

Unravelling the Molecular Mechanisms Underlying Variations in Lung Function: an Integrative Genomic Analysis

Supplementary Materials

Ma'en Obeidat¹, Ke Hao², Yohan Bossé^{3,4}, David C. Nickle⁵, Yunlong Nie¹, Dirkje S. Postma⁶, Michel Laviolette⁴, Andrew J. Sandford^{1,7}, Denise D. Daley^{1,7}, James C. Hogg^{1,8}, W Mark Elliott^{1,8}, Nick Fishbane¹, Wim Timens⁹, Pirro G. Hysi¹⁰, Jaakko Kaprio^{11,12,13}, James F. Wilson¹⁴, Jennie Hui^{15,16,17}, Rajesh Rawal^{18,19}, Holger Schulz^{20,21}, Beate Stubbs²², Caroline Hayward²³, Ozren Polasek^{24,14}, Marjo-Riitta Järvelin^{25,26,27,28,29}, Jing Hua Zhao³⁰, Deborah Jarvis^{25,31}, Mika Kähönen³², Nora Franceschini³³, Kari E. North^{33,34}, Daan W. Loth³⁵, Guy G. Brusselle^{36,35}, Albert Vernon Smith^{37,38}, Vilundur Gudnason^{37,38}, Traci M. Bartz³⁹, Jemma B. Wilk⁴⁰, George T. O'Connor^{41,42}, Patricia A. Cassano^{43,44}, Wenbo Tang⁴³, Louise V. Wain^{45,46}, María Soler Artigas^{45,46}, Sina A. Gharib^{47,48}, David P. Strachan⁴⁹, Don D. Sin^{1,7}, Martin D. Tobin^{45,46}, Stephanie J. London⁵⁰, Ian P. Hall⁵¹, Peter D. Paré^{1,7}

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Detailed Methods

Study Cohorts

SpiroMeta-CHARGE lung function GWAS

The study subjects' characteristics and the methods for the SpiroMeta CHARGE study have been described in detail (1). Briefly, meta-analyses for cross-sectional lung function measures were undertaken for approximately 2.5 million HapMap II imputed SNPs across 23 individual GWAS studies with a combined sample size of 48,201 adult individuals of European ancestry. The analyses of FEV₁ and FEV₁/FVC were adjusted for age, age², sex and height, and where appropriate study center and ancestry principal components as covariates. The association testing of the inverse-normal-transformed residuals for FEV₁ and FEV₁/FVC assumed an additive genetic model and was stratified by ever-smoking versus never-smoking status. Meta-analyses were performed employing inverse-variance weighting (using the inverse of the standard error squared as the weight). The study applied genomic control twice at the study level and also at the meta-analysis level to avoid inflation of the test statistics caused by cryptic population structure or relatedness. Before applying genomic control at the meta-analysis level, the inflation factor (λ_{GC}) was 1.12 for FEV₁ and 1.09 for FEV₁/FVC.

Lung tissue eQTL study

The study subjects' demographics and the methods have been described previously in detail (2). Briefly, lung eQTLs were derived from meta-analysis of non-tumor lung tissue eQTLs from 1,111 patients who underwent lung resection surgery at three participating sites: The University of British Columbia Centre for Heart and Lung Innovation (n=339, Vancouver, Canada), Laval University (n=409, Quebec City, Canada) and the University of Groningen (n=363, Groningen, The Netherlands). Whole-genome gene expression was undertaken on these specimens using an Affymetrix custom array testing 51,627 non-control probesets and normalized using RMA (3). The expression data are available at NCBI Gene Expression Omnibus repository (GEO, <http://www.ncbi.nlm.nih.gov/geo>) through accession number GSE23546. Genotyping was performed on DNA extracted from blood or lung tissue using the Illumina Human1M-Duo BeadChip array, and imputation was performed using the HapMap II reference panel providing eQTL data on 2,598,263 million SNPs. Using a Benjamini-Hochberg 10% FDR threshold, the study identified 468,300 eQTLs (18% of all SNPs tested) affecting expression of nearby genes within 1Mb from the transcript start site (*cis*) and 16,677 *trans* eQTLs (further than 1Mb away or on a different chromosome) representing 0.64% of all SNPs tested.

Appropriate ethics approval for the lung function GWAS studies and the lung eQTL studies were received from all participating institutions.

Integration of GWAS and eQTL

To integrate the SNPs which were associated with FEV₁ and/or FEV₁/FVC with gene expression in the lung we first merged the 468,300 *cis*, and the 17,182 *trans* eQTLs with SNPs in the SpiroMeta and CHARGE GWAS (2,419,122 SNPs at N effective >50%). Merged SNPs were then filtered to select those with a $P_{GWAS} < 0.001$ for association with FEV₁ or FEV₁/FVC. This threshold was chosen to allow the identification of potentially biologically relevant yet statistically modest associations. Throughout this manuscript we refer to SNPs associated with FEV₁ or FEV₁/FVC which act as eQTL as lung function eSNPs, and the genes regulated by these SNPs as lung function eSNP-regulated genes. The study design is presented in **Figure 1**. Fold enrichment was calculated as the ratio of the two proportions: The % of GWAS SNPs with $P < 0.001$ that act as eQTLs divided by the proportion of all eQTLs at 10% FDR to all SNPs tested. Enrichment of eSNPs among SpiroMeta-CHARGE GWAS results was calculated using Fisher's exact test.

To validate the enrichment of lung eSNPs among the SpiroMeta-CHARGE GWAS, results from Type II diabetes (T2D) GWAS were overlapped with lung tissue eQTLs. The meta-analysis of T2D diabetes GWAS results for 2,473,442 SNPs from Morris et al. 2012 (4) are publically available at <http://www.broadinstitute.org/diabetes>. The meta-analysis consists of 12,171 T2D cases and 56,862 controls across 12 GWAS from European descent populations. Each GWAS was imputed at up to 2.5M SNPs using Caucasian (CEU) samples from Phase II of the International HapMap Project. Each SNP with MAF>1% passing QC was tested for association with T2D under an additive model after adjustment for study-specific covariates including indicators of population structure. Full details of genotyping, QC and imputation for each study were presented in Morris et al. (4). The authors made available the complete GWAS results for 2,473,442 SNPs at <http://www.broadinstitute.org/diabetes>.

Analyses similar to the SpiroMeta-CHARGE lung function GWAS overlap were repeated for T2D GWAS to obtain the QQ plots for lung and blood T2D eSNPs.

Since enrichment in SNPs proximal to genes is expected among GWAS findings, enrichment was performed for all SNPs within 1Mb region from known genes in the SpiroMeta-CHARGE GWAS results, as compared to the complete GWAS results. This included; 1) Downloading all known genes' coordinates from the UCSC Genome Table, build 36/gh18, 2) Identifying regions that are 1Mb from genes coordinates, 3) Extracting all SNPs in the SpiroMeta-CHARGE GWAS results that fall within these genomic coordinates, which mapped to 2,083,834 SNPs, and 4) Generating a QQ plot comparing the distribution of SNPs within 1Mb of genes to all GWAS SNPs.

Network and pathway enrichment analyses

The lung function eSNP-regulated genes were tested for enrichment in biological processes and pathways using the WEB-based GEne SeT AnaLysis Toolkit (WebGestalt) (5). Gene symbols were used as input for WebGestalt and enrichment for Kyoto Encyclopedia of Genes and Genomes (KEGG) pathways (6) and Gene Ontology (GO) processes (7) was undertaken using a hypergeometric model (8) and adjusting for multiple testing using the Benjamini-Hochberg (BH) method (9).

Association between mRNA levels, FEV₁ and FEV₁/FVC in eQTL study subjects

For lung function eSNP-regulated genes, the relationship between mRNA levels and lung function measures was examined in 727 of the 1,111 subjects in the lung eQTL study. The selected subjects had the appropriate measures of lung function and did not have a diagnosis (other than COPD or lung cancer) likely to influence lung function. The demographics of this subgroup of subjects are shown in Table 1. A linear regression analysis of the level of expression of each probeset versus FEV₁ and FEV₁/FVC, adjusted for age, sex, height and smoking status (never-smoker, ex-smoker, current smoker), was undertaken in each of three cohorts separately, and the results were meta-analyzed using a fixed effects model with inverse variance weighting. Benjamini-Hochberg (BH) method (9) was used to adjust for multiple comparisons.

The direction of effect between mRNA and lung function

The eSNP's allelic effect on FEV₁ and FEV₁/FVC from the GWAS, and on mRNA from the lung eQTL study was used to infer the predicted direction of effect between the mRNA and lung function measures; we refer to this as the "expected" direction. For example if the T allele of a SNP was associated with lower FEV₁ in the GWAS and with higher mRNA levels for a particular gene in the eQTL study then we infer that higher expression for that gene would be associated with lower FEV₁ (i.e. negative direction). Independently, we regressed the mRNA levels of lung function eSNP-regulated genes on FEV₁ and FEV₁/FVC in the 727 eQTL study subjects (see above section), and we refer to the direction of effect for this association as the "observed" direction. For lung function eSNP-regulated probesets that show significant mRNA association with lung function measures, we investigated whether the "observed" direction of effect was concordant with the "expected" direction. Lung function eSNP-regulated probesets that show concordant directions of effect are referred to as "concordant", while those for which the observed direction is opposite to the expected direction (yet significant at a nominal P-value <0.05) are referred to as "discordant". For probesets that show nominal P-value associations ($P < 0.05$) with either FEV₁ or FEV₁/FVC, the % concordance is the ratio between probesets that show concordant direction of effect to the total number of probesets with $P < 0.05$.

SNP x SNP interaction for HHIP eSNP (rs11100860) and the PTCH1 eSNP (rs10512248)

Given the results from GWAS, eQTL and mRNA associations for the receptor PTCH1, and its ligand HHIP, we proposed that a SNP-SNP interaction on lung function may exist for the two lung eSNPs that regulate their expression: HHIP eSNP (rs11100860) and the PTCH1 eSNP (rs10512248). The interaction testing was undertaken in the 727 individuals from the eQTL study using linear regression on FEV₁ and separately FEV₁/FVC ratio, adjusting for age, gender, smoking status and height, and including the interaction term between the two SNPs.

Immunohistochemical staining

To determine the cellular source of nephronectin (NPNT) in human lung, immunohistochemistry was performed on formalin-fixed normal lung tissue from the Centre for Heart Lung Innovation tissue biobank in Vancouver, Canada.

Donor airway sections were deparaffinized and rehydrated and antigens were retrieved by autoclaving the sections in citrate target retrieval solution (Dako) for 15 minutes at 120°C and 30 psi. Endogenous peroxidase was quenched with 3% hydrogen peroxide for 20 minutes and non-specific binding was blocked with 10% goat serum. Slides were incubated overnight with antibodies against human NPNT (Novus Biologicals, Cat# NBP1-83990) or IgG isotype control (Santa Cruz) at 4°C in 5% goat serum. Subsequent to three washes in Tris-buffered saline, sections were incubated with goat anti-rabbit secondary antibody (1:100, Vector Labs) for 2hrs, followed by incubation with streptavidin-horse radish peroxidase (Dako) for 20 minutes. Staining was developed with brown chromogen 3,3'-diaminobenzidine (Dako) and counterstained with hematoxylin (Sigma). Slides were then dehydrated and mounted with Cytoseal 60 (Richard-Allan Scientific).

***In silico* therapeutics using Connectivity Map**

To identify potential compounds that could reverse (or induce) COPD-associated genes, the Connectivity Map (CMap) online tool from the Broad Institute (<http://www.broadinstitute.org/cmap/>) was used (10). CMap hosts a publically available database of transcriptional profiles of existing drugs containing over 7,000 genome-wide transcriptomes from cultured human cells treated with 1,309 bioactive compounds. The CMap online tool uses pattern matching algorithms based on non-parametric rank-ordered Kolmogorov–Smirnov statistics (11). The similarity metric between a test gene signature (a list of genes up- and down-regulated in relation to a phenotype or outcome) and the reference transcriptional profiles is transformed to a ‘connectivity score’ ranging from -1 to +1 to reflect the similarity or dissimilarity of the expression profiles. A positive connectivity score denotes the degree of similarity and a negative score denotes the dissimilarity between the gene signature of the phenotype and the drug or compounds effect on gene expression in specific cell types. A positive score suggests that the compound may act as an “inducer” of the phenotype while a negative score suggests a “therapeutic” for the disease of interest (12). Since CMap expects a gene signature of up- and down-regulated genes as input, we tested the expression levels of lung function eSNP-regulated genes for association with COPD in a case-control design in individuals from the eQTL study who did not have any other disease apart from smoking related lung diseases. The analysis involved using logistic regression adjusting for age, gender, and smoking status (ex, current and never smoker) in each of the three studies separately, and the results were combined using meta-analysis with a fixed effect model and inverse variance weighting. COPD was defined on Global Initiative for Chronic Obstructive Lung Disease (GOLD) criteria (13). COPD cases were defined as: $FEV_1/FVC < 70\%$ and $FEV_1 < 80\%$ predicted (n=428), and non-COPD cases were defined as $FEV_1/FVC > 70\%$ and $FEV_1 > 80\%$ predicted (n=330). 51 lung function eSNP-regulated genes associated with COPD at nominal P-values of < 0.05 were mapped into Affymetrix platform HG-U133A probe set IDs (33 were remapped) to be used as input for the CMap to query compounds that could reverse or augment the airway obstruction gene signature.

Pleiotropy of lung function eSNPs

Lung function eSNPs were tested for association with other diseases or traits by integrating them with the National Human Genome Research Institute (NHGRI) GWAS Catalog, which contains the updated top association results from published GWAS data (<http://www.genome.gov/gwastudies/>, accessed April 2014) (14). All reported associations in the NHGRI GWAS Catalog were used in this analysis without filtering on any P-value thresholds.

ENCODE data analyses

Analyses were undertaken on lung function eSNPs and lung function eSNP-regulated genes using tools designed to query the Encyclopedia of DNA Elements (ENCODE) data. To gain insight into what transcription factors were enriched in the promoters and 5' regions of lung function eSNP-regulated genes the ENCODE ChIP-Seq Significance Tool (15) was used. Gene symbols were used as input, and “all IDs” was selected as the background region for the hypergeometric test. The 500 bp region upstream from the transcription start sites was selected as the analysis window, and all cell lines were used as input. At the SNP level, lung function eSNPs were tested for enrichment in ENCODE functional annotations using HaploReg v2 publically available software (16). All SNPs in the 1000 Genomes Project CEU population were selected as the background set for analysis of enhancer and DNase hypersensitivity site (DHS) enrichment. For the queried lung function eSNPs, HaploReg calculates the coverage of strong enhancers and DHS in each assayed cell type. If this coverage exceeds that of the background set selected (1000 Genomes Project in this case), a binomial test is performed, and enrichment is reported if it passes an uncorrected significance threshold of 0.05. HaploReg calculates enrichment for DHS and enhancer function sites in multiple cell types assayed as part of both ENCODE (17) and Roadmap Epigenome (18) projects.

Fetal human lung development transcriptome study

To identify if lung function eSNP-regulated genes are differentially expressed during human lung development, we downloaded and processed the publically available human lung development transcriptome dataset (19). The study included 38 lung RNA samples from 38 subjects (estimated gestational age 7-22 weeks or 53-154 days post-conception) and is available at NCBI Gene Expression Omnibus (GEO, http://www.ncbi.nlm.nih.gov/geo/geo_webcite), GSE14334 (Affymetrix Human Genome GeneChip U133 Plus 2.0 microarray platform). Expression values were extracted and normalized from .CEL files using the *Affy* package and the Robust Multi-array Average (RMA) method in R/BioConductor (<http://www.bioconductor.org>) which transforms expression signals of each probe into a logarithmic base-2 scale. Differential gene expression analysis relative to gestational age was performed using a linear regression model (lmFit) as implemented in the *Limma* package in R/BioConductor. Over/under representation of LFERGs among genes differentially expressed during human lung development was calculated using Fisher's exact test.

Peripheral blood mononuclear cell (PBMC) eQTL study

We assessed if SpiroMeta-CHARGE SNPs with $P_{\text{GWAS}} < 0.001$ act as *cis*-eQTLs meeting 10% FDR in non-transformed PBMCs obtained from 5,311 European subjects (20). The study mapped eQTLs by testing HapMap II imputed genotypes, and quantile normalized log₂-transformed gene expression values. The study defines a *cis*-acting eQTL if the SNP position is less than 250 kilobases (Kb) away from the midpoint of the probe. *Trans*-eQTL analysis in the PBMC study was restricted to 4,542 SNPs that were associated with diseases/traits and present in the NHGRI GWAS Catalog (accessed 16 July 2011), and included any combination of SNPs and probes, as long as the distance between the SNP position and midpoint of the probe was > 5 megabases (Mb) (20). Given the study's definition of *trans*-eQTL, we focused our integration analysis on *cis*-eQTLs.

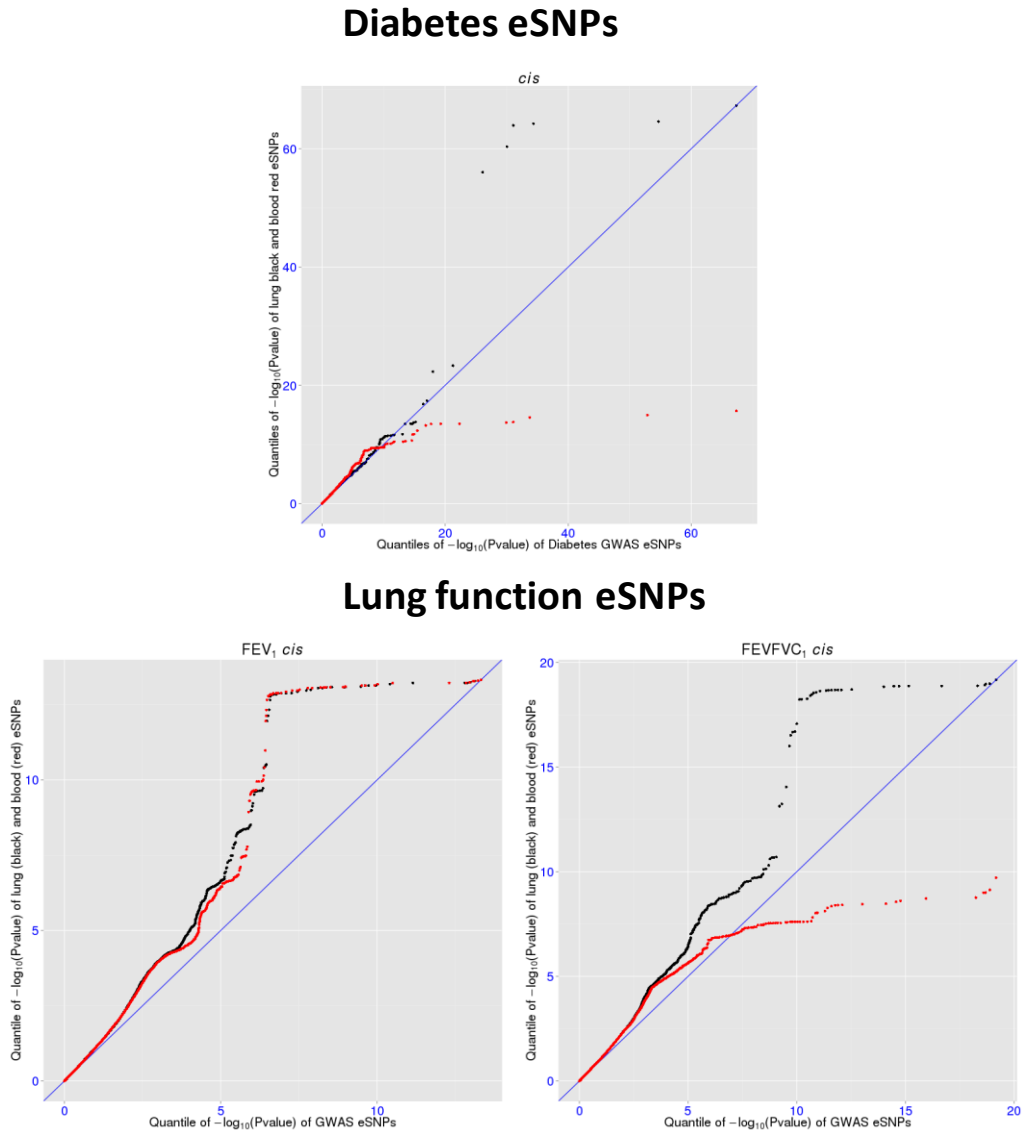
Statistical analysis

All statistical analyses were performed using R version 3.0.1 (<http://www.r-project.org/>)

Supplementary Figures

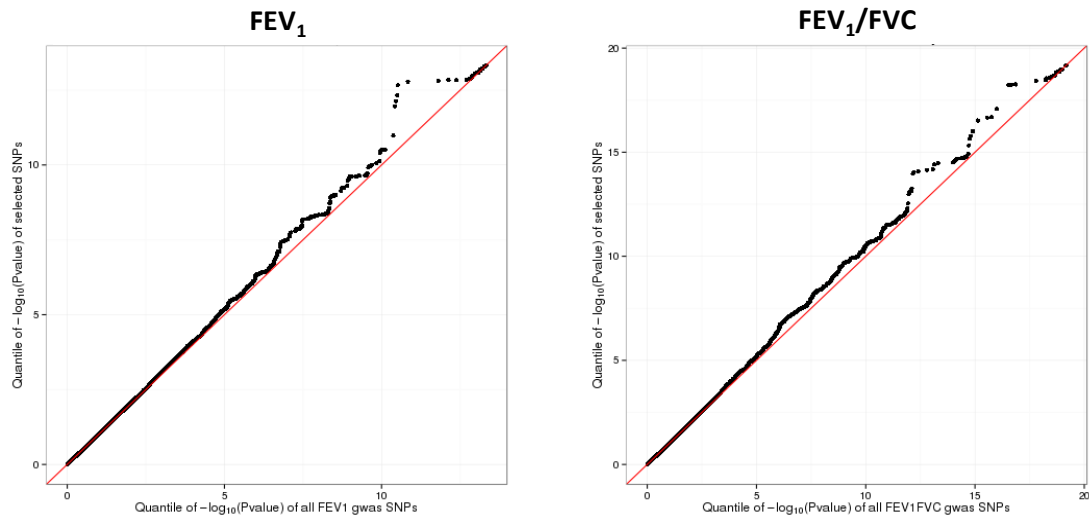
Supplementary Figure 1: Enrichment in lung and blood *cis* eSNPs in the diabetes GWAS from Morris *et al.*

QQ plot for lung and blood *cis* eSNPs in the diabetes GWAS from Morris *et al.* (upper panel) and for comparison, the lung and blood eSNPs in the FEV₁ and FEV₁/FVC GWAS from the present study are shown in the lower panel.



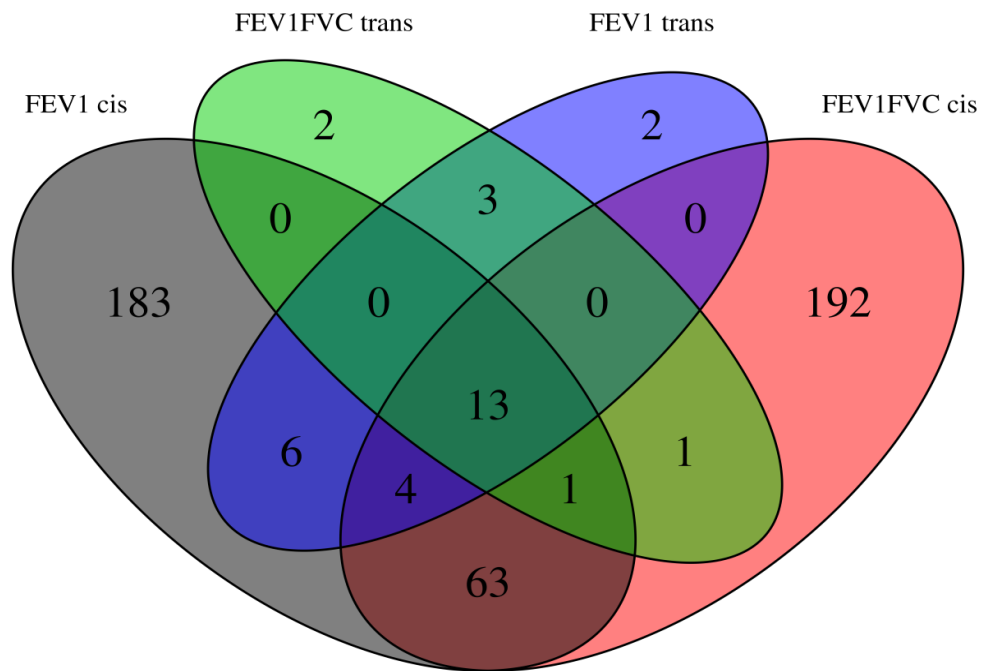
Supplementary Figure 2: Enrichment of SNPs within 1Mb of genes compared to all SNPs tested in the SpiroMeta-CHARGE GWAS meta-analysis of lung function.

The QQ plot shows slight deviation but only for low P-value GWAS SNPs, suggesting an enrichment of SNPs with low GWAS P-values in the region of 1Mb of a gene. However, the deviation is less than that observed in the QQ plots of lung eQTLs. This suggests that the genomic distance alone of eSNPs do not explain the deviation observed for lung eQTLs, and that the large deviation observed for lung eSNPs is due to the tissue type used for eQTL discovery and its relevance to the phenotype under investigation.



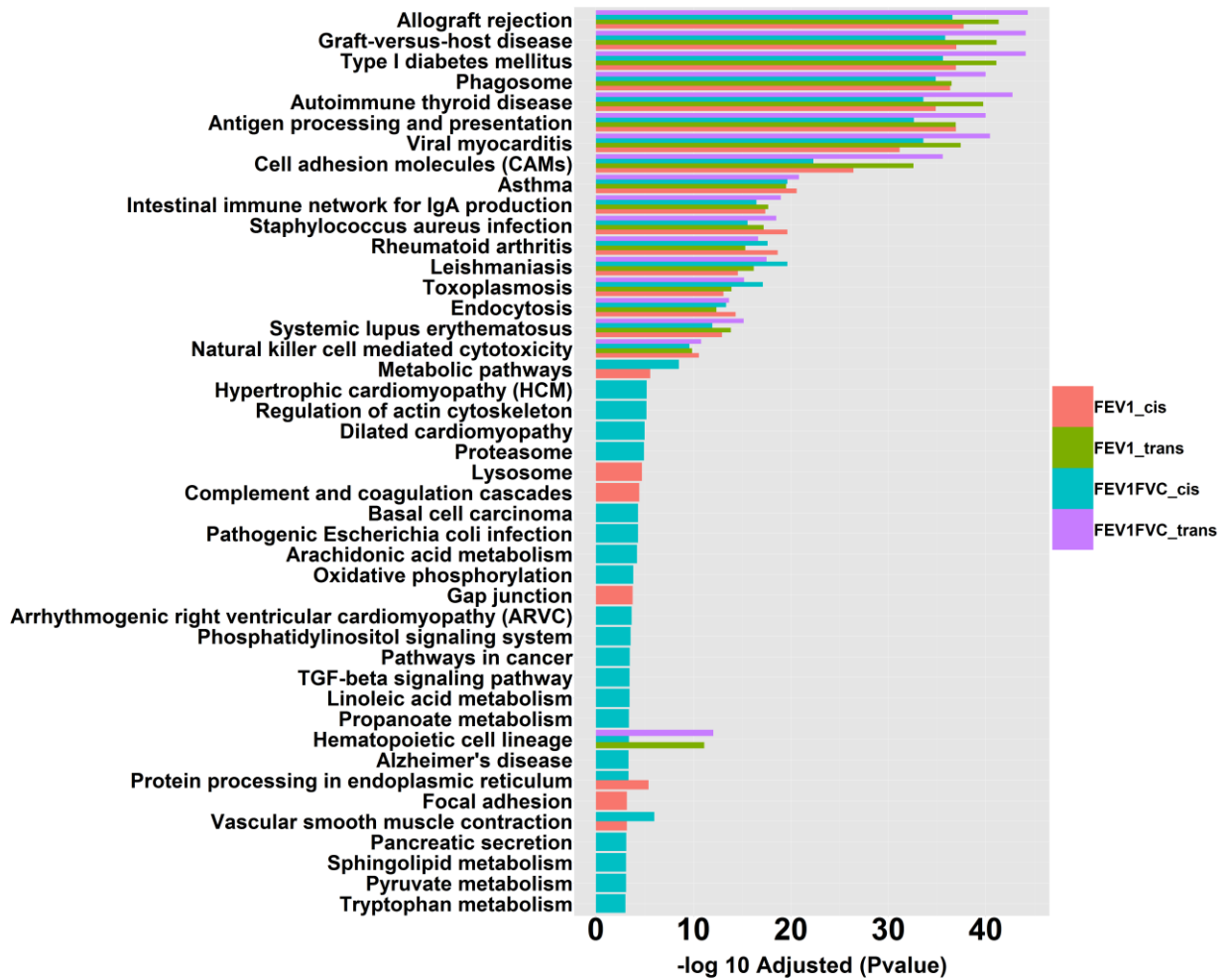
Supplementary Figure 3: Venn diagram for the overlap between lung function eSNPs

The diagram shows the degree of overlap between the FEV₁ and FEV₁/FVC *cis* and *trans* regulated genes. Dark grey represent FEV₁ *cis*, blue FEV₁ *trans*, red FEV₁/FVC *cis* and green FEV₁/FVC *trans*. The numbers indicate the number of genes shared between the overlapping groups.



Supplementary Figure 4: KEGG pathways for lung function eSNP-regulated genes

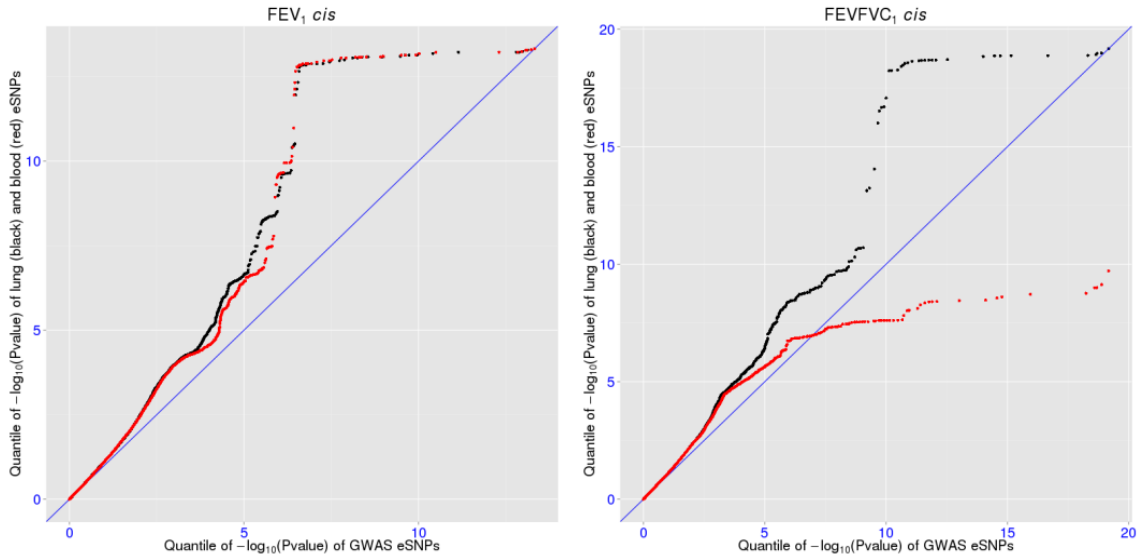
KEGG pathways and their corresponding false discovery rates (adjusted P-values) for enrichment among lung function eSNP-regulated genes. FEV₁ and FEV₁/FVC *cis*- and *trans*-regulated genes are assigned a different color indicated by the color legend to the right.



Supplementary Figure 5: Q-Q plots of blood eSNPs GWAS P values vs. all GWAS SNPs

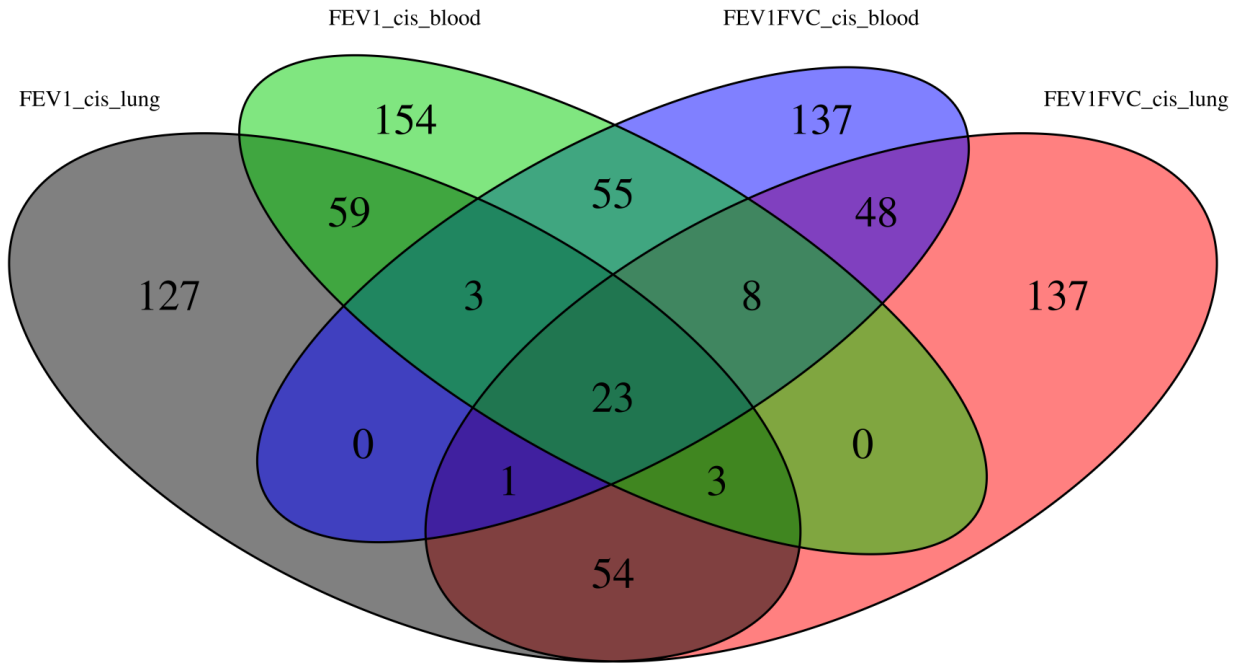
On the Y axis are quantiles of the distribution of lung function GWAS P values for *cis*-eSNPs identified in blood (in red) and lung (in black). On the X axis are the quantiles of the distribution of lung function GWAS P-values for all the variants (~2.4 million).

For FEV₁ (left panel) the systematic deviation of the red line from the expected distribution illustrates that blood *cis*-eSNPs are enriched for association with FEV₁, in a similar pattern to lung eSNPs. The deviation is larger for FEV₁/FVC lung *cis*-eSNPs (black line) suggesting that eSNPs discovered in the lung are more likely to show association with FEV₁/FVC.



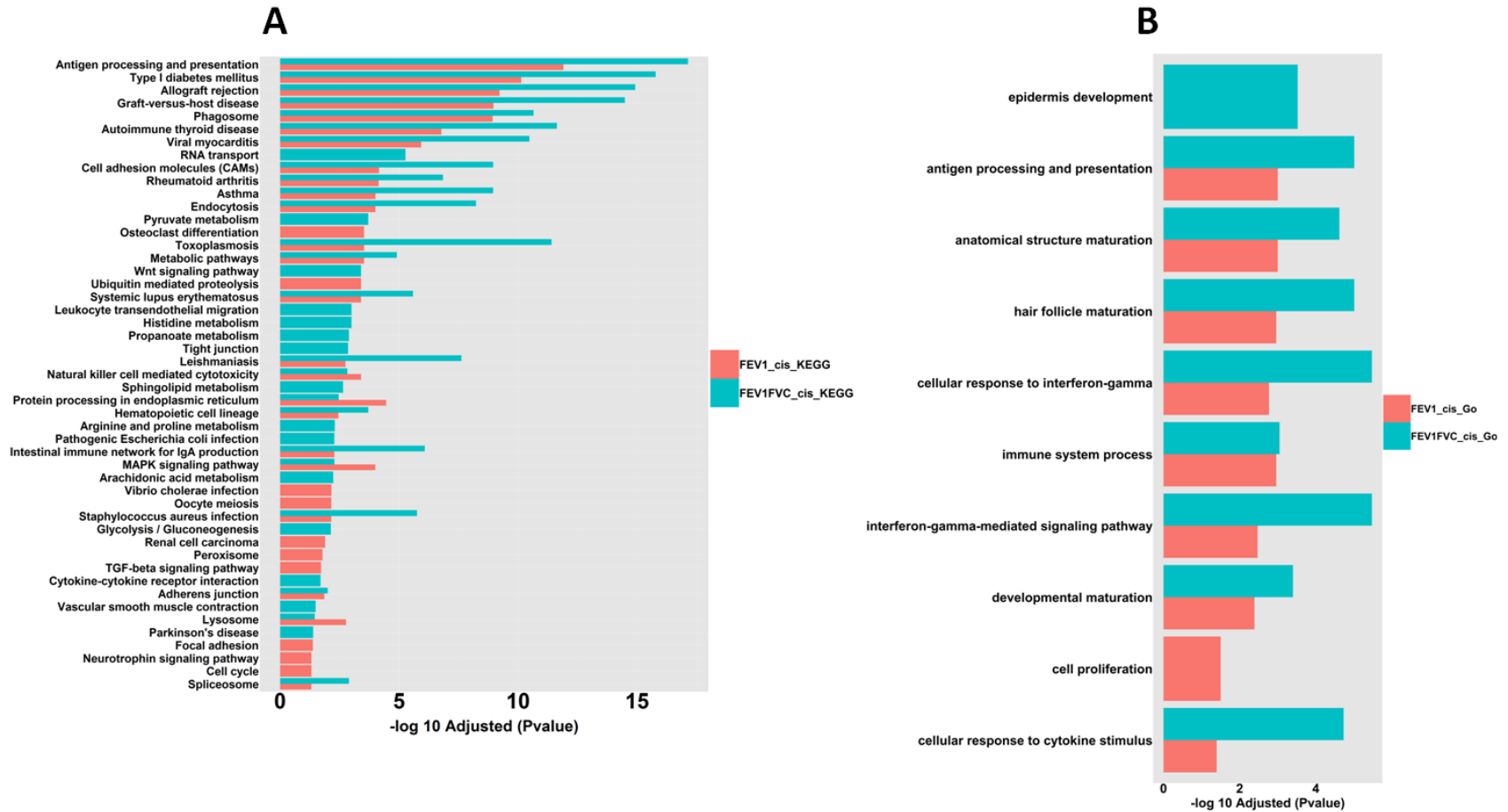
Supplementary Figure 6: Overlap between blood and lung FEV₁ and FEV₁/FVC cis-regulated genes

Venn diagram showing the degree of overlap between the FEV₁ and FEV₁/FVC lung and blood *cis* eSNPs-regulated genes. Dark grey represents FEV₁ lung, green FEV₁ blood, blue FEV₁/FVC blood, red FEV₁/FVC lung. The numbers indicate the number of genes shared between the overlapping groups.



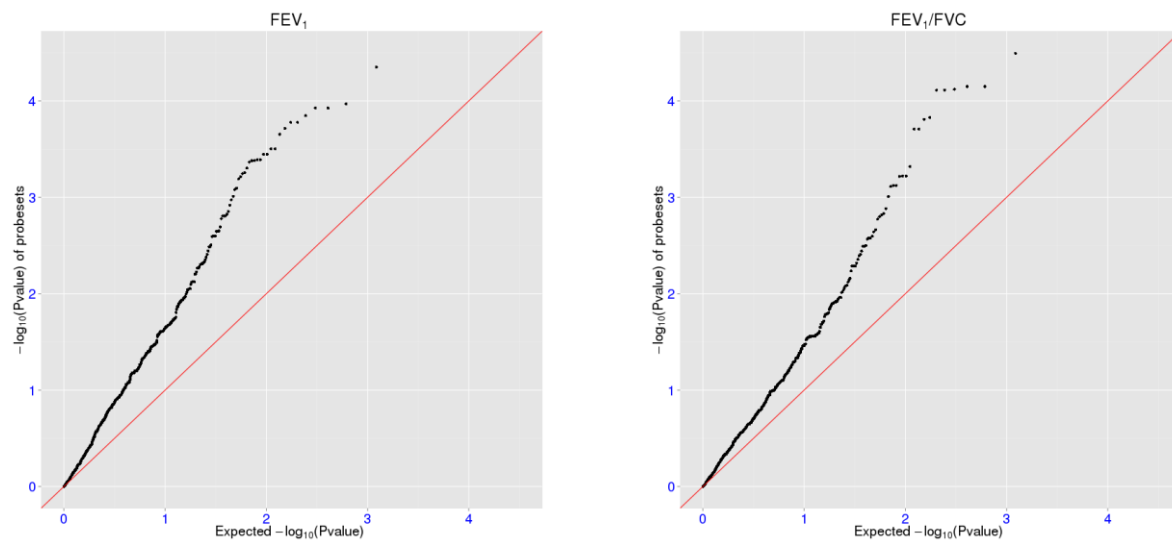
Supplementary Figure 7 (A and B): Blood eSNPs regulated genes KEGG and GO enrichment analyses

KEGG pathways (A) and GO processes (B) and their corresponding false discovery rates(adjusted P-values) for enrichment when FEV₁ and FEV₁/FVC *cis* blood-derived eSNP-regulated genes were used as input. FEV₁ and FEV₁/FVC blood-derived *cis*-regulated genes are assigned a different color indicated by the color legend to the right.



Supplementary Figure 8: Q-Q plots for lung function eSNP-regulated genes' associations with lung function measures in individuals from the eQTL study

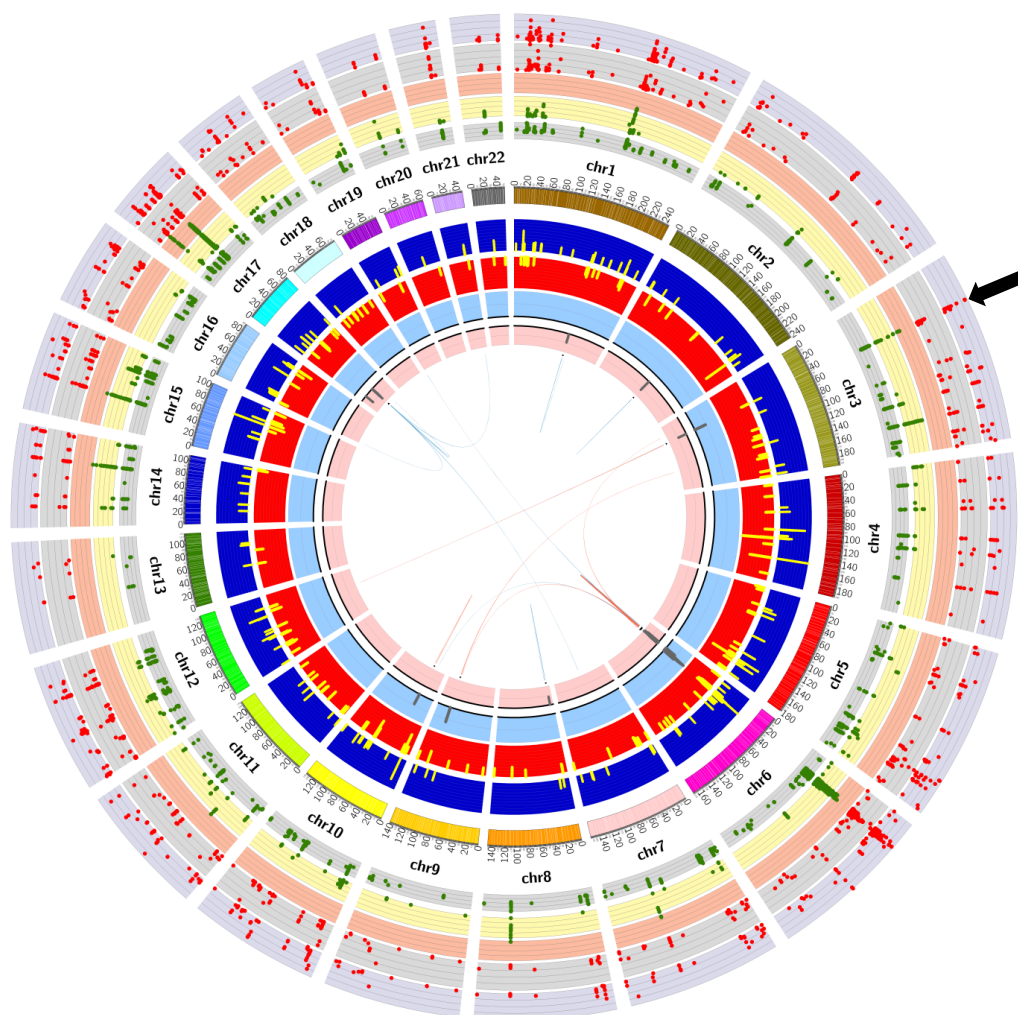
Probesets regulated by lung function eSNPs were tested for association with FEV₁ (left) and FEV₁/FVC (right) in 727 individuals from the eQTL study. On the Y-axis is the distribution of P-values for the probesets' association with lung function plotted against the expected distribution of P-values under the null hypothesis of no association on the X-axis. The systematic departure of the observed P-values from the expected distribution illustrates that the expression of lung function eSNP-regulated genes are enriched for association with lung function in individuals from the eQTL study.



