
	Frontal Cortex BA9	*AMT*	6.66E-03	-0.36
	Amygdala	*AP006621.5*	2.50E-04	0.52
	Anterior cingulate cortex BA24	*AP006621.5*	2.72E-03	0.44
	Caudate basal ganglia	*AP006621.5*	3.35E-12	0.66
	Caudate basal ganglia	*AP006621.6*	2.02E-05	0.49
	Cerebellar Hemisphere	*AP006621.5*	4.98E-11	0.67
	Cerebellar Hemisphere	*AP006621.6*	3.60E-06	0.60
	Cerebellar Hemisphere	*PIDD1*	4.27E-16	0.64
	Cerebellum	*AP006621.5*	2.69E-13	0.71
	Cerebellum	*AP006621.6*	7.62E-10	0.70
	Cerebellum	*PIDD1*	2.63E-17	0.61

rs28633403	Cerebellum	*PNPLA2*	1.32E-04	-0.34
	Cortex	*AP006621.5*	5.47E-14	0.68
	Cortex	*AP006621.6*	6.90E-05	0.50
	Cortex	*PIDD1*	1.69E-03	0.26
	Cortex	*PNPLA2*	4.46E-07	-0.42
	Frontal Cortex BA9	*AP006621.5*	4.91E-05	0.45
	Frontal Cortex BA9	*PNPLA2*	4.55E-06	-0.58
	Hippocampus	*AP006621.5*	9.40E-05	0.60
	Nucleus accumbens basal ganglia	*AP006621.5*	5.78E-10	0.60
	Nucleus accumbens basal ganglia	*AP006621.6*	5.13E-04	0.51
	Putamen basal ganglia	*AP006621.5*	3.07E-09	0.64
rs3011220	Cerebellar Hemisphere	*ARTN*	2.51E-10	-0.61
	Cerebellum	*ARTN*	1.26E-12	-0.71
	Anterior cingulate cortex BA24	*HPR*	1.16E-03	0.82
	Caudate basal ganglia	*HPR*	7.18E-03	0.64
rs35999374	Cerebellar Hemisphere	*HPR*	6.43E-03	0.85
	Cerebellum	*HPR*	4.59E-03	0.80
	Cortex	*HPR*	2.74E-02	0.71
rs412458	Cerebellar Hemisphere	*CTC-498M16.4*	2.70E-02	-0.57
rs4314918	Cerebellar Hemisphere	*ARTN*	1.63E-09	-0.70
	Cerebellum	*ARTN*	2.28E-15	-0.84
rs4660731	Caudate basal ganglia	*MED8*	1.71E-03	0.31
	Cerebellar Hemisphere	*HYI*	1.51E-02	-0.40
	Cerebellum	*TMEM161B-AS1*	4.14E-02	-0.33
rs4916723	Cortex	*TMEM161B-AS1*	1.74E-02	-0.40
	Hippocampus	*CTC-498M16.4*	1.39E-02	-0.46
	Nucleus accumbens basal ganglia	*CTC-498M16.4*	5.17E-06	-0.48
rs57349798	Caudate basal ganglia	*CCDC167*	4.66E-03	0.24
rs6032660	Frontal Cortex BA9	*CD40*	1.79E-03	0.35
rs62369151	Nucleus accumbens basal ganglia	*CTC-498M16.4*	3.12E-03	-0.40
rs627464	Cerebellar Hemisphere	*CTC-498M16.4*	2.70E-02	-0.57
rs7634587	Caudate basal ganglia	*RP11-115H18.1*	1.84E-05	0.39

Table S9. eQTL lookup of representative SNPs from Braineac

The Braineac database (http://www.braineac.org) reports eQTL data for ten different brain tissues/regions. The minimum p-value for each tissue type and an average p-value (aveALL) over all tissue types is reported. Abbreviations for further brain tissues are: CRBL, cerebellum; FCTX, frontal cortex; HIPP, hippocampus; MEDU, medulla oblongata; OCTX, occipital cortex; PUTM, putamen; SNIG, substantia nigra; TCTX, temporal cortex; THAL, thalamus, WHMT, white matter. exprD is the transcript cluster ID from Affymetrix Human Exon 1.0 ST. We report only genes with aveALL < 0.001.