Supplementary Figure 9: Summary of eSNPs association

The graph summarizes all eSNP association data described in this study. The colors of circles are described from the innermost to the outermost circle. The lines in the innermost circle depict the *trans* eSNP regulated genes i.e. they connect the eSNP with the gene it regulates in *trans*; red represents FEV₁/FVC *trans* and the blue FEV₁ *trans*. First circle: P_{GWAS} values for FEV₁ *trans* eSNPs. Second circle: P_{GWAS} values for FEV₁/FVC *trans* eSNPs. Third circle: P_{GWAS} values for FEV₁ *cis* eSNPs. Fourth circle: P_{GWAS} values for FEV₁/FVC *cis* eSNPs. The length of the bars inside these four circles is proportional to the $-\log_{10}$ p value from that particular analysis, so the longer the stronger the association. The height of the points in the circles outside the 22 chromosome labels represent the $-\log_{10}$ P-values from the following analyses: The first three circles represent the P_{eQTL} value for each lung function eSNP, divided into these P-value ranges: grey circle represents $-\log_{10}$ (P_{eQTL} value) range 0-10, yellow $-\log_{10}$ (P_{eQTL} value) range 10-100, and red $-\log_{10}$ (P_{eQTL} value) range 100-600. The last two outer circles represents the $-\log_{10}$ P-values of each lung function eSNP-regulated probeset regressed on FEV₁ in the grey circle and on FEV₁/FVC in the purple circle.

The figure is a way to visualize associations for the three dimensions tested: GWAS, eQTL, and mRNA associations with lung function measures. The graph enables location of regions in the genome with support from all three of these dimensions. For example, the arrow points to a region on chromosome 3 that show good support as indicated by the longer lines for the layers of eQTL and mRNA associations (outer layer).

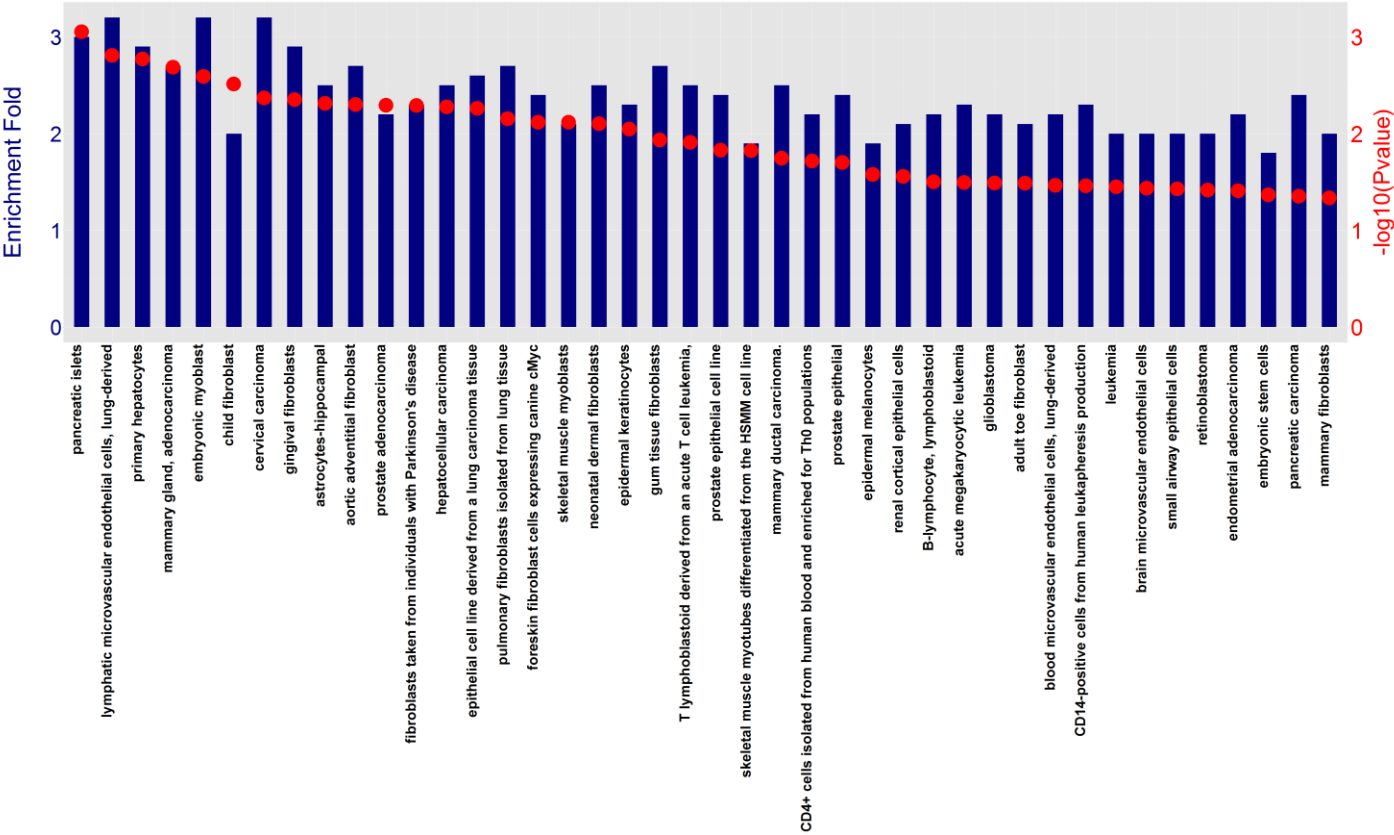


Supplementary Figure 10 (A-D): Lung eSNPs enrichment in functional annotations from ENCODE and Roadmap Epigenome projects

The left Y-axis represents the fold enrichment, in blue for DNase hypersensitivity sites and in green for Enhancers. The right Y-axis represents the $-\log_{10}(P \text{ value})$ for this enrichment. P values $< 2.2 \times 10^{-16}$ were set to 10 on the Y-axis to aid visualization. A: FEV₁ lung *cis*-eSNPs' DNase enrichment in Roadmap Epigenomics. B: FEV₁ lung *cis*-eSNPs' enhancer enrichment in Roadmap Epigenomics. C: FEV₁/FVC lung *cis*-eSNPs' DNase enrichment in Roadmap Epigenomics. D: FEV₁/FVC lung *cis*-eSNPs' enhancer enrichment in Roadmap Epigenomics project.

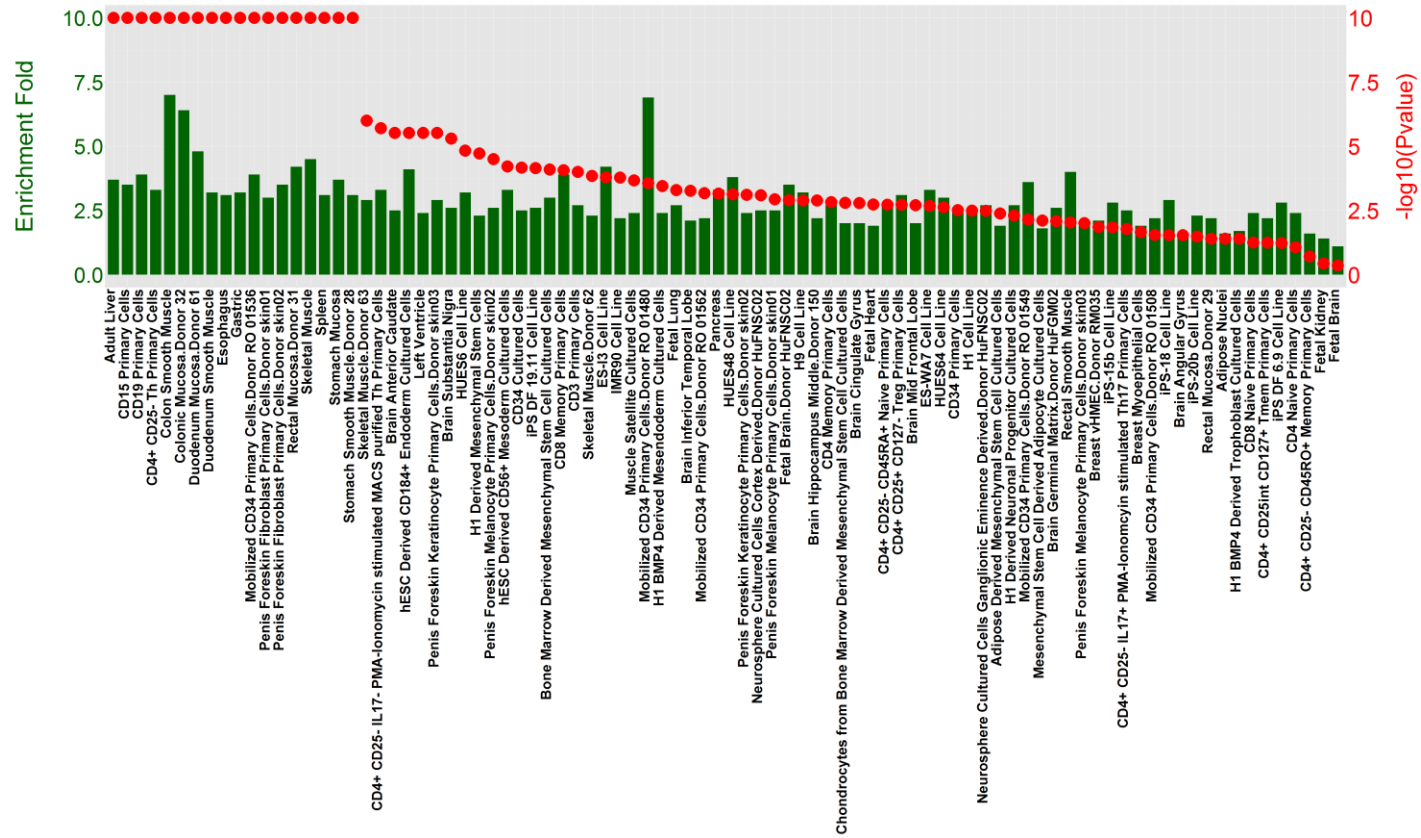
Supplementary Figure 10 A

FEV1 cis Roadmap Epigenomics DNase enrichment



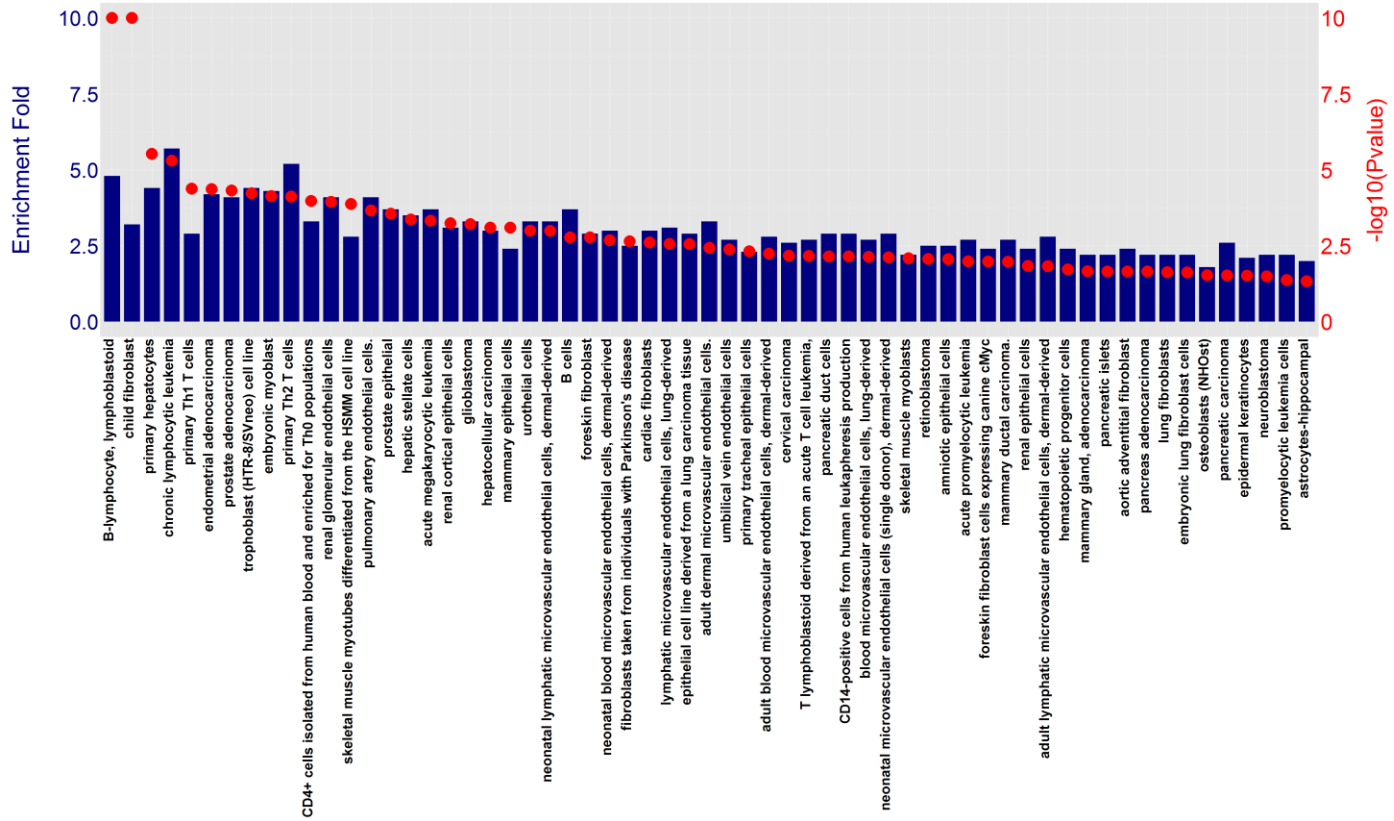
Supplementary Figure 10 B

FEV1 *cis* Roadmap Epigenomics strong enhancers enrichment



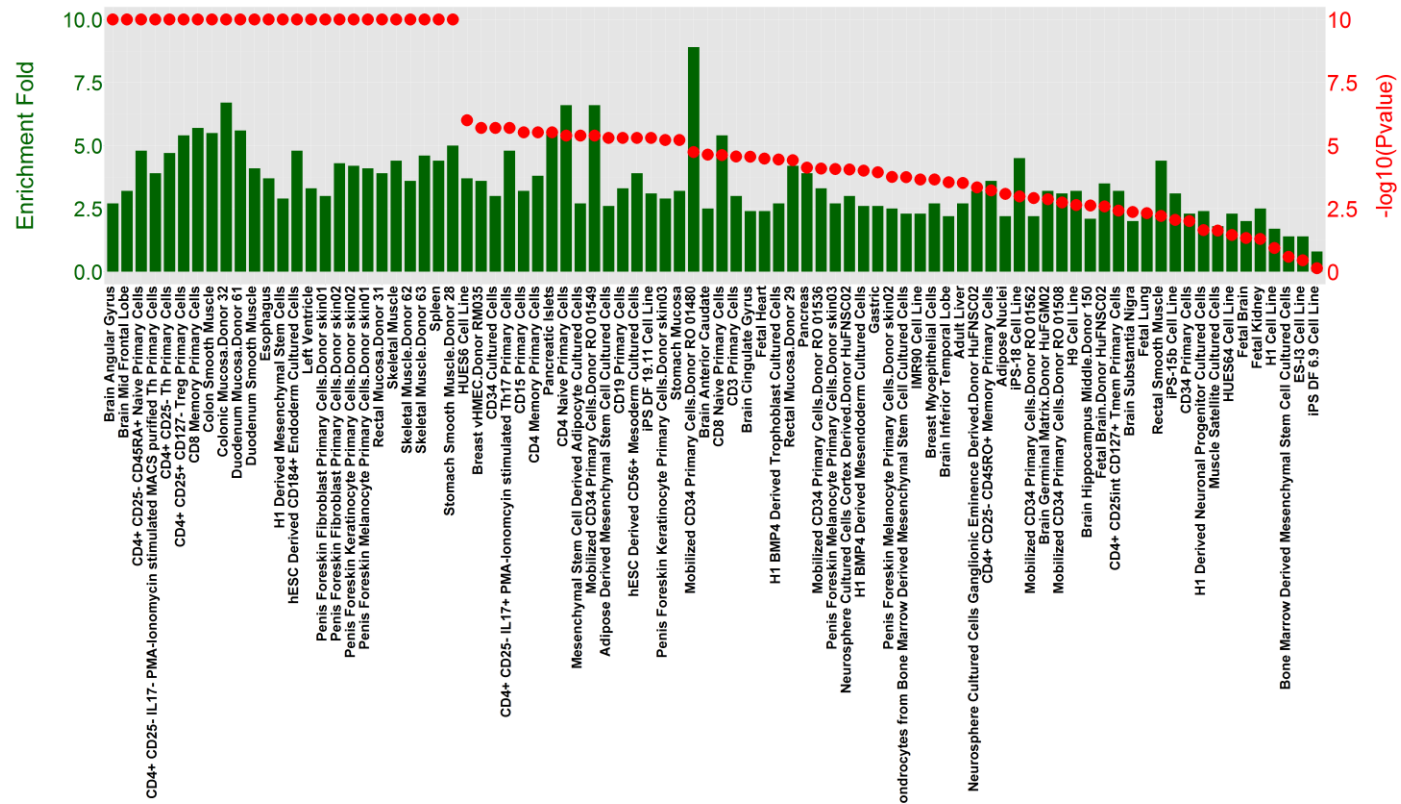
Supplementary Figure 10 C

FEV1/FVC *cis* Roadmap Epigenomics DNase enrichment



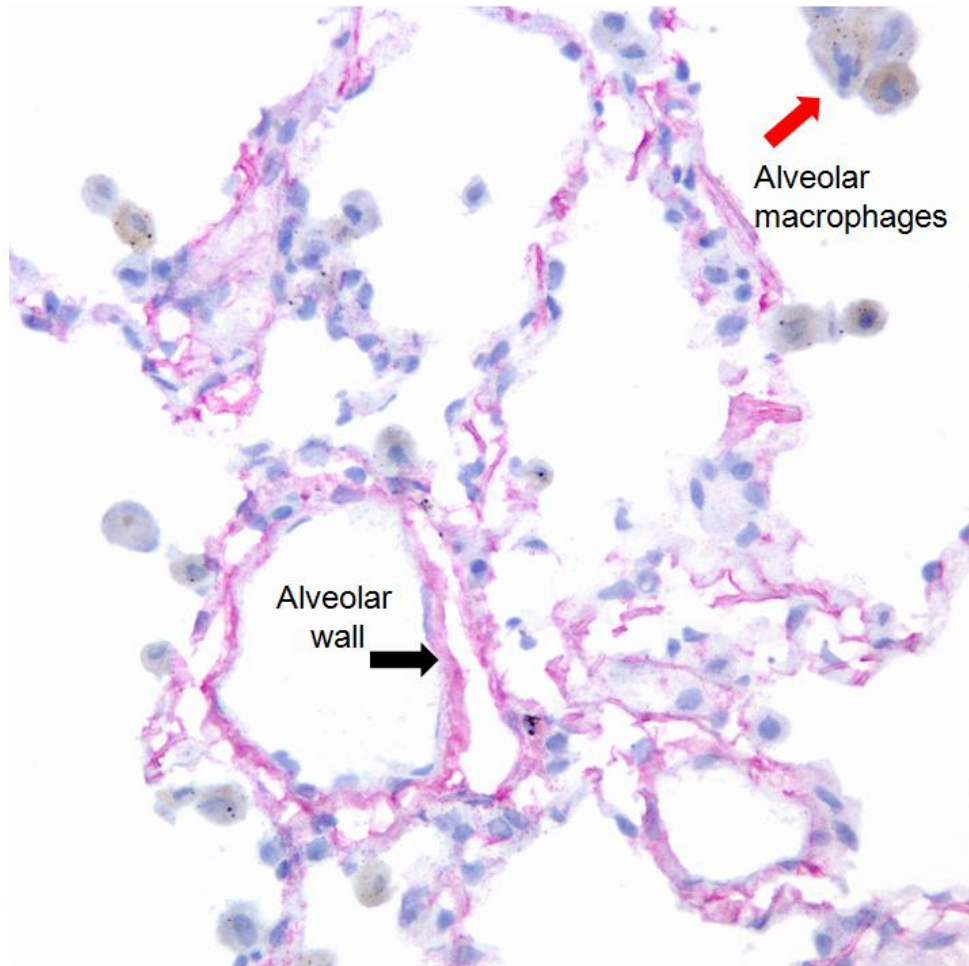
Supplementary Figure 10 D

FEV1/FVC *cis* Roadmap Epigenomics strong enhancers enrichment



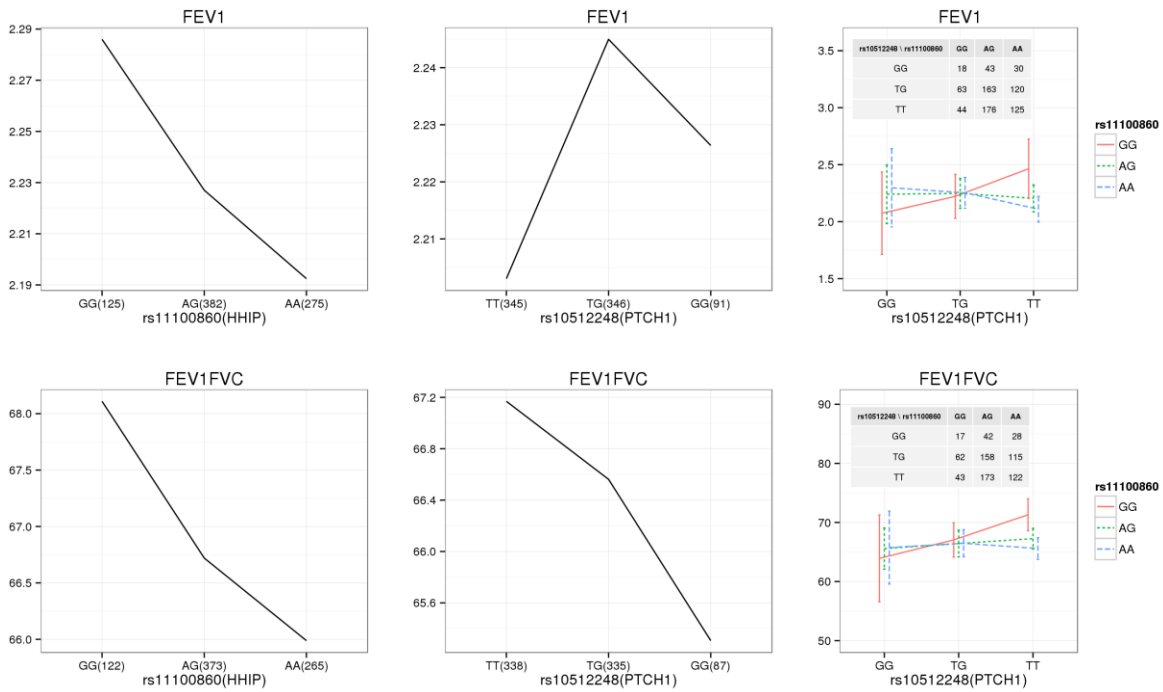
Supplementary Figure 11: Immunohistochemistry staining of NPNT in human lung tissue

Representative image of NPNT expression in human lung parenchyma by immunohistochemistry. Staining was positive in alveolar walls, likely due to endothelial staining although staining of type I alveolar cells may also be present. Not shown is positive staining of vascular endothelium in bronchial microvessels and larger pulmonary arteries. Airway epithelial cells and alveolar macrophages were negative for NPNT staining. This shows that NPNT protein is expressed in relevant cell types.



Supplementary Figure 12: Effect of HHIP and PTCH1 eSNPs on FEV1 (top panel) and FEV1/FVC (bottom panel) in individuals from the eQTL study.

Genotypes are shown on the X-axis and in parentheses the number of individuals carrying this genotype in the eQTL study. On the Y-axis is FEV₁ in litres, or FEV₁/FVC. The third figure to the right in the top and bottom panels shows the effect of the PTCH1 genotype on either FEV₁ or FEV₁/FVC in combination with the HHIP eSNP genotypes. Mean values and their standard errors bars are shown for each genotype.



Enrichment of lung function eSNP-regulated genes in KEGG pathways

A number of KEGG pathways were significantly enriched among lung function eSNP-regulated genes. The strongest enrichment was for antigen processing and presentation, autoimmune diseases, cell adhesion, and asthma. While the most enriched KEGG pathways were shared across the FEV₁ and FEV₁/FVC *cis* and *trans*-regulated genes, a number of pathways were unique to either FEV₁ or FEV₁/FVC. FEV₁/FVC *cis*-regulated genes were specifically enriched in Wnt signalling, linoleic acid metabolism, the TGF-beta signalling pathway, arachidonic acid metabolism, regulation of actin cytoskeleton, and dilated cardiomyopathy. FEV₁ *cis*-regulated genes were, on the other hand, specifically enriched for genes expressed in focal adhesion and gap junctions.

Evaluation of lung function eSNP-regulated genes in fetal lung study

Lung function eSNP-regulated genes were significantly enriched among genes differentially expressed during human fetal lung development (1.61 fold, $P=7.1 \times 10^{-07}$). The relative enrichment fold increased (2.3 fold, $P=4.6 \times 10^{-06}$) when the analysis was restricted to the lung function eSNP-regulated genes whose mRNA level was associated with either FEV₁ or FEV₁/FVC in the eQTL study at a nominal $P < 0.05$ (Supplementary Table 9).

ENCODE enrichment results

Results from the Roadmap Epigenome revealed enrichment of lung function eSNPs- in DNase Hypersensitivity sites (DHS) and enhancer functions in a number of cell types and tissues including fetal lung, and multiple tissues from the brain. For example, FEV₁ *cis*-eSNPs were enriched for strong enhancers in fetal lung tissue, (2.7 fold, $P=5.17 \times 10^{-04}$), FEV₁/FVC *cis*-eSNPs (2.4 fold, $P=4.86 \times 10^{-03}$), and FEV₁/FVC *trans*-eSNPs (5.8 fold, $P=0.046$). FEV₁ *cis*-eSNPs were enriched in DHS in pulmonary fibroblasts (2.7 fold, $P=0.007$), small airway epithelial cells (2 fold, $P=0.037$), and lung carcinoma epithelial cell lines (2.6 fold, $P=0.006$). FEV₁/FVC *cis*-eSNPs were enriched for DHS in pulmonary artery endothelial cells (4.1 fold, $P=0.0002$), lung fibroblasts (2.2 fold, $P=0.023$), primary tracheal epithelial cells (2.3 fold, $P=0.0048$), embryonic lung fibroblast cells (2.2 fold, $P=0.023$), and in a trophoblast cell line (4.4 fold, $P=5.90 \times 10^{-05}$), among others.

Integrative genomics identifies *RBP2*

SNP rs1491106 on chromosome 9 is a lung tissue trans eQTL ($P_{\text{eQTL}} = 9.92 \times 10^{-19}$) for retinal binding protein 2 (*RBP2*) which is on chromosome 3. The same SNP was associated with FEV₁/FVC with $P_{\text{GWAS}} = 6.02 \times 10^{-05}$. The T allele was associated with higher FEV₁/FVC and higher *RBP2* mRNA expression. In concordance with this allelic effect, the mRNA levels of *RBP2* in lung tissue were positively associated with FEV₁/FVC ($P=0.02$) (i.e. higher levels of *RBP2* associated with better FEV₁/FVC).

These relationships provide a potential explanation for the molecular link between the vitamin A pathway and variation in lung function which has been previously proposed (21-25). Checkley *et al.* (24) found that children whose mothers' received supplementary vitamin A during pregnancy had a higher FEV₁ and FVC than those who received placebo. Massaro and Massaro (26) showed that vitamin A treatment could partially reverse elastase-induced emphysema in rats and Paiva *et al.* (27) showed that vitamin A treatment could improve lung function in moderately severe COPD patients whose blood levels of vitamin A were low. On the other hand, two clinical trials have shown no benefit of vitamin A supplementation. Mao *et al.* (28) found no benefit of 3 months of treatment with all trans retinoic acid in 20 patients who had severe COPD and Stolk *et al.* (6) failed to show a significant benefit of an agonist of the γ -type retinoic acid receptor on lung density in patients with moderate-to-severe emphysema secondary to severe alpha 1 antitrypsin deficiency (29).

HHIP and *PTCH1* eSNPs interaction effect on FEV₁ and FEV₁/FVC in the eQTL study

The effect of the *HHIP* eSNP (rs11100860) and the *PTCHI* eSNP (rs10512248) on FEV₁ and FEV₁/FVC in 727 individuals from the eQTL study was separately performed using linear regression adjusting for age, gender, height and smoking status, under an additive genetic model. The results in the table below show association of rs11100860 (*HHIP*) with FEV₁ ($P=0.02$)

SNP	FEV ₁ /FVC beta	FEV ₁ /FVC SE	FEV ₁ /FVC P value	FEV ₁ beta	FEV ₁ SE*	FEV ₁ P value
rs10512248 (<i>PTCHI</i>)	0.23	0.59	0.69	0.01	0.03	0.79
rs11100860 (<i>HHIP</i>)	-0.95	0.57	0.09	-0.08	0.03	0.02

The same test was performed with both SNPs in the model and including an interaction term. When the interaction term was included in the model, SNP rs10512248 (*PTCHI*) showed association with both FEV₁ ($P=0.004$) and FEV₁/FVC ($P=0.007$) with a significant interaction effect on both FEV₁ ($P=0.003$) and FEV₁/FVC ($P=0.006$), see table below.

SNP	FEV ₁ /FVC beta	FEV ₁ /FVC SE	FEV ₁ /FVC P value	FEV ₁ beta	FEV ₁ SE*	FEV ₁ P value
Interaction	-2.352	0.857	0.006	-0.142	0.047	0.003
rs10512248 (<i>PTCHI</i>)	3.195	1.180	0.007	0.187	0.065	0.004
rs11100860 (<i>HHIP</i>)	2.098	1.253	0.094	0.106	0.069	0.122

*SE: standard error

Supplementary Figure 10 above shows the effect of the two SNPs genotypes separately on FEV₁, and FEV₁/FVC in individuals from the eQTL study, and also shows the interaction effect.

Supplementary Tables

Supplementary Table 1: Lung function SNPs enrichment in lung eQTLs at different GWAS P value thresholds

GWAS P value cutoff: The threshold of GWAS P values from SpiroMeta CHARGE lung function association with FEV₁ and FEV₁/FVC. No of GWAS SNPs: Number of SNPs in SpiroMeta-CHARGE GWAS meeting this P value threshold. No of lung eQTLs: Number of lung function SNPs that act as lung eQTLs at the 10% FDR genome-wide eQTL significance. Enrichment Fold: the ratio of the two proportions: The % of GWAS SNPs at the assigned GWAS P value threshold that act as eQTLs divided by the proportion of all eQTLs at 10% FDR to all SNPs tested. P value: Fisher's exact test P value.

GWAS P value cutoff	No of GWAS SNPs	No of lung eQTLs	Enrichment Fold	P value
FEV1 cis				
1.00E-03	6615	3413	2.71	<1E-323
1.00E-04	1906	1186	3.26	<1E-323
1.00E-05	586	348	3.1	4.14E-102
1.00E-06	288	181	3.28	2.64E-59
1.00E-07	143	95	3.47	7.67E-35
1.00E-08	109	81	3.88	1.58E-35
FEV1 trans				
1.00E-03	6615	1568	37.87	<1E-323
1.00E-04	1906	648	51.3	<1E-323
1.00E-05	586	41	10.18	1.23E-27
1.00E-06	288	15	7.57	2.62E-09
1.00E-07	143	1	1.01	6.28E-01
1.00E-08	109	0	NA	NA
FEV1/FVC cis				
1.00E-03	5239	2205	2.2	4.1E-318
1.00E-04	1759	973	2.89	1.35E-248
1.00E-05	835	378	2.37	5.03E-66
1.00E-06	455	189	2.17	4.13E-28

1.00E-07	346	141	2.13	1.68E-20
1.00E-08	252	102	2.12	4.66E-15
FEV1/FVC <i>trans</i>				
1.00E-03	5239	442	12.55	3.11E-316
1.00E-04	1759	183	15.26	6.97E-148
1.00E-05	835	84	14.67	1.34E-67
1.00E-06	455	15	4.79	9.84E-07
1.00E-07	346	9	3.78	7.76E-04
1.00E-08	252	7	4.03	2.01E-03

Supplementary Table 2: FEV₁ cis-eSNPs

Table shows the list of FEV₁ cis-acting lung eSNPs. eSNP: a SNP that is associated with either FEV₁ or FEV₁/FVC from the SpiroMeta GWAS with $P_{\text{GWAS}} < 0.001$ and acts as a *cis* or *trans* eQTL at 10% FDR in lung tissue. eSNP-regulated probeset: Probeset whose expression is regulated by that particular eSNP. GWAS SNP alleles: Two alleles from the GWAS study. GWAS reference allele: Allele used to derive the association test statistics. Reference allele freq in HapMap: The frequency of the GWAS reference allele from the HapMap II project in the Caucasian population (CEU). Chr: chromosome. SNP position: position using NCBI36/hg18 coordinates. GWAS_Pval_FEV₁: eSNP P-value for association with FEV₁ from the GWAS study. eQTL Z meta: The Z score of meta analysis results of eQTL study across the three datasets (UBC, Groningen, Laval). eQTL P-value: the eQTL P-value from the lung eQTL study. Log10.pvalue.meta: Log10 of the eQTL P-value. Sequence source ID: the mRNA transcript ID, or the cDNA clone ID that the probeset sequence maps to. Gene Symbol: eSNP regulated gene symbol. eQTL alleles: Two alleles from the eQTL study. GWAS_noncoded_alleles: Alternate allele that was not used to derive the association test statistics in the GWAS study. GWAS_coded_alleles: Allele used to derive the association test statistics in the GWAS study. eQTL_noncoded_alleles: Alternate allele that was not used to derive the association test statistics in the eQTL study. eQTL_coded_alleles: Allele used to derive the association test statistics in the eQTL study. Expected direction of effect of mRNA with lung function: The direction of effect of mRNA on lung function as inferred from the SNP effect on mRNA (from the eQTL study) and on lung function (from the GWAS study).

FEV ₁ cis lung eSNPs																		
eSNP	eSNP regulated probeset	GWAS SNP alleles	GWAS Reference allele	Reference allele freq in HapMap	Chr	SNP Position	GWAS_Pval_FEV1	eQTL Z meta	eQTL P value	log10.pvalue.meta	sequence source ID	Gene Symbol	eQTL-alleles	GWAS_noncoded_alleles	GWAS_coded_alleles	eQTL_noncoded_alleles	eQTL_coded_alleles	Expected Direction Of Effect of mRNA with lung function
rs17331332	100129915_TGI_at	A/G	G	0.923	4	107027556	1.11E-12	4.502	6.73E-06	-5.1719	NM_001033047	NPNT	A_G	A	G	A	G	negative
rs1063281	100145096_TGI_at	C/T	T	0.608	2	218376977	2.43E-10	-4.309	1.64E-05	-4.7852	NM_022648	TNS1	T_C	C	T	T	C	positive
rs10906097	100149333_TGI_at	G/T	T	0.567	10	12283827	3.32E-09	6.077	1.22E-09	-8.912	NM_006023	CDC123	G_T	G	T	G	T	negative
rs12509311	100139086_TGI_at	C/T	T	0.405	4	145698112	4.27E-09	-5.216	1.83E-07	-6.738	AK024689	HHIP	C_T	C	T	C	T	negative
rs13141641	100133899_TGI_at	C/T	T	0.564	4	145725906	1.40E-08	-4.211	2.54E-05	-4.5948	AK124396	Maps to cDNA clone close to HHIP	T_C	C	T	T	C	negative
rs13141641	100311674_TGI_at	C/T	T	0.564	4	145725906	1.40E-08	-4.095	4.22E-05	-4.3745	AK098525	HHIP	T_C	C	T	T	C	negative
rs13141641	100148028_TGI_at	C/T	T	0.564	4	145725906	1.40E-08	-4.071	4.68E-05	-4.3296	NM_022475	HHIP	T_C	C	T	T	C	negative
rs11001819	100144009_TGI_at	A/G	G	0.5	10	77985230	1.42E-08	5.722	1.05E-08	-7.9777	AK125328	C10orf11	A_G	A	G	A	G	negative
rs2855812	100125842_TGI_at	G/T	T	0.258	6	31580699	8.57E-08	4.986	6.16E-07	-6.2101	NM_147130	NCR3	G_T	G	T	G	T	negative
rs1150691	100139132_TGI_at	A/G	G	0.38	6	28276012	4.34E-07	-4.019	5.85E-05	-4.2332	BC035154		G_A	A	G	G	A	negative
rs7727320	100134215_TGI_at	C/G	G	0.733	5	147812764	6.84E-07	-6.58	4.7E-11	-10.3275	NM_030793	FBXO38	G_C	C	G	G	C	negative
rs2579762	100124184_TGI_at	A/C	C	0.414	10	77988885	7.15E-07	-6.978	2.99E-12	-11.5237	DA084722		C_A	A	C	C	A	negative
rs10055430	100313079_TGI_at	A/G	G	0.276	5	147777732	1.02E-06	12.615	1.75E-36	-35.7581	AF251055	FBXO38	A_G	A	G	A	G	positive

rs2036527	100148404_TGI_at	A/G	G	0.575	15	76638670	2.40E-06	6.946	3.76E-12	-11.4251	NM_002789	PSMA4	G_A	A	G	G	A	negative
rs599707	100139818_TGI_at	C/T	T	0.093	6	31916415	8.76E-06	5.467	4.58E-08	-7.3394	NM_080686	BAT2	T_C	C	T	T	C	positive
rs10125253	100161091_TGI_at	C/T	T	0.625	9	117052662	9.99E-06	4.414	1.01E-05	-4.9936	BQ447217	TNC	C_T	C	T	C	T	negative
rs6478156	100161091_TGI_at	G/T	T	0.625	9	117064513	1.04E-05	4.414	1.01E-05	-4.9936	BQ447217	TNC	G_T	G	T	G	T	negative
rs4634439	100127556_TGI_at	A/G	G	0.142	6	26705983	1.22E-05	4.343	1.41E-05	-4.8522	BX640949	TRIM38	G_A	A	G	G	A	positive
rs1150721	100161813_TGI_at	C/G	G	0.655	6	28363019	1.45E-05	7.267	3.68E-13	-12.4347	NM_032507	PGBD1	G_C	C	G	G	C	negative
rs11150044	100138939_TGI_at	A/C	C	0.664	16	76758793	1.49E-05	5.22	1.79E-07	-6.7473	NM_016373	WWOX	A_C	A	C	A	C	positive
rs1401705	100136657_TGI_at	A/G	G	0.508	2	17421443	1.76E-05	7.202	5.93E-13	-12.2267	NM_182625	GEN1	G_A	A	G	G	A	positive
rs1401705	100158297_TGI_at	A/G	G	0.508	2	17421443	1.76E-05	5.438	5.39E-08	-7.2686	ENST00000381254	GEN1	G_A	A	G	G	A	positive
rs3094086	100125489_TGI_at	A/G	G	0.822	6	31027370	1.86E-05	7.907	2.64E-15	-14.5789	NM_205854	SFTA2	G_A	A	G	G	A	negative
rs3132581	100125489_TGI_at	A/G	G	0.839	6	31021437	1.96E-05	-7.907	2.64E-15	-14.5789	NM_205854	SFTA2	A_G	A	G	A	G	negative
rs9264740	100311757_TGI_at	C/T	T	0.673	6	31352310	2.15E-05	8.067	7.2E-16	-15.1424	AK095029		T_C	C	T	T	C	positive
rs3117574	100126143_TGI_at	A/G	G	0.9	6	31833209	2.15E-05	8.012	1.13E-15	-14.9475	NM_019101	APOM	A_G	A	G	A	G	positive
rs12214383	100312805_TGI_at	C/T	T	0.398	6	28331710	2.27E-05	5.796	6.79E-09	-8.168	AI251212	ZNF165	C_T	C	T	C	T	negative
rs931794	100156434_TGI_at	A/G	G	0.433	15	76613235	2.38E-05	-10.6	3.11E-26	-25.5072	NM_000745	CHRNA5	A_G	A	G	A	G	positive
rs2844559	100144394_TGI_at	C/T	T	0.167	6	31448054	3.09E-05	4.674	2.95E-06	-5.5296	NM_006674	HCP5	T_C	C	T	T	C	positive
rs9788721	100154936_TGI_at	C/T	T	0.567	15	76589924	3.14E-05	-16.42	1.35E-60	-59.8686	AF147302		T_C	C	T	T	C	positive
rs11650615	100139309_TGI_at	C/G	G	0.271	17	43478697	3.27E-05	4.418	9.96E-06	-5.0017	NM_176096	CDK5RAP3	C_G	C	G	C	G	positive
rs1864325	100161408_TGI_at	C/T	T	0.195	17	41333623	3.59E-05	-22.26	9E-110	-109.045	AY526356	MAPT	T_C	C	T	T	C	negative
rs1864325	100148039_TGI_at	C/T	T	0.195	17	41333623	3.59E-05	8.262	1.43E-16	-15.8439	NM_015443	KIAA1267	T_C	C	T	T	C	positive
rs7636047	100157337_TGI_at	A/G	G	0.858	3	197550966	3.59E-05	5.547	2.91E-08	-7.5367	AK097068		A_G	A	G	A	G	positive
rs2524067	100309484_TGI_at	A/G	G	0.175	6	31353800	3.76E-05	16.162	9.35E-59	-58.0293	BC041078	HLA-C	G_A	A	G	G	A	positive
rs17650872	100123425_TGI_at	G/T	T	0.2	17	41395352	3.81E-05	22.463	9.6E-112	-111.02	NM_016834	MAPT	G_T	G	T	G	T	negative
rs1225710	100139670_TGI_at	C/T	T	0.608	6	28208619	3.84E-05	-6.382	1.75E-10	-9.7575	Z11773	ZNF187	T_C	C	T	T	C	positive
rs3812637	100160231_TGI_at	C/T	T	0.725	10	75238852	3.85E-05	4.065	4.8E-05	-4.3185	NM_001001791	C10orf55	C_T	C	T	C	T	negative
rs2622320	100149232_TGI_at	A/T	T	0.608	6	28223315	3.93E-05	4.495	6.96E-06	-5.1576	ENST00000303290		T_A	A	T	T	A	negative
rs12577642	100308139_TGI_at	A/T	T	0.271	11	43685110	4.20E-05	22.33	1.9E-110	-109.724	BG741638	HSD17B12	T_A	A	T	T	A	positive
rs12577642	100148450_TGI_at	A/T	T	0.271	11	43685110	4.20E-05	-7.391	1.46E-13	-12.8365	NM_016142	HSD17B12	T_A	A	T	T	A	negative
rs2524084	100304000_TGI_at	A/G	G	0.308	6	31349618	4.21E-05	-12.6	2.08E-36	-35.6809	ENST00000376242	PSORS1C3	G_A	A	G	G	A	negative
rs2524084	100313121_TGI_at	A/G	G	0.308	6	31349618	4.21E-05	7.423	1.14E-13	-12.9412	AF196489	HLA-C	G_A	A	G	G	A	positive
rs389884	100148822_TGI_at	A/G	G	0.092	6	32048876	4.25E-05	5.307	1.11E-07	-6.9529	NM_004557	NOTCH4	G_A	A	G	G	A	positive

rs8023669	100157269_ TGL_at	C/T	T	0.617	15	81511661	4.56E-05	4.251	2.13E-05	-4.672	CA427225		C_T	C	T	C	T	negative
rs11257655	100142010_ TGL_at	C/T	T	0.259	10	12347900	5.19E-05	14.628	1.86E-48	-47.7301	NM_153498	CAMK1D	C_T	C	T	C	T	negative
rs11257655	100139207_ TGL_at	C/T	T	0.259	10	12347900	5.19E-05	13.121	2.5E-39	-38.6027	BU616230	CAMK1D	C_T	C	T	C	T	negative
rs11257655	100301887_ TGL_at	C/T	T	0.259	10	12347900	5.19E-05	11.328	9.54E-30	-29.0206	NM_020397	CAMK1D	C_T	C	T	C	T	negative
rs11257655	100161388_ TGL_at	C/T	T	0.259	10	12347900	5.19E-05	5.37	7.87E-08	-7.1038	AW900148		C_T	C	T	C	T	negative
rs12947718	100159134_ TGL_at	A/G	G	0.866	17	40848884	5.98E-05	-13.19	1.03E-39	-38.9877	NM_014798	PLEKHM1	A_G	A	G	A	G	negative
rs1150753	100145052_ TGL_at	A/G	G	0.1	6	32167845	6.02E-05	-6.072	1.26E-09	-8.8985	NM_002121	HLA-DPB1	G_A	A	G	G	A	negative
rs12448215	100160204_ TGL_at	G/T	T	0.075	16	46890605	6.28E-05	6.251	4.08E-10	-9.3895	AK056051		T_G	G	T	T	G	positive
rs12448215	100305657_ TGL_at	G/T	T	0.075	16	46890605	6.28E-05	5.672	1.41E-08	-7.8503	CB161851	SIAH1	T_G	G	T	T	G	positive
rs12448215	100311980_ TGL_at	G/T	T	0.075	16	46890605	6.28E-05	5.581	2.39E-08	-7.6213	AK056051		T_G	G	T	T	G	positive
rs12448215	100139154_ TGL_at	G/T	T	0.075	16	46890605	6.28E-05	5.299	1.16E-07	-6.9339	AK225895	SIAH1	T_G	G	T	T	G	positive
rs12448215	100300599_ TGL_at	G/T	T	0.075	16	46890605	6.28E-05	-4.322	1.55E-05	-4.8107	T95917	LONP2	T_G	G	T	T	G	negative
rs12445647	100134381_ TGL_at	G/T	T	0.065	16	46894281	6.38E-05	4.274	1.92E-05	-4.7167	AK074775	LONP2	G_T	G	T	G	T	negative
rs1858173	100162004_ TGL_at	A/C	C	0.233	12	101151741	6.65E-05	4.136	3.53E-05	-4.4517	NM_017915	C12orf48	A_C	A	C	A	C	positive
rs11635618	100306620_ TGL_at	G/T	T	0.517	15	81305985	6.67E-05	12.671	8.56E-37	-36.0674	BX091006		G_T	G	T	G	T	negative
rs2076030	100311443_ TGL_at	A/G	G	0.867	6	26534835	6.95E-05	-5.908	3.46E-09	-8.4606	AK225208	LRRC16A	G_A	A	G	G	A	positive
rs9878996	100145663_ TGL_at	G/T	T	0.808	3	120392228	7.25E-05	-4.41	1.03E-05	-4.9856	NM_212543	B4GALT4	G_T	G	T	G	T	positive
rs11853359	100310339_ TGL_at	A/G	G	0.702	15	69408578	7.28E-05	-7.124	1.05E-12	-11.9795	AY358143	THSD4	A_G	A	G	A	G	negative
rs11853359	100142979_ TGL_at	A/G	G	0.702	15	69408578	7.28E-05	-6.894	5.43E-12	-11.2656	NM_024817	THSD4	A_G	A	G	A	G	negative
rs11853359	100308491_ TGL_at	A/G	G	0.702	15	69408578	7.28E-05	-4.305	1.67E-05	-4.7773	BF969690	THSD4	A_G	A	G	A	G	negative
rs750214	100143321_ TGL_at	A/C	C	0.617	15	81531940	7.39E-05	5.133	2.85E-07	-6.5449	AK055438		C_A	A	C	C	A	positive
rs17689182	100135158_ TGL_at	C/T	T	0.195	17	41139356	7.71E-05	36.037	2.2E-284	-283.657	ENST00000329477	LRRC37A4	T_C	C	T	T	C	positive
rs826033	100150651_ TGL_at	A/G	G	0.432	11	73456591	7.85E-05	-5.748	9.03E-09	-8.0443	NM_025155	PAAF1	A_G	A	G	A	G	negative
rs826033	100133960_ TGL_at	A/G	G	0.432	11	73456591	7.85E-05	-4.676	2.93E-06	-5.5338	NM_182904	P4HA3	A_G	A	G	A	G	negative
rs418891	100130540_ TGL_at	G/T	T	0.2	17	41049321	8.22E-05	35.462	1.9E-275	-274.722	CA391893		G_T	G	T	G	T	negative
rs418891	100149004_ TGL_at	G/T	T	0.2	17	41049321	8.22E-05	22.603	4E-113	-112.393	BC017896		G_T	G	T	G	T	negative
rs418891	100151558_ TGL_at	G/T	T	0.2	17	41049321	8.22E-05	18.205	4.71E-74	-73.3269	AK094165		G_T	G	T	G	T	negative
rs17763086	100306395_ TGL_at	G/T	T	0.793	17	41261262	8.29E-05	-10.91	1.07E-27	-26.9718	BX418439	MAPT	G_T	G	T	G	T	negative
rs3095151	100151371_ TGL_at	G/T	T	0.25	6	31008129	8.59E-05	8.279	1.24E-16	-15.9058	NM_020442	VARS2	T_G	G	T	T	G	positive
rs3131787	100151371_ TGL_at	C/T	T	0.742	6	31007503	8.79E-05	-8.279	1.24E-16	-15.9058	NM_020442	VARS2	T_C	C	T	T	C	positive
rs2393667	100141839_ TGL_at	C/T	T	0.864	6	26529324	8.93E-05	4.65	3.32E-06	-5.4789	BC014021	BTN2A2	C_T	C	T	C	T	positive

rs10223421	100313880_ TGL_at	G/T	T	0.176	6	31498034	9.23E-05	-7.5	6.38E-14	-13.1951	AA381265		T_G	G	T	T	G	positive
rs3814354	100306705_ TGL_at	A/G	G	0.593	2	135428127	9.42E-05	5.35	8.8E-08	-7.0557	BU733840	CCNT2	G_A	A	G	G	A	positive
rs2844518	100305045_ TGL_at	C/T	T	0.377	6	31480548	9.71E-05	-12.68	7.54E-37	-36.1228	D83543		T_C	C	T	T	C	negative
rs2844518	100162706_ TGL_at	C/T	T	0.377	6	31480548	9.71E-05	-12.03	2.47E-33	-32.607	D83543		T_C	C	T	T	C	negative
rs8057015	100145017_ TGL_at	A/C	C	0.375	16	76717963	9.79E-05	4.035	5.46E-05	-4.2628	DN993123		A_C	A	C	A	C	positive
rs6901158	100305836_ TGL_at	C/T	T	0.11	6	32313920	9.92E-05	-5.524	3.31E-08	-7.4797	CA308455	HLA-DPA1	C_T	C	T	C	T	positive
rs7132592	100125980_ TGL_at	C/T	T	0.383	12	68178815	0.00010242	4.523	6.1E-06	-5.2149	NM_006530	YEATS4	T_C	C	T	T	C	positive
rs11079720	100308628_ TGL_at	A/G	G	0.816	17	41195788	0.00010277	43.691	0	-416.252	BF475443	LRRC37A4	A_G	A	G	A	G	positive
rs442439	100129584_ TGL_at	A/G	G	0.675	6	28680985	0.00010616	-11.34	8.6E-30	-29.0653	ENST00000377186		A_G	A	G	A	G	negative
rs11257555	100305260_ TGL_at	A/C	C	0.483	10	12217424	0.00010851	6.143	8.1E-10	-9.0916	CR607709	SEC61A2	A_C	A	C	A	C	positive
rs826039	100145368_ TGL_at	A/G	G	0.525	11	73460613	0.00010916	-4.974	6.56E-07	-6.1832	BC035599	C2CD3	G_A	A	G	G	A	negative
rs7251154	100141551_ TGL_at	A/G	G	0.612	19	46997781	0.00011202	-4.192	2.77E-05	-4.5583	NM_001817	CEACAM4	A_G	A	G	A	G	negative
rs710789	100303765_ TGL_at	C/T	T	0.617	12	68190618	0.00011273	5.199	2E-07	-6.6982	M21119	LYZ	C_T	C	T	C	T	positive
rs3131038	100139688_ TGL_at	A/G	G	0.742	6	30842059	0.00011297	9.808	1.04E-22	-21.9829	AK055657	HCG18	A_G	A	G	A	G	positive
rs3131038	100308127_ TGL_at	A/G	G	0.742	6	30842059	0.00011297	9.661	4.42E-22	-21.355	BG746649	HCG18	A_G	A	G	A	G	positive
rs1942055	100133530_ TGL_at	C/G	G	0.508	2	135215394	0.00011828	4.869	1.12E-06	-5.9501	NM_032143	ZRANB3	C_G	C	G	C	G	negative
rs12569964	100303975_ TGL_at	C/T	T	0.483	10	12213610	0.00012057	-10.02	1.21E-23	-22.918	ENST00000378952	NUDT5	C_T	C	T	C	T	negative
rs12569964	100154198_ TGL_at	C/T	T	0.483	10	12213610	0.00012057	-9.972	2.02E-23	-22.6944	NM_014142	NUDT5	C_T	C	T	C	T	negative
rs12569964	100129724_ TGL_at	C/T	T	0.483	10	12213610	0.00012057	9.101	8.95E-20	-19.0482	NM_018144	SEC61A2	C_T	C	T	C	T	positive
rs17034954	100152575_ TGL_at	C/T	T	0.042	2	68180003	0.00012059	-9.478	2.59E-21	-20.5864	BI462997		T_C	C	T	T	C	positive
rs17034954	100162510_ TGL_at	C/T	T	0.042	2	68180003	0.00012059	-7.123	1.06E-12	-11.9763	NM_006333		T_C	C	T	T	C	positive
rs7308243	100303765_ TGL_at	A/G	G	0.381	12	68176103	0.00012836	5.199	2E-07	-6.6982	M21119	LYZ	G_A	A	G	G	A	positive
rs1708678	100151676_ TGL_at	A/G	G	0.642	4	90195490	0.00013375	6.966	3.26E-12	-11.4867	AA993242		A_G	A	G	A	G	positive
rs2046071	100301598_ TGL_at	A/G	G	0.533	15	81304105	0.00013535	4.498	6.86E-06	-5.1637	NM_031452	FAM103A1	G_A	A	G	G	A	positive
rs12150048	100304816_ TGL_at	C/G	G	0.789	17	41183242	0.00013738	-4.802	1.57E-06	-5.8039	DB041795	LRRC37A	C_G	C	G	C	G	negative
rs12150048	100312557_ TGL_at	C/G	G	0.789	17	41183242	0.00013738	-4.605	4.12E-06	-5.3846	AI690186	ARL17P1	C_G	C	G	C	G	negative
rs12230584	100303765_ TGL_at	A/G	G	0.646	12	68174084	0.0001378	5.199	2E-07	-6.6982	M21119	LYZ	A_G	A	G	A	G	positive
rs10784784	100303765_ TGL_at	C/T	T	0.617	12	68166150	0.00013883	5.199	2E-07	-6.6982	M21119	LYZ	C_T	C	T	C	T	positive
rs3130934	100131217_ TGL_at	A/C	C	0.596	6	31236531	0.00014213	-4.114	3.89E-05	-4.4102	AK056160	HCG18	C_A	A	C	C	A	negative
rs9283891	100305324_ TGL_at	A/G	G	0.845	6	31496209	0.00014467	15.066	2.71E-51	-50.567	CN480851		A_G	A	G	A	G	negative
rs9283891	100304001_ TGL_at	A/G	G	0.845	6	31496209	0.00014467	14.799	1.49E-49	-48.8278	ENST00000376222		A_G	A	G	A	G	negative

rs9896052	100140717_ TGL_at	A/C	C	0.683	17	70930457	0.00015845	9.378	6.72E-21	-20.1724	AK091010	GRB2	A_C	A	C	A	C	negative
rs9896052	100304907_ TGL_at	A/C	C	0.683	17	70930457	0.00015845	8.982	2.66E-19	-18.5753	DA646246	GRB2	A_C	A	C	A	C	negative
rs9896052	100158391_ TGL_at	A/C	C	0.683	17	70930457	0.00015845	-5.261	1.43E-07	-6.8438	NM_014595	NT5C	A_C	A	C	A	C	positive
rs9896052	100143655_ TGL_at	A/C	C	0.683	17	70930457	0.00015845	-4.325	1.53E-05	-4.8166	NM_024844	NUP85	A_C	A	C	A	C	positive
rs11590781	100151793_ TGL_at	C/T	T	0.904	1	219995825	0.0001634	-4.82	1.44E-06	-5.843	BX114699		C_T	C	T	C	T	positive
rs8042238	100129239_ TGL_at	C/T	T	0.638	15	76561326	0.00016609	4.365	1.27E-05	-4.8958	AW118658	IREB2	C_T	C	T	C	T	negative
rs2844645	100159175_ TGL_at	A/G	G	0.467	6	31123161	0.0001689	-10.56	4.66E-26	-25.3312	NM_001010 909	MUC21	A_G	A	G	A	G	negative
rs2844645	100309111_ TGL_at	A/G	G	0.467	6	31123161	0.0001689	-9.211	3.23E-20	-19.4907	BC105735	MUC21	A_G	A	G	A	G	negative
rs6819993	100149386_ TGL_at	A/G	G	0.8	4	119558277	0.00017183	4.534	5.79E-06	-5.2375	ACA24	SNORA24	A_G	A	G	A	G	positive
rs799237	100155445_ TGL_at	C/T	T	0.6	7	27092792	0.00017217	-5.981	2.22E-09	-8.6541	BC031342		C_T	C	T	C	T	positive
rs799237	100308581_ TGL_at	C/T	T	0.6	7	27092792	0.00017217	-5.717	1.08E-08	-7.9649	BF593636		C_T	C	T	C	T	positive
rs799237	100160131_ TGL_at	C/T	T	0.6	7	27092792	0.00017217	-4.122	3.76E-05	-4.4253	AK022839		C_T	C	T	C	T	positive
rs3129975	100139688_ TGL_at	C/T	T	0.742	6	30840033	0.00017238	9.808	1.04E-22	-21.9829	AK055657	HCG18	C_T	C	T	C	T	positive
rs3129975	100308127_ TGL_at	C/T	T	0.742	6	30840033	0.00017238	9.661	4.42E-22	-21.355	BG746649	HCG18	C_T	C	T	C	T	positive
rs2734983	100309580_ TGL_at	A/T	T	0.824	6	29928930	0.00017723	-20.08	1.06E-89	-88.9745	BC035659		A_T	A	T	A	T	negative
rs2517866	100309580_ TGL_at	C/T	T	0.208	6	29929011	0.00017851	-20.08	1.06E-89	-88.9745	BC035659		T_C	C	T	T	C	negative
rs2517866	100303756_ TGL_at	C/T	T	0.208	6	29929011	0.00017851	-10.57	4.19E-26	-25.3774	M27539	HLA-A	T_C	C	T	T	C	negative
rs3094127	100300978_ TGL_at	A/G	G	0.192	6	30805426	0.00017891	-10.88	1.37E-27	-26.862	NM_178014	TUBB	G_A	A	G	G	A	negative
rs929615	100304233_ TGL_at	G/T	T	0.783	12	9793766	0.00018214	-5.988	2.12E-09	-8.6728	ENST000002 90855	CLEC2D	G_T	G	T	G	T	negative
rs1050025	100309376_ TGL_at	C/T	T	0.217	17	43503154	0.00019238	-4.622	3.8E-06	-5.4202	BC052601	MRPL10	T_C	C	T	T	C	positive
rs701320	100158468_ TGL_at	A/G	G	0.161	7	83444454	0.00019863	-6.542	6.07E-11	-10.2168	NM_006080	SEMA3A	G_A	A	G	G	A	positive
rs3756208	100148345_ TGL_at	A/G	G	0.342	4	24742767	0.00020002	-5.196	2.04E-07	-6.6912	AK095450		A_G	A	G	A	G	positive
rs9483768	100133258_ TGL_at	A/C	C	0.19	6	135240980	0.00020582	-5.087	3.64E-07	-6.4392	ENST000003 67826	HBS1L	A_C	A	C	A	C	positive
rs10500284	100127522_ TGL_at	A/T	T	0.408	19	47046784	0.00020907	-5.125	2.98E-07	-6.5265	NM_001022	RPS19	T_A	A	T	T	A	negative
rs10500284	100314018_ TGL_at	A/T	T	0.408	19	47046784	0.00020907	-4.839	1.3E-06	-5.8844	AA040468	RPS19	T_A	A	T	T	A	negative
rs9258636	100309580_ TGL_at	C/T	T	0.193	6	29929816	0.00021101	-20.08	1.06E-89	-88.9745	BC035659		T_C	C	T	T	C	negative
rs9258636	100303756_ TGL_at	C/T	T	0.193	6	29929816	0.00021101	-10.57	4.19E-26	-25.3774	M27539	HLA-A	T_C	C	T	T	C	negative
rs2292217	100130519_ TGL_at	C/T	T	0.458	12	50151246	0.00021109	-6.796	1.08E-11	-10.9683	NM_004858	SLC4A8	C_T	C	T	C	T	positive
rs3094121	100139688_ TGL_at	C/T	T	0.258	6	30838939	0.00021627	9.808	1.04E-22	-21.9829	AK055657	HCG18	T_C	C	T	T	C	positive
rs3094121	100308127_ TGL_at	C/T	T	0.258	6	30838939	0.00021627	9.661	4.42E-22	-21.355	BG746649	HCG18	T_C	C	T	T	C	positive
rs9475714	100138535_ TGL_at	A/G	G	0.325	6	56497033	0.0002178	4.113	3.91E-05	-4.4083	BG251250	DST	A_G	A	G	A	G	negative

rs1264702	100304197_ TGL_at	C/T	T	0.758	6	30173554	0.00022391	-10.01	1.32E-23	-22.8785	ENST000003 18669		T_C	C	T	T	C	positive
rs11882587	100310092_ TGL_at	A/G	G	0.422	19	4303959	0.00022622	-5.45	5.04E-08	-7.2978	BC008288	UBXN6	A_G	A	G	A	G	negative
rs11133403	100147633_ TGL_at	C/T	T	0.647	4	56170870	0.00022865	-15.17	6.03E-52	-51.2197	NM_004898	CLOCK	C_T	C	T	C	T	negative
rs11133403	100130701_ TGL_at	C/T	T	0.647	4	56170870	0.00022865	-4.611	4.01E-06	-5.3971	BC002480	SRD5A3	C_T	C	T	C	T	negative
rs12593522	100138194_ TGL_at	A/G	G	0.847	15	98008093	0.00023065	-9.275	1.78E-20	-19.7505	NM_152449	LYSMD4	A_G	A	G	A	G	positive
rs6938343	100149189_ TGL_at	C/T	T	0.276	6	56337596	0.0002348	5.151	2.59E-07	-6.5865	NM_030820	COL21A1	C_T	C	T	C	T	positive
rs6813853	100149386_ TGL_at	C/T	T	0.2	4	119551778	0.00023519	4.534	5.79E-06	-5.2375	ACA24	SNORA24	T_C	C	T	T	C	positive
rs6811485	100149386_ TGL_at	A/G	G	0.2	4	119556711	0.0002375	-4.534	5.79E-06	-5.2375	ACA24	SNORA24	A_G	A	G	A	G	positive
rs7687884	100149386_ TGL_at	C/T	T	0.2	4	119554403	0.00023831	4.534	5.79E-06	-5.2375	ACA24	SNORA24	T_C	C	T	T	C	positive
rs11134779	100132327_ TGL_at	A/G	G	0.308	5	156869344	0.00023964	-4.591	4.41E-06	-5.3554	NM_033274	ADAM19	G_A	A	G	G	A	negative
rs1422795	100132327_ TGL_at	C/T	T	0.692	5	156868942	0.00024052	4.591	4.41E-06	-5.3554	NM_033274	ADAM19	T_C	C	T	T	C	negative
rs7613814	100301782_ TGL_at	C/T	T	0.583	3	159768797	0.00024351	10.639	1.96E-26	-25.7072	NM_022443	MLF1	C_T	C	T	C	T	negative
rs7613814	100304858_ TGL_at	C/T	T	0.583	3	159768797	0.00024351	8.833	1.02E-18	-17.9918	DA823417	MLF1	C_T	C	T	C	T	negative
rs7613814	100123606_ TGL_at	C/T	T	0.583	3	159768797	0.00024351	7.228	4.9E-13	-12.3097	DB449779	MLF1	C_T	C	T	C	T	negative
rs7613814	100312821_ TGL_at	C/T	T	0.583	3	159768797	0.00024351	5.876	4.2E-09	-8.3764	AI220091	MLF1	C_T	C	T	C	T	negative
rs1035091	100307638_ TGL_at	A/T	T	0.658	4	24760972	0.00024382	-9.321	1.15E-20	-19.9384	BM719344		T_A	A	T	T	A	positive
rs2668628	100310659_ TGL_at	A/G	G	0.814	17	41709662	0.00024418	-44.08	0	-423.593	AW138870		A_G	A	G	A	G	negative
rs2668628	100133629_ TGL_at	A/G	G	0.814	17	41709662	0.00024418	-38.82	0	-328.994	HSS0000936 5		A_G	A	G	A	G	negative
rs2668628	100134593_ TGL_at	A/G	G	0.814	17	41709662	0.00024418	-44.52	0	-432.043	BC066350		A_G	A	G	A	G	negative
rs2668628	100160728_ TGL_at	A/G	G	0.814	17	41709662	0.00024418	-33.44	4E-245	-244.4	H23006	KIAA1267	A_G	A	G	A	G	negative
rs7315029	100311305_ TGL_at	A/G	G	0.617	12	26871782	0.00024805	-5.487	4.09E-08	-7.3885	AL117608	FGFR10P2	A_G	A	G	A	G	negative
rs418914	100303991_ TGL_at	A/G	G	0.292	6	28676507	0.00024974	14.142	2.09E-45	-44.6793	ENST000003 77186		A_G	A	G	A	G	negative
rs12716849	100161847_ TGL_at	A/G	G	0.433	16	76725191	0.00025349	7.793	6.54E-15	-14.1842	BQ573975		A_G	A	G	A	G	positive
rs12716849	100151362_ TGL_at	A/G	G	0.433	16	76725191	0.00025349	4.818	1.45E-06	-5.8386	H52699		A_G	A	G	A	G	positive
rs10866659	100132327_ TGL_at	A/G	G	0.304	5	156869621	0.00025551	-4.591	4.41E-06	-5.3554	NM_033274	ADAM19	G_A	A	G	G	A	negative
rs10902553	100155121_ TGL_at	A/G	G	0.038	15	98237023	0.00025773	9.441	3.69E-21	-20.4327	AK127420		G_A	A	G	G	A	negative
rs2216386	100147399_ TGL_at	A/G	G	0.192	3	186448393	0.00025918	5.055	4.3E-07	-6.3661	NM_001966	EHHADH	G_A	A	G	G	A	positive
rs1913575	100149386_ TGL_at	C/T	T	0.793	4	119554577	0.00026675	4.534	5.79E-06	-5.2375	ACA24	SNORA24	C_T	C	T	C	T	positive
rs7521898	100135055_ TGL_at	A/G	G	0.65	1	148974220	0.00026759	-8.84	9.57E-19	-18.019	NM_032132	HORMAD 1	A_G	A	G	A	G	positive
rs7511673	100135055_ TGL_at	A/T	T	0.35	1	148974260	0.00026812	-8.84	9.57E-19	-18.019	NM_032132	HORMAD 1	T_A	A	T	T	A	positive
rs2324142	100158126_ TGL_at	A/C	C	0.483	17	15982031	0.00027206	6.48	9.17E-11	-10.0375	NM_004278	PIGL	A_C	A	C	A	C	positive

rs1317850	100305428_ TGL_at	C/T	T	0.267	17	43476838	0.00027558	-6.258	3.9E-10	-9.409	CK004660		T_C	C	T	T	C	negative
rs10898954	100156557_ TGL_at	C/T	T	0.467	11	73467891	0.00027597	5.038	4.7E-07	-6.3275	NM_173582	PGM2L1	C_T	C	T	C	T	positive
rs7197	100302940_ TGL_at	C/T	T	0.283	6	32520558	0.00028309	-18.55	8.31E-77	-76.0805	NM_002125	HLA- DRB5	T_C	C	T	T	C	positive
rs7197	100311684_ TGL_at	C/T	T	0.283	6	32520558	0.00028309	-10.33	5.05E-25	-24.2967	AK098007	HLA- DQB2	T_C	C	T	T	C	positive
rs7197	100304704_ TGL_at	C/T	T	0.283	6	32520558	0.00028309	4.963	6.94E-07	-6.1586	DB344086		T_C	C	T	T	C	negative
rs7197	100161625_ TGL_at	C/T	T	0.283	6	32520558	0.00028309	4.73	2.25E-06	-5.6487	NM_000063	C2	T_C	C	T	T	C	negative
rs2303644	100306708_ TGL_at	A/G	G	0.608	5	178487651	0.00028511	4.15	3.33E-05	-4.4782	BU733456		A_G	A	G	A	G	positive
rs7312624	100309845_ TGL_at	A/G	G	0.225	12	9787906	0.00028519	6.946	3.76E-12	-11.4251	BC019883	CLEC2D	A_G	A	G	A	G	negative
rs7312624	100303868_ TGL_at	A/G	G	0.225	12	9787906	0.00028519	-6.501	7.98E-11	-10.0981	H17596	CLEC2D	A_G	A	G	A	G	positive
rs10078178	100132327_ TGL_at	A/T	T	0.295	5	156865562	0.0002871	-4.591	4.41E-06	-5.3554	NM_033274	ADAM19	T_A	A	T	T	A	negative
rs1611701	100309580_ TGL_at	C/T	T	0.203	6	29935935	0.00028972	-20.08	1.06E-89	-88.9745	BC035659		T_C	C	T	T	C	negative
rs1611701	100303756_ TGL_at	C/T	T	0.203	6	29935935	0.00028972	-10.57	4.19E-26	-25.3774	M27539	HLA-A	T_C	C	T	T	C	negative
rs9392029	100139548_ TGL_at	C/T	T	0.083	6	419252	0.00029052	-7.506	6.1E-14	-13.2149	AK056564	EXOC2	T_C	C	T	T	C	positive
rs12456881	100129585_ TGL_at	C/T	T	0.242	18	55328175	0.00029089	-6.043	1.51E-09	-8.8202	BC046645	CCBE1	T_C	C	T	T	C	positive
rs12456881	100136733_ TGL_at	C/T	T	0.242	18	55328175	0.00029089	-5.228	1.71E-07	-6.7661	NM_133459	CCBE1	T_C	C	T	T	C	positive
rs12456881	100129234_ TGL_at	C/T	T	0.242	18	55328175	0.00029089	-4.829	1.37E-06	-5.8626	AI822141	CCBE1	T_C	C	T	T	C	positive
rs8365	100158927_ TGL_at	C/G	G	0.831	6	32256381	0.00029327	-8.348	6.94E-17	-16.1585	NM_006913	RNF5	C_G	C	G	C	G	negative
rs12051	100129691_ TGL_at	A/G	G	0.375	17	43458759	0.000298	5.106	3.29E-07	-6.4827	NM_018129	PNPO	G_A	A	G	G	A	negative
rs7299039	100124630_ TGL_at	A/G	G	0.389	12	28498283	0.00029963	4.258	2.06E-05	-4.6856	NM_018318	CCDC91	G_A	A	G	G	A	positive
rs2275235	100302368_ TGL_at	A/G	G	0.325	1	148996903	0.00030713	-9.618	6.71E-22	-21.1731	NM_013384	LASS2	G_A	A	G	G	A	positive
rs2275235	100151271_ TGL_at	A/G	G	0.325	1	148996903	0.00030713	-8.523	1.55E-17	-16.8083	NM_181746	LASS2	G_A	A	G	G	A	positive
rs3095320	100303039_ TGL_at	A/G	G	0.305	6	31195913	0.00030753	-32.82	3.1E-236	-235.515	NM_001264	CDSN	G_A	A	G	G	A	positive
rs3095320	100121628_ TGL_at	A/G	G	0.305	6	31195913	0.00030753	18.412	1.05E-75	-74.9777	NM_014068	PSORS1C1	G_A	A	G	G	A	negative
rs2239523	100303039_ TGL_at	C/G	G	0.688	6	31197486	0.00030981	32.82	3.1E-236	-235.515	NM_001264	CDSN	G_C	C	G	G	C	positive
rs2239523	100121628_ TGL_at	C/G	G	0.688	6	31197486	0.00030981	-18.41	1.05E-75	-74.9777	NM_014068	PSORS1C1	G_C	C	G	G	C	negative
rs2277027	100132327_ TGL_at	A/C	C	0.308	5	156864954	0.00030983	4.591	4.41E-06	-5.3554	NM_033274	ADAM19	A_C	A	C	A	C	negative
rs12649925	100307345_ TGL_at	C/T	T	0.643	4	56173264	0.00031203	-7.183	6.82E-13	-12.1662	BQ013439	CLOCK	T_C	C	T	T	C	positive
rs2160812	100147399_ TGL_at	A/G	G	0.808	3	186443803	0.00031285	5.055	4.3E-07	-6.3661	NM_001966	EHHADH	A_G	A	G	A	G	positive
rs7305599	100150083_ TGL_at	A/G	G	0.56	12	50187657	0.00031429	4.275	1.91E-05	-4.7187	NM_007210	GALNT6	A_G	A	G	A	G	positive
rs11683643	100143280_ TGL_at	A/G	G	0.692	2	48718796	0.00031527	-7.651	1.99E-14	-13.7002	AL049443		A_G	A	G	A	G	positive
rs8064802	100124262_ TGL_at	C/T	T	0.679	17	41618273	0.00031548	-6.552	5.68E-11	-10.2459	AK057167		C_T	C	T	C	T	positive

rs8064802	100161122_ TGL_at	C/T	T	0.679	17	41618273	0.00031548	-4.939	7.85E-07	-6.105	AF035297		C_T	C	T	C	T	positive
rs1052708	100305949_ TGL_at	A/G	G	0.05	10	16593361	0.00031654	-13.02	9.54E-39	-38.0204	BX648556	PTER	A_G	A	G	A	G	positive
rs1052708	100124216_ TGL_at	A/G	G	0.05	10	16593361	0.00031654	-12.57	3.13E-36	-35.5049	NM_030664	PTER	A_G	A	G	A	G	positive
rs1052708	100123512_ TGL_at	A/G	G	0.05	10	16593361	0.00031654	8.135	4.12E-16	-15.3852	NM_001010 908	C1QL3	A_G	A	G	A	G	negative
rs1052708	100132235_ TGL_at	A/G	G	0.05	10	16593361	0.00031654	4.883	1.04E-06	-5.981	AK095486	PTER	A_G	A	G	A	G	negative
rs199513	100138516_ TGL_at	A/G	G	0.898	17	42212095	0.00031826	-10.89	1.34E-27	-26.8716	BC114219	WNT3	A_G	A	G	A	G	negative
rs6683015	100138305_ TGL_at	G/T	T	0.528	1	149014035	0.00032145	26.875	4.3E-159	-158.366	NM_178426	ARNT	T_G	G	T	T	G	positive
rs6683015	100309723_ TGL_at	G/T	T	0.528	1	149014035	0.00032145	-9.731	2.22E-22	-21.6529	BC028362	ARNT	T_G	G	T	T	G	negative
rs6683015	100310890_ TGL_at	G/T	T	0.528	1	149014035	0.00032145	8.15	3.64E-16	-15.439	AL834279	ARNT	T_G	G	T	T	G	positive
rs6683015	100313509_ TGL_at	G/T	T	0.528	1	149014035	0.00032145	-6.602	4.06E-11	-10.3919	AB037811	FAM63A	T_G	G	T	T	G	negative
rs1655921	100129349_ TGL_at	C/T	T	0.157	6	30016168	0.00032577	19.67	3.9E-86	-85.4092	NM_002116	HLA-A	T_C	C	T	T	C	positive
rs1655921	100160221_ TGL_at	C/T	T	0.157	6	30016168	0.00032577	12.286	1.08E-34	-33.9678	NM_002127	HLA-G	T_C	C	T	T	C	positive
rs1736922	100311825_ TGL_at	C/T	T	0.33	6	29801948	0.00032792	-7.821	5.24E-15	-14.2806	AK092748	RP3- 377H14.5	T_C	C	T	T	C	negative
rs1736922	100303129_ TGL_at	C/T	T	0.33	6	29801948	0.00032792	-4.186	2.84E-05	-4.5468	NM_001098 479	HLA-F	T_C	C	T	T	C	negative
rs3764919	100147399_ TGL_at	G/T	T	0.192	3	186449252	0.00032998	5.055	4.3E-07	-6.3661	NM_001966	EHHADH	T_G	G	T	T	G	positive
rs3094014	100302942_ TGL_at	A/G	G	0.817	6	31541537	0.00033158	-4.996	5.85E-07	-6.2326	NM_002117	HLA-C	G_A	A	G	G	A	positive
rs11191822	100135728_ TGL_at	G/T	T	0.679	10	105589760	0.00033166	-4.413	1.02E-05	-4.9916	AK024150		G_T	G	T	G	T	negative
rs11205383	100309243_ TGL_at	C/T	T	0.759	1	148722437	0.00033226	4.272	1.94E-05	-4.7128	BC069280		C_T	C	T	C	T	positive
rs1724422	100133349_ TGL_at	A/G	G	0.392	17	41133096	0.00033584	4.167	3.09E-05	-4.5106	NM_199282	ARHGAP2 7	A_G	A	G	A	G	negative
rs6655975	100144443_ TGL_at	A/G	G	0.7	1	148808752	0.00033626	6.493	8.41E-11	-10.075	BC038543		A_G	A	G	A	G	negative
rs2696501	100146746_ TGL_at	G/T	T	0.181	17	41719662	0.00033865	-30.79	3.7E-208	-207.434	U51706		T_G	G	T	T	G	negative
rs11231181	100135147_ TGL_at	A/G	G	0.742	11	62190749	0.00033886	-7.795	6.44E-15	-14.1911	NM_030628	INTS5	A_G	A	G	A	G	positive
rs11231181	100153773_ TGL_at	A/G	G	0.742	11	62190749	0.00033886	5.45	5.04E-08	-7.2978	NM_001085 372	C11orf83	A_G	A	G	A	G	negative
rs9379856	100161253_ TGL_at	A/C	C	0.136	6	26474815	0.00033947	-27.02	9.6E-161	-160.018	NM_007047	BTN3A2	A_C	A	C	A	C	positive
rs4489748	100122809_ TGL_at	C/T	T	0.742	11	62189391	0.00034313	9.984	1.79E-23	-22.7469	NM_000327	ROM1	C_T	C	T	C	T	negative
rs10517061	100130614_ TGL_at	A/T	T	0.5	4	24787395	0.00034472	6.41	1.46E-10	-9.8371	NM_013367	ANAPC4	T_A	A	T	T	A	negative
rs7120836	100124148_ TGL_at	A/G	G	0.217	11	3798039	0.00034599	-4.673	2.97E-06	-5.5275	NM_014489		A_G	A	G	A	G	negative
rs1264698	100141210_ TGL_at	A/C	C	0.242	6	30175156	0.0003472	9.305	1.34E-20	-19.8729	ENST000003 18669		C_A	A	C	C	A	positive
rs2279408	100159519_ TGL_at	A/G	G	0.259	16	4598585	0.00034988	-4.479	7.5E-06	-5.125	DQ167023	C16orf5	A_G	A	G	A	G	negative
rs1264697	100141210_ TGL_at	C/G	G	0.246	6	30175547	0.00035057	9.305	1.34E-20	-19.8729	ENST000003 18669		G_C	C	G	G	C	positive
rs518442	100304943_ TGL_at	C/T	T	0.125	18	30972885	0.00035464	5.187	2.14E-07	-6.6702	DA493437	ZNF271	T_C	C	T	T	C	negative

rs3130349	100158927_ TGL_at	A/G	G	0.833	6	32255674	0.00035568	-8.348	6.94E-17	-16.1585	NM_006913	RNF5	A_G	A	G	A	G	negative
rs10792356	100155082_ TGL_at	C/G	G	0.267	11	62197399	0.00036166	-15.54	1.89E-54	-53.7237	NM_032667	BSCL2	C_G	C	G	C	G	negative
rs537145	100161482_ TGL_at	G/T	T	0.167	18	30918852	0.00036318	4.841	1.29E-06	-5.8888	NM_014268	MAPRE2	G_T	G	T	G	T	positive
rs3862206	100129463_ TGL_at	G/T	T	0.76	1	148682255	0.00036417	7.706	1.3E-14	-13.8866	ENST000003 69069	RPRD2	T_G	G	T	T	G	negative
rs2289469	100158135_ TGL_at	A/G	G	0.831	2	134930512	0.00036745	-5.554	2.79E-08	-7.5541	NM_030923	TMEM163	A_G	A	G	A	G	positive
rs12113381	100304931_ TGL_at	C/T	T	0.102	7	1109653	0.00037104	-5.685	1.31E-08	-7.8834	DA547158		C_T	C	T	C	T	positive
rs12113381	100151722_ TGL_at	C/T	T	0.102	7	1109653	0.00037104	-4.524	6.07E-06	-5.2169	NM_182491	ZFAND2A	C_T	C	T	C	T	positive
rs3099840	100142285_ TGL_at	A/G	G	0.183	6	31538700	0.00037313	4.022	5.77E-05	-4.2388	ENST000003 76255	TCF19	A_G	A	G	A	G	negative
rs2333452	100151178_ TGL_at	A/G	G	0.75	4	177525930	0.00037383	6.288	3.22E-10	-9.4927	AK096223		A_G	A	G	A	G	positive
rs882520	100124297_ TGL_at	A/T	T	0.533	19	47081120	0.00038556	-7.155	8.37E-13	-12.0774	NM_006423	RABAC1	A_T	A	T	A	T	negative
rs882520	100306969_ TGL_at	A/T	T	0.533	19	47081120	0.00038556	-6.923	4.42E-12	-11.3544	BT019964	RABAC1	A_T	A	T	A	T	negative
rs4958097	100143365_ TGL_at	A/T	T	0.169	5	133062094	0.00039339	-6.416	1.4E-10	-9.8542	BX640845	FSTL4	T_A	A	T	T	A	positive
rs4958097	100145132_ TGL_at	A/T	T	0.169	5	133062094	0.00039339	-5.386	7.2E-08	-7.1424	NM_015082	FSTL4	T_A	A	T	T	A	positive
rs3774051	100147399_ TGL_at	C/T	T	0.192	3	186424419	0.00040173	5.055	4.3E-07	-6.3661	NM_001966	EHHADH	T_C	C	T	T	C	positive
rs2523720	100132397_ TGL_at	C/T	T	0.179	6	30274865	0.000408	-4.176	2.97E-05	-4.5277	L19688		T_C	C	T	T	C	negative
rs911552	100311425_ TGL_at	A/G	G	0.297	14	103069261	0.00041008	-7.831	4.84E-15	-14.3152	AK225730	BAG5	G_A	A	G	G	A	positive
rs1558205	100140600_ TGL_at	A/C	C	0.692	6	28490241	0.0004112	7.667	1.76E-14	-13.7543	BC019888		A_C	A	C	A	C	positive
rs2240071	100136412_ TGL_at	C/G	G	0.233	6	30178911	0.00041872	6.124	9.13E-10	-9.0397	ENST000003 76791	HLA-G	G_C	C	G	G	C	positive
rs12690556	100123120_ TGL_at	A/G	G	0.817	3	120455706	0.00042018	-7.464	8.39E-14	-13.0761	BU742963		A_G	A	G	A	G	positive
rs10852637	100312853_ TGL_at	C/T	T	0.466	16	3658493	0.00042348	6.444	1.16E-10	-9.9342	AI167680	CLUAP1	C_T	C	T	C	T	positive
rs10852637	100152540_ TGL_at	C/T	T	0.466	16	3658493	0.00042348	6.081	1.19E-09	-8.9229	NM_015041	CLUAP1	C_T	C	T	C	T	positive
rs10852637	100313559_ TGL_at	C/T	T	0.466	16	3658493	0.00042348	5.771	7.88E-09	-8.1035	AB014543	CLUAP1	C_T	C	T	C	T	positive
rs10852637	100125900_ TGL_at	C/T	T	0.466	16	3658493	0.00042348	4.569	4.9E-06	-5.3098	NM_178844	NLRC3	C_T	C	T	C	T	positive
rs3130380	100304636_ TGL_at	A/G	G	0.858	6	30387109	0.00044216	-4.555	5.24E-06	-5.2808	DB503443	FLOT1	A_G	A	G	A	G	negative
rs1050818	100144721_ TGL_at	A/C	C	0.258	1	148533183	0.00044678	10.144	3.52E-24	-23.453	NM_015203	RPRD2	A_C	A	C	A	C	negative
rs738416	100307496_ TGL_at	A/G	G	0.108	22	48482509	0.00045115	-6.38	1.77E-10	-9.7518	BM977889	C22orf34	A_G	A	G	A	G	positive
rs7542068	100307575_ TGL_at	C/G	G	0.258	1	148730396	0.00046008	-7.991	1.34E-15	-14.8734	BM853911	MRPS21	G_C	C	G	G	C	negative
rs6446257	100156808_ TGL_at	C/T	T	0.692	3	49228496	0.00047061	7.371	1.69E-13	-12.7712	ENST000003 60934		C_T	C	T	C	T	positive
rs2844796	100123483_ TGL_at	A/G	G	0.754	6	30180490	0.00047664	12.764	2.6E-37	-36.5842	AK056727	HCG4P6	G_A	A	G	G	A	negative
rs773139	100125670_ TGL_at	A/G	G	0.108	9	76852819	0.00047685	6.815	9.43E-12	-11.0257	NM_017881	C9orf95	A_G	A	G	A	G	positive
rs9949	100136365_ TGL_at	A/G	G	0.275	8	9031922	0.00047688	5.662	1.5E-08	-7.825	ENST000003 10455	PPP1R3B	A_G	A	G	A	G	negative