SNP	Gene	exprID	aveALL	CRBL	FCTX	HIPP	MEDU	OCTX	PUTM	SNIG	TCTX	THAL	WHMT
rs2024568	*ZNF663*	3907907	1.00E-04	8.30E-04	3.00E-02	3.80E-01	6.10E-01	4.10E-01	4.10E-01	7.60E-03	4.20E-01	2.30E-03	3.90E-01
	C20orf123	3907982	4.50E-04	1.50E-01	8.10E-03	3.50E-01	2.40E-01	9.70E-01	3.90E-01	4.90E-02	8.60E-03	4.00E-01	2.50E-01
rs227372	*CENPE*	2780247	3.20E-04	4.60E-01	3.40E-02	9.00E-01	3.00E-01	4.60E-02	1.00E-01	2.10E-02	7.80E-02	1.90E-01	2.40E-01
	GMPPB	t2674653	1.20E-07	4.80E-02	2.40E-02	3.90E-01	3.20E-04	8.50E-04	9.30E-01	5.10E-01	1.50E-03	3.60E-01	1.60E-03
	GMPPB	2674666	7.80E-04	1.50E-02	1.50E-01	9.80E-02	2.90E-04	1.30E-02	8.20E-01	6.40E-01	4.10E-01	1.50E-01	1.10E-02
rs28535523	*DALRD3, MIR191, WDR6*	2673851	3.80E-04	2.60E-01	9.90E-02	7.60E-01	3.80E-01	7.60E-02	1.00E-02	4.60E-02	3.70E-02	1.40E-02	5.70E-01
	AMT, NICN1	2674505	7.40E-04	2.10E-01	9.90E-01	9.00E-01	2.10E-01	9.90E-02	5.10E-03	5.30E-01	3.80E-04	9.90E-01	6.60E-03
	GMPPB	2674657	4.20E-04	9.60E-02	9.20E-03	1.20E-02	1.50E-01	3.90E-02	9.00E-01	9.70E-01	3.90E-02	2.00E-01	3.30E-02
	NS3BP	t3316234	1.50E-14	2.50E-08	2.10E-06	5.90E-06	5.40E-04	6.90E-08	9.20E-03	4.00E-03	1.40E-08	4.00E-09	4.40E-06
	NS3BP	3316248	8.00E-12	1.20E-06	7.70E-04	1.60E-03	1.40E-02	4.40E-04	1.10E-01	2.30E-03	6.10E-06	1.50E-06	2.40E-06
	NS3BP	3316247	1.40E-11	3.90E-05	4.60E-06	1.50E-04	3.60E-03	7.60E-08	1.50E-02	5.70E-02	2.30E-06	4.90E-06	2.10E-02
rs28633403	*PDDC1*	3358372	1.60E-06	2.90E-03	1.60E-02	4.30E-04	1.00E-02	8.00E-04	1.90E-01	4.80E-02	2.60E-03	2.60E-01	1.10E-01
	PNPLA2	t3316287	1.70E-04	1.00E-01	2.50E-04	4.70E-03	6.20E-01	1.50E-02	1.50E-01	8.40E-02	4.90E-05	5.60E-01	4.00E-01
	NS3BP	3316247	9.30E-05	2.20E-02	7.10E-01	1.40E-01	2.90E-01	1.70E-02	1.50E-01	8.20E-01	1.90E-01	9.20E-02	7.30E-02
	PNPLA2	3316297	2.00E-04	1.20E-01	1.20E-04	9.00E-02	6.20E-01	2.00E-04	1.90E-01	7.70E-01	3.70E-04	6.10E-02	5.30E-01
	ANO9	3357938	6.60E-04	8.70E-01	2.60E-01	9.80E-03	4.40E-01	4.50E-02	7.40E-02	2.90E-01	4.80E-02	2.10E-01	3.50E-01
rs57349798	*FTSJD2*	2905529	3.70E-04	7.40E-01	1.60E-01	1.80E-01	3.80E-03	3.00E-01	3.90E-01	1.30E-01	1.90E-02	1.00E-02	9.20E-02

Table S10. eQTL lookup of representative SNPs from CommonMind Consortium Knowledge Portal

The CommonMind Consortium Knowledge Portal (https://www.synapse.org/#!Synapse:syn2759792) reports eQTL data obtained from dorsolateral prefrontal cortex samples. We report only genes with FDR < 0.01.