rs7739357	100313766_ TGL_at	A/G	G	0.549	6	32549619	0.00047739	19.862	8.68E-88	-87.0616	AA622265	HLA-DQA2	A_G	A	G	A	G	negative
rs7739357	100160430_ TGL_at	A/G	G	0.549	6	32549619	0.00047739	15.143	8.43E-52	-51.0743	L76566	HLA-DRB6	A_G	A	G	A	G	negative
rs7739357	100129037_ TGL_at	A/G	G	0.549	6	32549619	0.00047739	4.742	2.12E-06	-5.6744	NM_018833	TAP2	A_G	A	G	A	G	negative
rs1264695	100304754_ TGL_at	A/G	G	0.242	6	30175871	0.00047782	6.4	1.55E-10	-9.8086	DB311150		G_A	A	G	G	A	positive
rs1264695	100135776_ TGL_at	A/G	G	0.242	6	30175871	0.00047782	4.231	2.33E-05	-4.6333	NM_170769	RNF39	G_A	A	G	G	A	positive
rs1611738	100309580_ TGL_at	A/C	C	0.797	6	29939685	0.00047855	-20.08	1.06E-89	-88.9745	BC035659		A_C	A	C	A	C	negative
rs1611738	100303756_ TGL_at	A/C	C	0.797	6	29939685	0.00047855	-10.57	4.19E-26	-25.3774	M27539	HLA-A	A_C	A	C	A	C	negative
rs12757613	100311695_ TGL_at	G/T	T	0.082	1	20244374	0.00048038	-9.303	1.37E-20	-19.8647	AK097693	PLA2G5	G_T	G	T	G	T	positive
rs12757613	100130289_ TGL_at	G/T	T	0.082	1	20244374	0.00048038	-8.462	2.63E-17	-16.5803	ENST00000375108	PLA2G5	G_T	G	T	G	T	positive
rs911554	100126588_ TGL_at	G/T	T	0.302	14	103069124	0.00048406	5.7	1.2E-08	-7.9215	AK023145	BAG5	T_G	G	T	T	G	negative
rs911554	100310380_ TGL_at	G/T	T	0.302	14	103069124	0.00048406	-4.068	4.74E-05	-4.3241	AY180163	KLC1	T_G	G	T	T	G	positive
rs4964023	100155895_ TGL_at	C/T	T	0.175	12	26915043	0.00048526	-4.06	4.91E-05	-4.3092	AI732946		C_T	C	T	C	T	negative
rs652348	100304943_ TGL_at	C/T	T	0.875	18	30972241	0.00049121	5.187	2.14E-07	-6.6702	DA493437	ZNF271	C_T	C	T	C	T	negative
rs9800013	100123914_ TGL_at	A/G	G	0.216	5	595023	0.00049481	11.574	5.58E-31	-30.2532	BC013821		A_G	A	G	A	G	negative
rs9800013	100146413_ TGL_at	A/G	G	0.216	5	595023	0.00049481	5.683	1.32E-08	-7.8783	ENST00000329849		A_G	A	G	A	G	negative
rs11111134	100151519_ TGL_at	C/T	T	0.783	12	100939387	0.00049609	-9.381	6.53E-21	-20.1848	NM_016053	CCDC53	T_C	C	T	T	C	negative
rs650401	100142307_ TGL_at	C/T	T	0.442	8	109266030	0.00050532	-6.553	5.64E-11	-10.2488	BX094067		T_C	C	T	T	C	negative
rs686251	100142307_ TGL_at	A/C	C	0.558	8	109268083	0.00050593	6.553	5.64E-11	-10.2488	BX094067		C_A	A	C	C	A	negative
rs2212704	100142307_ TGL_at	C/T	T	0.441	8	109267591	0.00050745	6.553	5.64E-11	-10.2488	BX094067		C_T	C	T	C	T	negative
rs2251830	100129279_ TGL_at	A/C	C	0.543	6	31124957	0.00050848	5.719	1.07E-08	-7.97	AK094433	HCG22	A_C	A	C	A	C	positive
rs635624	100142307_ TGL_at	C/G	G	0.558	8	109266975	0.00050916	6.553	5.64E-11	-10.2488	BX094067		G_C	C	G	G	C	negative
rs597992	100142307_ TGL_at	A/T	T	0.442	8	109262984	0.00050921	6.553	5.64E-11	-10.2488	BX094067		A_T	A	T	A	T	negative
rs595266	100142307_ TGL_at	A/G	G	0.442	8	109262960	0.00051269	6.553	5.64E-11	-10.2488	BX094067		A_G	A	G	A	G	negative
rs651814	100142307_ TGL_at	A/G	G	0.442	8	109265747	0.00051333	6.553	5.64E-11	-10.2488	BX094067		A_G	A	G	A	G	negative
rs1264709	100125007_ TGL_at	A/T	T	0.22	6	30164455	0.00051785	-12.76	2.64E-37	-36.5787	AF036974	C6orf12	T_A	A	T	T	A	negative
rs1264709	100158228_ TGL_at	A/T	T	0.22	6	30164455	0.00051785	5.676	1.38E-08	-7.8605	NM_170783	ZNRD1	T_A	A	T	T	A	positive
rs11591349	100152029_ TGL_at	A/T	T	0.466	10	102734321	0.00052066	-8.977	2.78E-19	-18.5556	NM_176793	MRPL43	A_T	A	T	A	T	negative
rs11591349	100148949_ TGL_at	A/T	T	0.466	10	102734321	0.00052066	-8.009	1.16E-15	-14.9369	NM_176792	MRPL43	A_T	A	T	A	T	negative
rs11591349	100134957_ TGL_at	A/T	T	0.466	10	102734321	0.00052066	4.844	1.27E-06	-5.8953	NM_032112	MRPL43	A_T	A	T	A	T	positive
rs3134940	100158927_ TGL_at	C/T	T	0.84	6	32257794	0.00052123	8.348	6.94E-17	-16.1585	NM_006913	RNF5	T_C	C	T	T	C	negative
rs594405	100142307_ TGL_at	A/G	G	0.442	8	109262783	0.00052174	6.553	5.64E-11	-10.2488	BX094067		A_G	A	G	A	G	negative

rs9869645	I00146385_ TGL_at	A/G	G	0.817	3	120445316	0.00052269	-4.637	3.54E-06	-5.4516	NM_152538	IGSF11	A_G	A	G	A	G	positive
rs9869645	I00157247_ TGL_at	A/G	G	0.817	3	120445316	0.00052269	4.021	5.8E-05	-4.2369	NM_020231	KTELC1	A_G	A	G	A	G	negative
rs10477360	I00147290_ TGL_at	A/G	G	0.525	5	147384474	0.0005246	-5.27	1.36E-07	-6.8651	NM_001001 325		A_G	A	G	A	G	positive
rs10477360	I00160780_ TGL_at	A/G	G	0.525	5	147384474	0.0005246	4.882	1.05E-06	-5.9787	NM_006846	SPINK5	A_G	A	G	A	G	negative
rs688746	I00142307_ TGL_at	A/G	G	0.558	8	109294901	0.00052461	6.553	5.64E-11	-10.2488	BX094067		G_A	A	G	G	A	negative
rs1668178	I00142307_ TGL_at	A/G	G	0.442	8	109260876	0.00052604	6.553	5.64E-11	-10.2488	BX094067		A_G	A	G	A	G	negative
rs6070706	I00126253_ TGL_at	C/T	T	0.109	20	57061634	0.00053202	-10.01	1.36E-23	-22.8653	NM_198976	TH1L	C_T	C	T	C	T	negative
rs6070706	I00306923_ TGL_at	C/T	T	0.109	20	57061634	0.00053202	-7.549	4.39E-14	-13.3579	BU166368	TH1L	C_T	C	T	C	T	negative
rs6070706	I00130622_ TGL_at	C/T	T	0.109	20	57061634	0.00053202	-6.108	1.01E-09	-8.9962	NM_016045	SLMO2	C_T	C	T	C	T	negative
rs6070706	I00152090_ TGL_at	C/T	T	0.109	20	57061634	0.00053202	4.574	4.79E-06	-5.3201	BX464861	SLMO2	C_T	C	T	C	T	positive
rs3768015	I00151271_ TGL_at	A/G	G	0.675	1	149079578	0.00053261	-8.523	1.55E-17	-16.8083	NM_181746	LASS2	A_G	A	G	A	G	positive
rs613644	I00142307_ TGL_at	A/G	G	0.558	8	109258170	0.00053355	6.553	5.64E-11	-10.2488	BX094067		G_A	A	G	G	A	negative
rs612265	I00142307_ TGL_at	A/G	G	0.442	8	109257826	0.00053563	-6.553	5.64E-11	-10.2488	BX094067		G_A	A	G	G	A	negative
rs610452	I00142307_ TGL_at	C/T	T	0.567	8	109257439	0.00053675	6.553	5.64E-11	-10.2488	BX094067		T_C	C	T	T	C	negative
rs7015513	I00152431_ TGL_at	A/C	C	0.508	8	109331746	0.00053841	23.37	8.6E-121	-120.064	AW293012	EIF3E	A_C	A	C	A	C	negative
rs598477	I00142307_ TGL_at	G/T	T	0.442	8	109257050	0.00054163	6.553	5.64E-11	-10.2488	BX094067		G_T	G	T	G	T	negative
rs602384	I00142307_ TGL_at	C/G	G	0.558	8	109257361	0.00054203	6.553	5.64E-11	-10.2488	BX094067		G_C	C	G	G	C	negative
rs2071407	I00305763_ TGL_at	C/T	T	0.283	14	103056893	0.00054294	5.925	3.12E-09	-8.5054	CA426758	XRCC3	T_C	C	T	T	C	negative
rs3130047	I00151160_ TGL_at	C/T	T	0.108	6	31718458	0.0005452	-4.156	3.24E-05	-4.4896	NM_001623	AIF1	T_C	C	T	T	C	negative
rs2652804	I00145725_ TGL_at	C/T	T	0.353	15	61161309	0.00054747	11.249	2.34E-29	-28.6304	NM_001018 007	TPM1	T_C	C	T	T	C	negative
rs2652804	I00156621_ TGL_at	C/T	T	0.353	15	61161309	0.00054747	7.24	4.49E-13	-12.3481	NM_001018 005	TPM1	T_C	C	T	T	C	negative
rs11856316	I00141670_ TGL_at	A/C	C	0.314	15	81312346	0.00055632	-7.134	9.75E-13	-12.011	NM_004644	AP3B2	C_A	A	C	C	A	positive
rs598022	I00142307_ TGL_at	C/T	T	0.442	8	109256935	0.00055888	6.553	5.64E-11	-10.2488	BX094067		C_T	C	T	C	T	negative
rs597649	I00142307_ TGL_at	G/T	T	0.558	8	109256894	0.00055954	6.553	5.64E-11	-10.2488	BX094067		T_G	G	T	T	G	negative
rs660816	I00142307_ TGL_at	C/T	T	0.442	8	109247224	0.00056018	6.553	5.64E-11	-10.2488	BX094067		C_T	C	T	C	T	negative
rs7024579	I00124395_ TGL_at	C/T	T	0.246	9	138240234	0.00056121	-5.159	2.48E-07	-6.6051	NM_181701	QSOX2	C_T	C	T	C	T	positive
rs673356	I00142307_ TGL_at	A/T	T	0.442	8	109254335	0.00056124	6.553	5.64E-11	-10.2488	BX094067		A_T	A	T	A	T	negative
rs2523721	I00137319_ TGL_at	C/T	T	0.225	6	30274245	0.00056161	7.986	1.39E-15	-14.8558	NM_001004 349		T_C	C	T	T	C	positive
rs2523721	I00310523_ TGL_at	C/T	T	0.225	6	30274245	0.00056161	-7.299	2.9E-13	-12.5377	AW473609		T_C	C	T	T	C	negative
rs677330	I00142307_ TGL_at	A/G	G	0.442	8	109246748	0.00056517	6.553	5.64E-11	-10.2488	BX094067		A_G	A	G	A	G	negative
rs3130626	I00151160_ TGL_at	A/G	G	0.108	6	31706468	0.00056583	4.156	3.24E-05	-4.4896	NM_001623	AIF1	A_G	A	G	A	G	negative

rs3094211	100303039_TGL_at	A/G	G	0.305	6	31194381	0.00056799	-32.82	3.1E-236	-235.515	NM_001264	CDSN	G_A	A	G	G	A	positive
rs3094211	100121628_TGL_at	A/G	G	0.305	6	31194381	0.00056799	18.412	1.05E-75	-74.9777	NM_014068	PSORS1C1	G_A	A	G	G	A	negative
rs16924301	100145578_TGL_at	A/G	G	0.158	9	6296093	0.00057259	-7.28	3.34E-13	-12.4765	AF147316		G_A	A	G	G	A	positive
rs6904608	100142471_TGL_at	C/T	T	0.508	6	32435705	0.00057619	4.428	9.51E-06	-5.0218	AK057104		T_C	C	T	T	C	positive
rs7807028	100305640_TGL_at	A/G	G	0.108	7	23563699	0.0005807	-5.238	1.62E-07	-6.7896	CB243396	C7orf46	G_A	A	G	G	A	positive
rs7807028	100158666_TGL_at	A/G	G	0.108	7	23563699	0.0005807	-5.219	1.8E-07	-6.745	BX106492		G_A	A	G	G	A	positive
rs9267522	100151160_TGL_at	A/G	G	0.108	6	31711749	0.00058706	4.156	3.24E-05	-4.4896	NM_001623	AIF1	A_G	A	G	A	G	negative
rs1045599	100125319_TGL_at	C/T	T	0.533	17	15820635	0.00059088	-33.92	3.1E-252	-251.515	NM_001042698	ZSWIM7	T_C	C	T	T	C	negative
rs2911709	100132932_TGL_at	A/G	G	0.181	1	215684325	0.00059158	-5.448	5.09E-08	-7.2929	NM_018040	GPATCH2	A_G	A	G	A	G	positive
rs4680444	100305399_TGL_at	A/G	G	0.275	3	159743208	0.00059382	-20.62	1.71E-94	-93.7679	CN266276		G_A	A	G	G	A	negative
rs4680444	100153916_TGL_at	A/G	G	0.275	3	159743208	0.00059382	-20.04	2.42E-89	-88.6164	AK097794		G_A	A	G	G	A	negative
rs9651832	100137632_TGL_at	C/T	T	0.367	12	28286689	0.00059648	7.903	2.72E-15	-14.565	BC035168		C_T	C	T	C	T	negative
rs11064872	100309959_TGL_at	A/G	G	0.983	12	108977042	0.00059773	-4.58	4.65E-06	-5.3326	BC014223	GIT2	A_G	A	G	A	G	positive
rs2516400	100161520_TGL_at	A/G	G	0.688	6	31589084	0.00059953	7.593	3.13E-14	-13.505	NM_005931	MICB	G_A	A	G	G	A	negative
rs16829104	100305399_TGL_at	A/G	G	0.725	3	159741114	0.00060381	-20.62	1.71E-94	-93.7679	CN266276		A_G	A	G	A	G	negative
rs1592971	100129603_TGL_at	A/G	G	0.8	5	156951767	0.00061657	4.976	6.49E-07	-6.1877	AK055284		G_A	A	G	G	A	positive
rs1592971	100141348_TGL_at	A/G	G	0.8	5	156951767	0.00061657	4.599	4.25E-06	-5.3721	NM_001099287		G_A	A	G	G	A	positive
rs885912	100137319_TGL_at	A/C	C	0.786	6	30282612	0.00062276	-7.986	1.39E-15	-14.8558	NM_001004349		C_A	A	C	C	A	positive
rs885912	100310523_TGL_at	A/C	C	0.786	6	30282612	0.00062276	7.299	2.9E-13	-12.5377	AW473609		C_A	A	C	C	A	negative
rs17628958	100305399_TGL_at	C/G	G	0.725	3	159739261	0.00062429	-20.62	1.71E-94	-93.7679	CN266276		C_G	C	G	C	G	negative
rs3117583	100151160_TGL_at	A/G	G	0.108	6	31727555	0.00062536	-4.156	3.24E-05	-4.4896	NM_001623	AIF1	G_A	A	G	G	A	negative
rs3134996	100312946_TGL_at	A/T	T	0.593	6	32744844	0.00062562	-14.64	1.52E-48	-47.8195	AF522251	HLA-DRB1	A_T	A	T	A	T	positive
rs3134996	100304009_TGL_at	A/T	T	0.593	6	32744844	0.00062562	-13.95	3.06E-44	-43.5144	ENST00000374943	HLA-DQB1	A_T	A	T	A	T	positive
rs3134996	100302941_TGL_at	A/T	T	0.593	6	32744844	0.00062562	-13.93	4.4E-44	-43.3562	NM_002123	HLA-DQB1	A_T	A	T	A	T	positive
rs3134996	100300398_TGL_at	A/T	T	0.593	6	32744844	0.00062562	-13.82	1.99E-43	-42.7022	X03068	HLA-DQB1	A_T	A	T	A	T	positive
rs3134996	100161395_TGL_at	A/T	T	0.593	6	32744844	0.00062562	-5.96	2.52E-09	-8.5982	AK225657	TAP2	A_T	A	T	A	T	positive
rs4499917	100145604_TGL_at	A/C	C	0.746	6	56494557	0.00062746	-4.041	5.32E-05	-4.2739	BC038763		C_A	A	C	C	A	positive
rs7663650	100301711_TGL_at	C/T	T	0.35	4	55925876	0.00062766	7.781	7.2E-15	-14.1429	NM_024592	SRD5A3	C_T	C	T	C	T	negative
rs7663650	100129781_TGL_at	C/T	T	0.35	4	55925876	0.00062766	5.808	6.32E-09	-8.1991	ENST00000381322	CLOCK	C_T	C	T	C	T	negative
rs2894189	100300925_TGL_at	A/C	C	0.55	6	31325794	0.00062767	-6.888	5.66E-12	-11.2473	NM_181717	HCG27	C_A	A	C	C	A	negative
rs6901497	100302369_TGL_at	A/G	G	0.992	6	26808488	0.00063701	11.742	7.76E-32	-31.11	NM_013375	ABT1	A_G	A	G	A	G	negative

rs1117490	100137319_ TGL_at	C/T	T	0.781	6	30278489	0.00065163	-7.986	1.39E-15	-14.8558	NM_001004 349		T_C	C	T	T	C	positive
rs1117490	100310523_ TGL_at	C/T	T	0.781	6	30278489	0.00065163	7.299	2.9E-13	-12.5377	AW473609		T_C	C	T	T	C	negative
rs515271	100310631_ TGL_at	A/G	G	0.842	11	125532146	0.00065407	-10.89	1.36E-27	-26.8668	AW196521	RPUSD4	A_G	A	G	A	G	negative
rs515271	100143437_ TGL_at	A/G	G	0.842	11	125532146	0.00065407	5.958	2.55E-09	-8.5929	NM_032795	RPUSD4	A_G	A	G	A	G	positive
rs2458216	100136496_ TGL_at	C/T	T	0.178	17	41702739	0.00065483	-21.89	3.4E-106	-105.471	AK095802	MAPT	T_C	C	T	T	C	negative
rs2532335	100136496_ TGL_at	A/G	G	0.183	17	41702874	0.00065688	-21.89	3.4E-106	-105.471	AK095802	MAPT	G_A	A	G	G	A	negative
rs8046429	100122211_ TGL_at	A/G	G	0.553	16	75769346	0.00065802	-7.616	2.62E-14	-13.5823	NM_014940	MON1B	G_A	A	G	G	A	positive
rs2726490	100160580_ TGL_at	C/T	T	0.575	4	106490971	0.00066111	-8.525	1.53E-17	-16.8158	BM977451	PPA2	C_T	C	T	C	T	negative
rs2726490	100307499_ TGL_at	C/T	T	0.575	4	106490971	0.00066111	-8.523	1.55E-17	-16.8083	BM977451	PPA2	C_T	C	T	C	T	negative
rs2248373	100128894_ TGL_at	C/T	T	0.417	6	31554525	0.00066132	-6.416	1.4E-10	-9.8542	NM_181717	HCG27	C_T	C	T	C	T	negative
rs2248373	100142732_ TGL_at	C/T	T	0.417	6	31554525	0.00066132	-6.174	6.66E-10	-9.1766	NM_138282	ATP6V1G2	C_T	C	T	C	T	negative
rs1264705	100138030_ TGL_at	C/G	G	0.858	6	30171653	0.00066249	4.604	4.14E-06	-5.3825	U58024	HLA-G	C_G	C	G	C	G	positive
rs11205386	100156777_ TGL_at	C/T	T	0.192	1	148748362	0.00066304	6.07	1.28E-09	-8.8931	NM_018997	MRPS21	T_C	C	T	T	C	positive
rs11611575	100158197_ TGL_at	A/G	G	0.217	12	31731994	0.00066732	10.585	3.5E-26	-25.4562	XM_084845		A_G	A	G	A	G	positive
rs1549237	100305138_ TGL_at	A/T	T	0.525	5	147387587	0.00067064	-8.537	1.38E-17	-16.8609	CU445838	SPINK5	T_A	A	T	T	A	negative
rs2499855	100155887_ TGL_at	C/T	T	0.892	1	160196385	0.00067166	9.202	3.51E-20	-19.4543	NM_007348	ATF6	C_T	C	T	C	T	negative
rs2499855	100304092_ TGL_at	C/T	T	0.892	1	160196385	0.00067166	4.508	6.54E-06	-5.1841	ENST000003 67942	ATF6	C_T	C	T	C	T	negative
rs6501822	100159529_ TGL_at	A/G	G	0.85	17	71051226	0.00067239	-4.128	3.66E-05	-4.4366	NM_207346	TSEN54	A_G	A	G	A	G	positive
rs1726744	100309263_ TGL_at	A/C	C	0.525	11	73543430	0.00067291	4.836	1.32E-06	-5.8779	BC068486	RAB6A	A_C	A	C	A	C	negative
rs3824658	100132638_ TGL_at	C/T	T	0.802	10	7645073	0.00067442	7.948	1.9E-15	-14.7223	NM_030569	ITIH5	C_T	C	T	C	T	negative
rs3824658	100159682_ TGL_at	C/T	T	0.802	10	7645073	0.00067442	-4.065	4.8E-05	-4.3185	ENST000002 98441	ITIH5	C_T	C	T	C	T	positive
rs12473839	100144954_ TGL_at	C/T	T	0.367	2	135354514	0.00067482	6.406	1.49E-10	-9.8257	AK075041	CCNT2	T_C	C	T	T	C	negative
rs3932521	100311360_ TGL_at	A/G	G	0.492	6	87875317	0.00068051	-11.34	8.51E-30	-29.0702	AL050201	C6orf162	G_A	A	G	G	A	positive
rs3932521	100306590_ TGL_at	A/G	G	0.492	6	87875317	0.00068051	-4.4	1.08E-05	-4.9656	BX099470	SLC35A1	G_A	A	G	G	A	positive
rs2523716	100137319_ TGL_at	C/T	T	0.225	6	30278504	0.00068464	7.986	1.39E-15	-14.8558	NM_001004 349		T_C	C	T	T	C	positive
rs2523716	100310523_ TGL_at	C/T	T	0.225	6	30278504	0.00068464	-7.299	2.9E-13	-12.5377	AW473609		T_C	C	T	T	C	negative
rs2779212	100162676_ TGL_at	C/T	T	0.467	17	15817380	0.00068944	52.52	0	-600.787	BC066344	ZSWIM7	C_T	C	T	C	T	positive
rs1807304	100152779_ TGL_at	A/G	G	0.212	11	63616327	0.00069363	-6.234	4.55E-10	-9.3423	BF509821		G_A	A	G	G	A	positive
rs17264866	100148761_ TGL_at	C/G	G	0.233	1	39795364	0.00069411	6.703	2.04E-11	-10.69	NM_022120	OXCT2	C_G	C	G	C	G	negative
rs4954192	100144954_ TGL_at	C/T	T	0.353	2	135349451	0.00070055	6.406	1.49E-10	-9.8257	AK075041	CCNT2	T_C	C	T	T	C	negative
rs7547017	100156028_ TGL_at	C/T	T	0.592	1	169868825	0.0007034	-5.47	4.5E-08	-7.3468	AL035296	VAMP4	C_T	C	T	C	T	negative

rs2248289	100123483_ TGL_at	C/T	T	0.758	6	30180700	0.00070517	12.764	2.6E-37	-36.5842	AK056727	HCG4P6	T_C	C	T	T	C	negative
rs6430553	100144954_ TGL_at	C/T	T	0.367	2	135347870	0.00070935	6.406	1.49E-10	-9.8257	AK075041	CCNT2	T_C	C	T	T	C	negative
rs9341077	100303655_ TGL_at	C/T	T	0.992	6	152464821	0.00071157	4.683	2.83E-06	-5.5487	NM_000125	ESR1	C_T	C	T	C	T	negative
rs11042032	100130569_ TGL_at	A/T	T	0.509	11	8653448	0.00071393	11.769	5.64E-32	-31.2488	AK000908		A_T	A	T	A	T	negative
rs11042032	100145297_ TGL_at	A/T	T	0.509	11	8653448	0.00071393	9.838	7.72E-23	-22.1122	ENST000002 99550	TRIM66	A_T	A	T	A	T	negative
rs3117579	100151160_ TGL_at	G/T	T	0.108	6	31741475	0.00071756	-4.156	3.24E-05	-4.4896	NM_001623	AIF1	T_G	G	T	T	G	negative
rs1862362	100300070_ TGL_at	A/G	G	0.442	5	150510872	0.00072239	5.418	6.03E-08	-7.2199	Y00097	ANXA6	A_G	A	G	A	G	positive
rs1862362	100129059_ TGL_at	A/G	G	0.442	5	150510872	0.00072239	4.94	7.81E-07	-6.1072	NM_001155	ANXA6	A_G	A	G	A	G	positive
rs1800209	100146692_ TGL_at	A/G	G	0.125	13	76472984	0.00072322	-5.527	3.26E-08	-7.4871	NM_006493	CLN5	A_G	A	G	A	G	negative
rs2526625	100146735_ TGL_at	A/C	C	0.737	7	19009885	0.0007244	-12.84	9.29E-38	-37.0318	NM_178423	HDAC9	A_C	A	C	A	C	positive
rs10499135	100121877_ TGL_at	A/G	G	0.433	6	126668026	0.00072484	-4.05	5.12E-05	-4.2906	NM_001012 507	C6orf173	A_G	A	G	A	G	negative
rs6502482	100146347_ TGL_at	C/G	G	0.517	17	15839966	0.00072553	11.671	1.79E-31	-30.7464	NM_000676	ADORA2B	G_C	C	G	G	C	positive
rs6502482	100300365_ TGL_at	C/G	G	0.517	17	15839966	0.00072553	10.838	2.27E-27	-26.6432	X68487	ADORA2B	G_C	C	G	G	C	positive
rs2471338	100303520_ TGL_at	G/T	T	0.64	4	2963905	0.00072647	-15.95	2.85E-57	-56.5453	NM_001004 057	GRK4	T_G	G	T	T	G	negative
rs2471338	100134728_ TGL_at	G/T	T	0.64	4	2963905	0.00072647	-12.19	3.74E-34	-33.4275	NM_001004 056	GRK4	T_G	G	T	T	G	negative
rs629996	100139300_ TGL_at	C/T	T	0.466	8	109324382	0.00073622	4.873	1.1E-06	-5.9589	NM_014673	TTC35	C_T	C	T	C	T	negative
rs629996	100129666_ TGL_at	C/T	T	0.466	8	109324382	0.00073622	4.398	1.09E-05	-4.9616	NM_001146	ANGPT1	C_T	C	T	C	T	negative
rs512375	100311300_ TGL_at	G/T	T	0.55	2	135001749	0.00073732	5.206	1.93E-07	-6.7145	AL122044	TMEM163	T_G	G	T	T	G	negative
rs1265758	100302735_ TGL_at	A/G	G	0.509	6	32431507	0.00074626	-4.162	3.16E-05	-4.501	NM_004381	ATF6B	G_A	A	G	G	A	negative
rs735765	100145476_ TGL_at	A/G	G	0.842	6	28278276	0.00075298	-8.255	1.52E-16	-15.8184	XM_940433	ZNF389	G_A	A	G	G	A	positive
rs4970926	100161206_ TGL_at	C/T	T	0.517	1	148940308	0.00075885	-5.376	7.62E-08	-7.1183	NM_004436	ENSA	C_T	C	T	C	T	negative
rs4970926	100125530_ TGL_at	C/T	T	0.517	1	148940308	0.00075885	4.144	3.41E-05	-4.4669	NM_004079	CTSS	C_T	C	T	C	T	positive
rs3130618	100151160_ TGL_at	A/C	C	0.892	6	31740113	0.00075906	-4.156	3.24E-05	-4.4896	NM_001623	AIF1	A_C	A	C	A	C	negative
rs6430552	100144954_ TGL_at	C/T	T	0.362	2	135339278	0.00076295	-6.406	1.49E-10	-9.8257	AK075041	CCNT2	C_T	C	T	C	T	negative
rs1483267	100306816_ TGL_at	C/T	T	0.208	11	103219640	0.00076369	-5.899	3.66E-09	-8.4369	BU616629	PDGFD	T_C	C	T	T	C	negative
rs1483267	100132001_ TGL_at	C/T	T	0.208	11	103219640	0.00076369	-4.466	7.97E-06	-5.0986	BU616629	PDGFD	T_C	C	T	T	C	negative
rs2960785	100300632_ TGL_at	C/T	T	0.578	7	26918664	0.00076661	-4.158	3.21E-05	-4.4934	S79869	HOXA1	C_T	C	T	C	T	positive
rs2050188	100126591_ TGL_at	C/T	T	0.633	6	32447875	0.0007672	4.062	4.87E-05	-4.3129	NM_002119	HLA-DOA	T_C	C	T	T	C	positive
rs1344	100128577_ TGL_at	A/G	G	0.442	1	145585897	0.00076866	-14.41	4.68E-47	-46.3301	NM_016361	ACP6	A_G	A	G	A	G	positive
rs7163730	100313804_ TGL_at	A/G	G	0.208	15	76601736	0.0007702	-6.15	7.75E-10	-9.1108	AA532820		G_A	A	G	G	A	positive
rs134025	100307164_ TGL_at	G/T	T	0.533	22	26374057	0.00077521	-4.128	3.66E-05	-4.4366	BQ446922	MN1	G_T	G	T	G	T	positive

rs4660808	100133670_ TGL_at	C/T	T	0.233	1	39791096	0.00077739	7.092	1.32E-12	-11.8788	ENST000003 31856		C_T	C	T	C	T	negative
rs4660808	100148761_ TGL_at	C/T	T	0.233	1	39791096	0.00077739	6.703	2.04E-11	-10.69	NM_022120	OXCT2	C_T	C	T	C	T	negative
rs4660808	100313726_ TGL_at	C/T	T	0.233	1	39791096	0.00077739	4.893	9.93E-07	-6.003	AA732526		C_T	C	T	C	T	negative
rs2236783	100138467_ TGL_at	A/G	G	0.149	2	136310628	0.00077878	-12.57	3.05E-36	-35.5159	BT006710	DARS	G_A	A	G	G	A	positive
rs2236783	100148961_ TGL_at	A/G	G	0.149	2	136310628	0.00077878	-7.771	7.79E-15	-14.1086	BC008774	MCM6	G_A	A	G	G	A	positive
rs2236783	100305043_ TGL_at	A/G	G	0.149	2	136310628	0.00077878	-5.354	8.6E-08	-7.0653	D84557	MCM6	G_A	A	G	G	A	positive
rs2236783	100310941_ TGL_at	A/G	G	0.149	2	136310628	0.00077878	4.73	2.25E-06	-5.6487	AL833322	ZRANB3	G_A	A	G	G	A	negative
rs2523713	100137319_ TGL_at	A/G	G	0.775	6	30281309	0.00077912	7.986	1.39E-15	-14.8558	NM_001004 349		A_G	A	G	A	G	positive
rs2523713	100310523_ TGL_at	A/G	G	0.775	6	30281309	0.00077912	-7.299	2.9E-13	-12.5377	AW473609		A_G	A	G	A	G	negative
rs10103957	100154661_ TGL_at	C/T	T	0.117	8	144670152	0.0007797	-4.84	1.3E-06	-5.8866	NM_145201	NAPRT1	T_C	C	T	T	C	positive
rs9951973	100313618_ TGL_at	C/G	G	0.567	18	18808314	0.00078172	-7.576	3.56E-14	-13.4481	AA928204		G_C	C	G	G	C	negative
rs2844776	100137319_ TGL_at	C/T	T	0.789	6	30279806	0.00078445	-7.986	1.39E-15	-14.8558	NM_001004 349		T_C	C	T	T	C	positive
rs2844776	100310523_ TGL_at	C/T	T	0.789	6	30279806	0.00078445	7.299	2.9E-13	-12.5377	AW473609		T_C	C	T	T	C	negative
rs4656342	100305118_ TGL_at	C/G	G	0.212	1	160209115	0.00078568	-4.297	1.73E-05	-4.7616	CV805370	ATF6	G_C	C	G	G	C	negative
rs3094064	100313972_ TGL_at	A/G	G	0.858	6	30404232	0.0007861	4.858	1.19E-06	-5.926	AA159392	FLOT1	G_A	A	G	G	A	negative
rs7532311	100310881_ TGL_at	C/T	T	0.933	1	23581073	0.00078944	-7.466	8.27E-14	-13.0827	AL834485	ZNF436	C_T	C	T	C	T	positive
rs7532311	100127649_ TGL_at	C/T	T	0.933	1	23581073	0.00078944	-6.493	8.41E-11	-10.075	ENST000003 74608	ZNF436	C_T	C	T	C	T	positive
rs566890	100300284_ TGL_at	G/T	T	0.758	18	8787189	0.00079715	-6.818	9.23E-12	-11.0347	XM_031357	KIAA0802	G_T	G	T	G	T	negative
rs9268877	100125275_ TGL_at	A/G	G	0.55	6	32539125	0.0007974	-9.149	5.75E-20	-19.2406	BG755321	HLA- DRB1	A_G	A	G	A	G	positive
rs4969481	100124485_ TGL_at	C/T	T	0.017	17	77586501	0.00079912	8.802	1.34E-18	-17.8716	NM_016286	DCXR	C_T	C	T	C	T	positive
rs4969481	100151685_ TGL_at	C/T	T	0.017	17	77586501	0.00079912	-4.426	9.6E-06	-5.0177	NM_144998	STRA13	C_T	C	T	C	T	negative
rs7037371	100155123_ TGL_at	C/T	T	0.453	9	38006247	0.00080136	-4.657	3.21E-06	-5.4937	AK098185	MCART1	T_C	C	T	T	C	positive
rs7037371	100146140_ TGL_at	C/T	T	0.453	9	38006247	0.00080136	-4.354	1.34E-05	-4.8739	ENST000003 77724	WDR32	T_C	C	T	T	C	positive
rs11874249	100312458_ TGL_at	C/T	T	0.768	18	55329317	0.00080491	-5.798	6.71E-09	-8.1732	AI822141	CCBE1	C_T	C	T	C	T	positive
rs971570	100137319_ TGL_at	A/C	C	0.225	6	30280492	0.00080571	7.986	1.39E-15	-14.8558	NM_001004 349		C_A	A	C	C	A	positive
rs971570	100310523_ TGL_at	A/C	C	0.225	6	30280492	0.00080571	-7.299	2.9E-13	-12.5377	AW473609		C_A	A	C	C	A	negative
rs7758054	100306458_ TGL_at	A/T	T	0.708	6	56507690	0.00080853	5.086	3.66E-07	-6.4369	BX364902	DST	T_A	A	T	T	A	negative
rs6776974	100309898_ TGL_at	A/G	G	0.115	3	114737213	0.0008098	4.686	2.79E-06	-5.555	BC016799	WDR52	G_A	A	G	G	A	negative
rs6776974	100126013_ TGL_at	A/G	G	0.115	3	114737213	0.0008098	4.404	1.06E-05	-4.9736	ENST000003 08346	WDR52	G_A	A	G	G	A	negative
rs6776974	100157274_ TGL_at	A/G	G	0.115	3	114737213	0.0008098	4.035	5.46E-05	-4.2628	NM_018338	WDR52	G_A	A	G	G	A	negative
rs17162316	100306509_ TGL_at	C/G	G	0.133	1	27050494	0.00081397	8.093	5.82E-16	-15.235	BX282734	PIGV	G_C	C	G	G	C	positive

rs17162316	100137081_ TGL_at	C/G	G	0.133	1	27050494	0.00081397	7.622	2.5E-14	-13.6025	NM_017837	PIGV	G_C	C	G	G	C	positive
rs17162316	100136478_ TGL_at	C/G	G	0.133	1	27050494	0.00081397	5.595	2.21E-08	-7.6564	NM_139135	ARID1A	G_C	C	G	G	C	positive
rs17162316	100149978_ TGL_at	C/G	G	0.133	1	27050494	0.00081397	4.834	1.34E-06	-5.8735	NM_021969	NR0B2	G_C	C	G	G	C	positive
rs2804529	100309207_ TGL_at	A/T	T	0.775	10	76608269	0.00081766	4.518	6.24E-06	-5.2046	BC072407	VDAC2	A_T	A	T	A	T	negative
rs2804529	100153741_ TGL_at	A/T	T	0.775	10	76608269	0.00081766	4.072	4.66E-05	-4.3315	NM_003375	VDAC2	A_T	A	T	A	T	negative
rs6566060	100306063_ TGL_at	C/T	T	0.136	18	71009457	0.00081809	5.15	2.6E-07	-6.5842	BX647730	ZADH2	C_T	C	T	C	T	positive
rs6566060	100134955_ TGL_at	C/T	T	0.136	18	71009457	0.00081809	4.767	1.87E-06	-5.7282	BC010734	ZADH2	C_T	C	T	C	T	positive
rs7017868	100122765_ TGL_at	A/G	G	0.492	8	8910703	0.00081963	-6.362	1.99E-10	-9.7008	AL137679	THEX1	A_G	A	G	A	G	positive
rs7017868	100152809_ TGL_at	A/G	G	0.492	8	8910703	0.00081963	-4.077	4.56E-05	-4.3408	NM_153332	THEX1	A_G	A	G	A	G	positive
rs7617480	100160114_ TGL_at	A/C	C	0.75	3	49185736	0.00082127	-9.965	2.17E-23	-22.6638	AK001120		A_C	A	C	A	C	negative
rs7617480	100162155_ TGL_at	A/C	C	0.75	3	49185736	0.00082127	-4.469	7.86E-06	-5.1047	AF017306	USP4	A_C	A	C	A	C	negative
rs7617480	100155972_ TGL_at	A/C	C	0.75	3	49185736	0.00082127	-4.056	4.99E-05	-4.3017	AK223292	USP4	A_C	A	C	A	C	negative
rs11720657	100313943_ TGL_at	A/G	G	0.729	3	49367624	0.00082261	-5.823	5.78E-09	-8.2381	AA229292	CCDC51	A_G	A	G	A	G	negative
rs2036291	100305792_ TGL_at	A/G	G	0.433	3	153549483	0.00082893	-4.1	4.13E-05	-4.3839	CA414870	MBNL1	G_A	A	G	G	A	positive
rs2021722	100137319_ TGL_at	C/T	T	0.225	6	30282110	0.00082989	7.986	1.39E-15	-14.8558	NM_001004 349		T_C	C	T	T	C	positive
rs2021722	100310523_ TGL_at	C/T	T	0.225	6	30282110	0.00082989	-7.299	2.9E-13	-12.5377	AW473609		T_C	C	T	T	C	negative
rs4792827	100150806_ TGL_at	C/T	T	0.417	17	41487141	0.00083184	-4.871	1.11E-06	-5.9545	AK025172		C_T	C	T	C	T	negative
rs4930826	100150849_ TGL_at	A/T	T	0.367	12	28618585	0.00083233	4.672	2.98E-06	-5.5254	AK092571		T_A	A	T	T	A	positive
rs6430547	100304349_ TGL_at	C/T	T	0.358	2	135328892	0.00083459	8.036	9.28E-16	-15.0324	EB387822	CCNT2	T_C	C	T	T	C	negative
rs2395150	100302735_ TGL_at	A/G	G	0.483	6	32434023	0.00083535	-4.162	3.16E-05	-4.501	NM_004381	ATF6B	A_G	A	G	A	G	negative
rs702688	100131401_ TGL_at	A/G	G	0.617	5	56226743	0.00083818	17.931	6.75E-72	-71.1704	NM_153706	C5orf35	A_G	A	G	A	G	positive
rs2836362	100136326_ TGL_at	C/T	T	0.661	21	38686654	0.00085623	-7.751	9.12E-15	-14.0401	U17624		C_T	C	T	C	T	positive
rs6772483	100150755_ TGL_at	A/G	G	0.608	3	159898693	0.00085624	-15.28	9.77E-53	-52.0099	NM_024996	GFM1	A_G	A	G	A	G	positive
rs6772483	100141104_ TGL_at	A/G	G	0.608	3	159898693	0.00085624	-7.225	5.01E-13	-12.3001	BC049210	GFM1	A_G	A	G	A	G	positive
rs6772483	100301664_ TGL_at	A/G	G	0.608	3	159898693	0.00085624	-5.2	1.99E-07	-6.7005	NM_024996	GFM1	A_G	A	G	A	G	positive
rs3129061	100303994_ TGL_at	C/T	T	0.245	6	29777979	0.00085648	-27.25	1.9E-163	-162.732	ENST000003 76881	ZFP57	T_C	C	T	T	C	negative
rs3129061	100311606_ TGL_at	C/T	T	0.245	6	29777979	0.00085648	-13.54	9.33E-42	-41.0301	AK125274	HLA-F	T_C	C	T	T	C	negative
rs3129061	100300348_ TGL_at	C/T	T	0.245	6	29777979	0.00085648	11.558	6.73E-31	-30.1723	X81001	HCG2P7	T_C	C	T	T	C	positive
rs3129061	100143227_ TGL_at	C/T	T	0.245	6	29777979	0.00085648	9.975	1.96E-23	-22.7075	X81001	HCG2P7	T_C	C	T	T	C	positive
rs3129061	100141578_ TGL_at	C/T	T	0.245	6	29777979	0.00085648	4.022	5.77E-05	-4.2388	NM_001003 807	RP3- 377H14.5	T_C	C	T	T	C	positive
rs11944404	100302095_ TGL_at	C/T	T	0.508	4	145890321	0.00085734	4.118	3.82E-05	-4.4177	NM_017493	OTUD4	C_T	C	T	C	T	negative

rs16877282	100303540_ TGL_at	A/G	G	0.921	5	6468844	0.0008595	5.394	6.89E-08	-7.1617	NM_001001 702		A_G	A	G	A	G	positive
rs16877282	100138705_ TGL_at	A/G	G	0.921	5	6468844	0.0008595	4.106	4.03E-05	-4.3952	NM_001001 702		A_G	A	G	A	G	positive
rs6699701	100122866_ TGL_at	C/T	T	0.3	1	28171538	0.00086249	-12.96	2.04E-38	-37.6913	ENST000003 73871	EYA3	C_T	C	T	C	T	negative
rs4500045	100121683_ TGL_at	A/G	G	0.567	8	82180487	0.00086266	4.528	5.95E-06	-5.2252	AW404907		A_G	A	G	A	G	negative
rs9272346	100311704_ TGL_at	A/G	G	0.45	6	32712350	0.00086271	-20.08	1.06E-89	-88.9745	AK097297	HLA- DQB1	G_A	A	G	G	A	positive
rs9272346	100126665_ TGL_at	A/G	G	0.45	6	32712350	0.00086271	-11.49	1.45E-30	-29.8395	NM_032741	AGPAT1	G_A	A	G	G	A	positive
rs9272346	100135327_ TGL_at	A/G	G	0.45	6	32712350	0.00086271	-8.603	7.77E-18	-17.1098	NM_006411	AGPAT1	G_A	A	G	G	A	positive
rs9272346	100157567_ TGL_at	A/G	G	0.45	6	32712350	0.00086271	-7.449	9.41E-14	-13.0266	NM_182549	HLA- DQB2	G_A	A	G	G	A	positive
rs1474589	100135231_ TGL_at	G/T	T	0.075	6	28429523	0.00087547	4.235	2.29E-05	-4.641	BC032507	PGBD1	T_G	G	T	T	G	positive
rs2524005	100138253_ TGL_at	A/G	G	0.767	6	30007656	0.00087652	-4.574	4.79E-06	-5.3201	CR933629	HCG8	G_A	A	G	G	A	positive
rs4968255	100306281_ TGL_at	C/T	T	0.225	17	42667812	0.00088646	-11.75	6.98E-32	-31.1562	BX537519	C17orf57	T_C	C	T	T	C	negative
rs4968255	100308684_ TGL_at	C/T	T	0.225	17	42667812	0.00088646	-4.07	4.7E-05	-4.3278	BF224332		T_C	C	T	T	C	negative
rs4968255	100149604_ TGL_at	C/T	T	0.225	17	42667812	0.00088646	-4.04	5.35E-05	-4.272	AA430297		T_C	C	T	T	C	negative
rs3816125	100311198_ TGL_at	A/G	G	0.467	18	42855609	0.00089082	-7.139	9.4E-13	-12.0268	AL512748	KATNAL2	G_A	A	G	G	A	positive
rs2937121	100300793_ TGL_at	G/T	T	0.558	16	68427910	0.00089223	4.093	4.26E-05	-4.3708	NM_199423	WWP2	T_G	G	T	T	G	positive
rs255751	100139549_ TGL_at	C/T	T	0.741	5	53355274	0.00089348	4.232	2.32E-05	-4.6352	BQ024800		C_T	C	T	C	T	positive
rs164867	100311884_ TGL_at	A/G	G	0.842	1	13741114	0.00089483	-4.322	1.55E-05	-4.8107	AK075345	PDPN	A_G	A	G	A	G	negative
rs2534674	100138417_ TGL_at	C/T	T	0.433	6	31573082	0.00089905	-11.36	6.39E-30	-29.1944	AK055022		T_C	C	T	T	C	positive
rs1415148	100308717_ TGL_at	A/G	G	0.625	1	148972379	0.00090016	-8.318	8.95E-17	-16.0484	BF115327	GOLPH3L	A_G	A	G	A	G	positive
rs1415148	100159164_ TGL_at	A/G	G	0.625	1	148972379	0.00090016	-5.716	1.09E-08	-7.9623	BM928226	GOLPH3L	A_G	A	G	A	G	positive
rs1415148	100143466_ TGL_at	A/G	G	0.625	1	148972379	0.00090016	-5.675	1.39E-08	-7.858	BX405157	GOLPH3L	A_G	A	G	A	G	positive
rs565203	100135523_ TGL_at	C/T	T	0.615	8	8670367	0.00090256	-4.296	1.74E-05	-4.7597	NM_194284	CLDN23	C_T	C	T	C	T	positive
rs689623	100136633_ TGL_at	C/T	T	0.025	11	94287761	0.00090447	-5.228	1.71E-07	-6.7661	AK093699	AMOTL1	T_C	C	T	T	C	negative
rs2836371	100136326_ TGL_at	C/T	T	0.661	21	38695398	0.00090532	-7.751	9.12E-15	-14.0401	U17624		C_T	C	T	C	T	positive
rs12067677	100137694_ TGL_at	C/T	T	0.202	1	26284558	0.0009087	-10.09	5.99E-24	-23.2223	NM_032588	TRIM63	T_C	C	T	T	C	positive
rs7644148	100129450_ TGL_at	A/G	G	0.7	3	49520245	0.00091339	-6.063	1.34E-09	-8.8742	ENST000002 73598	NICN1	A_G	A	G	A	G	negative
rs2015353	100132808_ TGL_at	C/T	T	0.542	17	15814000	0.00091586	-6.449	1.13E-10	-9.9485	NM_017775	TTC19	C_T	C	T	C	T	negative
rs7739034	100139965_ TGL_at	C/T	T	0.5	6	87942905	0.0009162	12.744	3.37E-37	-36.4728	BX537746	ZNF292	C_T	C	T	C	T	positive
rs7739034	100144708_ TGL_at	C/T	T	0.5	6	87942905	0.0009162	9.494	2.22E-21	-20.653	AL050201	C6orf162	C_T	C	T	C	T	positive
rs7739034	100147499_ TGL_at	C/T	T	0.5	6	87942905	0.0009162	-9.265	1.95E-20	-19.7098	ENST000003 69572	C6orf164	C_T	C	T	C	T	negative
rs7739034	100128463_ TGL_at	C/T	T	0.5	6	87942905	0.0009162	-7.513	5.78E-14	-13.2382	AK022079		C_T	C	T	C	T	negative

rs7739034	100134209_ TGL_at	C/T	T	0.5	6	87942905	0.0009162	-7.043	1.88E-12	-11.7255	R62370		C_T	C	T	C	T	negative
rs7739034	100143632_ TGL_at	C/T	T	0.5	6	87942905	0.0009162	-6.651	2.91E-11	-10.5359	BC070260	C6orf162	C_T	C	T	C	T	negative
rs2938852	100305257_ TGL_at	G/T	T	0.225	10	76583884	0.00091873	5.232	1.68E-07	-6.7755	CR609899	VDAC2	T_G	G	T	T	G	negative
rs6602776	100149806_ TGL_at	C/T	T	0.219	10	15049510	0.00092222	-9.739	2.06E-22	-21.687	NM_001080 836	MEIG1	C_T	C	T	C	T	negative
rs738415	100307496_ TGL_at	A/G	G	0.892	22	48481817	0.00092642	6.38	1.77E-10	-9.7518	BM977889	C22orf34	A_G	A	G	A	G	positive
rs4836224	100145444_ TGL_at	A/C	C	0.427	5	122120774	0.00092655	-4.102	4.1E-05	-4.3876	AK026718		A_C	A	C	A	C	positive
rs213238	100143968_ TGL_at	C/T	T	0.619	6	28429972	0.00093426	18.763	1.52E-78	-77.8193	NM_145909	ZNF323	T_C	C	T	T	C	negative
rs213238	100301615_ TGL_at	C/T	T	0.619	6	28429972	0.00093426	18.279	1.22E-74	-73.9149	NM_030899	ZNF323	T_C	C	T	T	C	negative
rs4929941	100136729_ TGL_at	C/T	T	0.642	11	8581527	0.00093587	6.157	7.41E-10	-9.13	AW138771	TRIM66	C_T	C	T	C	T	negative
rs4929941	100162298_ TGL_at	C/T	T	0.642	11	8581527	0.00093587	-5.674	1.4E-08	-7.8554	ENST000003 56931	RPL27A	C_T	C	T	C	T	positive
rs9843440	100135841_ TGL_at	A/C	C	0.567	3	186472127	0.00093639	4.485	7.29E-06	-5.1372	BC011030	EHHADH	A_C	A	C	A	C	positive
rs9843440	100155000_ TGL_at	A/C	C	0.567	3	186472127	0.00093639	4.076	4.58E-05	-4.339	NM_001025 266	C3orf70	A_C	A	C	A	C	positive
rs685912	100304878_ TGL_at	A/T	T	0.192	18	30915253	0.00093695	4.362	1.29E-05	-4.8898	DA748162	ZNF271	T_A	A	T	T	A	negative
rs7732013	100309539_ TGL_at	C/T	T	0.025	5	35192289	0.00093718	-4.045	5.23E-05	-4.2813	BC037857	RAD1	T_C	C	T	T	C	positive
rs2527197	100129573_ TGL_at	A/G	G	0.192	7	158428021	0.00093792	5.56	2.7E-08	-7.569	NM_018051	WDR60	G_A	A	G	G	A	positive
rs2527197	100301867_ TGL_at	A/G	G	0.192	7	158428021	0.00093792	4.282	1.85E-05	-4.7323	NM_020728	FAM62B	G_A	A	G	G	A	positive
rs2527197	100136204_ TGL_at	A/G	G	0.192	7	158428021	0.00093792	4.046	5.21E-05	-4.2832	NM_017760	NCAPG2	G_A	A	G	G	A	positive
rs4983579	100151496_ TGL_at	A/G	G	0.792	14	104626441	0.00094072	-4.286	1.82E-05	-4.7401	NM_177533	NUDT14	A_G	A	G	A	G	positive
rs17339831	100122984_ TGL_at	C/G	G	0.839	5	142724285	0.00094465	-10.81	3.22E-27	-26.4916	NM_001018 074	NR3C1	C_G	C	G	C	G	negative
rs17339831	100129487_ TGL_at	C/G	G	0.839	5	142724285	0.00094465	-7.219	5.24E-13	-12.2809	U01351	NR3C1	C_G	C	G	C	G	negative
rs2521222	100128819_ TGL_at	C/T	T	0.517	7	24508049	0.00095026	-6.465	1.01E-10	-9.9944	NM_016447	MPP6	C_T	C	T	C	T	positive
rs2521222	100136557_ TGL_at	C/T	T	0.517	7	24508049	0.00095026	-4.439	9.04E-06	-5.0439	BC012034	MPP6	C_T	C	T	C	T	positive
rs17356867	100136066_ TGL_at	C/T	T	0.783	1	26321436	0.00095448	-10.29	7.98E-25	-24.0979	AI884856		C_T	C	T	C	T	positive
rs17356867	100154120_ TGL_at	C/T	T	0.783	1	26321436	0.00095448	4.535	5.76E-06	-5.2396	NM_006314	CNKSRI	C_T	C	T	C	T	negative
rs4790	100311439_ TGL_at	C/T	T	0.068	12	52159633	0.0009565	-15.31	6.17E-53	-52.21	AK225357	PCBP2	C_T	C	T	C	T	negative
rs4790	100302531_ TGL_at	C/T	T	0.068	12	52159633	0.0009565	-12.1	1.08E-33	-32.9657	NM_006301	MAP3K12	C_T	C	T	C	T	negative
rs4790	100131043_ TGL_at	C/T	T	0.068	12	52159633	0.0009565	9.702	2.96E-22	-21.5292	NM_005016	PCBP2	C_T	C	T	C	T	positive
rs4790	100302664_ TGL_at	C/T	T	0.068	12	52159633	0.0009565	8.836	9.92E-19	-18.0035	NM_005016. 2	PCBP2	C_T	C	T	C	T	positive
rs4790	100137523_ TGL_at	C/T	T	0.068	12	52159633	0.0009565	7.349	2E-13	-12.6996	BC071942	PCBP2	C_T	C	T	C	T	positive
rs4790	100306859_ TGL_at	C/T	T	0.068	12	52159633	0.0009565	-5.852	4.86E-09	-8.3136	BU538613	MAP3K12	C_T	C	T	C	T	negative
rs4790	100137986_ TGL_at	C/T	T	0.068	12	52159633	0.0009565	-4.05	5.12E-05	-4.2906	NM_173860	HOXC12	C_T	C	T	C	T	negative

rs12446197	100122963_ TGL_at	A/G	G	0.449	16	68412370	0.00095679	11.446	2.46E-30	-29.6086	AL833251	PDXDC2	A_G	A	G	A	G	positive
rs12446197	100310948_ TGL_at	A/G	G	0.449	16	68412370	0.00095679	5.438	5.39E-08	-7.2686	AL833251	PDXDC2	A_G	A	G	A	G	positive
rs2293476	100302787_ TGL_at	C/G	G	0.767	1	39809434	0.0009581	-5.611	2.01E-08	-7.6965	NM_003819	PABPC4	G_C	C	G	G	C	positive
rs1147761	100122767_ TGL_at	C/T	T	0.733	18	32655158	0.00095955	12.189	3.56E-34	-33.4488	CA417101	C18orf10	T_C	C	T	T	C	negative
rs1147761	100305245_ TGL_at	C/T	T	0.733	18	32655158	0.00095955	10.374	3.26E-25	-24.4873	CR614442	C18orf10	T_C	C	T	T	C	negative
rs1147761	100135353_ TGL_at	C/T	T	0.733	18	32655158	0.00095955	9.567	1.1E-21	-20.9584	BG420782	C18orf10	T_C	C	T	T	C	negative
rs1147761	100308899_ TGL_at	C/T	T	0.733	18	32655158	0.00095955	8.935	4.07E-19	-18.3902	BE548302	C18orf10	T_C	C	T	T	C	negative
rs1147761	100126219_ TGL_at	C/T	T	0.733	18	32655158	0.00095955	-8.403	4.35E-17	-16.3613	BC037214		T_C	C	T	T	C	positive
rs1147761	100160039_ TGL_at	C/T	T	0.733	18	32655158	0.00095955	5.041	4.63E-07	-6.3343	AA702940		T_C	C	T	T	C	negative
rs1147761	100146695_ TGL_at	C/T	T	0.733	18	32655158	0.00095955	-4.534	5.79E-06	-5.2375	XM_001128 998	BRUNOL4	T_C	C	T	T	C	positive
rs8897	100124708_ TGL_at	C/T	T	0.3	3	49435411	0.00096089	10.719	8.29E-27	-26.0815	NM_000481	AMT	T_C	C	T	T	C	positive
rs8897	100138300_ TGL_at	C/T	T	0.3	3	49435411	0.00096089	-7.763	8.29E-15	-14.0812	NM_001664	RHOA	T_C	C	T	T	C	negative
rs8897	100314021_ TGL_at	C/T	T	0.3	3	49435411	0.00096089	7.369	1.72E-13	-12.7647	AA034951	ARIH2	T_C	C	T	T	C	positive
rs8897	100130226_ TGL_at	C/T	T	0.3	3	49435411	0.00096089	4.789	1.68E-06	-5.7757	NM_016453	NCKIPSD	T_C	C	T	T	C	positive
rs12071062	100137694_ TGL_at	G/T	T	0.8	1	26284786	0.00096158	-10.09	5.99E-24	-23.2223	NM_032588	TRIM63	G_T	G	T	G	T	positive
rs6009826	100149241_ TGL_at	A/T	T	0.892	22	48476247	0.00097183	-6.14	8.25E-10	-9.0834	AK128192		A_T	A	T	A	T	negative
rs6009826	100129499_ TGL_at	A/T	T	0.892	22	48476247	0.00097183	-5.418	6.03E-08	-7.2199	ENST000003 80976	C22orf34	A_T	A	T	A	T	negative
rs13175787	100153252_ TGL_at	A/G	G	0.092	5	175759469	0.00097351	-15.77	4.85E-56	-55.3144	NM_138820	HIGD2A	G_A	A	G	G	A	negative
rs13175787	100134693_ TGL_at	A/G	G	0.092	5	175759469	0.00097351	-10.91	1.08E-27	-26.967	NM_007097	CLTB	G_A	A	G	G	A	negative
rs13175787	100141815_ TGL_at	A/G	G	0.092	5	175759469	0.00097351	-5.313	1.08E-07	-6.9672	NM_016391	NOP16	G_A	A	G	G	A	negative
rs7631174	100304176_ TGL_at	C/T	T	0.608	3	101396592	0.00097419	-6.366	1.94E-10	-9.7122	ENST000003 33147	C3orf26	C_T	C	T	C	T	negative
rs7631174	100159492_ TGL_at	C/T	T	0.608	3	101396592	0.00097419	-5.925	3.12E-09	-8.5054	NM_032359	C3orf26	C_T	C	T	C	T	negative
rs3129909	100302735_ TGL_at	A/G	G	0.483	6	32433688	0.00097429	-4.162	3.16E-05	-4.501	NM_004381	ATF6B	A_G	A	G	A	G	negative
rs1046089	100126781_ TGL_at	A/G	G	0.675	6	31710946	0.00098195	7.007	2.44E-12	-11.6135	NM_025262	LY6G5C	A_G	A	G	A	G	positive
rs1046089	100162932_ TGL_at	A/G	G	0.675	6	31710946	0.00098195	5.4	6.66E-08	-7.1763	BF064119		A_G	A	G	A	G	positive
rs1046089	100138357_ TGL_at	A/G	G	0.675	6	31710946	0.00098195	4.464	8.04E-06	-5.0945	NM_033177	BAT4	A_G	A	G	A	G	positive
rs9878610	100157152_ TGL_at	A/G	G	0.75	3	134002566	0.00098489	6.52	7.03E-11	-10.153	AK095050	TMEM108	A_G	A	G	A	G	negative
rs9878610	100139628_ TGL_at	A/G	G	0.75	3	134002566	0.00098489	6.388	1.68E-10	-9.7745	NM_023943	TMEM108	A_G	A	G	A	G	negative
rs2369832	100159303_ TGL_at	C/T	T	0.2	3	133920080	0.00098505	-11.33	9.43E-30	-29.0256	NM_153240	NPHP3	C_T	C	T	C	T	negative
rs2369832	100143326_ TGL_at	C/T	T	0.2	3	133920080	0.00098505	-9.986	1.76E-23	-22.7557	AK094015	NPHP3	C_T	C	T	C	T	negative
rs2369832	100311821_ TGL_at	C/T	T	0.2	3	133920080	0.00098505	-9.345	9.19E-21	-20.0367	AK092910	NPHP3	C_T	C	T	C	T	negative

rs2369832	100313479_ TGI_at	C/T	T	0.2	3	133920080	0.00098505	-8.28	1.23E-16	-15.9095	AB056657	NPHP3	C_T	C	T	C	T	negative
rs7983607	100162913_ TGI_at	G/T	T	0.6	13	49339455	0.00098909	-4.855	1.2E-06	-5.9194	AF034756	KPNA3	G_T	G	T	G	T	positive
rs7983607	100141096_ TGI_at	G/T	T	0.6	13	49339455	0.00098909	-4.506	6.61E-06	-5.1801	DQ892644	KPNA3	G_T	G	T	G	T	positive
rs1233699	100148250_ TGI_at	A/T	T	0.75	6	28277137	0.00099046	-5.134	2.84E-07	-6.5472	BC040524	ZSCAN12 L1	A_T	A	T	A	T	negative
rs1233699	100144299_ TGI_at	A/T	T	0.75	6	28277137	0.00099046	4.387	1.15E-05	-4.9396	AK130456		A_T	A	T	A	T	positive
rs12089989	100306322_ TGI_at	A/G	G	0.627	1	148982406	0.00099395	7.499	6.43E-14	-13.1917	BX470720	ARNT	A_G	A	G	A	G	negative
rs6933779	100155331_ TGI_at	C/T	T	0.129	6	31488711	0.00099556	24.623	7.2E-134	-133.145	BC035656		T_C	C	T	T	C	negative
rs6933779	100300038_ TGI_at	C/T	T	0.129	6	31488711	0.00099556	-5.477	4.33E-08	-7.3639	Z33453	HLA-B	T_C	C	T	T	C	positive
rs1135403	100304832_ TGI_at	G/T	T	0.625	15	61132011	0.00099797	7.9	2.79E-15	-14.5545	DA897550	TPM1	G_T	G	T	G	T	negative
rs7756729	100311276_ TGI_at	C/T	T	0.975	6	142617815	0.00099882	-5.069	4E-07	-6.398	AL136684	VTA1	C_T	C	T	C	T	positive
rs7756729	100153205_ TGI_at	C/T	T	0.975	6	142617815	0.00099882	-4.965	6.87E-07	-6.163	NM_016485	VTA1	C_T	C	T	C	T	positive
rs12179134	100150625_ TGI_at	A/G	G	0.19	6	27783448	0.00099903	-4.765	1.89E-06	-5.7239	NM_001076 781	ZNF391	G_A	A	G	G	A	negative

Supplementary Table 3: FEV₁ trans-eSNPs

Table shows the list of FEV₁ trans acting eSNPs. Header definitions are the same as Supplementary Table 2.

FEV ₁ trans lung eSNPs																		
eSNP	eSNP regulated probeset	GWA S SNP alleles	GW AS Reference allele	Reference allele freq in HapMap	Chr	SNP Position	GWAS_ Pval_ FEV1	eQTL Z meta	eQTL P value	log10. pvalue. meta	sequence source ID	Gene Symbol	eQTL- alleles	GWAS _ noncod ed_ alleles	GWAS _ coded_ alleles	eQTL_ noncode d_ alleles	eQT L_ co ded_ allele s	Expected Direction Of Effect of mRNA with lung function
rs9468413	100311443_T GI_at	A/C	C	0.15	6	28797651	7.06E-06	-6.347	2.2E-10	-9.6585	AK225208	LRRC16A	A_C	A	C	A	C	positive
rs13193532	100303994_T GI_at	A/G	G	0.145	6	28730893	1.16E-05	15.855	1.3E-56	-55.8866	ENST00000376881	ZFP57	A_G	A	G	A	G	negative
rs13193532	100311606_T GI_at	A/G	G	0.145	6	28730893	1.16E-05	8.712	3E-18	-17.525	AK125274	HLA-F	A_G	A	G	A	G	negative
rs13193532	100309580_T GI_at	A/G	G	0.145	6	28730893	1.16E-05	14.14	2.2E-45	-44.667	BC035659		A_G	A	G	A	G	negative
rs3132450	100300398_T GI_at	A/G	G	0.092	6	31704117	4.30E-05	8.067	7.2E-16	-15.1424	X03068	HLA-DQB1	G_A	A	G	G	A	positive
rs3132450	100304009_T GI_at	A/G	G	0.092	6	31704117	4.30E-05	8.117	4.8E-16	-15.3207	ENST00000374943	HLA-DQB1	G_A	A	G	G	A	positive
rs3132450	100302941_T GI_at	A/G	G	0.092	6	31704117	4.30E-05	8.05	8.3E-16	-15.082	NM_002123	HLA-DQB1	G_A	A	G	G	A	positive
rs1264377	100141210_T GI_at	A/G	G	0.808	6	30872886	4.98E-05	-6.813	9.6E-12	-11.0196	ENST00000318669		G_A	A	G	G	A	positive
rs1264377	100304197_T GI_at	A/G	G	0.808	6	30872886	4.98E-05	-7.127	1E-12	-11.9889	ENST00000318669		G_A	A	G	G	A	positive
rs2523454	100138030_T GI_at	A/G	G	0.633	6	31475844	5.16E-05	-7.135	9.7E-13	-12.0142	U58024	HLA-G	G_A	A	G	G	A	positive
rs2959945	100149004_T GI_at	C/T	T	0.807	17	40931011	5.22E-05	22.348	1E-110	-109.899	BC017896		C_T	C	T	C	T	negative
rs156737	100129584_T GI_at	A/G	G	0.367	6	28003192	6.18E-05	-8.424	3.6E-17	-16.4391	ENST00000377186		G_A	A	G	G	A	negative
rs156737	100303991_T GI_at	A/G	G	0.367	6	28003192	6.18E-05	11.734	8.5E-32	-31.0689	ENST00000377186		G_A	A	G	G	A	negative
rs6430549	100138467_T GI_at	A/G	G	0.405	2	1.35E+08	6.58E-05	-8.143	3.9E-16	-15.4139	BT006710	DARS	G_A	A	G	G	A	positive
rs418891	100124649_T GI_at	G/T	T	0.2	17	41049321	8.22E-05	9.184	4.2E-20	-19.3816	AA446387		G_T	G	T	G	T	negative
rs418891	100144981_T GI_at	G/T	T	0.2	17	41049321	8.22E-05	21.403	1E-101	-100.902	BQ777623		G_T	G	T	G	T	negative
rs418891	100138516_T GI_at	G/T	T	0.2	17	41049321	8.22E-05	9.953	2.4E-23	-22.6114	BC114219	WNT3	G_T	G	T	G	T	negative
rs3130934	100126665_T GI_at	A/C	C	0.596	6	31236531	0.000142	7.481	7.4E-14	-13.1322	NM_032741	AGPAT1	C_A	A	C	C	A	positive
rs13191227	100161253_T GI_at	C/G	G	0.929	6	27498094	0.000154	18.173	8.4E-74	-73.0734	NM_007047	BTN3A2	C_G	C	G	C	G	positive
rs878918	100124262_T GI_at	A/G	G	0.339	17	41387462	0.000184	6.568	5.1E-11	-10.2925	AK057167		A_G	A	G	A	G	positive
rs2668628	100162323_T GI_at	A/G	G	0.814	17	41709662	0.000244	40.342	0	-355.106	AF338199		A_G	A	G	A	G	negative
rs3093975	100139688_T GI_at	A/G	G	0.797	6	31614117	0.000254	6.474	9.5E-11	-10.0203	AK055657	HCG18	A_G	A	G	A	G	positive
rs7197	100152956_T GI_at	C/T	T	0.283	6	32520558	0.000283	-6.936	4E-12	-11.3943	BC053580		T_C	C	T	T	C	positive
rs3132649	100162706_T GI_at	A/G	G	0.858	6	30429036	0.000313	8.594	8.4E-18	-17.0758	D83543		G_A	A	G	G	A	negative
rs3132649	100305045_T	A/G	G	0.858	6	30429036	0.000313	8.679	4E-18	-17.3987	D83543		G_A	A	G	G	A	negative

rs9268144	100309484_T GI_at	C/T	T	0.908	6	32365177	0.000325	9.648	5E-22	-21.3	BC041078	HLA-C	C_T	C	T	C	T	positive
rs3129950	100300978_T GI_at	C/G	G	0.908	6	32466179	0.000329	-6.748	1.5E-11	-10.8242	NM_178014	TUBB	C_G	C	G	C	G	negative
rs3094627	100162706_T GI_at	C/T	T	0.858	6	30429461	0.000437	-8.594	8.4E-18	-17.0758	D83543		C_T	C	T	C	T	negative
rs3094627	100305045_T GI_at	C/T	T	0.858	6	30429461	0.000437	-8.679	4E-18	-17.3987	D83543		C_T	C	T	C	T	negative
rs199439	100300682_T GI_at	A/G	G	0.192	17	42148686	0.000472	6.883	5.9E-12	-11.2321	R48770	BRWD1	A_G	A	G	A	G	negative
rs7739357	100127159_T GI_at	A/G	G	0.549	6	32549619	0.000477	19.796	3.2E-87	-86.4918	NM_021983	HLA- DRB4	A_G	A	G	A	G	negative
rs1264695	merck.AK128 290_at	A/G	G	0.242	6	30175871	0.000478	10.796	3.6E-27	-26.4443	NA	NA	G_A	A	G	G	A	positive
rs3130374	100305045_T GI_at	C/T	T	0.142	6	30429315	0.000485	8.679	4E-18	-17.3987	D83543		C_T	C	T	C	T	negative
rs3130374	100162706_T GI_at	C/T	T	0.142	6	30429315	0.000485	8.594	8.4E-18	-17.0758	D83543		C_T	C	T	C	T	negative
rs538628	100308628_T GI_at	C/G	G	0.814	17	42142496	0.00049	36.033	3E-284	-283.594	BF475443	LRRC37A4	C_G	C	G	C	G	positive
rs538628	100159134_T GI_at	C/G	G	0.814	17	42142496	0.00049	11.594	4.4E-31	-30.3546	NM_014798	PLEKHM1	C_G	C	G	C	G	negative
rs538628	100135158_T GI_at	C/G	G	0.814	17	42142496	0.00049	31.05	1E-211	-210.943	ENST00000329477	LRRC37A4	C_G	C	G	C	G	positive
rs3130375	100162706_T GI_at	A/C	C	0.866	6	30429711	0.000543	-8.594	8.4E-18	-17.0758	D83543		A_C	A	C	A	C	negative
rs3130375	100305045_T GI_at	A/C	C	0.866	6	30429711	0.000543	-8.679	4E-18	-17.3987	D83543		A_C	A	C	A	C	negative
rs3134930	100139572_T GI_at	C/T	T	0.06	6	32299598	0.000571	-17.86	2.4E-71	-70.6168	NM_022555	HLA- DRB3	T_C	C	T	T	C	negative
rs3094061	100162706_T GI_at	A/C	C	0.142	6	30429168	0.000592	-8.594	8.4E-18	-17.0758	D83543		C_A	A	C	C	A	negative
rs3094061	100305045_T GI_at	A/C	C	0.142	6	30429168	0.000592	-8.679	4E-18	-17.3987	D83543		C_A	A	C	C	A	negative
rs2248373	100302940_T GI_at	C/T	T	0.417	6	31554525	0.000661	6.31	2.8E-10	-9.5543	NM_002125	HLA- DRB5	C_T	C	T	C	T	positive
rs3130825	100308127_T GI_at	C/G	G	0.89	6	29331472	0.00076	6.85	7.4E-12	-11.1316	BG746649	HCG18	C_G	C	G	C	G	positive
rs9257744	100301615_T GI_at	A/C	C	0.242	6	29414329	0.000761	8.037	9.2E-16	-15.0359	NM_030899	ZNF323	A_C	A	C	A	C	negative
rs9257744	100143968_T GI_at	A/C	C	0.242	6	29414329	0.000761	8.116	4.8E-16	-15.3171	NM_145909	ZNF323	A_C	A	C	A	C	negative
rs7832968	100311514_T GI_at	A/G	G	0.534	8	8690299	0.000772	-6.428	1.3E-10	-9.8884	AK129982		A_G	A	G	A	G	negative
rs7832968	100312826_T GI_at	A/G	G	0.534	8	8690299	0.000772	-6.233	4.6E-10	-9.3395	AI217876		A_G	A	G	A	G	negative
rs172328	100123483_T GI_at	C/T	T	0.14	6	28898507	0.000784	-8.985	2.6E-19	-18.5871	AK056727	HCG4P6	T_C	C	T	T	C	negative
rs172328	100160221_T GI_at	C/T	T	0.14	6	28898507	0.000784	8.494	2E-17	-16.6997	NM_002127	HLA-G	T_C	C	T	T	C	positive
rs172328	100125007_T GI_at	C/T	T	0.14	6	28898507	0.000784	-8.095	5.7E-16	-15.2421	AF036974	C6orf12	T_C	C	T	T	C	negative
rs172328	100303756_T GI_at	C/T	T	0.14	6	28898507	0.000784	-7.69	1.5E-14	-13.8323	M27539	HLA-A	T_C	C	T	T	C	negative
rs172328	100129349_T GI_at	C/T	T	0.14	6	28898507	0.000784	14.655	1.3E-48	-47.9025	NM_002116	HLA-A	T_C	C	T	T	C	positive
rs16836230	100136516_T GI_at	C/G	G	0.759	1	1.49E+08	0.000799	-7.184	6.8E-13	-12.1694	hCT1834979.1		C_G	C	G	C	G	negative
rs3130453	100311825_T GI_at	C/T	T	0.467	6	31232828	0.000858	6.623	3.5E-11	-10.4535	AK092748	RP3- 377H14.5	C_T	C	T	C	T	negative
rs9272346	100158347_T	A/G	G	0.45	6	32712350	0.000863	-	5.1E-24	-23.2887	BF966155	C19orf6	G_A	A	G	G	A	positive

	GI_at							10.107											
rs9272346	100303039_T GI_at	A/G	G	0.45	6	32712350	0.000863	-7.529	5.1E-14	-13.2913	NM_001264	CDSN	G_A	A	G	G	A	positive	
rs9272346	100300305_T GI_at	A/G	G	0.45	6	32712350	0.000863	-6.341	2.3E-10	-9.6415	XM_001130818		G_A	A	G	G	A	positive	
rs2015353	100159981_T GI_at	C/T	T	0.542	17	15814000	0.000916	6.92	4.5E-12	-11.3452	XM_936321		C_T	C	T	C	T	positive	
rs3870339	100148878_T GI_at	A/T	T	0.294	3	49511867	0.000959	30.127	2E-199	-198.668	AA011598		T_A	A	T	T	A	negative	
rs200994	100141839_T GI_at	G/T	T	0.25	6	27921792	0.000964	6.604	4E-11	-10.3977	BC014021	BTN2A2	T_G	G	T	T	G	positive	
rs1794282	100126143_T GI_at	C/T	T	0.083	6	32774504	0.00097	6.437	1.2E-10	-9.9141	NM_019101	APOM	T_C	C	T	T	C	positive	

Supplementary Table 4: FEV₁/FVC *cis*-eSNPs

Table shows the list of FEV₁/FVC *cis* acting eSNPs. Header definitions are the same as Supplementary Table 2.

FEV1/FVC <i>cis</i> lung eSNPs																		
eSNP	eSNP regulated probeset	GWAS SNP alleles	GWAS Reference allele	Reference allele freq in HapMap	Chr	SNP Position	GWAS Pval FEV1/FVC	eQTL Z meta	eQTL P value	log10. pvalue. meta	sequence source ID	Gene Symbol	eQTL-alleles	GWAS noncode d_alleles	GWAS coded_alleles	eQTL_noncode d_alleles	eQTL_coded_alleles	Expected Direction Of Effect of mRNA with lung function
rs12509311	100139086_T GI_at	C/T	T	0.405	4	145698112	5.91E-19	-5.216	1.8E-07	-6.738	AK024689	cDNA clone map to HHIP	C_T	C	T	C	T	negative
rs13141641	100148028_T GI_at	C/T	T	0.564	4	145725906	8.45E-18	-4.071	4.7E-05	-4.3296	NM_022475	HHIP	T_C	C	T	T	C	negative
rs13141641	100133899_T GI_at	C/T	T	0.564	4	145725906	8.45E-18	-4.211	2.5E-05	-4.5948	AK124396	cDNA clone map to region upstream of HHIP	T_C	C	T	T	C	negative
rs2070600	100143779_T GI_at	C/T	T	0.05	6	32259421	9.07E-15	4.36	1.3E-05	-4.8858	NM_172197	AGER	T_C	C	T	T	C	negative
rs2070600	100313510_T GI_at	C/T	T	0.05	6	32259421	9.07E-15	4.607	4.1E-06	-5.3888	AB036432	AGER	T_C	C	T	T	C	negative
rs11853359	100308491_T GI_at	A/G	G	0.702	15	69408578	7.40E-14	-4.305	1.7E-05	-4.7773	BF969690	THSD4	A_G	A	G	A	G	negative
rs11853359	100142979_T GI_at	A/G	G	0.702	15	69408578	7.40E-14	-6.894	5.4E-12	-11.266	NM_024817	THSD4	A_G	A	G	A	G	negative
rs11853359	100310339_T GI_at	A/G	G	0.702	15	69408578	7.40E-14	-7.124	1E-12	-11.98	AY358143	THSD4	A_G	A	G	A	G	negative
rs2856437	100125191_T GI_at	A/G	G	0.95	6	32265342	4.99E-10	-4.428	9.5E-06	-5.0218	NM_020056	HLA-DQA2	G_A	A	G	G	A	negative
rs10906097	100149333_T GI_at	G/T	T	0.567	10	12283827	3.43E-09	6.077	1.2E-09	-8.912	NM_006023	CDC123	G_T	G	T	G	T	negative
rs6657613	100307969_T GI_at	A/T	T	0.534	1	17200787	3.55E-09	-7.108	1.2E-12	-11.929	BI715270		A_T	A	T	A	T	positive
rs2028467	100130228_T GI_at	A/G	G	0.65	15	69424902	4.16E-09	-4.596	4.3E-06	-5.3658	U79293		G_A	A	G	G	A	negative
rs805284	100309111_T GI_at	A/G	G	0.95	6	31790008	3.39E-08	4.234	2.3E-05	-4.6391	BC105735	MUC21	G_A	A	G	G	A	positive
rs805284	100159175_T GI_at	A/G	G	0.95	6	31790008	3.39E-08	4.946	7.6E-07	-6.1206	NM_001010909	MUC21	G_A	A	G	G	A	positive
rs1865736	100150862_T GI_at	A/G	G	0.75	12	94771960	3.76E-08	-8.603	7.8E-18	-17.11	BX108644		A_G	A	G	A	G	positive
rs4784887	100142706_T GI_at	A/G	G	0.358	16	56623125	8.02E-08	4.973	6.6E-07	-6.181	NM_002428	MMP15	A_G	A	G	A	G	negative
rs7730971	100147290_T GI_at	C/G	G	0.583	5	147771053	1.69E-07	5.094	3.5E-07	-6.4552	NM_001001325		C_G	C	G	C	G	positive
rs756345	100148014_T GI_at	A/G	G	0.667	4	90292237	2.26E-07	4.053	5.1E-05	-4.2961	NM_145715	TIGD2	G_A	A	G	G	A	negative
rs1481345	100303767_T GI_at	C/T	T	0.373	1	216894478	1.52E-06	-4.686	2.8E-06	-5.555	M19154	TGFB2	T_C	C	T	T	C	negative
rs7550829	100309227_T GI_at	C/T	T	0.075	1	17230164	1.74E-06	-4.518	6.2E-06	-5.2046	BC070363		C_T	C	T	C	T	negative
rs7550829	100155522_T GI_at	C/T	T	0.075	1	17230164	1.74E-06	-5.055	4.3E-07	-6.3661	BC070363		C_T	C	T	C	T	negative
rs599707	100139818_T	C/T	T	0.093	6	31916415	1.90E-06	5.467	4.6E-08	-7.3394	NM_080686	BAT2	T_C	C	T	T	C	positive

rs153918	GI_at 100306800_T GI_at	A/T	T	0.509	5	95063783	2.14E-06	6.762	1.4E-11	-10.866	BU619786	RHOBTB3	T_A	A	T	T	A	positive
rs153918	100126558_T GI_at	A/T	T	0.509	5	95063783	2.14E-06	7.31	2.7E-13	-12.573	NM_014899	RHOBTB3	T_A	A	T	T	A	positive
rs213002	100143194_T GI_at	A/C	C	0.475	5	95058745	2.17E-06	6.794	1.1E-11	-10.962	BC020231	RHOBTB3	A_C	A	C	A	C	positive
rs173879	100143194_T GI_at	C/G	G	0.517	5	95058021	2.27E-06	6.794	1.1E-11	-10.962	BC020231	RHOBTB3	G_C	C	G	G	C	positive
rs2548131	100143194_T GI_at	C/T	T	0.517	5	95054602	2.27E-06	6.794	1.1E-11	-10.962	BC020231	RHOBTB3	T_C	C	T	T	C	positive
rs169883	100154919_T GI_at	C/T	T	0.483	5	95059597	2.32E-06	-6.939	3.9E-12	-11.404	AK057894	RHOBTB3	T_C	C	T	T	C	positive
rs2609260	100160946_T GI_at	C/T	T	0.822	4	90055842	2.71E-06	7.071	1.5E-12	-11.813	NM_014883	FAM13A1	C_T	C	T	C	T	negative
rs2609260	100312038_T GI_at	C/T	T	0.822	4	90055842	2.71E-06	6.311	2.8E-10	-9.5571	AK027138	FAM13A1	C_T	C	T	C	T	negative
rs2609260	100151492_T GI_at	C/T	T	0.822	4	90055842	2.71E-06	7.285	3.2E-13	-12.493	AK023526		C_T	C	T	C	T	negative
rs3117574	100126143_T GI_at	A/G	G	0.9	6	31833209	2.75E-06	8.012	1.1E-15	-14.948	NM_019101	APOM	A_G	A	G	A	G	positive
rs316398	100309522_T GI_at	A/G	G	0.2	5	43073783	2.80E-06	5.274	1.3E-07	-6.8746	BC039088		G_A	A	G	G	A	positive
rs316398	100155226_T GI_at	A/G	G	0.2	5	43073783	2.80E-06	4.88	1.1E-06	-5.9743	AK075204	hCG_2039148	G_A	A	G	G	A	positive
rs316398	100129380_T GI_at	A/G	G	0.2	5	43073783	2.80E-06	6.767	1.3E-11	-10.881	ENST000003 14957		G_A	A	G	G	A	positive
rs316398	100123880_T GI_at	A/G	G	0.2	5	43073783	2.80E-06	6.08	1.2E-09	-8.9202	BC039088		G_A	A	G	G	A	positive
rs3891175	100305836_T GI_at	C/T	T	0.167	6	32742445	3.24E-06	6.962	3.4E-12	-11.474	CA308455	HLA-DPA1	T_C	C	T	T	C	positive
rs11257655	100139207_T GI_at	C/T	T	0.259	10	12347900	3.47E-06	13.121	2.5E-39	-38.603	BU616230	CAMK1D	C_T	C	T	C	T	negative
rs11257655	100142010_T GI_at	C/T	T	0.259	10	12347900	3.47E-06	14.628	1.9E-48	-47.73	NM_153498	CAMK1D	C_T	C	T	C	T	negative
rs11257655	100161388_T GI_at	C/T	T	0.259	10	12347900	3.47E-06	5.37	7.9E-08	-7.1038	AW900148		C_T	C	T	C	T	negative
rs11257655	100301887_T GI_at	C/T	T	0.259	10	12347900	3.47E-06	11.328	9.5E-30	-29.021	NM_020397	CAMK1D	C_T	C	T	C	T	negative
rs10076733	100158314_T GI_at	G/T	T	0.233	5	131788630	3.91E-06	4.217	2.5E-05	-4.6063	BC043424		G_T	G	T	G	T	negative
rs6450094	100135535_T GI_at	A/G	G	0.75	5	52258508	4.50E-06	-4.342	1.4E-05	-4.8502	X17033	ITGA2	A_G	A	G	A	G	negative
rs2548993	100123073_T GI_at	A/G	G	0.283	5	131836768	7.97E-06	6.364	2E-10	-9.7065	NM_003060	SLC22A5	A_G	A	G	A	G	negative
rs7209622	100308887_T GI_at	C/G	G	0.509	17	25280933	9.67E-06	-4.337	1.4E-05	-4.8403	BE614389	ANKRD13B	C_G	C	G	C	G	positive
rs7209622	100159312_T GI_at	C/G	G	0.509	17	25280933	9.67E-06	-4.194	2.7E-05	-4.5621	NM_152345	ANKRD13B	C_G	C	G	C	G	positive
rs8042238	100129239_T GI_at	C/T	T	0.638	15	76561326	9.85E-06	4.365	1.3E-05	-4.8958	AW118658	IREB2	C_T	C	T	C	T	negative
rs3219190	100149313_T GI_at	C/T	T	0.875	6	31605954	1.00E-05	4.408	1E-05	-4.9816	NM_007161	LST1	T_C	C	T	T	C	positive
rs2036527	100148404_T GI_at	A/G	G	0.575	15	76638670	1.19E-05	6.946	3.8E-12	-11.425	NM_002789	PSMA4	G_A	A	G	G	A	negative
rs17310361	100305819_T GI_at	C/T	T	0.908	11	72911372	1.28E-05	5.503	3.7E-08	-7.4278	CA311483	FAM168A	C_T	C	T	C	T	negative
rs1063281	100145096_T GI_at	C/T	T	0.608	2	218376977	1.37E-05	-4.309	1.6E-05	-4.7852	NM_022648	TNS1	T_C	C	T	T	C	positive
rs7727320	100134215_T GI_at	C/G	G	0.733	5	147812764	1.55E-05	-6.58	4.7E-11	-10.328	NM_030793	FBXO38	G_C	C	G	G	C	negative
rs3743024	100306577_T GI_at	A/G	G	0.4	15	39906263	1.56E-05	-9.895	4.4E-23	-22.359	BX102344	MGA	G_A	A	G	G	A	positive