SNP	Gene_ENSEMBL	Gene	FDR	SNP Position	Expression_Increasing_Allele	Expression_Decreasing_Allele	Gene_Position	Strand	eQTL_type
rs11040501	ENSG00000086205	*FOLH1*	< 0,01	chr11:49753860	G	T	chr11:49168187..49230222	-	cis
	ENSG00000205035	*AC136759.1*	< 0,01	chr11:49753860	T	G	chr11:49580098..49831971	+	cis
rs212178	ENSG00000261701	*HPR*	< 0,01	chr16:72578131	G	A	chr16:72088522..72111145	+	cis
rs227372	ENSG00000248971	*KRT8P46*	< 0,01	chr4:103612917	C	T	chr4:103649903..103651328	-	cis
	ENSG00000138778	*CENPE*	< 0,01	chr4:103612917	T	C	chr4:104026963..104119566	-	cis
	ENSG00000230069	*LRRC37A15P*	< 0,01	chr4:103612917	C	T	chr4:103648431..103651878	-	cis
	ENSG00000164037	*SLC9B1*	< 0,01	chr4:103612917	C	T	chr4:103806205..103940896	-	cis
rs28535523	ENSG00000233276	*GPX1*	< 0,01	chr3:49848414	T	C	chr3:49394609..49396033	-	cis
	ENSG00000186792	*HYAL3*	< 0,01	chr3:49848414	C	T	chr3:50330262..50336899	-	cis
	ENSG00000004534	*RBM6*	< 0,01	chr3:49848414	C	T	chr3:49977440..50137478	+	cis
	ENSG00000173540	*GMPPB*	< 0,01	chr3:49848414	T	C	chr3:49754277..49761384	-	cis
rs28633403	ENSG00000255284	*AP006621.3*	< 0,01	chr11:813264	A	G	chr11:777578..784297	+	cis
	ENSG00000177600	*RPLP2*	< 0,01	chr11:813264	G	A	chr11:809647..812880	+	cis
	ENSG00000177225	*PDDC1*	< 0,01	chr11:813264	A	G	chr11:767220..777501	-	cis
	ENSG00000177106	*EPS8L2*	< 0,01	chr11:813264	A	G	chr11:694438..727727	+	cis
	ENSG00000177595	*PIDD*	< 0,01	chr11:813264	A	G	chr11:799180..809753	-	cis
	ENSG00000177697	*CD151*	< 0,01	chr11:813264	A	G	chr11:832843..839831	+	cis
	ENSG00000177666	*PNPLA2*	< 0,01	chr11:813264	G	A	chr11:818902..825573	+	cis
rs35999374	ENSG00000261701	*HPR*	< 0,01	chr16:72509495	C	T	chr16:72088522..72111145	+	cis
	ENSG00000140829	*DHX38*	< 0,01	chr16:72509495	C	T	chr16:72127461..72146811	+	cis
rs4660731	ENSG00000178922	*HYI*	< 0,01	chr1:43793214	G	A	chr1:43916824..43919660	-	cis
	ENSG00000159479	*MED8*	< 0,01	chr1:43793214	A	G	chr1:43849588..43855479	-	cis
rs4916723	ENSG00000247828	*TMEM161B-AS1*	< 0,01	chr5:87854395	A	C	chr5:87564712..87732502	+	cis
rs57349798	ENSG00000198937	*CCDC167*	< 0,01	chr6:37486052	A	G	chr6:37450696..37467698	-	cis
rs62369151	ENSG00000247828	*TMEM161B-AS1*	< 0,01	chr5:87883503	T	C	chr5:87564712..87732502	+	cis