	GI_at																	
rs10777747	100310201_T GI_at	A/G	G	0.331	12	94788101	1.58E-05	-4.409	1E-05	-4.9836	BC002505	SNRPF	A_G	A	G	A	G	negative
rs10777749	100145491_T GI_at	A/G	G	0.678	12	94801091	1.60E-05	-8.625	6.4E-18	-17.193	NM_003095	SNRPF	A_G	A	G	A	G	positive
rs7308921	100310201_T GI_at	A/G	G	0.333	12	94788666	1.77E-05	-4.409	1E-05	-4.9836	BC002505	SNRPF	A_G	A	G	A	G	negative
rs7925226	100301195_T GI_at	A/G	G	0.093	11	72815010	1.94E-05	10.498	8.8E-26	-25.054	NM_152222	RELT	A_G	A	G	A	G	positive
rs2844518	100305045_T GI_at	C/T	T	0.377	6	31480548	2.09E-05	12.681	7.5E-37	-36.123	D83543		T_C	C	T	T	C	negative
rs2844518	100162706_T GI_at	C/T	T	0.377	6	31480548	2.09E-05	-12.03	2.5E-33	-32.607	D83543		T_C	C	T	T	C	negative
rs2076600	100310898_T GI_at	A/G	G	0.817	1	17209978	2.14E-05	-5.015	5.3E-07	-6.2754	AL834169	CROCC	G_A	A	G	G	A	negative
rs2076600	100124110_T GI_at	A/G	G	0.817	1	17209978	2.14E-05	-4.618	3.9E-06	-5.4118	AK128484	CROCCL1	G_A	A	G	G	A	negative
rs1200348	100154811_T GI_at	C/T	T	0.492	15	39608460	2.19E-05	-8.226	1.9E-16	-15.713	NM_015540	RPAP1	T_C	C	T	T	C	negative
rs10519717	100311674_T GI_at	C/T	T	0.867	4	145699790	2.48E-05	-4.155	3.3E-05	-4.4877	AK098525	HHIP	C_T	C	T	C	T	negative
rs931794	100156434_T GI_at	A/G	G	0.433	15	76613235	2.67E-05	10.596	3.1E-26	-25.507	NM_000745	CHRNA5	A_G	A	G	A	G	positive
rs931794	100313804_T GI_at	A/G	G	0.433	15	76613235	2.67E-05	6.086	1.2E-09	-8.9364	AA532820		A_G	A	G	A	G	negative
rs9273363	100302941_T GI_at	A/C	C	0.683	6	32734250	2.72E-05	12.547	4.1E-36	-35.384	NM_002123	HLA-DQB1	C_A	A	C	C	A	positive
rs9273363	100304009_T GI_at	A/C	C	0.683	6	32734250	2.72E-05	12.742	3.5E-37	-36.462	ENST000003 74943	HLA-DQB1	C_A	A	C	C	A	positive
rs9273363	100300398_T GI_at	A/C	C	0.683	6	32734250	2.72E-05	12.614	1.8E-36	-35.753	X03068	HLA-DQB1	C_A	A	C	C	A	positive
rs2726490	100160580_T GI_at	C/T	T	0.575	4	106490971	2.80E-05	-8.525	1.5E-17	-16.816	BM977451	PPA2	C_T	C	T	C	T	negative
rs2726490	100307499_T GI_at	C/T	T	0.575	4	106490971	2.80E-05	-8.523	1.6E-17	-16.808	BM977451	PPA2	C_T	C	T	C	T	negative
rs10055430	100313079_T GI_at	A/G	G	0.276	5	147777732	2.89E-05	12.615	1.7E-36	-35.758	AF251055	FBX038	A_G	A	G	A	G	positive
rs7957346	100137266_T GI_at	A/C	C	0.508	12	94784605	2.94E-05	9.818	9.4E-23	-22.026	NM_021229	NTN4	C_A	A	C	C	A	negative
rs9944249	100129019_T GI_at	G/T	T	0.442	15	39634468	3.34E-05	15.354	3.3E-53	-52.478	NM_006293	TYRO3	G_T	G	T	G	T	positive
rs9944249	100124857_T GI_at	G/T	T	0.442	15	39634468	3.34E-05	6.724	1.8E-11	-10.753	NM_002220	ITPKA	G_T	G	T	G	T	positive
rs9944249	100154412_T GI_at	G/T	T	0.442	15	39634468	3.34E-05	23.806	3E-125	-124.54	NM_206961	LTK	G_T	G	T	G	T	positive
rs9944249	100305514_T GI_at	G/T	T	0.442	15	39634468	3.34E-05	4.785	1.7E-06	-5.767	CD558726	TMEM87A	G_T	G	T	G	T	positive
rs8053376	100149583_T GI_at	A/G	G	0.575	16	18867252	3.48E-05	4.946	7.6E-07	-6.1206	AA773342	ARL6IP1	A_G	A	G	A	G	positive
rs890498	100302252_T GI_at	C/G	G	0.417	15	39898590	3.68E-05	5.795	6.8E-09	-8.1654	NM_014994	MAPKBP1	C_G	C	G	C	G	positive
rs890498	100157433_T GI_at	C/G	G	0.417	15	39898590	3.68E-05	-4.127	3.7E-05	-4.4347	ENST000003 09874		C_G	C	G	C	G	negative
rs1862874	100125704_T GI_at	A/T	T	0.78	5	156626536	3.79E-05	4.583	4.6E-06	-5.3388	NM_001037 333	CYFIP2	A_T	A	T	A	T	positive
rs11191751	100150425_T GI_at	A/G	G	0.133	10	105381715	3.80E-05	4.83	1.4E-06	-5.8648	W57592	SH3PXD2A	G_A	A	G	G	A	negative
rs2844559	100144394_T GI_at	C/T	T	0.167	6	31448054	3.83E-05	4.674	3E-06	-5.5296	NM_006674	HCP5	T_C	C	T	T	C	positive
rs4567782	100305934_T GI_at	A/C	C	0.482	17	25292926	4.02E-05	5.974	2.3E-09	-8.6354	BX648689	EFCAB5	A_C	A	C	A	C	negative
rs2009746	100154936_T	A/G	G	0.405	15	76541157	4.12E-05	17.254	1E-66	-65.981	AF147302		G_A	A	G	G	A	positive

rs3781352	100150425_T GI_at	C/T	T	0.133	10	105379476	4.17E-05	4.83	1.4E-06	-5.8648	W57592	SH3PXD2A	T_C	C	T	T	C	negative
rs11653487	100300166_T GI_at	C/T	T	0.55	17	34196157	4.19E-05	4.098	4.2E-05	-4.3801	XM_372668	ARL5C	C_T	C	T	C	T	negative
rs9921330	100147953_T GI_at	A/G	G	0.822	16	73884902	4.55E-05	4.623	3.8E-06	-5.4222	NM_006324	CFDP1	A_G	A	G	A	G	negative
rs2303644	100306708_T GI_at	A/G	G	0.608	5	178487651	4.60E-05	4.15	3.3E-05	-4.4782	BU733456		A_G	A	G	A	G	positive
rs11080616	100142718_T GI_at	A/G	G	0.817	18	12951999	4.90E-05	7.793	6.5E-15	-14.184	NM_032142	CEP192	A_G	A	G	A	G	positive
rs11080616	100154727_T GI_at	A/G	G	0.817	18	12951999	4.90E-05	6.652	2.9E-11	-10.539	AK096548	CEP192	A_G	A	G	A	G	positive
rs2855812	100161520_T GI_at	G/T	T	0.258	6	31580699	5.11E-05	7.236	4.6E-13	-12.335	NM_005931	MICB	G_T	G	T	G	T	negative
rs2568494	100132425_T GI_at	A/G	G	0.582	15	76528019	5.25E-05	4.118	3.8E-05	-4.4177	NM_001083 612		A_G	A	G	A	G	positive
rs17331332	100129915_T GI_at	A/G	G	0.923	4	107027556	5.30E-05	4.502	6.7E-06	-5.1719	NM_001033 047	NPNT	A_G	A	G	A	G	negative
rs8022046	100127661_T GI_at	A/G	G	0.224	14	74348055	5.80E-05	-4.33	1.5E-05	-4.8265	NM_014239	EIF2B2	A_G	A	G	A	G	negative
rs131284	100141331_T GI_at	C/T	T	0.425	22	28487589	6.04E-05	12.616	1.7E-36	-35.764	NM_013387		T_C	C	T	T	C	negative
rs6593973	100300216_T GI_at	A/G	G	0.912	1	204152539	6.35E-05	-4.186	2.8E-05	-4.5468	XM_209271		A_G	A	G	A	G	negative
rs6593973	100155586_T GI_at	A/G	G	0.912	1	204152539	6.35E-05	4.123	3.7E-05	-4.4272	NM_152491	PM20D1	A_G	A	G	A	G	positive
rs6593973	100151213_T GI_at	A/G	G	0.912	1	204152539	6.35E-05	4.846	1.3E-06	-5.8997	AK097788		A_G	A	G	A	G	positive
rs4924575	100147021_T GI_at	C/T	T	0.405	15	39884218	6.36E-05	10.094	5.9E-24	-23.231	ENST000003 35032	JMJD7- PLA2G4B	C_T	C	T	C	T	positive
rs6444749	100155944_T GI_at	C/T	T	0.575	3	195028932	7.39E-05	5.361	8.3E-08	-7.0822	BX099811		C_T	C	T	C	T	positive
rs2834449	100155146_T GI_at	C/T	T	0.366	21	34623226	7.40E-05	-5.709	1.1E-08	-7.9445	NM_172201	KCNE2	T_C	C	T	T	C	negative
rs2834449	100145031_T GI_at	C/T	T	0.366	21	34623226	7.40E-05	-6.193	5.9E-10	-9.2289	NM_032476	MRPS6	T_C	C	T	T	C	negative
rs713718	100160585_T GI_at	G/T	T	0.592	22	28644092	7.82E-05	11.645	2.4E-31	-30.614	ENST000003 23630	MTMR3	G_T	G	T	G	T	negative
rs713718	100131090_T GI_at	G/T	T	0.592	22	28644092	7.82E-05	4.46	8.2E-06	-5.0864	NM_003634	NIPSNAP1	G_T	G	T	G	T	positive
rs713718	100308994_T GI_at	G/T	T	0.592	22	28644092	7.82E-05	-11.13	9E-29	-28.048	BC151217	MTMR3	G_T	G	T	G	T	negative
rs9469220	100157567_T GI_at	A/G	G	0.6	6	32766288	8.12E-05	13.302	2.3E-40	-39.647	NM_182549	HLA-DQB2	A_G	A	G	A	G	negative
rs9469220	100311684_T GI_at	A/G	G	0.6	6	32766288	8.12E-05	11.979	4.6E-33	-32.339	AK098007	HLA-DQB2	A_G	A	G	A	G	negative
rs9469220	100311704_T GI_at	A/G	G	0.6	6	32766288	8.12E-05	11.67	1.8E-31	-30.741	AK097297	HLA-DQB1	A_G	A	G	A	G	negative
rs9469220	100142471_T GI_at	A/G	G	0.6	6	32766288	8.12E-05	-5.639	1.7E-08	-7.7669	AK057104		A_G	A	G	A	G	positive
rs12649925	100129781_T GI_at	C/T	T	0.643	4	56173264	8.48E-05	4.311	1.6E-05	-4.7891	ENST000003 81322	CLOCK	T_C	C	T	T	C	negative
rs12649925	100307345_T GI_at	C/T	T	0.643	4	56173264	8.48E-05	-7.183	6.8E-13	-12.166	BQ013439	CLOCK	T_C	C	T	T	C	positive
rs10512248	100141529_T GI_at	G/T	T	0.683	9	97299524	9.27E-05	4.394	1.1E-05	-4.9536	NM_001083 602	PTCH1	G_T	G	T	G	T	positive
rs1042173	100136117_T GI_at	A/C	C	0.433	17	25549137	9.40E-05	4.88	1.1E-06	-5.9743	AK000606	GOSR1	C_A	A	C	C	A	positive
rs8025614	100306182_T GI_at	A/G	G	0.454	15	39930204	0.0001031	7.056	1.7E-12	-11.766	BX640787	MAPKBP1	A_G	A	G	A	G	negative
rs3134940	100158927_T GI_at	C/T	T	0.84	6	32257794	0.000106	8.348	6.9E-17	-16.159	NM_006913	RNF5	T_C	C	T	T	C	negative

rs5752972	100302806_T GI_at	A/T	T	0.592	22	28580312	0.0001087	4.822	1.4E-06	-5.8473	NM_003634	NIPSNAP1	A_T	A	T	A	T	positive
rs6088580	100300977_T GI_at	C/G	G	0.5	20	32748714	0.0001137	20.554	7.1E-94	-93.15	NM_178025	GGT7	G_C	C	G	G	C	negative
rs6088580	100307620_T GI_at	C/G	G	0.5	20	32748714	0.0001137	12.72	4.6E-37	-36.339	BM742377	ITCH	G_C	C	G	G	C	positive
rs6088580	100143040_T GI_at	C/G	G	0.5	20	32748714	0.0001137	6.154	7.6E-10	-9.1218	NM_181509	MAP1LC3A	G_C	C	G	G	C	positive
rs2077543	100156388_T GI_at	C/G	G	0.628	15	39919492	0.0001148	20.843	1.8E-96	-95.753	BC113983	MAPKBP1	C_G	C	G	C	G	negative
rs9272775	100302940_T GI_at	C/T	T	0.592	6	32718235	0.000115	9.782	1.3E-22	-21.871	NM_002125	HLA-DRB5	C_T	C	T	C	T	negative
rs1146045	100155944_T GI_at	C/T	T	0.575	3	195032102	0.0001155	-5.361	8.3E-08	-7.0822	BX099811		T_C	C	T	T	C	positive
rs1043515	100123137_T GI_at	A/G	G	0.575	17	34175722	0.0001222	5.312	1.1E-07	-6.9649	NM_003559	PIP4K2B	G_A	A	G	G	A	positive
rs1043515	100304243_T GI_at	A/G	G	0.575	17	34175722	0.0001222	5.19	2.1E-07	-6.6772	ENST00000269554	PIP4K2B	G_A	A	G	G	A	positive
rs1043515	100134576_T GI_at	A/G	G	0.575	17	34175722	0.0001222	5.948	2.7E-09	-8.5663	NM_002795	PSMB3	G_A	A	G	G	A	positive
rs9672671	100150740_T GI_at	C/T	T	0.417	15	39704367	0.0001242	4.537	5.7E-06	-5.2437	NM_005090	JMJD7- PLA2G4B	C_T	C	T	C	T	positive
rs9672671	100134750_T GI_at	C/T	T	0.417	15	39704367	0.0001242	8.223	2E-16	-15.702	NM_016642	SPTBN5	C_T	C	T	C	T	positive
rs316408	100157324_T GI_at	C/T	T	0.167	5	43102531	0.0001269	-6.872	6.3E-12	-11.199	AK056817		T_C	C	T	T	C	negative
rs178415	100126167_T GI_at	G/T	T	0.167	5	43113975	0.0001275	6.069	1.3E-09	-8.8904	BM992182		T_G	G	T	T	G	positive
rs178415	100157820_T GI_at	G/T	T	0.167	5	43113975	0.0001275	-4.602	4.2E-06	-5.3784	AK097396		T_G	G	T	T	G	negative
rs17602686	100136812_T GI_at	A/C	C	0.149	15	49456917	0.0001276	-4.041	5.3E-05	-4.2739	AL602112		C_A	A	C	C	A	positive
rs1574407	100147117_T GI_at	C/T	T	0.167	5	43088648	0.0001277	9.063	1.3E-19	-18.897	NM_003432	ZNF131	C_T	C	T	C	T	negative
rs1574407	100155899_T GI_at	C/T	T	0.167	5	43088648	0.0001277	4.342	1.4E-05	-4.8502	AK057759		C_T	C	T	C	T	negative
rs140701	100305644_T GI_at	C/T	T	0.417	17	25562658	0.0001278	-4.019	5.8E-05	-4.2332	CB241458	CPD	T_C	C	T	T	C	negative
rs10859966	100140090_T GI_at	C/T	T	0.658	12	94777506	0.0001292	-4.137	3.5E-05	-4.4536	NM_182496	CCDC38	C_T	C	T	C	T	positive
rs2235910	100135390_T GI_at	G/T	T	0.675	1	17298416	0.0001331	-6.916	4.6E-12	-11.333	AB030176	PADI2	T_G	G	T	T	G	negative
rs2235910	100143443_T GI_at	G/T	T	0.675	1	17298416	0.0001331	13.808	2.3E-43	-42.642	NM_007365	PADI2	T_G	G	T	T	G	negative
rs3826397	100305428_T GI_at	C/T	T	0.667	17	43864446	0.0001419	-7.046	1.8E-12	-11.735	CK004660		C_T	C	T	C	T	negative
rs11133403	100130701_T GI_at	C/T	T	0.647	4	56170870	0.0001431	-4.611	4E-06	-5.3971	BC002480	SRD5A3	C_T	C	T	C	T	negative
rs11133403	100147633_T GI_at	C/T	T	0.647	4	56170870	0.0001431	15.165	6E-52	-51.22	NM_004898	CLOCK	C_T	C	T	C	T	negative
rs11133403	100301711_T GI_at	C/T	T	0.647	4	56170870	0.0001431	-6.8	1E-11	-10.98	NM_024592	SRD5A3	C_T	C	T	C	T	negative
rs9435732	100133163_T GI_at	C/T	T	0.175	1	17180745	0.0001431	-5.788	7.1E-09	-8.1473	NM_017459	MFAP2	C_T	C	T	C	T	negative
rs2716943	100155542_T GI_at	G/T	T	0.221	17	5483296	0.0001438	5.29	1.2E-07	-6.9125	BC065242	RABEP1	G_T	G	T	G	T	negative
rs2596501	100300038_T GI_at	C/T	T	0.424	6	31429190	0.0001522	-7.111	1.2E-12	-11.939	Z33453	HLA-B	T_C	C	T	T	C	positive
rs3851706	100148972_T GI_at	A/G	G	0.675	16	15858148	0.0001534	-4.07	4.7E-05	-4.3278	NM_144600	C16orf63	G_A	A	G	G	A	positive
rs12037222	100302787_T GI_at	A/G	G	0.763	1	39837548	0.0001543	5.951	2.7E-09	-8.5743	NM_003819	PABPC4	A_G	A	G	A	G	positive

rs886424	100303756_T GI_at	C/T	T	0.193	6	30889981	0.0001549	-7.814	5.5E-15	-14.257	M27539	HLA-A	T_C	C	T	T	C	negative
rs2834440	100128165_T GI_at	A/G	G	0.381	21	34612369	0.000155	4.097	4.2E-05	-4.3783	ENST000003 61850	C21orf82	A_G	A	G	A	G	negative
rs17358468	100123896_T GI_at	C/T	T	0.192	3	180509886	0.0001694	-6.184	6.3E-10	-9.2041	AF085833		T_C	C	T	T	C	negative
rs7514452	100136037_T GI_at	C/T	T	0.733	1	152704708	0.0001703	-5.454	4.9E-08	-7.3076	NM_207308	NUP210L	C_T	C	T	C	T	positive
rs2076607	100158208_T GI_at	C/T	T	0.678	1	17295247	0.0001731	-5.002	5.7E-07	-6.2461	AK055895	NBPF1	C_T	C	T	C	T	positive
rs2076607	100307733_T GI_at	C/T	T	0.678	1	17295247	0.0001731	-4.098	4.2E-05	-4.3801	BM665403		C_T	C	T	C	T	positive
rs4903262	100152363_T GI_at	A/G	G	0.617	14	74410571	0.0001768	-5.249	1.5E-07	-6.8155	AI566819	TMED10	A_G	A	G	A	G	positive
rs316413	100157820_T GI_at	C/T	T	0.167	5	43129786	0.0001772	4.602	4.2E-06	-5.3784	AK097396		C_T	C	T	C	T	negative
rs2842895	100307951_T GI_at	C/G	G	0.408	6	7051315	0.0001858	7.683	1.6E-14	-13.809	BI770221	RREB1	C_G	C	G	C	G	negative
rs3742783	100129848_T GI_at	C/T	T	0.258	14	74446761	0.0001946	8.721	2.8E-18	-17.56	ENST000002 38662	MLH3	T_C	C	T	T	C	negative
rs3742783	100146446_T GI_at	C/T	T	0.258	14	74446761	0.0001946	-9.033	1.7E-19	-18.777	NM_001040 108	MLH3	T_C	C	T	T	C	positive
rs3742783	100302585_T GI_at	C/T	T	0.258	14	74446761	0.0001946	9.549	1.3E-21	-20.883	NM_005784	MLH3	T_C	C	T	T	C	negative
rs3742783	100151060_T GI_at	C/T	T	0.258	14	74446761	0.0001946	-8.489	2.1E-17	-16.681	CA311614	MLH3	T_C	C	T	T	C	positive
rs11066028	100161262_T GI_at	A/C	C	0.325	12	110729553	0.0001955	5.464	4.7E-08	-7.3321	NM_001034 025	ERP29	A_C	A	C	A	C	positive
rs11066028	100300653_T GI_at	A/C	C	0.325	12	110729553	0.0001955	5.888	3.9E-09	-8.4079	R93151	ERP29	A_C	A	C	A	C	positive
rs10866685	100154320_T GI_at	A/G	G	0.909	5	157037289	0.0001978	-4.16	3.2E-05	-4.4972	DB357058	SGCD	A_G	A	G	A	G	negative
rs4660808	100133670_T GI_at	C/T	T	0.233	1	39791096	0.000198	7.092	1.3E-12	-11.879	ENST000003 31856		C_T	C	T	C	T	negative
rs4660808	100148761_T GI_at	C/T	T	0.233	1	39791096	0.000198	6.703	2E-11	-10.69	NM_022120	OXCT2	C_T	C	T	C	T	negative
rs4660808	100313726_T GI_at	C/T	T	0.233	1	39791096	0.000198	4.893	9.9E-07	-6.003	AA732526		C_T	C	T	C	T	negative
rs8365	100158927_T GI_at	C/G	G	0.831	6	32256381	0.000201	-8.348	6.9E-17	-16.159	NM_006913	RNF5	C_G	C	G	C	G	negative
rs2716931	100135777_T GI_at	C/T	T	0.275	17	5511168	0.0002078	-4.33	1.5E-05	-4.8265	NM_001083 585	RABEP1	C_T	C	T	C	T	positive
rs17264866	100148761_T GI_at	C/G	G	0.233	1	39795364	0.0002099	6.703	2E-11	-10.69	NM_022120	OXCT2	C_G	C	G	C	G	negative
rs7790478	100153459_T GI_at	A/G	G	0.875	7	128135641	0.0002138	5.248	1.5E-07	-6.8132	NM_001012 454	FAM71F2	A_G	A	G	A	G	negative
rs17565905	100154198_T GI_at	A/G	G	0.692	10	12279950	0.0002174	-7.381	1.6E-13	-12.804	NM_014142	NUDT5	A_G	A	G	A	G	negative
rs17565905	100303975_T GI_at	A/G	G	0.692	10	12279950	0.0002174	-7.032	2E-12	-11.691	ENST000003 78952	NUDT5	A_G	A	G	A	G	negative
rs17565905	100129724_T GI_at	A/G	G	0.692	10	12279950	0.0002174	4.941	7.8E-07	-6.1095	NM_018144	SEC61A2	A_G	A	G	A	G	positive
rs4934284	100304251_T GI_at	C/G	G	0.108	10	82267277	0.0002211	12.212	2.7E-34	-33.572	ENST000002 65450	TSPAN14	G_C	C	G	G	C	negative
rs4934284	100161068_T GI_at	C/G	G	0.108	10	82267277	0.0002211	-4.38	1.2E-05	-4.9256	NM_032333	C10orf58	G_C	C	G	G	C	negative
rs4934284	100150788_T GI_at	C/G	G	0.108	10	82267277	0.0002211	12.272	1.3E-34	-33.893	NM_030927	TSPAN14	G_C	C	G	G	C	negative
rs12548626	100307977_T GI_at	A/C	C	0.843	8	17754380	0.0002346	-6.714	1.9E-11	-10.723	BI666677	ASAH1	A_C	A	C	A	C	negative
rs12548626	100308495_T	A/C	C	0.843	8	17754380	0.0002346	-6.956	3.5E-12	-11.456	BF965720	ASAH1	A_C	A	C	A	C	negative

rs12548626	100303798_T GI_at	A/C	C	0.843	8	17754380	0.0002346	-5.181	2.2E-07	-6.6562	L27841	PCMI	A_C	A	C	A	C	negative
rs12548626	100312395_T GI_at	A/C	C	0.843	8	17754380	0.0002346	-4.238	2.3E-05	-4.6468	A1924817	PCMI	A_C	A	C	A	C	negative
rs12548626	100134179_T GI_at	A/C	C	0.843	8	17754380	0.0002346	-4.962	7E-07	-6.1563	ENST000003 25083	PCMI	A_C	A	C	A	C	negative
rs3130349	100158927_T GI_at	A/G	G	0.833	6	32255674	0.0002376	-8.348	6.9E-17	-16.159	NM_006913	RNF5	A_G	A	G	A	G	negative
rs1294416	100136210_T GI_at	A/G	G	0.5	6	6686326	0.0002478	5.66	1.5E-08	-7.82	BC039678		A_G	A	G	A	G	positive
rs2394685	100141210_T GI_at	A/G	G	0.533	6	29853418	0.000249	11.175	5.4E-29	-28.267	ENST000003 18669		A_G	A	G	A	G	positive
rs2394685	100304197_T GI_at	A/G	G	0.533	6	29853418	0.000249	11.309	1.2E-29	-28.927	ENST000003 18669		A_G	A	G	A	G	positive
rs7274854	100138660_T GI_at	A/C	C	0.661	20	32692333	0.0002505	4.438	9.1E-06	-5.0419	NM_080476	PIGU	A_C	A	C	A	C	positive
rs3742786	100151794_T GI_at	A/G	G	0.442	14	74442764	0.0002513	10.878	1.5E-27	-26.833	NM_031464	RPS6KL1	G_A	A	G	G	A	negative
rs12937167	100150055_T GI_at	A/G	G	0.123	17	34249707	0.0002673	4.784	1.7E-06	-5.7649	BX647429	PCGF2	A_G	A	G	A	G	negative
rs12937167	100140755_T GI_at	A/G	G	0.123	17	34249707	0.0002673	6.863	6.7E-12	-11.171	AL566957	PCGF2	A_G	A	G	A	G	negative
rs712313	100145206_T GI_at	G/T	T	0.681	14	34476664	0.0002765	-5.934	3E-09	-8.5292	DA538705		G_T	G	T	G	T	positive
rs16896742	100160221_T GI_at	A/G	G	0.398	6	30030719	0.0002769	11.356	6.9E-30	-29.16	NM_002127	HLA-G	A_G	A	G	A	G	positive
rs12579299	100148776_T GI_at	A/G	G	0.195	12	93966373	0.000286	-4.137	3.5E-05	-4.4536	NM_018838	NDUFA12	A_G	A	G	A	G	positive
rs12579299	100151388_T GI_at	A/G	G	0.195	12	93966373	0.000286	4.512	6.4E-06	-5.1923	CA503082	FGD6	A_G	A	G	A	G	negative
rs4978425	100160095_T GI_at	A/T	T	0.483	9	112177221	0.000291	-5.17	2.3E-07	-6.6306	BG571099	SVEP1	A_T	A	T	A	T	negative
rs10774192	100313404_T GI_at	C/T	T	0.683	12	424352	0.0002957	8.239	1.7E-16	-15.76	AB209999	JARID1A	C_T	C	T	C	T	negative
rs10774192	100134025_T GI_at	C/T	T	0.683	12	424352	0.0002957	5.933	3E-09	-8.5266	NM_032358	CCDC77	C_T	C	T	C	T	negative
rs324013	100310285_T GI_at	C/T	T	0.483	12	55796928	0.0002971	11.826	2.9E-32	-31.543	AY615283	STAT6	C_T	C	T	C	T	positive
rs10902208	100313840_T GI_at	A/G	G	0.767	11	719570	0.0002979	4.029	5.6E-05	-4.2517	AA452033		A_G	A	G	A	G	positive
rs10902208	100132055_T GI_at	A/G	G	0.767	11	719570	0.0002979	-4.338	1.4E-05	-4.8423	NM_182612	PDDC1	A_G	A	G	A	G	negative
rs7575189	100129209_T GI_at	A/G	G	0.425	2	173723414	0.0003009	-5.478	4.3E-08	-7.3664	NM_016653		G_A	A	G	G	A	negative
rs2327351	100140380_T GI_at	A/G	G	0.208	6	133889569	0.0003085	5.861	4.6E-09	-8.3372	AK093513		A_G	A	G	A	G	positive
rs4801272	100150898_T GI_at	C/G	G	0.45	19	63669275	0.0003128	-5.787	7.2E-09	-8.1448	NM_012254	SLC27A5	G_C	C	G	G	C	positive
rs1003879	100302735_T GI_at	A/G	G	0.742	6	32407570	0.0003188	-4.954	7.3E-07	-6.1384	NM_004381	ATF6B	A_G	A	G	A	G	negative
rs290198	100301468_T GI_at	C/T	T	0.542	11	85097315	0.0003255	-5.321	1E-07	-6.9863	NM_032943	SYTL2	C_T	C	T	C	T	positive
rs290198	100123986_T GI_at	C/T	T	0.542	11	85097315	0.0003255	-8.76	2E-18	-17.709	AK222710	SYTL2	C_T	C	T	C	T	positive
rs3132947	100148822_T GI_at	G/T	T	0.167	6	32284760	0.0003261	-5.408	6.4E-08	-7.1956	NM_004557	NOTCH4	G_T	G	T	G	T	positive
rs11745587	100309997_T GI_at	A/G	G	0.595	5	131824821	0.0003288	5.409	6.3E-08	-7.1981	BC012325	SLC22A5	A_G	A	G	A	G	positive
rs4493117	100136626_T GI_at	A/G	G	0.525	17	25513896	0.0003328	5.358	8.4E-08	-7.075	BU754208	SLC6A4	G_A	A	G	G	A	negative
rs3115627	100311606_T GI_at	A/G	G	0.4	6	29928257	0.0003401	10.97	5.3E-28	-27.274	AK125274	HLA-F	G_A	A	G	G	A	negative

rs3129840	100137319_T GI_at	C/G	G	0.808	6	30415321	0.0003443	6.648	3E-11	-10.527	NM_001004 349		C_G	C	G	C	G	positive
rs2147215	100152113_T GI_at	C/T	T	0.75	6	18515569	0.0003452	-7.82	5.3E-15	-14.277	BE274992	RNF144B	C_T	C	T	C	T	negative
rs3805389	100137237_T GI_at	A/G	G	0.758	4	56177507	0.0003489	-4.791	1.7E-06	-5.78	NM_006681	NMU	A_G	A	G	A	G	positive
rs1592971	100141348_T GI_at	A/G	G	0.8	5	156951767	0.0003499	4.599	4.2E-06	-5.3721	NM_001099 287		G_A	A	G	G	A	positive
rs4801273	100127780_T GI_at	A/G	G	0.458	19	63692085	0.0003546	12.319	7.2E-35	-34.145	BC067232		A_G	A	G	A	G	positive
rs2523720	100132397_T GI_at	C/T	T	0.179	6	30274865	0.0003651	-4.176	3E-05	-4.5277	L19688		T_C	C	T	T	C	negative
rs9883000	100124708_T GI_at	C/T	T	0.208	3	49642695	0.0003692	-6.458	1.1E-10	-9.9743	NM_000481	AMT	C_T	C	T	C	T	positive
rs3132935	100148822_T GI_at	A/G	G	0.167	6	32279053	0.0003747	-5.408	6.4E-08	-7.1956	NM_004557	NOTCH4	A_G	A	G	A	G	positive
rs3094067	100303994_T GI_at	G/T	T	0.858	6	30407224	0.0003867	14.548	6E-48	-47.221	ENST000003 76881	ZFP57	T_G	G	T	T	G	negative
rs2571997	100133464_T GI_at	A/C	C	0.525	7	99352353	0.0004125	6.052	1.4E-09	-8.8445	NM_013440	PILRB	C_A	A	C	C	A	positive
rs2571997	100300966_T GI_at	A/C	C	0.525	7	99352353	0.0004125	6.178	6.5E-10	-9.1876	NM_178238	PILRB	C_A	A	C	C	A	positive
rs2571997	100301456_T GI_at	A/C	C	0.525	7	99352353	0.0004125	20.202	9.4E-91	-90.027	NM_033017	TRIM4	C_A	A	C	C	A	positive
rs2517618	100309580_T GI_at	A/G	G	0.808	6	30266106	0.0004152	13.503	1.5E-41	-40.824	BC035659		A_G	A	G	A	G	negative
rs2571998	100133464_T GI_at	A/G	G	0.534	7	99349308	0.0004161	6.052	1.4E-09	-8.8445	NM_013440	PILRB	G_A	A	G	G	A	positive
rs2571998	100300966_T GI_at	A/G	G	0.534	7	99349308	0.0004161	6.178	6.5E-10	-9.1876	NM_178238	PILRB	G_A	A	G	G	A	positive
rs2571998	100301456_T GI_at	A/G	G	0.534	7	99349308	0.0004161	20.202	9.4E-91	-90.027	NM_033017	TRIM4	G_A	A	G	G	A	positive
rs7260359	100148378_T GI_at	C/T	T	0.405	19	50506748	0.0004161	-4.24	2.2E-05	-4.6507	NM_001824	CKM	C_T	C	T	C	T	negative
rs6938656	100135979_T GI_at	C/T	T	0.108	6	41364098	0.000418	4.167	3.1E-05	-4.5106	NM_018643	TREM1	T_C	C	T	T	C	negative
rs1019497	100302468_T GI_at	A/C	C	0.943	19	58002621	0.0004248	-7.039	1.9E-12	-11.713	NM_006969	ZNF28	A_C	A	C	A	C	negative
rs2355237	100130314_T GI_at	A/G	G	0.417	1	237924147	0.0004252	5.165	2.4E-07	-6.619	AL832284		G_A	A	G	G	A	positive
rs2287312	100302139_T GI_at	A/G	G	0.175	3	180552862	0.000434	4.723	2.3E-06	-5.6338	NM_016331	ZNF639	G_A	A	G	G	A	positive
rs1866400	100132051_T GI_at	C/T	T	0.167	15	39311528	0.0004344	4.92	8.7E-07	-6.0628	NM_016013	NDUFAF1	T_C	C	T	T	C	positive
rs1866400	100307916_T GI_at	C/T	T	0.167	15	39311528	0.0004344	-4.837	1.3E-06	-5.88	BI907154	C15orf57	T_C	C	T	T	C	negative
rs2034647	100305328_T GI_at	A/C	C	0.617	2	173655759	0.0004346	-5.883	4E-09	-8.3948	CN479035		A_C	A	C	A	C	negative
rs1368528	100130355_T GI_at	A/C	C	0.831	4	101514882	0.0004396	4.911	9.1E-07	-6.0428	AI417595		A_C	A	C	A	C	positive
rs11153162	100133695_T GI_at	A/C	C	0.742	6	97311015	0.0004419	4.03	5.6E-05	-4.2535	NM_014165	C6orf66	A_C	A	C	A	C	negative
rs3094622	100158228_T GI_at	A/G	G	0.134	6	30435931	0.0004473	5.277	1.3E-07	-6.8817	NM_170783	ZNRD1	G_A	A	G	G	A	positive
rs6894249	100149872_T GI_at	A/G	G	0.424	5	131825446	0.0004578	4.774	1.8E-06	-5.7433	DB546169		A_G	A	G	A	G	negative
rs6894249	100150988_T GI_at	A/G	G	0.424	5	131825446	0.0004578	6.001	2E-09	-8.7075	U46120		A_G	A	G	A	G	negative
rs6894249	100307273_T GI_at	A/G	G	0.424	5	131825446	0.0004578	5.346	9E-08	-7.0461	BQ188640		A_G	A	G	A	G	negative
rs11868086	100139113_T	A/G	G	0.342	17	25351708	0.0004654	-4.929	8.3E-07	-6.0827	U65090	CPD	A_G	A	G	A	G	negative

rs7135334	100160044_T GI_at	C/T	T	0.7	12	68719461	0.0004691	5.847	5E-09	-8.3006	ENST000003 25555	RAB3IP	C_T	C	T	C	T	negative
rs6881684	100141348_T GI_at	A/T	T	0.793	5	156957935	0.0004694	4.599	4.2E-06	-5.3721	NM_001099 287		T_A	A	T	T	A	positive
rs12257568	100157818_T GI_at	C/T	T	0.408	10	105512865	0.0004731	-6.128	8.9E-10	-9.0507	AK056784		C_T	C	T	C	T	negative
rs2572009	100162662_T GI_at	A/G	G	0.525	7	99326941	0.0004745	6.664	2.7E-11	-10.574	ENST000003 10771	PILRB	G_A	A	G	G	A	positive
rs6681207	100162507_T GI_at	C/T	T	0.758	1	152783841	0.0004757	8.463	2.6E-17	-16.584	NM_017582	UBE2Q1	C_T	C	T	C	T	negative
rs6681207	100158499_T GI_at	C/T	T	0.758	1	152783841	0.0004757	11.081	1.6E-28	-27.809	NM_182499	TDRD10	C_T	C	T	C	T	negative
rs7138545	100302085_T GI_at	C/G	G	0.576	12	94024858	0.0004764	4.808	1.5E-06	-5.8169	NM_017599. 2	VEZT	C_G	C	G	C	G	negative
rs7138545	100146416_T GI_at	C/G	G	0.576	12	94024858	0.0004764	4.907	9.2E-07	-6.034	NM_018351	FGD6	C_G	C	G	C	G	negative
rs2394250	100136412_T GI_at	G/T	T	0.438	6	30051635	0.0004795	10.06	8.3E-24	-23.081	ENST000003 76791	HLA-G	G_T	G	T	G	T	positive
rs3119331	100302581_T GI_at	A/T	T	0.203	1	184701141	0.000484	5.469	4.5E-08	-7.3443	NM_005807	PRG4	T_A	A	T	T	A	positive
rs12116935	100312774_T GI_at	A/G	G	0.417	1	36562133	0.0004844	8.648	5.2E-18	-17.281	AI287629	C1orf113	A_G	A	G	A	G	positive
rs12116935	100129400_T GI_at	A/G	G	0.417	1	36562133	0.0004844	17.427	5.1E-68	-67.288	ENST000003 73137	C1orf113	A_G	A	G	A	G	positive
rs12116935	100149702_T GI_at	A/G	G	0.417	1	36562133	0.0004844	16.193	5.7E-59	-58.248	NM_024676	C1orf113	A_G	A	G	A	G	positive
rs4855833	100124708_T GI_at	A/G	G	0.792	3	49632445	0.000485	-6.458	1.1E-10	-9.9743	NM_000481	AMT	G_A	A	G	G	A	positive
rs2814954	100149686_T GI_at	A/T	T	0.192	6	34806124	0.0004856	-6.429	1.3E-10	-9.8913	BC026164	UHRF1BP1	T_A	A	T	T	A	positive
rs2131108	100124708_T GI_at	A/G	G	0.208	3	49640394	0.0004864	-6.458	1.1E-10	-9.9743	NM_000481	AMT	A_G	A	G	A	G	positive
rs241549	100146392_T GI_at	C/T	T	0.408	14	55614413	0.0004942	5.657	1.5E-08	-7.8124	BF110341	PELI2	C_T	C	T	C	T	negative
rs912576	100140992_T GI_at	A/G	G	0.018	1	51777843	0.0004948	-4.465	8E-06	-5.0965	NM_001981	EPS15	G_A	A	G	G	A	positive
rs10085400	100132261_T GI_at	A/C	C	0.808	7	3867717	0.0004965	-4.88	1.1E-06	-5.9743	AK074083	SDK1	A_C	A	C	A	C	positive
rs2763979	100126781_T GI_at	C/T	T	0.325	6	31902571	0.0004984	-5.016	5.3E-07	-6.2777	NM_025262	LY6G5C	C_T	C	T	C	T	positive
rs9824435	100138300_T GI_at	C/T	T	0.792	3	49649347	0.0005	-5.728	1E-08	-7.993	NM_001664	RHOA	C_T	C	T	C	T	negative
rs6915220	100155331_T GI_at	A/T	T	0.241	6	31515800	0.000502	27.212	5E-163	-162.33	BC035656		T_A	A	T	T	A	negative
rs2527919	100151170_T GI_at	C/T	T	0.508	7	99332449	0.0005046	4.864	1.2E-06	-5.9392	NM_001185	AZGP1	T_C	C	T	T	C	positive
rs9380150	100303129_T GI_at	C/T	T	0.642	6	30118471	0.0005068	4.675	2.9E-06	-5.5317	NM_001098 479	HLA-F	C_T	C	T	C	T	negative
rs9996936	100135910_T GI_at	C/G	G	0.237	4	56162396	0.0005104	5.68	1.3E-08	-7.8706	BC034006		G_C	C	G	G	C	negative
rs1080197	100132596_T GI_at	C/T	T	0.839	1	169342621	0.0005109	-4.385	1.2E-05	-4.9356	AL833218	FMO2	C_T	C	T	C	T	positive
rs437179	100142732_T GI_at	A/C	C	0.65	6	32036993	0.0005169	-6.323	2.6E-10	-9.5909	NM_138282	ATP6V1G2	C_A	A	C	C	A	positive
rs437179	100304704_T GI_at	A/C	C	0.65	6	32036993	0.0005169	-8.559	1.1E-17	-16.944	DB344086		C_A	A	C	C	A	positive
rs648997	100308316_T GI_at	C/T	T	0.328	12	110461159	0.0005189	-4.166	3.1E-05	-4.5087	BG428456	ALDH2	C_T	C	T	C	T	negative
rs1586827	100124708_T GI_at	C/T	T	0.208	3	49646228	0.0005274	6.458	1.1E-10	-9.9743	NM_000481	AMT	T_C	C	T	T	C	positive
rs2329021	100124708_T	A/G	G	0.208	3	49654076	0.0005317	6.458	1.1E-10	-9.9743	NM_000481	AMT	G_A	A	G	G	A	positive

rs722599	100160610_T GI_at	C/T	T	0.7	14	74397196	0.0005329	4.282	1.9E-05	-4.7323	ENST000002 38571	YLPM1	C_T	C	T	C	T	negative
rs2277948	100129603_T GI_at	C/T	T	0.883	5	157030811	0.000535	5.375	7.7E-08	-7.1159	AK055284		T_C	C	T	T	C	negative
rs13210025	100129291_T GI_at	A/C	C	0.185	6	26762796	0.0005425	-4.147	3.4E-05	-4.4726	BC031943		C_A	A	C	C	A	negative
rs8019631	100307819_T GI_at	G/T	T	0.492	14	87590455	0.000548	5.211	1.9E-07	-6.7262	BM470754	GALC	G_T	G	T	G	T	negative
rs484932	100310831_T GI_at	A/C	C	0.95	9	134231409	0.0005486	-5.366	8.1E-08	-7.0942	AU121573	SETX	A_C	A	C	A	C	negative
rs3812637	100160231_T GI_at	C/T	T	0.725	10	75238852	0.0005505	4.065	4.8E-05	-4.3185	NM_001001 791	C10orf55	C_T	C	T	C	T	negative
rs2284163	100133405_T GI_at	G/T	T	0.342	6	30186994	0.000552	-5.142	2.7E-07	-6.5657	ENST000003 76704	TRIM10	G_T	G	T	G	T	negative
rs2284163	100126192_T GI_at	G/T	T	0.342	6	30186994	0.000552	-5.477	4.3E-08	-7.3639	NM_003449	TRIM26	G_T	G	T	G	T	negative
rs4713237	100304754_T GI_at	G/T	T	0.691	6	29805660	0.0005528	13.794	2.8E-43	-42.558	DB311150		T_G	G	T	T	G	positive
rs4713237	100311825_T GI_at	G/T	T	0.691	6	29805660	0.0005528	14.898	3.4E-50	-49.469	AK092748	RP3-377H14.5	T_G	G	T	T	G	negative
rs440454	100303617_T GI_at	A/G	G	0.65	6	32035321	0.0005541	-4.349	1.4E-05	-4.864	NM_000500	CYP21A2	G_A	A	G	G	A	positive
rs440454	100303672_T GI_at	A/G	G	0.65	6	32035321	0.0005541	-5.386	7.2E-08	-7.1424	NG_001111		G_A	A	G	G	A	positive
rs2359239	100160610_T GI_at	C/T	T	0.3	14	74396524	0.0005559	-4.282	1.9E-05	-4.7323	ENST000002 38571	YLPM1	C_T	C	T	C	T	negative
rs6459154	100149189_T GI_at	C/T	T	0.229	6	56315296	0.0005561	5.168	2.4E-07	-6.626	NM_030820	COL21A1	C_T	C	T	C	T	positive
rs9861291	100313107_T GI_at	C/G	G	0.533	3	180274372	0.0005565	-6.273	3.5E-10	-9.4508	AF214561	KCNMB3	C_G	C	G	C	G	negative
rs9861291	100142264_T GI_at	C/G	G	0.533	3	180274372	0.0005565	5.079	3.8E-07	-6.4209	NM_022470	ZMAT3	C_G	C	G	C	G	positive
rs9861291	100133838_T GI_at	C/G	G	0.533	3	180274372	0.0005565	-6.031	1.6E-09	-8.788	NM_171828	KCNMB3	C_G	C	G	C	G	negative
rs4964087	100150316_T GI_at	G/T	T	0.625	12	63353456	0.0005587	-4.665	3.1E-06	-5.5106	AF242771		G_T	G	T	G	T	positive
rs1078341	100124865_T GI_at	A/G	G	0.792	3	49660596	0.0005589	5.303	1.1E-07	-6.9434	NM_005777	RBM6	A_G	A	G	A	G	positive
rs1078341	100156808_T GI_at	A/G	G	0.792	3	49660596	0.0005589	5.044	4.6E-07	-6.3411	ENST000003 60934		A_G	A	G	A	G	positive
rs3745601	100132449_T GI_at	A/G	G	0.917	19	10085548	0.0005595	-4.023	5.7E-05	-4.2406	NM_031917	ANGPTL6	A_G	A	G	A	G	negative
rs9261431	100131217_T GI_at	C/G	G	0.658	6	30194401	0.0005661	6.595	4.3E-11	-10.371	AK056160	HCG18	G_C	C	G	G	C	positive
rs1352889	100124708_T GI_at	C/T	T	0.208	3	49627152	0.0005753	-6.458	1.1E-10	-9.9743	NM_000481	AMT	C_T	C	T	C	T	positive
rs2734934	100135776_T GI_at	C/T	T	0.482	6	29975776	0.00058	5.461	4.7E-08	-7.3247	NM_170769	RNF39	C_T	C	T	C	T	positive
rs2734934	100138253_T GI_at	C/T	T	0.482	6	29975776	0.00058	4.074	4.6E-05	-4.3352	CR933629	HCG8	C_T	C	T	C	T	positive
rs12368672	100156721_T GI_at	C/G	G	0.4	12	55798737	0.0005806	12.872	6.5E-38	-37.189	NM_003153	STAT6	G_C	C	G	G	C	negative
rs12368672	100305452_T GI_at	C/G	G	0.4	12	55798737	0.0005806	-4.386	1.2E-05	-4.9376	CF455116	STAT6	G_C	C	G	G	C	positive
rs2749592	100300887_T GI_at	A/C	C	0.7	10	38298848	0.000598	-7.066	1.6E-12	-11.797	NM_182829	HSD17B7P2	C_A	A	C	C	A	positive
rs2749592	100154037_T GI_at	A/C	C	0.7	10	38298848	0.000598	6.142	8.1E-10	-9.0889	ENST000003 74633	ZNF25	C_A	A	C	C	A	negative
rs2749592	100304014_T GI_at	A/C	C	0.7	10	38298848	0.000598	5.452	5E-08	-7.3027	ENST000003 74633	ZNF25	C_A	A	C	C	A	negative
rs1548029	100148527_T GI_at	A/C	C	0.333	19	51001043	0.0006041	-	1.4E-24	-23.869	NM_001081	DMPK	A_C	A	C	A	C	negative

	GI_at							10.237			562							
rs7554937	100159938_T GI_at	A/G	G	0.754	1	217991288	0.0006052	4.538	5.7E-06	-5.2457	AK097467	SLC30A10	A_G	A	G	A	G	positive
rs11829776	100302084_T GI_at	C/T	T	0.808	12	94055573	0.0006105	5.963	2.5E-09	-8.6062	NM_017599	VEZT	C_T	C	T	C	T	positive
rs11829776	100306202_T GI_at	C/T	T	0.808	12	94055573	0.0006105	-4.152	3.3E-05	-4.482	BX538322	FGD6	C_T	C	T	C	T	negative
rs11829776	100305406_T GI_at	C/T	T	0.808	12	94055573	0.0006105	4.668	3E-06	-5.5169	CK904578	VEZT	C_T	C	T	C	T	positive
rs6843986	100151676_T GI_at	A/G	G	0.612	4	90238388	0.0006159	4.258	2.1E-05	-4.6856	AA993242		G_A	A	G	G	A	positive
rs4705862	100132153_T GI_at	A/T	T	0.458	5	131841118	0.0006173	6.901	5.2E-12	-11.287	NM_133482	RAD50	A_T	A	T	A	T	negative
rs12359870	100158065_T GI_at	A/G	G	0.61	10	133935549	0.0006208	5.039	4.7E-07	-6.3298	NM_173575	STK32C	A_G	A	G	A	G	positive
rs9834356	100139628_T GI_at	C/T	T	0.258	3	134044307	0.0006212	6.292	3.1E-10	-9.5039	NM_023943	TMEM108	T_C	C	T	T	C	negative
rs7562974	100306345_T GI_at	C/T	T	0.667	2	213615402	0.0006266	8.035	9.4E-16	-15.029	BX456521	IKZF2	C_T	C	T	C	T	positive
rs4144361	100132831_T GI_at	A/G	G	0.492	14	87602987	0.0006279	-4.052	5.1E-05	-4.2943	BC029479		A_G	A	G	A	G	positive
rs4144361	100161240_T GI_at	A/G	G	0.492	14	87602987	0.0006279	-4.691	2.7E-06	-5.5656	AL832767		A_G	A	G	A	G	positive
rs9870430	100157152_T GI_at	C/T	T	0.733	3	134077510	0.0006284	6.492	8.5E-11	-10.072	AK095050	TMEM108	C_T	C	T	C	T	negative
rs1611715	100143227_T GI_at	A/C	C	0.433	6	29937461	0.0006301	12.95	2.3E-38	-37.629	X81001	HCG2P7	A_C	A	C	A	C	positive
rs1611715	100300348_T GI_at	A/C	C	0.433	6	29937461	0.0006301	14.535	7.3E-48	-47.138	X81001	HCG2P7	A_C	A	C	A	C	positive
rs3748976	100311790_T GI_at	G/T	T	0.114	16	12805079	0.0006317	-4.422	9.8E-06	-5.0097	AK093854		T_G	G	T	T	G	negative
rs10252169	100142556_T GI_at	A/G	G	0.8	7	3866392	0.0006335	-5.164	2.4E-07	-6.6167	BX505598		A_G	A	G	A	G	positive
rs11669741	100125493_T GI_at	C/T	T	0.558	19	63652293	0.0006361	17.459	2.9E-68	-67.532	NM_003433	ZNF132	C_T	C	T	C	T	negative
rs11669741	100127553_T GI_at	C/T	T	0.558	19	63652293	0.0006361	5.356	8.5E-08	-7.0701	NM_173548	ZNF584	C_T	C	T	C	T	negative
rs4801589	100307917_T GI_at	C/G	G	0.433	19	63645210	0.000643	-5.332	9.7E-08	-7.0126	BI871359	RPS5	G_C	C	G	G	C	positive
rs4801589	100139275_T GI_at	C/G	G	0.433	19	63645210	0.000643	-4.336	1.5E-05	-4.8383	NM_001009	RPS5	G_C	C	G	G	C	positive
rs10495573	100307726_T GI_at	G/T	T	0.758	2	9629611	0.0006465	-4.309	1.6E-05	-4.7852	BM669527	ADAM17	T_G	G	T	T	G	negative
rs3796051	100127813_T GI_at	G/T	T	0.508	2	64771574	0.0006488	5.275	1.3E-07	-6.8769	BU569200		G_T	G	T	G	T	negative
rs1934983	100303586_T GI_at	A/G	G	0.269	10	96791919	0.0006511	-4.343	1.4E-05	-4.8522	NM_000771	CYP2C9	G_A	A	G	G	A	negative
rs2571992	100126573_T GI_at	A/G	G	0.525	7	99357852	0.0006557	27.089	1E-161	-160.88	AK092892	TRIM4	G_A	A	G	G	A	negative
rs8076343	100301317_T GI_at	C/T	T	0.683	17	34235398	0.0006573	5.675	1.4E-08	-7.858	NM_138687	PIP4K2B	C_T	C	T	C	T	negative
rs11625046	100121711_T GI_at	G/T	T	0.642	14	34566762	0.0006591	7.882	3.2E-15	-14.492	AI962446	FAM177A1	G_T	G	T	G	T	negative
rs3094127	100300978_T GI_at	A/G	G	0.192	6	30805426	0.0006599	10.884	1.4E-27	-26.862	NM_178014	TUBB	G_A	A	G	G	A	negative
rs2834463	100301107_T GI_at	A/G	G	0.373	21	34639337	0.000664	6.119	9.4E-10	-9.0261	NM_153751	C21orf82	A_G	A	G	A	G	negative
rs12664426	100302815_T GI_at	C/T	T	0.076	6	27187899	0.0006648	4.126	3.7E-05	-4.4328	NM_003519	HIST1H2BL	T_C	C	T	T	C	negative
rs12585929	100162913_T GI_at	A/G	G	0.966	13	49277184	0.000665	-5.832	5.5E-09	-8.2615	AF034756	KPNA3	A_G	A	G	A	G	negative
rs7084673	100128225_T GI_at	A/G	G	0.62	10	94157067	0.000667	-4.623	3.8E-06	-5.4222	NM_152429	FGFBP3	A_G	A	G	A	G	negative

rs7084673	100305748_T GI_at	A/G	G	0.62	10	94157067	0.000667	-4.977	6.5E-07	-6.1899	CA431227	5-Mar	A_G	A	G	A	G	negative
rs7084673	100148133_T GI_at	A/G	G	0.62	10	94157067	0.000667	-5.525	3.3E-08	-7.4822	NM_017824	5-Mar	A_G	A	G	A	G	negative
rs12889403	100311425_T GI_at	C/T	T	0.308	14	103104499	0.0006675	-8.402	4.4E-17	-16.358	AK225730	BAG5	C_T	C	T	C	T	positive
rs9393754	100302369_T GI_at	G/T	T	0.158	6	26861110	0.0006743	9.438	3.8E-21	-20.42	NM_013375	ABT1	T_G	G	T	T	G	positive
rs10253113	100127501_T GI_at	A/G	G	0.381	7	129796547	0.0006782	4.569	4.9E-06	-5.3098	NM_177524	MEST	G_A	A	G	G	A	positive
rs10253113	100308753_T GI_at	A/G	G	0.381	7	129796547	0.0006782	4.232	2.3E-05	-4.6352	BF037602	MEST	G_A	A	G	G	A	positive
rs12149831	100140312_T GI_at	A/G	G	0.383	16	11713513	0.0006789	-4.268	2E-05	-4.705	NM_015914	TXNDC11	A_G	A	G	A	G	negative
rs7637711	100314021_T GI_at	A/G	G	0.208	3	49804657	0.0006791	-4.944	7.7E-07	-6.1161	AA034951	ARIH2	A_G	A	G	A	G	positive
rs9877231	100139628_T GI_at	A/G	G	0.258	3	134045296	0.0006816	6.292	3.1E-10	-9.5039	NM_023943	TMEM108	G_A	A	G	G	A	negative
rs1513261	100139628_T GI_at	C/T	T	0.258	3	134043066	0.0006843	-6.292	3.1E-10	-9.5039	NM_023943	TMEM108	C_T	C	T	C	T	negative
rs173141	100129443_T GI_at	C/T	T	0.765	13	91232737	0.0006901	-8.943	3.8E-19	-18.422	NM_004466	GPC5	T_C	C	T	T	C	negative
rs2070721	100304804_T GI_at	G/T	T	0.534	5	131853741	0.0006928	4.11	4E-05	-4.4027	DB096867	RAD50	T_G	G	T	T	G	negative
rs10239342	100308753_T GI_at	G/T	T	0.605	7	129796548	0.0006978	4.232	2.3E-05	-4.6352	BF037602	MEST	G_T	G	T	G	T	positive
rs10239342	100127501_T GI_at	G/T	T	0.605	7	129796548	0.0006978	4.569	4.9E-06	-5.3098	NM_177524	MEST	G_T	G	T	G	T	positive
rs9803853	100147593_T GI_at	C/T	T	0.6	1	50866596	0.0007034	5.071	4E-07	-6.4026	AF242772		C_T	C	T	C	T	negative
rs494620	100162932_T GI_at	A/G	G	0.617	6	31946692	0.0007081	-4.741	2.1E-06	-5.6723	BF064119		A_G	A	G	A	G	positive
rs3871468	100141578_T GI_at	C/T	T	0.69	6	29785620	0.0007094	10.222	1.6E-24	-23.801	NM_001003 807	RP3-377H14.5	T_C	C	T	T	C	positive
rs529834	100121858_T GI_at	A/C	C	0.254	6	47908536	0.0007157	-4.4	1.1E-05	-4.9656	AK123835	C6orf138	C_A	A	C	C	A	positive
rs1264334	100125489_T GI_at	A/G	G	0.658	6	30952239	0.0007221	10.108	5.1E-24	-23.293	NM_205854	SFTA2	G_A	A	G	G	A	negative
rs9263970	100142285_T GI_at	A/C	C	0.198	6	31294580	0.0007237	-4.96	7E-07	-6.1519	ENST000003 76255	TCF19	C_A	A	C	C	A	positive
rs9263970	100311757_T GI_at	A/C	C	0.198	6	31294580	0.0007237	-5.827	5.6E-09	-8.2485	AK095029		C_A	A	C	C	A	positive
rs9263970	100129279_T GI_at	A/C	C	0.198	6	31294580	0.0007237	4.176	3E-05	-4.5277	AK094433	HCG22	C_A	A	C	C	A	negative
rs16867083	100126288_T GI_at	C/T	T	0.758	2	9684892	0.0007306	-4.508	6.5E-06	-5.1841	NM_003183	ADAM17	C_T	C	T	C	T	positive
rs11205746	100147593_T GI_at	A/G	G	0.4	1	50866278	0.0007331	5.071	4E-07	-6.4026	AF242772		G_A	A	G	G	A	negative
rs1341164	100123290_T GI_at	C/T	T	0.7	10	96790863	0.0007339	-4.38	1.2E-05	-4.9256	NM_000771	CYP2C9	C_T	C	T	C	T	negative
rs11709734	100129450_T GI_at	A/G	G	0.208	3	49720239	0.0007359	4.487	7.2E-06	-5.1413	ENST000002 73598	NICN1	A_G	A	G	A	G	negative
rs8032589	100309540_T GI_at	C/T	T	0.817	15	39288775	0.0007503	-4.143	3.4E-05	-4.465	BC037835		C_T	C	T	C	T	negative
rs7257999	100127527_T GI_at	C/G	G	0.441	19	63656672	0.0007511	8.542	1.3E-17	-16.88	AK124458		G_C	C	G	G	C	negative
rs9402187	100150758_T GI_at	A/G	G	0.275	6	130214002	0.0007515	-5.087	3.6E-07	-6.4392	NM_001010 876	C6orf191	A_G	A	G	A	G	positive
rs729438	100142037_T GI_at	A/G	G	0.683	14	103162542	0.0007528	7.049	1.8E-12	-11.744	NM_005552	KLC1	A_G	A	G	A	G	positive
rs729438	100126588_T	A/G	G	0.683	14	103162542	0.0007528	7.787	6.9E-15	-14.164	AK023145	BAG5	A_G	A	G	A	G	positive

rs3094064	100313972_T GI_at	A/G	G	0.858	6	30404232	0.000758	4.858	1.2E-06	-5.926	AA159392	FLOT1	G_A	A	G	G	A	negative
rs744459	100156369_T GI_at	A/G	G	0.974	1	149608041	0.0007615	-4.142	3.4E-05	-4.4631	AK096600	CGN	G_A	A	G	G	A	positive
rs744459	100140105_T GI_at	A/G	G	0.974	1	149608041	0.0007615	4.24	2.2E-05	-4.6507	NM_020239	CDC42SE1	G_A	A	G	G	A	negative
rs4793870	100147773_T GI_at	C/T	T	0.314	17	43936183	0.0007708	-8.252	1.6E-16	-15.808	NM_002145	HOXB2	C_T	C	T	C	T	negative
rs13193532	100145476_T GI_at	A/G	G	0.145	6	28730893	0.0007709	-4.368	1.3E-05	-4.9017	XM_940433	ZNF389	A_G	A	G	A	G	positive
rs13193532	100301615_T GI_at	A/G	G	0.145	6	28730893	0.0007709	5.413	6.2E-08	-7.2078	NM_030899	ZNF323	A_G	A	G	A	G	negative
rs13193532	100129584_T GI_at	A/G	G	0.145	6	28730893	0.0007709	7.185	6.7E-13	-12.173	ENST000003 77186		A_G	A	G	A	G	negative
rs13193532	100303991_T GI_at	A/G	G	0.145	6	28730893	0.0007709	9.034	1.7E-19	-18.781	ENST000003 77186		A_G	A	G	A	G	negative
rs13193532	100143968_T GI_at	A/G	G	0.145	6	28730893	0.0007709	5.504	3.7E-08	-7.4303	NM_145909	ZNF323	A_G	A	G	A	G	negative
rs13193532	100140600_T GI_at	A/G	G	0.145	6	28730893	0.0007709	-5.315	1.1E-07	-6.972	BC019888		A_G	A	G	A	G	positive
rs11658065	100139631_T GI_at	G/T	T	0.221	17	78559945	0.0007781	4.072	4.7E-05	-4.3315	NM_022158	FN3K	G_T	G	T	G	T	negative
rs11658065	100159829_T GI_at	G/T	T	0.221	17	78559945	0.0007781	5.476	4.4E-08	-7.3615	NM_024619		G_T	G	T	G	T	negative
rs11658065	100312006_T GI_at	G/T	T	0.221	17	78559945	0.0007781	-7.354	1.9E-13	-12.716	AK054757	B3GNTL1	G_T	G	T	G	T	positive
rs4889484	100311952_T GI_at	A/G	G	0.259	16	72807754	0.0007795	-4.345	1.4E-05	-4.8561	AK057096		G_A	A	G	G	A	negative
rs4889484	100303831_T GI_at	A/G	G	0.259	16	72807754	0.0007795	-4.741	2.1E-06	-5.6723	H99664	PSMD7	G_A	A	G	G	A	negative
rs11572093	100303586_T GI_at	C/T	T	0.297	10	96814396	0.00078	-4.343	1.4E-05	-4.8522	NM_000771	CYP2C9	T_C	C	T	T	C	negative
rs3094121	100308127_T GI_at	C/T	T	0.258	6	30838939	0.0007803	9.661	4.4E-22	-21.355	BG746649	HCG18	T_C	C	T	T	C	positive
rs3094121	100139688_T GI_at	C/T	T	0.258	6	30838939	0.0007803	9.808	1E-22	-21.983	AK055657	HCG18	T_C	C	T	T	C	positive
rs2535326	100125489_T GI_at	C/T	T	0.347	6	30940042	0.0007806	10.108	5.1E-24	-23.293	NM_205854	SFTA2	T_C	C	T	T	C	negative
rs2517754	100123483_T GI_at	A/G	G	0.554	6	30004659	0.0007822	23.198	5E-119	-118.32	AK056727	HCG4P6	A_G	A	G	A	G	negative
rs9292669	100310722_T GI_at	C/G	G	0.664	5	37791792	0.0007848	6.444	1.2E-10	-9.9342	AV753237		C_G	C	G	C	G	negative
rs1559239	100157946_T GI_at	A/G	G	0.867	19	57981787	0.0007881	15.652	3.2E-55	-54.492	AK131231	ZNF600	A_G	A	G	A	G	positive
rs291484	100123597_T GI_at	A/G	G	0.672	3	73960039	0.0007896	-4.055	5E-05	-4.2999	ENST000003 83700		A_G	A	G	A	G	negative
rs6457622	100160430_T GI_at	A/C	C	0.384	6	32772141	0.0007945	12.591	2.4E-36	-35.626	L76566	HLA-DRB6	A_C	A	C	A	C	positive
rs6457622	100312946_T GI_at	A/C	C	0.384	6	32772141	0.0007945	12.879	5.9E-38	-37.228	AF522251	HLA-DRB1	A_C	A	C	A	C	negative
rs9428015	100126116_T GI_at	A/G	G	0.33	1	89041928	0.0008049	-4.618	3.9E-06	-5.4118	NM_018284	GBP3	A_G	A	G	A	G	negative
rs9428015	100135988_T GI_at	A/G	G	0.33	1	89041928	0.0008049	-5.47	4.5E-08	-7.3468	NM_001008 661	CCBL2	A_G	A	G	A	G	negative
rs9428015	100303452_T GI_at	A/G	G	0.33	1	89041928	0.0008049	-6.44	1.2E-10	-9.9227	NM_001008 661	CCBL2	A_G	A	G	A	G	negative
rs6866959	100149905_T GI_at	A/G	G	0.883	5	157072081	0.0008056	-4.331	1.5E-05	-4.8285	NM_173491	LSM11	G_A	A	G	G	A	negative
rs6456762	100148923_T GI_at	G/T	T	0.112	6	27038278	0.0008091	-7.436	1E-13	-12.984	NM_024639	ZNF322A	T_G	G	T	T	G	positive
rs6456762	100307519_T	G/T	T	0.112	6	27038278	0.0008091	20.661	7.8E-95	-94.109	BM971125		T_G	G	T	T	G	negative

	GI_at																		
rs6456762	100129276_T GI_at	G/T	T	0.112	6	27038278	0.0008091	8.9	5.6E-19	-18.253	BU732657		T_G	G	T	T	G	negative	
rs12375394	100136594_T GI_at	C/T	T	0.18	8	10726622	0.0008101	-4.198	2.7E-05	-4.5698	AK056119		C_T	C	T	C	T	positive	
rs9266813	100304001_T GI_at	C/G	G	0.206	6	31489300	0.0008102	15.088	1.9E-51	-50.712	ENST000003 76222		G_C	C	G	G	C	negative	
rs9266813	100305324_T GI_at	C/G	G	0.206	6	31489300	0.0008102	15.195	3.8E-52	-51.418	CN480851		G_C	C	G	G	C	negative	
rs7812140	100157804_T GI_at	A/G	G	0.083	7	149536980	0.0008145	5.313	1.1E-07	-6.9672	AY102072		G_A	A	G	G	A	positive	
rs2517681	100153401_T GI_at	C/T	T	0.453	6	30040309	0.0008198	4.731	2.2E-06	-5.6509	BQ005238	TRIM26	T_C	C	T	T	C	positive	
rs4906335	100306300_T GI_at	A/C	C	0.716	14	103090894	0.0008201	-6.915	4.7E-12	-11.33	BX505087	C14orf153	A_C	A	C	A	C	negative	
rs9467772	100161253_T GI_at	A/T	T	0.158	6	26604557	0.0008219	-16.63	4.2E-62	-61.374	NM_007047	BTN3A2	A_T	A	T	A	T	positive	
rs9467772	100127556_T GI_at	A/T	T	0.158	6	26604557	0.0008219	-4.322	1.5E-05	-4.8107	BX640949	TRIM38	A_T	A	T	A	T	positive	
rs11969000	100304633_T GI_at	C/T	T	0.155	6	35210386	0.000822	-5.138	2.8E-07	-6.5565	DB511695	TCP11	T_C	C	T	T	C	negative	
rs4695356	100124251_T GI_at	A/G	G	0.358	4	47884898	0.0008248	6.904	5.1E-12	-11.296	NM_000087	CNGA1	A_G	A	G	A	G	negative	
rs4695356	100163169_T GI_at	A/G	G	0.358	4	47884898	0.0008248	6.778	1.2E-11	-10.914	CN366905	CNGA1	A_G	A	G	A	G	negative	
rs746423	100144365_T GI_at	C/T	T	0.208	12	52703526	0.0008322	4.288	1.8E-05	-4.744	NM_153693	HOXC6	C_T	C	T	C	T	positive	
rs746423	100148000_T GI_at	C/T	T	0.208	12	52703526	0.0008322	4.221	2.4E-05	-4.614	BC020349	HOXC6	C_T	C	T	C	T	positive	
rs746423	100309835_T GI_at	C/T	T	0.208	12	52703526	0.0008322	5.155	2.5E-07	-6.5958	BC020349	HOXC6	C_T	C	T	C	T	positive	
rs536889	100304757_T GI_at	C/T	T	0.25	6	47926832	0.0008331	5.66	1.5E-08	-7.82	DB309312	OPN5	T_C	C	T	T	C	negative	
rs7772549	100125842_T GI_at	C/T	T	0.767	6	31515622	0.0008438	5.033	4.8E-07	-6.3162	NM_147130	NCR3	C_T	C	T	C	T	negative	
rs4081763	100307330_T GI_at	A/T	T	0.195	16	73938298	0.0008476	-4.334	1.5E-05	-4.8344	BQ016861	BCAR1	T_A	A	T	T	A	positive	
rs11024750	100142627_T GI_at	A/G	G	0.655	11	18626055	0.0008476	-4.075	4.6E-05	-4.3371	NM_002301	LDHC	G_A	A	G	G	A	negative	
rs1383264	100129037_T GI_at	A/T	T	0.483	6	32847945	0.000849	8.549	1.2E-17	-16.906	NM_018833	TAP2	T_A	A	T	T	A	negative	
rs1383264	100133511_T GI_at	A/T	T	0.483	6	32847945	0.000849	6.965	3.3E-12	-11.484	NM_002120	HLA-DOB	T_A	A	T	T	A	negative	
rs1383264	100161395_T GI_at	A/T	T	0.483	6	32847945	0.000849	11.369	6E-30	-29.224	AK225657	TAP2	T_A	A	T	T	A	positive	
rs4368711	100132327_T GI_at	C/T	T	0.233	5	156877249	0.0008522	-5.818	6E-09	-8.2251	NM_033274	ADAM19	T_C	C	T	T	C	negative	
rs1472568	100162335_T GI_at	C/G	G	0.387	1	19639019	0.0008538	-6.869	6.5E-12	-11.189	ENST000003 75158		C_G	C	G	C	G	positive	
rs8045779	100151120_T GI_at	C/T	T	0.883	16	12814562	0.0008573	-5.25	1.5E-07	-6.8179	ENST000002 61660		C_T	C	T	C	T	negative	
rs3131038	100139688_T GI_at	A/G	G	0.742	6	30842059	0.0008582	9.808	1E-22	-21.983	AK055657	HCG18	A_G	A	G	A	G	positive	
rs3131038	100308127_T GI_at	A/G	G	0.742	6	30842059	0.0008582	9.661	4.4E-22	-21.355	BG746649	HCG18	A_G	A	G	A	G	positive	
rs11191822	100135728_T GI_at	G/T	T	0.679	10	105589760	0.0008595	-4.413	1E-05	-4.9916	AK024150		G_T	G	T	G	T	negative	
rs13051329	100136800_T GI_at	C/T	T	0.11	21	34244759	0.0008622	-5.582	2.4E-08	-7.6238	NM_001697	ATP5O	T_C	C	T	T	C	positive	
rs4947349	100145052_T GI_at	G/T	T	0.1	6	32855768	0.0008668	-6.572	5E-11	-10.304	NM_002121	HLA-DPB1	T_G	G	T	T	G	negative	
rs3016009	100138417_T GI_at	C/T	T	0.304	6	31559940	0.0008686	8.215	2.1E-16	-15.673	AK055022		T_C	C	T	T	C	positive	

rs2524142	100313121_T GI_at	C/G	G	0.602	6	31371501	0.0008719	-5.119	3.1E-07	-6.5126	AF196489	HLA-C	G_C	C	G	G	C	positive
rs2524142	100302942_T GI_at	C/G	G	0.602	6	31371501	0.0008719	-5.026	5E-07	-6.3003	NM_002117	HLA-C	G_C	C	G	G	C	positive
rs2524142	100313880_T GI_at	C/G	G	0.602	6	31371501	0.0008719	11.677	1.7E-31	-30.777	AA381265		G_C	C	G	G	C	positive
rs2524142	100128894_T GI_at	C/G	G	0.602	6	31371501	0.0008719	-8.938	4E-19	-18.402	NM_181717	HCG27	G_C	C	G	G	C	positive
rs2524142	100309484_T GI_at	C/G	G	0.602	6	31371501	0.0008719	23.877	5E-126	-125.27	BC041078	HLA-C	G_C	C	G	G	C	positive
rs2524142	100300925_T GI_at	C/G	G	0.602	6	31371501	0.0008719	-9.316	1.2E-20	-19.918	NM_181717	HCG27	G_C	C	G	G	C	positive
rs32086	100156891_T GI_at	C/G	G	0.15	5	156059547	0.0008737	-7.213	5.5E-13	-12.262	NM_000337	SGCD	G_C	C	G	G	C	positive
rs32086	100313731_T GI_at	C/G	G	0.15	5	156059547	0.0008737	-6.174	6.7E-10	-9.1766	AA723953	SGCD	G_C	C	G	G	C	positive
rs32086	100144469_T GI_at	C/G	G	0.15	5	156059547	0.0008737	-5.868	4.4E-09	-8.3555	AI022514	SGCD	G_C	C	G	G	C	positive
rs11771259	100154998_T GI_at	C/G	G	0.123	7	7243740	0.0008739	14.61	2.4E-48	-47.615	NM_020156	C1GALT1	C_G	C	G	C	G	negative
rs11771259	100124335_T GI_at	C/G	G	0.123	7	7243740	0.0008739	6.123	9.2E-10	-9.037	AK023557		C_G	C	G	C	G	negative
rs11771259	100147343_T GI_at	C/G	G	0.123	7	7243740	0.0008739	6.05	1.4E-09	-8.8391	AI672489		C_G	C	G	C	G	negative
rs9472507	100122981_T GI_at	A/G	G	0.692	6	45652166	0.000875	4.182	2.9E-05	-4.5392	BX108677	RUNX2	G_A	A	G	G	A	positive
rs2744966	100131760_T GI_at	A/G	G	0.2	6	34693909	0.0008757	4.046	5.2E-05	-4.2832	BC146646	ITPR3	G_A	A	G	G	A	negative
rs6435126	100122090_T GI_at	A/G	G	0.534	2	202671347	0.0008901	-7.088	1.4E-12	-11.866	BC015915	FZD7	A_G	A	G	A	G	positive
rs7196681	100138939_T GI_at	A/C	C	0.458	16	76853299	0.0008943	7.347	2E-13	-12.693	NM_016373	WVOX	A_C	A	C	A	C	positive
rs7196681	100143315_T GI_at	A/C	C	0.458	16	76853299	0.0008943	-6.808	9.9E-12	-11.005	NM_130791	WVOX	A_C	A	C	A	C	negative
rs2289739	100141553_T GI_at	G/T	T	0.383	15	39588804	0.0008958	4.553	5.3E-06	-5.2767	BX648343		G_T	G	T	G	T	positive
rs626339	100306966_T GI_at	C/T	T	0.675	1	111530848	0.0008973	4.165	3.1E-05	-4.5067	BU069696	TMEM77	C_T	C	T	C	T	positive
rs12320166	100158197_T GI_at	A/G	G	0.225	12	31794812	0.0009004	10.626	2.3E-26	-25.647	XM_084845		A_G	A	G	A	G	positive
rs3131290	100135327_T GI_at	A/G	G	0.684	6	32291153	0.0009047	10.147	3.4E-24	-23.466	NM_006411	AGPAT1	A_G	A	G	A	G	positive
rs3131290	100126665_T GI_at	A/G	G	0.684	6	32291153	0.0009047	14.336	1.3E-46	-45.885	NM_032741	AGPAT1	A_G	A	G	A	G	positive
rs3130380	100304636_T GI_at	A/G	G	0.858	6	30387109	0.0009066	-4.555	5.2E-06	-5.2808	DB503443	FLOT1	A_G	A	G	A	G	negative
rs9929566	100307707_T GI_at	C/T	T	0.392	16	75682603	0.0009133	5.755	8.7E-09	-8.0623	BM677564	MON1B	C_T	C	T	C	T	negative
rs17394376	100132347_T GI_at	A/G	G	0.681	1	19596687	0.0009139	-4.753	2E-06	-5.6981	AK021935		A_G	A	G	A	G	negative
rs3130474	100303039_T GI_at	C/T	T	0.336	6	31307235	0.0009146	11.129	9.1E-29	-28.043	NM_001264	CDSN	T_C	C	T	T	C	positive
rs1264705	100129349_T GI_at	C/G	G	0.858	6	30171653	0.000915	12.935	2.9E-38	-37.544	NM_002116	HLA-A	C_G	C	G	C	G	positive
rs1264705	100138030_T GI_at	C/G	G	0.858	6	30171653	0.000915	4.604	4.1E-06	-5.3825	U58024	HLA-G	C_G	C	G	C	G	positive
rs9975829	100130835_T GI_at	A/G	G	0.345	21	33781365	0.0009194	5.661	1.5E-08	-7.8225	BQ070130	SON	A_G	A	G	A	G	negative
rs9975829	100127382_T GI_at	A/G	G	0.345	21	33781365	0.0009194	9.354	8.4E-21	-20.074	NM_006134	TMEM50B	A_G	A	G	A	G	negative
rs9975829	100310797_T GI_at	A/G	G	0.345	21	33781365	0.0009194	-8.942	3.8E-19	-18.418	AV648346	IFNGR2	A_G	A	G	A	G	positive

rs9975829	100308980_T GI_at	A/G	G	0.345	21	33781365	0.0009194	-6.537	6.3E-11	-10.202	BE144260	IFNGR2	A_G	A	G	A	G	positive
rs8109951	100306689_T GI_at	C/T	T	0.345	19	50981343	0.0009195	-9.353	8.5E-21	-20.07	BU741440		C_T	C	T	C	T	negative
rs11649804	100153419_T GI_at	A/C	C	0.758	17	17637480	0.0009197	5.491	4E-08	-7.3983	ENST000003 18094	TOM1L2	A_C	A	C	A	C	negative
rs11649804	100129852_T GI_at	A/C	C	0.758	17	17637480	0.0009197	5.858	4.7E-09	-8.3293	AK096528		A_C	A	C	A	C	negative
rs2247056	100121628_T GI_at	C/T	T	0.388	6	31373469	0.0009199	12.695	6.3E-37	-36.201	NM_014068	PSORS1C1	C_T	C	T	C	T	positive
rs17481834	100145697_T GI_at	A/G	G	0.144	2	37381853	0.0009287	7.362	1.8E-13	-12.742	AK122883	PRKD3	G_A	A	G	G	A	negative
rs2579762	100124184_T GI_at	A/C	C	0.414	10	77988885	0.0009312	-6.978	3E-12	-11.524	DA084722		C_A	A	C	C	A	negative
rs9870755	100160114_T GI_at	C/T	T	0.176	3	49784845	0.000936	13.279	3.1E-40	-39.514	AK001120		T_C	C	T	T	C	negative
rs9870755	100137568_T GI_at	C/T	T	0.176	3	49784845	0.000936	-4.216	2.5E-05	-4.6044	AB058754	AMIGO3	T_C	C	T	T	C	negative
rs7880493	100310951_T GI_at	C/T	T	0.191	1	169327657	0.000937	4.28	1.9E-05	-4.7284	AL833218	FMO2	C_T	C	T	C	T	positive
rs12145992	100141567_T GI_at	A/G	G	0.771	1	3750169	0.0009409	4.739	2.1E-06	-5.668	NM_014704	KIAA0562	A_G	A	G	A	G	positive
rs8004430	100308140_T GI_at	C/T	T	0.89	14	74241436	0.0009453	21.807	2E-105	-104.7	BG741360	KIAA0317	C_T	C	T	C	T	negative
rs8004430	100126667_T GI_at	C/T	T	0.89	14	74241436	0.0009453	18.239	2.5E-74	-73.597	NM_001039 479	KIAA0317	C_T	C	T	C	T	negative
rs997154	100301474_T GI_at	A/G	G	0.833	14	22534322	0.0009455	4.854	1.2E-06	-5.9172	NM_032876	JUB	A_G	A	G	A	G	positive
rs10463321	100300564_T GI_at	G/T	T	0.791	5	151304098	0.0009468	14.265	3.6E-46	-45.442	U32519	G3BP1	G_T	G	T	G	T	positive
rs10463321	100158823_T GI_at	G/T	T	0.791	5	151304098	0.0009468	-4.171	3E-05	-4.5182	AK001582		G_T	G	T	G	T	positive
rs9263967	100304000_T GI_at	A/G	G	0.45	6	31294224	0.0009473	-9.099	9.1E-20	-19.04	ENST000003 76242	PSORS1C3	G_A	A	G	G	A	positive
rs9472463	100300937_T GI_at	A/G	G	0.975	6	45398612	0.0009482	6.334	2.4E-10	-9.6218	NM_181356	SUPT3H	A_G	A	G	A	G	positive
rs2070729	100136084_T GI_at	A/C	C	0.533	5	131847820	0.0009491	4.824	1.4E-06	-5.8517	BX648423		C_A	A	C	C	A	negative
rs2735048	100310523_T GI_at	A/G	G	0.57	6	29841680	0.0009537	6.796	1.1E-11	-10.968	AW473609		G_A	A	G	G	A	positive
rs7603424	100307074_T GI_at	A/G	G	0.892	2	229317612	0.0009541	4.465	8E-06	-5.0965	BQ771727	PID1	A_G	A	G	A	G	negative
rs7603424	100157087_T GI_at	A/G	G	0.892	2	229317612	0.0009541	4.153	3.3E-05	-4.4839	NM_017933	PID1	A_G	A	G	A	G	negative
rs9558323	100149341_T GI_at	A/G	G	0.613	13	87534298	0.0009571	4.342	1.4E-05	-4.8502	NM_015567	SLITRK5	G_A	A	G	G	A	negative
rs32070	100307171_T GI_at	A/G	G	0.15	5	156047396	0.0009584	-6.619	3.6E-11	-10.442	BQ446019		G_A	A	G	G	A	positive
rs32070	100130704_T GI_at	A/G	G	0.15	5	156047396	0.0009584	-6.348	2.2E-10	-9.6613	AF010236		G_A	A	G	G	A	positive
rs32070	100142964_T GI_at	A/G	G	0.15	5	156047396	0.0009584	-5.082	3.7E-07	-6.4277	NM_172244	SGCD	G_A	A	G	G	A	positive
rs11868035	100136519_T GI_at	A/G	G	0.767	17	17655826	0.0009606	-9.945	2.7E-23	-22.577	S66168	SREBF1	A_G	A	G	A	G	positive
rs11868035	100301274_T GI_at	A/G	G	0.767	17	17655826	0.0009606	4.574	4.8E-06	-5.3201	NM_144678	TOM1L2	A_G	A	G	A	G	negative
rs11868035	100153419_T GI_at	A/G	G	0.767	17	17655826	0.0009606	5.491	4E-08	-7.3983	ENST000003 18094	TOM1L2	A_G	A	G	A	G	negative
rs11632927	100130789_T GI_at	A/C	C	0.742	15	98158249	0.0009633	11.125	9.5E-29	-28.023	BX110580		A_C	A	C	A	C	positive
rs602875	100313766_T	A/G	G	0.19	6	32681607	0.0009653	-	3.2E-31	-30.492	AA622265	HLA-DQA2	A_G	A	G	A	G	positive

	GI_at							11.621										
rs602875	100125275_T GI_at	A/G	G	0.19	6	32681607	0.0009653	9.958	2.3E-23	-22.633	BG755321	HLA-DRB1	A_G	A	G	A	G	negative
rs2009879	100309078_T GI_at	C/T	T	0.466	21	34575174	0.0009655	-4.946	7.6E-07	-6.1206	BC112087	KCNE2	T_C	C	T	T	C	negative
rs11809504	100129207_T GI_at	A/T	T	0.169	1	169356844	0.0009671	4.695	2.7E-06	-5.5741	BT006979	FMO2	A_T	A	T	A	T	positive
rs11809504	100162242_T GI_at	A/T	T	0.169	1	169356844	0.0009671	5.27	1.4E-07	-6.8651	NM_001460	FMO2	A_T	A	T	A	T	positive
rs1264331	100161807_T GI_at	G/T	T	0.317	6	30954809	0.0009741	5.046	4.5E-07	-6.3457	NM_001954	DDR1	T_G	G	T	T	G	negative
rs2295687	100306484_T GI_at	A/G	G	0.617	14	22490936	0.0009743	7.041	1.9E-12	-11.719	BX346609	RBM23	A_G	A	G	A	G	positive
rs2295687	100135911_T GI_at	A/G	G	0.617	14	22490936	0.0009743	7.536	4.8E-14	-13.315	NM_001077 352	RBM23	A_G	A	G	A	G	positive
rs2295687	100310197_T GI_at	A/G	G	0.617	14	22490936	0.0009743	7.629	2.4E-14	-13.626	BC002566	RBM23	A_G	A	G	A	G	positive
rs2295687	100146509_T GI_at	A/G	G	0.617	14	22490936	0.0009743	16.584	9.1E-62	-61.041	NM_017815	C14orf94	A_G	A	G	A	G	negative
rs3129975	100139688_T GI_at	C/T	T	0.742	6	30840033	0.0009788	9.808	1E-22	-21.983	AK055657	HCG18	C_T	C	T	C	T	positive
rs3129975	100308127_T GI_at	C/T	T	0.742	6	30840033	0.0009788	9.661	4.4E-22	-21.355	BG746649	HCG18	C_T	C	T	C	T	positive
rs925284	100154282_T GI_at	C/T	T	0.458	17	43940889	0.0009789	-4.444	8.8E-06	-5.054	NM_004502	HOXB7	C_T	C	T	C	T	negative
rs221032	100122367_T GI_at	C/T	T	0.267	1	16398136	0.0009815	4.526	6E-06	-5.221	NM_153213	ARHGEF19	T_C	C	T	T	C	negative
rs221032	100143670_T GI_at	C/T	T	0.267	1	16398136	0.0009815	-6.405	1.5E-10	-9.8228	NM_030907	C1orf89	T_C	C	T	T	C	positive
rs221032	100313238_T GI_at	C/T	T	0.267	1	16398136	0.0009815	4.69	2.7E-06	-5.5635	AF088037	ARHGEF19	T_C	C	T	T	C	negative
rs2535331	100151371_T GI_at	A/G	G	0.683	6	30924249	0.0009841	14.274	3.2E-46	-45.498	NM_020442	VAR52	G_A	A	G	G	A	positive
rs486023	100304225_T GI_at	A/G	G	0.675	11	100148347	0.0009849	4.105	4E-05	-4.3933	ENST000002 98824		G_A	A	G	G	A	positive
rs3094066	100125007_T GI_at	C/T	T	0.043	6	30386724	0.0009894	-8.176	2.9E-16	-15.533	AF036974	C6orf12	T_C	C	T	T	C	negative
rs6736194	100160466_T GI_at	C/G	G	0.492	2	11417509	0.0009919	-4.548	5.4E-06	-5.2663	AI379509	ROCK2	G_C	C	G	G	C	positive
rs6736194	100124316_T GI_at	C/G	G	0.492	2	11417509	0.0009919	-7.332	2.3E-13	-12.645	NM_152391	PQLC3	G_C	C	G	G	C	positive
rs6736194	100311377_T GI_at	C/G	G	0.492	2	11417509	0.0009919	-5.867	4.4E-09	-8.3529	AL049383	ROCK2	G_C	C	G	G	C	positive
rs6736194	100159613_T GI_at	C/G	G	0.492	2	11417509	0.0009919	5.397	6.8E-08	-7.169	BU753251	ROCK2	G_C	C	G	G	C	negative
rs6736194	100306938_T GI_at	C/G	G	0.492	2	11417509	0.0009919	4.091	4.3E-05	-4.367	BU159594	ROCK2	G_C	C	G	G	C	negative
rs17565336	100162242_T GI_at	A/G	G	0.167	1	169371713	0.0009924	5.27	1.4E-07	-6.8651	NM_001460	FMO2	A_G	A	G	A	G	positive
rs17565336	100129207_T GI_at	A/G	G	0.167	1	169371713	0.0009924	4.695	2.7E-06	-5.5741	BT006979	FMO2	A_G	A	G	A	G	positive
rs2744973	100128579_T GI_at	C/T	T	0.23	6	34688199	0.0009954	14.227	6.2E-46	-45.206	NM_017754	UHRF1BP1	T_C	C	T	T	C	positive
rs2744973	100159916_T GI_at	C/T	T	0.23	6	34688199	0.0009954	5.582	2.4E-08	-7.6238	NM_003093	SNRPC	T_C	C	T	T	C	negative
rs678946	100157332_T GI_at	C/T	T	0.15	9	134857508	0.0009958	4.136	3.5E-05	-4.4517	NM_012087	GTF3C5	C_T	C	T	C	T	positive
rs13029949	100122720_T GI_at	A/G	G	0.664	2	173696496	0.0009995	-4.317	1.6E-05	-4.8009	AB208974		A_G	A	G	A	G	positive

Supplementary Table 5: FEV₁/FVC *trans*-eSNPs

Table shows the list of FEV₁/FVC *trans* acting eSNPs. Header definitions are the same as Supplementary Table 2.

FEV ₁ /FVC <i>trans</i> lung eSNPs																		
eSNP	eSNP regulated probeset	GWAS SNP alleles	GWAS Reference allele	Reference allele freq in Hap Map	Chr	SNP Position	GWAS_Pval_FEV1/FVC	eQTL Z meta	eQTL P value	log10.pvalue.meta	sequence source ID	Gene Symbol	eQTL-alleles	GWAS_noncode_d_alleles	GWAS_coded_alleles	eQTL_noncode_d_alleles	eQTL_coded_alleles	Expected Direction Of Effect of mRNA with lung function
rs1264376	100141210_TGI_at	A/C	C	0.817	6	30873558	0.0005327	-6.222	4.9E-10	-9.309	ENST00000318669		C_A	A	C	C	A	positive
rs1264376	100304197_TGI_at	A/C	C	0.817	6	30873558	0.0005327	-6.643	3.1E-11	-10.512	ENST00000318669		C_A	A	C	C	A	positive
rs1264705	100161253_TGI_at	C/G	G	0.858	6	30171653	0.000915	12.654	1.1E-36	-35.973	NM_007047	BTN3A2	C_G	C	G	C	G	positive
rs13193532	100123483_TGI_at	A/G	G	0.145	6	28730893	0.0007709	8.722	2.7E-18	-17.563	AK056727	HCG4P6	A_G	A	G	A	G	negative
rs13193532	100311606_TGI_at	A/G	G	0.145	6	28730893	0.0007709	8.712	3E-18	-17.525	AK125274	HLA-F	A_G	A	G	A	G	negative
rs13193532	100125007_TGI_at	A/G	G	0.145	6	28730893	0.0007709	7.841	4.5E-15	-14.35	AF036974	C6orf12	A_G	A	G	A	G	negative
rs13193532	100309580_TGI_at	A/G	G	0.145	6	28730893	0.0007709	14.14	2.2E-45	-44.667	BC035659		A_G	A	G	A	G	negative
rs13193532	100129349_TGI_at	A/G	G	0.145	6	28730893	0.0007709	-14.425	3.6E-47	-46.443	NM_002116	HLA-A	A_G	A	G	A	G	positive
rs13193532	100160221_TGI_at	A/G	G	0.145	6	28730893	0.0007709	-8.123	4.5E-16	-15.342	NM_002127	HLA-G	A_G	A	G	A	G	positive
rs13193532	100303994_TGI_at	A/G	G	0.145	6	28730893	0.0007709	15.855	1.3E-56	-55.887	ENST00000376881	ZFP57	A_G	A	G	A	G	negative
rs1491106	100309242_TGI_at	G/T	T	0.383	9	108523338	6.02E-05	-8.836	9.9E-19	-18.004	BC069296	RBP2	T_G	G	T	T	G	positive
rs1491106	100161662_TGI_at	G/T	T	0.383	9	108523338	6.02E-05	-9.188	4E-20	-19.398	NM_004164	RBP2	T_G	G	T	T	G	positive
rs149356	100153237_TGI_at	C/T	T	0.5	5	95059521	2.32E-06	8.097	5.6E-16	-15.249	ENST00000296731	RHOBTB3	T_C	C	T	T	C	positive
rs153911	100153237_TGI_at	C/T	T	0.517	5	95059055	2.08E-06	8.097	5.6E-16	-15.249	ENST00000296731	RHOBTB3	T_C	C	T	T	C	positive
rs2206030	100307218_TGI_at	C/T	T	0.275	6	35512332	0.0001716	-6.929	4.2E-12	-11.373	BQ379815		T_C	C	T	T	C	negative
rs2247056	100308127_TGI_at	C/T	T	0.388	6	31373469	0.0009199	-7.972	1.6E-15	-14.807	BG746649	HCG18	C_T	C	T	C	T	positive
rs2247056	100139688_TGI_at	C/T	T	0.388	6	31373469	0.0009199	-7.629	2.4E-14	-13.626	AK055657	HCG18	C_T	C	T	C	T	positive
rs2524142	100122819_TGI_at	C/G	G	0.602	6	31371501	0.0008719	-6.36	2E-10	-9.6952	NM_001001961	OR13C3	G_C	C	G	G	C	positive
rs2524142	100138030_TGI_at	C/G	G	0.602	6	31371501	0.0008719	-7.254	4E-13	-12.393	U58024	HLA-G	G_C	C	G	G	C	positive
rs2734934	100159186_TGI_at	C/T	T	0.482	6	29975776	0.00058	6.335	2.4E-10	-9.6246	AK057519		C_T	C	T	C	T	positive
rs2749592	100123769_TGI_at	A/C	C	0.7	10	38298848	0.000598	7.344	2.1E-13	-12.683	AK092104		C_A	A	C	C	A	negative
rs3095330	merck.AK128290_at	A/G	G	0.191	6	30801612	9.22E-05	6.73	1.7E-11	-10.77	NA	NA	G_A	A	G	G	A	positive
rs3129950	100300978_TGI_at	C/G	G	0.908	6	32466179	5.68E-06	-6.748	1.5E-11	-10.824	NM_178014	TUBB	C_G	C	G	C	G	negative

rs3130374	100162706_TGI_at	C/T	T	0.142	6	30429315	0.0009504	8.594	8.4E-18	-17.076	D83543		C_T	C	T	C	T	negative
rs3130374	100305045_TGI_at	C/T	T	0.142	6	30429315	0.0009504	8.679	4E-18	-17.399	D83543		C_T	C	T	C	T	negative
rs3131784	100311825_TGI_at	C/T	T	0.542	6	31011927	0.0008625	-8.498	1.9E-17	-16.715	AK092748	RP3-377H14.5	T_C	C	T	T	C	negative
rs3131934	100303756_TGI_at	C/T	T	0.808	6	31039823	6.08E-06	7.422	1.2E-13	-12.938	M27539	HLA-A	T_C	C	T	T	C	negative
rs3132450	100300398_TGI_at	A/G	G	0.092	6	31704117	6.75E-05	8.067	7.2E-16	-15.142	X03068	HLA-DQB1	G_A	A	G	G	A	positive
rs3132450	100304009_TGI_at	A/G	G	0.092	6	31704117	6.75E-05	8.117	4.8E-16	-15.321	ENST00000374943	HLA-DQB1	G_A	A	G	G	A	positive
rs3132450	100302941_TGI_at	A/G	G	0.092	6	31704117	6.75E-05	8.05	8.3E-16	-15.082	NM_002123	HLA-DQB1	G_A	A	G	G	A	positive
rs3132473	100303991_TGI_at	A/T	T	0.88	6	31516308	1.56E-05	-6.216	5.1E-10	-9.2924	ENST00000377186		A_T	A	T	A	T	negative
rs3794968	100304214_TGI_at	C/G	G	0.569	19	63678611	0.0002434	-8.58	9.5E-18	-17.023	ENST00000307164		C_G	C	G	C	G	positive
rs4713279	100155331_TGI_at	A/T	T	0.635	6	30052875	0.000706	6.223	4.9E-10	-9.3118	BC035656		T_A	A	T	T	A	positive
rs602875	100139572_TGI_at	A/G	G	0.19	6	32681607	0.0009653	20.758	1E-95	-94.984	NM_022555	HLA-DRB3	A_G	A	G	A	G	negative
rs6457622	100127159_TGI_at	A/C	C	0.384	6	32772141	0.0007945	11.412	3.6E-30	-29.439	NM_021983	HLA-DRB4	A_C	A	C	A	C	positive
rs9267444	100125275_TGI_at	A/G	G	0.678	6	31591437	0.0006843	-6.34	2.3E-10	-9.6387	BG755321	HLA-DRB1	A_G	A	G	A	G	negative
rs9268144	100309484_TGI_at	C/T	T	0.908	6	32365177	2.78E-05	9.648	5E-22	-21.3	BC041078	HLA-C	C_T	C	T	C	T	positive
rs9275576	100126143_TGI_at	C/T	T	0.092	6	32787304	6.85E-06	6.713	1.9E-11	-10.72	NM_019101	APOM	T_C	C	T	T	C	positive
rs9824435	100148878_TGI_at	C/T	T	0.792	3	49649347	0.0005	-18.418	9.4E-76	-75.026	AA011598		C_T	C	T	C	T	negative

Supplementary Table 6: Summary of integration of SpiroMeta-CHARGE GWAS results with PBMCs eQTLs
eSNPs refer to the number of SpiroMeta-CHARGE GWAS SNPs with $P_{\text{GWAS}} < 0.001$ acting as PBMCs *cis*-eQTL at the 10% FDR.

Integration of lung function GWAS with blood eQTLs		
GWAS trait	FEV₁	FEV₁/FVC
Number of SNPs with $P_{\text{GWAS}} < 0.001$	6615	5239
Number of blood eSNPs	3001	1958
Number of probesets	367	334
Number of genes	306	276

Supplementary Table 7: Blood eQTL GWAS integration results

The two tables show the list of FEV₁ (Table 7A) and FEV₁/FVC (Table 7B) *cis*-acting blood eSNPs. eSNP: SNP that is associated with either FEV₁ or FEV₁/FVC from the SpiroMeta GWAS with $P_{\text{GWAS}} < 0.001$, and acting as *cis* blood eQTL at 10% FDR in blood tissue. eQTL regulated Probe Name: Probeset whose expression is under genetic control by that particular eSNP. GWAS SNP alleles: Two alleles from the GWAS study. GWAS reference allele: Allele used to derive the association test statistics. Reference allele freq in HapMap: The frequency of the GWAS reference allele from the HapMap II project in the Caucasian population (CEU). Chr: chromosome. SNP position: position using NCBI36/hg18 coordinates. GWAS_Pval_FEV₁/GWAS_Pval_FEV₁/FVC: eSNP P value for association with FEV₁ or FEV₁/FVC from the GWAS study. Blood eQTL regulated gene: Gene regulated by the eSNP in blood. eQTL regulated Probe Name: Probe regulated by the eSNP in blood. eQTL SNP alleles: SNP alleles from the blood eQTL study. Allele Assessed: Allele used to drive the eQTL test statistics. eQTL overall Z Score: Meta-analysis Z score from the blood eQTL individual studies. FDR: False discovery rate adjusted P value. Gene Name: eSNP regulated gene name.

Supplementary Table 7A : FEV ₁ blood eSNPs													
eSNP	GWAS SNP alleles	GWAS reference allele	Reference allele freq in HapMap	Chr	eSNP Position	GWAS_Pval_FEV1	Blood eQTL regulated gene	eQTL P Value	eQTL regulated Probe Name	eQTL SNP alleles	Allele Assessed	Overall Z Score	FDR
rs2499856	A/G	G	0.89	1	160193261	0.000990367	ATF6	2.25E-44	5420343	G/A	A	-13.97402	0
rs7983607	G/T	T	0.6	13	49339455	0.000989086	DLEU1	5.02E-15	5490053	T/G	T	7.8264223	0
rs4786427	A/G	G	0.367	16	3658445	0.000986722	CLUAP1	4.05E-07	6980477	A/G	G	5.0667841	0.0001085
rs1046089	A/G	G	0.675	6	31710946	0.000981945	AIFI	9.80E-06	1940047	G/A	A	-4.421746	0.0044955
rs1046089	A/G	G	0.675	6	31710946	0.000981945	LY6G5C	1.32E-34	3520647	G/A	A	-12.26977	0
rs1046089	A/G	G	0.675	6	31710946	0.000981945	HSPA1B	2.74E-34	3850433	G/A	A	-12.21038	0
rs3806925	A/G	G	0.783	5	147144605	0.000979792	JAKMIP2	1.97E-09	2100253	G/A	A	6.0004349	0
rs3008230	A/G	G	0.2	1	26273918	0.000979362	PAFAH2	4.14E-07	610600	A/G	G	-5.062543	0.0001085
rs7631174	C/T	T	0.608	3	101396592	0.000974191	C3orf26	3.30E-33	3610372	C/T	C	12.006072	0
rs13175787	A/G	G	0.092	5	175759469	0.000973505	NOP16	1.27E-12	380370	A/G	G	7.0980765	0
rs13175787	A/G	G	0.092	5	175759469	0.000973505	CLTB	2.08E-13	1110095	A/G	G	-7.343695	0
rs13175787	A/G	G	0.092	5	175759469	0.000973505	HIGD2A	9.81E-198	7510315	A/G	G	-33.07862	0
rs6009826	A/T	T	0.892	22	48476247	0.000971829	-	3.31E-36	2760019	T/A	A	12.564696	0
rs7199132	C/T	T	0.491	16	74007540	0.00097149	CFDP1	1.84E-11	6200494	T/C	C	6.718156	0
rs1794282	C/T	T	0.083	6	32774504	0.000969799	PSMB9	1.43E-11	6450692	C/T	T	6.75462	0
rs710755	C/T	T	0.383	12	68257980	0.000969324	CCT2	1.79E-14	7100288	T/C	T	7.6649591	0
rs7224888	C/T	T	0.908	17	44601162	0.00096505	GNGT2	5.64E-11	2760138	T/C	C	-6.553121	0
rs11855722	A/C	C	0.292	15	81542424	0.000964787	AC105339.9,HOMER2	0.000146931	1570767	C/A	C	-3.796234	0.0553337
rs11855722	A/C	C	0.292	15	81542424	0.000964787	AC105339.9,HOMER2	3.42E-17	3850630	C/A	C	-8.431366	0
rs8897	C/T	T	0.3	3	49435411	0.000960886	AMT	3.47E-53	940450	C/T	T	-15.35151	0
rs202540	C/T	T	0.462	20	1613172	0.000960629	SIRPG	1.32E-90	2680050	C/T	T	-20.18539	0
rs1147761	C/T	T	0.733	18	32655158	0.000959554	C18orf10	2.44E-09	2690541	C/T	C	5.9655912	0
rs1147761	C/T	T	0.733	18	32655158	0.000959554	C18orf10	4.21E-182	3140110	C/T	C	-28.77673	0
rs3870339	A/T	T	0.294	3	49511867	0.000959233	C3orf62	0.000134865	130280	A/T	T	-3.817429	0.0511033
rs4790	C/T	T	0.068	12	52159633	0.000956495	MFSD5	1.32E-06	6900600	C/T	T	4.8361331	0.0004486
rs116839527	C/T	T	0.821	3	133915547	0.000951554	ACAD11	9.81E-198	1820746	T/C	C	-32.51813	0
rs2521222	C/T	T	0.517	7	24508049	0.000950256	DFNA5	1.27E-48	580403	C/T	T	-14.65426	0
rs3866330	C/T	T	0.3	3	49557998	0.000948415	TCTA	2.38E-05	540100	C/T	T	-4.225891	0.0108242
rs4983579	A/G	G	0.792	14	104626441	0.000940723	NUDT14	4.31E-08	110092	G/A	A	5.4777819	1.64E-05
rs4983579	A/G	G	0.792	14	104626441	0.000940723	C14orf79	0.000124648	3180445	G/A	A	3.836815	0.0474467
rs4983579	A/G	G	0.792	14	104626441	0.000940723	GPR132	4.70E-11	5870692	G/A	A	-6.580068	0
rs916090	C/T	T	0.407	12	68161285	0.000938217	LYZ	3.01E-11	3710504	T/C	T	-6.646273	0
rs2463463	C/T	T	0.358	2	10493875	0.00093594	HPCAL1	1.55E-12	520184	C/T	T	-7.069969	0

rs11763462	A/G	G	0.129	7	129993518	0.000676544	AC007938.1	6.58E-09	2030386	A/G	G	5.8014169	0
rs2499855	C/T	T	0.892	1	160196385	0.000671659	FCRLB	1.62E-15	4730204	T/C	C	7.9675853	0
rs3130564	C/T	T	0.283	6	31209653	0.000662753	HCG27	1.23E-19	3800358	C/T	T	-9.066274	0
rs12285938	C/T	T	0.971	11	10555328	0.000661598	MRV11.AC009532.9	1.29E-07	2320750	T/C	C	5.280216	3.19E-05
rs12285938	C/T	T	0.971	11	10555328	0.000661598	RNF141	4.15E-06	4220372	T/C	C	-4.603899	0.0018124
rs2248373	C/T	T	0.417	6	31554525	0.000661319	ATP6V1G2.BAT1	1.56E-13	1260538	T/C	T	-7.382212	0
rs8046429	A/G	G	0.553	16	75769346	0.000658015	MON1B	4.11E-153	5310674	G/A	A	-26.3586	0
rs515271	A/G	G	0.842	11	125532146	0.00065407	RPUSD4	1.62E-49	2100608	G/A	A	-14.7935	0
rs4875	C/T	T	0.392	3	159803291	0.000652582	GFM1	1.55E-25	3440195	T/C	T	-10.44471	0
rs9366653	A/G	G	0.867	6	26462226	0.00065204	HIST1H2AC,HIST1H2BD,HIST1H4A	6.97E-18	290730	G/A	A	-8.615501	0
rs9366653	A/G	G	0.867	6	26462226	0.00065204	HIST1H4C,HIST1H4A	1.81E-06	3890349	G/A	A	4.7732456	0.0006669
rs6901497	A/G	G	0.992	6	26808488	0.000637008	-	4.93E-40	290273	G/A	A	13.243586	0
rs6901497	A/G	G	0.992	6	26808488	0.000637008	HMGNA4	6.54E-10	5270689	G/A	A	-6.176924	0
rs6901497	A/G	G	0.992	6	26808488	0.000637008	ABT1	1.13E-05	6480392	G/A	A	-4.391373	0.0051633
rs2183269	C/T	T	0.681	1	68441018	0.000634057	GPR177	6.55E-08	1570441	T/C	C	5.4031417	1.62E-05
rs2183269	C/T	T	0.681	1	68441018	0.000634057	GPR177	8.58E-16	4250711	T/C	C	8.0457108	0
rs2183269	C/T	T	0.681	1	68441018	0.000634057	GPR177	5.44E-14	6940280	T/C	C	7.5211212	0
rs3786320	A/C	C	0.975	18	30951841	0.000621055	ZNF397OS.ZNF397	3.08E-05	2320673	C/A	A	-4.167957	0.0137229
rs13072540	A/C	C	0.422	3	153476864	0.000619991	MBNL1	2.43E-79	160253	C/A	C	-18.86009	0
rs1592971	A/G	G	0.8	5	156951767	0.00061657	THG1L	3.33E-29	4730348	G/A	A	-11.21803	0
rs1592971	A/G	G	0.8	5	156951767	0.00061657	CYFIP2	0.000104801	6100768	G/A	A	3.879302	0.041001
rs1592971	A/G	G	0.8	5	156951767	0.00061657	ADAM19	9.71E-45	6900209	G/A	A	-14.0337	0
rs7216411	C/T	T	0.712	17	43443943	0.000612489	SNX11	7.20E-38	130446	T/C	C	12.863832	0
rs6602563	C/T	T	0.568	10	12210180	0.000587888	DHTKD1	5.75E-07	6250075	T/C	C	-4.999493	0.0001689
rs4889366	A/G	G	0.703	16	80278919	0.000583779	AC099524.5	2.40E-08	360626	A/G	A	5.5807995	0
rs4946151	C/G	G	0.583	6	116701982	0.000580482	FAM26F	2.52E-13	6590646	G/C	C	-7.31792	0
rs6499263	C/T	T	0.45	16	68447650	0.000563855	WWP2	1.95E-10	3800603	T/C	T	6.365191	0
rs7024579	C/T	T	0.246	9	138240234	0.000561212	C9orf151	3.54E-08	3830605	T/C	T	5.5122662	0
rs613214	A/C	C	0.367	11	125542572	0.00055931	FOXRED1	8.19E-19	1240309	C/A	C	8.8575313	0
rs613214	A/C	C	0.367	11	125542572	0.00055931	DCPS	5.43E-07	1500129	C/A	C	-5.010771	0.0001538
rs3773663	A/G	G	0.558	3	30705876	0.000556378	TGFB2	3.91E-34	6560091	A/G	A	-12.18145	0
rs2652804	C/T	T	0.353	15	61161309	0.000547472	LACTB	4.69E-13	460373	C/T	T	-7.234145	0
rs2652804	C/T	T	0.353	15	61161309	0.000547472	LACTB	3.31E-72	1570669	C/T	T	-17.97072	0
rs2652804	C/T	T	0.353	15	61161309	0.000547472	-	3.27E-14	3940762	C/T	T	-7.587176	0
rs2071407	C/T	T	0.283	14	103056893	0.00054294	XRCC3,KLC1	0.000112279	670014	T/C	T	-3.862497	0.0433828
rs1783537	A/G	G	0.48	11	73647399	0.000536557	PGM2L1	2.29E-06	7210093	G/A	A	-4.726503	0.0009108
rs2766533	A/G	G	0.483	6	35793468	0.000534651	RPL10A	0.000224078	4040100	G/A	G	3.690399	0.0791117
rs3786343	C/T	T	0.342	18	59798875	0.000533086	SERPINB8	6.58E-07	1770376	T/C	T	-4.973431	0.0002141
rs3786343	C/T	T	0.342	18	59798875	0.000533086	SERPINB8	4.13E-09	3400672	T/C	T	-5.878863	0
rs6755	A/G	G	0.552	6	116677948	0.000532652	TSPYL4	4.28E-05	610521	G/A	A	4.0918895	0.0183132
rs6755	A/G	G	0.552	6	116677948	0.000532652	NT5DC1	8.20E-25	6960129	G/A	A	10.285416	0
rs3768015	A/G	G	0.675	1	149079578	0.000532611	CDC42SE1,C1orf56	2.51E-11	4480192	G/A	A	-6.672622	0
rs3768015	A/G	G	0.675	1	149079578	0.000532611	LASS2	7.75E-23	6380154	G/A	A	9.8377691	0
rs6070706	C/T	T	0.109	20	57061634	0.00053202	TH1L,CTSZ	2.33E-114	4390288	C/T	T	-22.72893	0
rs6070706	C/T	T	0.109	20	57061634	0.00053202	TH1L,CTSZ	2.28E-83	6250017	C/T	T	-19.34427	0
rs12208776	G/T	T	0.508	6	7640417	0.000531178	BMP6	8.02E-07	6980064	G/T	G	-4.934812	0.0002433
rs3134940	C/T	T	0.84	6	32257794	0.000521231	SKIV2L	3.34E-14	5560541	T/C	C	-7.584488	0
rs11591349	A/T	T	0.466	10	102734321	0.000520655	SEMA4G.MRPL43	5.78E-47	6620181	T/A	T	-14.39255	0
rs3136555	C/G	G	0.958	5	54434096	0.000518149	GZMA	3.39E-05	3420612	G/C	C	4.1459272	0.015027
rs1264709	A/T	T	0.22	6	30164455	0.000517854	ZNRD1	1.06E-18	4060255	A/T	T	-8.828489	0
rs2867301	C/T	T	0.375	1	148920419	0.000504189	CTSS	3.64E-157	6330484	T/C	T	26.709614	0
rs11836637	C/T	T	0.904	12	50208747	0.000503566	SLC4A8	1.85E-14	6200196	T/C	C	-7.66092	0
rs911554	G/T	T	0.302	14	103069124	0.000484057	BAG5	1.35E-13	130669	T/G	T	7.4015563	0
rs1264695	A/G	G	0.242	6	30175871	0.000477822	ZNRD1	2.81E-06	4050673	A/G	G	4.6846262	0.0010651
rs1877723	C/T	T	0.302	4	2816597	0.00047691	ADD1	3.28E-11	5900685	C/T	T	6.63326	0
rs773139	A/G	G	0.108	9	76852819	0.000476851	C9orf95	3.58E-39	1980180	A/G	G	13.093659	0
rs2844796	A/G	G	0.754	6	30180490	0.000476638	PPP1R11	5.87E-09	620376	G/A	A	5.820494	0
rs6446257	C/T	T	0.692	3	49228496	0.000470609	DALRD3,WDR6	1.93E-82	70707	T/C	C	19.233909	0

rs910527	C/T	T	0.667	20	24975078	0.000106306	CST7	3.75E-12	4810341	T/C	C	6.9462045	0
rs910527	C/T	T	0.667	20	24975078	0.000106306	ACSS1	4.94E-10	5220377	T/C	C	-6.22114	0
rs9858538	C/T	T	0.8	3	186538170	0.000104551	EHHADH	0.000179105	4880382	T/C	C	-3.746856	0.0652328
rs2242256	C/G	G	0.258	10	75267552	0.000101126	CAMK2G	5.88E-07	1010475	C/G	G	-4.995103	0.0001842
rs213230	A/G	G	0.242	6	28438243	9.72E-05	ZKSCAN3	3.22E-08	3400605	A/G	G	5.5293363	0
rs1150709	C/T	T	0.61	6	28315342	9.45E-05	ZNF193	2.07E-70	4830220	T/C	C	-17.73991	0
rs1592	A/C	C	0.392	2	135438613	9.42E-05	CCNT2	4.13E-14	3520382	C/A	A	-7.556984	0
rs3131787	C/T	T	0.742	6	31007503	8.79E-05	VARSL	8.53E-144	1500753	T/C	C	-25.53282	0
rs2070450	A/G	G	0.975	22	22408513	8.49E-05	SMARCB1	4.01E-07	150021	G/A	A	-5.068769	0.0001085
rs8010247	A/G	G	0.214	14	103003309	7.76E-05	MARK3	2.35E-27	7570706	G/A	G	10.835121	0
rs2768551	A/G	G	0.858	6	109377349	6.92E-05	SESN1	3.70E-05	1240553	G/A	A	4.1252196	0.0160986
rs2544029	C/T	T	0.3	12	46481224	6.66E-05	RPAP3	5.43E-08	2000392	T/C	T	-5.436764	1.63E-05
rs2544029	C/T	T	0.3	12	46481224	6.66E-05	SLC48A1	5.29E-32	2900139	T/C	T	11.774503	0
rs17426064	C/T	T	0.2	17	41184469	6.36E-05	-	5.75E-105	1070368	C/T	T	21.758431	0
rs9858592	C/T	T	0.542	3	99919443	6.36E-05	ST3GAL6	0.000114132	5260440	T/C	C	-3.858538	0.0439132
rs1056237	A/C	C	0.375	6	52503716	6.32E-05	PAQR8	1.07E-13	2070451	A/C	C	7.431428	0
rs7232963	C/T	T	0.3	18	18845192	6.24E-05	RBBP8	4.35E-19	6580672	C/T	T	-8.927693	0
rs10445335	A/T	T	0.795	17	41290685	6.08E-05	-	9.81E-198	240152	T/A	A	41.386696	0
rs4630591	C/T	T	0.192	17	41548345	6.04E-05	KIAA1267	3.03E-34	1850079	C/T	T	-12.20232	0
rs1531681	A/G	G	0.425	6	28334857	5.91E-05	ZNF187	4.13E-11	5390259	G/A	G	-6.599235	0
rs17498135	C/T	T	0.1	1	90121935	5.90E-05	LRRC8D	0.000111454	2650100	C/T	T	3.8643374	0.0432691
rs11038358	A/G	G	0.625	11	45199134	5.51E-05	PRDM11,AC103681.4	5.49E-06	5090221	A/G	A	-4.545237	0.002382
rs2959945	C/T	T	0.807	17	40931011	5.22E-05	SH3D20	6.32E-45	7330070	T/C	C	-14.06419	0
rs8023669	C/T	T	0.617	15	81511661	4.56E-05	AC024270.6	7.85E-14	3460296	C/T	C	7.4728403	0
rs12577642	A/T	T	0.271	11	43685110	4.20E-05	HSD17B12	4.71E-58	6280050	A/T	T	-16.06211	0
rs9393777	C/T	T	0.858	6	27050006	4.08E-05	HIST1H2BK	1.90E-05	6110630	T/C	C	4.2767252	0.0088757
rs1635298	A/T	T	0.208	17	41100127	3.99E-05	LRRC37A4,AC091132.16-2,AC091132.16-1	6.10E-10	3890041	A/T	T	-6.187848	0
rs2855804	C/T	T	0.255	6	31575344	3.76E-05	BAT3	3.24E-05	5340382	C/T	T	4.155911	0.0143743
rs10178728	A/T	T	0.845	2	239024860	3.56E-05	ASB1	8.64E-20	1820347	T/A	A	-9.104914	0
rs2248617	C/T	T	0.373	6	31556512	3.17E-05	-	3.90E-91	580452	C/T	T	20.245572	0
rs9788721	C/T	T	0.567	15	76589924	3.14E-05	IREB2	2.63E-70	6020328	T/C	C	-17.72632	0
rs2516417	C/G	G	0.308	6	31567615	2.87E-05	-	1.21E-167	1440603	C/G	G	-27.59713	0
rs11000787	C/T	T	0.276	10	75254389	2.47E-05	NDST2	2.63E-47	110561	C/T	T	-14.44698	0
rs931794	A/G	G	0.433	15	76613235	2.38E-05	PSMA4	1.13E-11	3420543	G/A	G	6.7892636	0
rs886424	C/T	T	0.193	6	30889981	2.17E-05	IER3	7.28E-60	1190367	C/T	T	16.318799	0
rs6788718	A/G	G	0.058	3	191765028	2.01E-05	ILIRAP,AC108747.5-1	2.23E-15	4880632	A/G	G	7.9278718	0
rs6729330	C/T	T	0.408	2	218402541	1.96E-05	TNS1	3.72E-53	6250110	T/C	C	-15.34683	0
rs11150044	A/C	C	0.664	16	76758793	1.49E-05	WVOX	0.000250254	6450189	C/A	A	-3.662025	0.0868126
rs1264353	A/C	C	0.831	6	30895741	1.17E-05	FLOT1	9.05E-42	3780181	C/A	A	13.540314	0
rs10041283	C/G	G	0.25	5	147756991	4.81E-06	FBXO38	3.05E-22	7570139	C/G	G	9.6988421	0
rs2553449	C/T	T	0.358	4	106918341	2.96E-06	GSTCD	3.17E-05	5360487	T/C	T	4.1613972	0.0139802
rs2855812	G/T	T	0.258	6	31580699	8.57E-08	BAT1	5.41E-06	160132	G/T	T	4.5482482	0.0023256
rs2855812	G/T	T	0.258	6	31580699	8.57E-08	LTA	1.02E-10	1030743	G/T	T	-6.463757	0
rs17331332	A/G	G	0.923	4	107027556	1.11E-12	INTS12	2.28E-11	4860553	G/A	A	-6.686626	0

Supplementary Table 7B: FEV₁/FVC blood eSNPs

eSNP	GWAS SNP alleles	GWAS reference allele	Reference allele freq in HapMap	Chr	eSNP Position	GWAS_Pval_F EV1/FVC	Blood eQTL regulated gene	eQTL P Value	eQTL regulated Probe Name	eQTL SNP alleles	Allele Assessed	eQTL overall Z Score	FDR	
rs2282041	A/G	G	0.11	9	97288208	3.37E-09	PITCH1	8.82E-20	1410289	G/A	G	9.103	0	
rs11203280	G/T	T	0.258	1	17215370	5.78E-08	CROCC	3.49E-06	610424	T/G	T	4.640	0.0014476	
rs4784887	A/G	G	0.358	16	56623125	8.02E-08	C16orf80	1.20E-05	5360630	A/G	G	4.378	0.00539981	
rs7199132	C/T	T	0.491	16	74007540	8.48E-08	CFDP1	1.84E-11	6200494	T/C	C	6.718	0	
rs1364078	C/T	T	0.473	16	73954382	1.17E-07	ADAT1	1.29E-07	1710204	T/C	T	5.280	3.19E-05	
rs2596560	C/T	T	0.746	6	31463297	1.30E-06	HCP5	5.51E-10	780600	T/C	C	-6.204	0	
rs9319483	C/T	T	0.696	16	73903292	2.28E-06	TMEM170A	9.97E-09	6370019	T/C	C	5.731	0	
rs316398	A/G	G	0.2	5	43073783	2.80E-06	-	6.16E-62	5340278	A/G	G	16.607	0	
rs316398	A/G	G	0.2	5	43073783	2.80E-06	C5orf39	1.22E-10	7330523	A/G	G	-6.437	0	
rs3891175	C/T	T	0.167	6	32742445	3.24E-06	-	1.18E-35	620544	C/T	T	-12.464	0	
rs2548993	A/G	G	0.283	5	131836768	7.97E-06	SLC22A4	2.04E-24	4850168	G/A	G	10.198	0	
rs2548993	A/G	G	0.283	5	131836768	7.97E-06	SLC22A5	1.94E-68	7050180	G/A	G	17.483	0	
rs2040406	A/G	G	0.112	6	32710985	1.30E-05	HLA-DRA	6.60E-29	270168	A/G	G	11.157	0	
rs10853135	A/G	G	0.534	17	25212801	2.25E-05	SSH2	1.50E-92	2810468	A/G	G	-20.405	0	
rs12920639	A/C	C	0.212	16	56671641	2.48E-05	CSNK2A2	1.02E-08	4150176	A/C	C	5.728	0	
rs7251067	A/G	G	0.88	19	18461056	2.54E-05	LRRRC25.PGPEP1	4.63E-06	3850678	G/A	A	-4.581	0.0020657	
rs7251067	A/G	G	0.88	19	18461056	2.54E-05	LRRRC25.PGPEP1	2.51E-10	5310397	G/A	A	-6.327	0	
rs7251067	A/G	G	0.88	19	18461056	2.54E-05	-	4.15E-18	6550358	G/A	A	-8.675	0	
rs11134736	A/G	G	0.778	5	156769091	2.62E-05	CYFIP2	1.35E-09	6100768	G/A	A	6.062	0	
rs931794	A/G	G	0.433	15	76613235	2.67E-05	PSMA4	1.13E-11	3420543	G/A	G	6.789	0	
rs7125978	A/G	G	0.9	11	72716877	2.90E-05	ARHGEF17	1.75E-43	1660020	G/A	A	13.827	0	
rs7957346	A/C	C	0.508	12	94784605	2.94E-05	SNRPF	5.50E-14	650301	C/A	C	7.520	0	
rs2238104	G/T	T	0.442	12	6057926	3.08E-05	CD9	7.88E-06	6250487	T/G	T	4.469	0.00365836	
rs2303693	C/T	T	0.142	19	18418673	3.44E-05	ELL.PGPEP1	3.30E-52	6650086	C/T	T	15.205	0	
rs8053376	A/G	G	0.575	16	18867252	3.48E-05	RPS15A	2.16E-13	7100717	G/A	A	-7.338	0	
rs10752641	C/G	G	0.322	1	152698666	3.64E-05	IL6R	3.09E-13	1780603	G/C	G	7.291	0	
rs10752641	C/G	G	0.322	1	152698666	3.64E-05	IL6R	1.06E-05	5870685	G/C	G	4.406	0.00477446	
rs140126	C/T	T	0.425	22	28477038	3.67E-05	THOC5	2.76E-07	3060561	T/C	T	5.139	9.39E-05	
rs890498	C/G	G	0.417	15	39898590	3.68E-05	-	3.01E-06	1300747	G/C	G	4.670	0.00114959	
rs890498	C/G	G	0.417	15	39898590	3.68E-05	EHD4	5.40E-21	6400647	G/C	G	9.401	0	
rs9305545	A/G	G	0.224	21	34517691	3.83E-05	MRPS6	2.94E-16	6400195	A/G	G	-8.176	0	
rs2656065	A/G	G	0.603	15	76537604	4.29E-05	IREB2	1.03E-87	6020328	G/A	A	-19.854	0	
rs3741149	C/T	T	0.1	11	72698732	4.34E-05	-	4.42E-09	2630601	C/T	T	-5.868	0	
rs12604345	C/T	T	0.183	18	12958223	4.49E-05	CEP192	6.69E-35	4490154	C/T	T	-12.325	0	
rs11080616	A/G	G	0.817	18	12951999	4.90E-05	SEH1L	0.00012669	3	1580286	G/A	A	-3.833	0.04810034
rs9348970	C/G	G	0.825	6	35261543	5.03E-05	ZNF76	2.08E-10	4640333	G/C	C	-6.356	0	
rs9568348	C/T	T	0.931	13	49366723	5.08E-05	-	0.00018578	5	7150735	T/C	C	3.738	0.06703193
rs2855812	G/T	T	0.258	6	31580699	5.11E-05	LTA	1.02E-10	1030743	G/T	T	-6.464	0	
rs2855812	G/T	T	0.258	6	31580699	5.11E-05	TNF	4.77E-14	2640301	G/T	T	-7.538	0	
rs17331332	A/G	G	0.923	4	107027556	5.30E-05	INTS12	2.28E-11	4860553	G/A	A	-6.687	0	
rs1042719	C/G	G	0.698	5	148187640	5.71E-05	ADRB2	4.32E-23	7570326	G/C	C	-9.896	0	
rs140119	A/T	T	0.575	22	28468149	5.95E-05	ZMAT5	1.95E-10	5420068	T/A	A	6.365	0	
rs4240872	C/T	T	0.683	1	152702819	6.15E-05	UBAP2L	1.18E-11	7610152	T/C	C	6.783	0	
rs17678767	C/G	G	0.398	15	39883714	6.42E-05	JMJD7-PLA2G4B	1.61E-42	2350722	G/C	G	13.667	0	
rs1473781	A/G	G	0.583	15	39606209	6.48E-05	RPAP1	3.10E-21	1450678	G/A	A	-9.459	0	
rs7596847	A/T	T	0.825	2	238985857	7.57E-05	ASB1	2.52E-19	1820347	T/A	A	-8.988	0	
rs12505696	C/T	T	0.322	4	90150093	7.64E-05	TIGD2	1.58E-05	1820497	T/C	T	4.317	0.00737962	
rs2097572	A/G	G	0.125	1	165997407	7.65E-05	MPZL1	6.18E-07	7000431	A/G	G	4.985	0.00021456	

rs713718	G/T	T	0.592	22	28644092	7.82E-05	MTMR3	3.68E-78	460039	T/G	G	18.716	0	
rs713718	G/T	T	0.592	22	28644092	7.82E-05	MTMR3	3.21E-16	5720577	T/G	G	8.165	0	
rs9469220	A/G	G	0.6	6	32766288	8.12E-05	PSMB9,TAP1	1.98E-05	7330392	G/A	G	4.268	0.00925551	
rs7764819	G/T	T	0.897	6	32788554	8.79E-05	TAP2	4.78E-18	3940477	T/G	G	8.658	0	
rs10418984	C/T	T	0.15	19	36530218	9.44E-05	TSHZ3	4.54E-19	1260066	C/T	T	8.923	0	
rs10041283	C/G	G	0.25	5	147756991	9.75E-05	FBXO38	3.05E-22	7570139	C/G	G	9.699	0	
rs11191741	A/G	G	0.688	10	105352094	9.75E-05	USMG5,hsa-mir-1307	2.02E-08	2320253	A/G	A	5.610	0	
rs893185	A/C	C	0.45	19	63681307	0.000101514	CHMP2A	2.32E-05	3130022	C/A	A	-4.232	0.01067167	
rs893185	A/C	C	0.45	19	63681307	0.000101514	ZNF446	0.00020048	9	5810767	C/A	A	3.719	0.07215723
rs3130557	C/T	T	0.167	6	31202682	0.000108095	HLA-C	1.75E-24	7150630	C/T	T	10.212	0	
rs6088580	C/G	G	0.5	20	32748714	0.000113679	GGT7	3.49E-24	2680161	G/C	G	10.145	0	
rs9272775	C/T	T	0.592	6	32718235	0.000115046	PSMB9	3.02E-11	1940180	T/C	T	6.646	0	
rs9272775	C/T	T	0.592	6	32718235	0.000115046	AL662789.11	0.00014169	2100066	T/C	T	3.805	0.05359816	
rs9272775	C/T	T	0.592	6	32718235	0.000115046	HLA-DRA	3.62E-28	2570564	T/C	T	11.005	0	
rs9272775	C/T	T	0.592	6	32718235	0.000115046	HLA-DOB	2.35E-20	3450338	T/C	T	9.245	0	
rs9272775	C/T	T	0.592	6	32718235	0.000115046	HLA-DRB5	5.37E-101	6370315	T/C	T	21.335	0	
rs131298	A/G	G	0.558	22	28510001	0.000125066	ZMAT5,UCRC	5.35E-89	6380563	G/A	A	20.001	0	
rs7137731	C/T	T	0.585	12	94015130	0.000125913	NR2C1	3.21E-07	1470521	T/C	C	5.111	0.0001092	
rs4946151	C/G	G	0.583	6	116701982	0.000134504	FAM26F	2.52E-13	6590646	G/C	C	-7.318	0	
rs2014725	C/T	T	0.325	1	17289840	0.000134928	PADI2	1.36E-56	4730746	C/T	T	-15.852	0	
rs165685	C/T	T	0.208	22	19249755	0.000137154	MED15	3.29E-26	6770672	T/C	T	-10.591	0	
rs2245090	C/G	G	0.767	17	5469488	0.000139732	NUP88	0.00017182	5	3800678	G/C	C	3.757	0.06278352
rs1264353	A/C	C	0.831	6	30895741	0.000144601	FLOT1	9.05E-42	3780181	C/A	A	13.540	0	
rs17093914	C/T	T	0.258	14	74433394	0.000148685	ACYP1	0.00016168	5	5910148	C/T	T	-3.772	0.05990211
rs2596501	C/T	T	0.424	6	31429190	0.000152153	HCG27	6.43E-13	3800358	T/C	T	7.191	0	
rs886424	C/T	T	0.193	6	30889981	0.000154946	IER3	7.28E-60	1190367	C/T	T	16.319	0	
rs1007636	C/T	T	0.85	6	33012019	0.000157542	HLA-DMB	1.03E-12	4900731	T/C	C	-7.126	0	
rs1150758	C/G	G	0.842	6	32136127	0.000159595	DOM3Z	7.67E-11	4150482	G/C	C	-6.507	0	
rs1150758	C/G	G	0.842	6	32136127	0.000159595	HSPA1A	0.00017278	9	6380717	G/C	C	3.756	0.06314103
rs2227564	C/T	T	0.223	10	75343107	0.000162638	PLAU,C10orf55	3.38E-16	5360670	C/T	T	8.159	0	
rs2070063	A/G	G	0.392	2	64715559	0.000167913	SERTAD2	1.43E-09	2070367	G/A	G	6.053	0	
rs973879	C/T	T	0.375	14	74367480	0.00016799	-	0.00029849	8	6900167	T/C	T	3.617	0.09968472
rs7514452	C/T	T	0.733	1	152704708	0.000170284	AQP10	7.49E-05	2340577	T/C	C	-3.960	0.03012869	
rs2206030	C/T	T	0.275	6	35512332	0.000171601	RPL10A	1.67E-07	4040100	C/T	T	5.233	4.76E-05	
rs2076607	C/T	T	0.678	1	17295247	0.000173089	SDHB	6.40E-06	3370195	T/C	C	4.513	0.00289567	
rs6088568	A/C	C	0.342	20	32729632	0.000182231	MAP1LC3A	7.35E-36	5490240	C/A	C	12.501	0	
rs3738814	A/G	G	0.373	1	17204263	0.000182318	ATP13A2	5.45E-12	7100326	G/A	G	-6.893	0	
rs16868886	A/G	G	0.917	5	39475736	0.000187282	DAB2	1.82E-08	610152	G/A	A	-5.628	0	
rs16868886	A/G	G	0.917	5	39475736	0.000187282	DAB2	3.20E-12	3930367	G/A	A	-6.969	0	
rs6692872	A/G	G	0.105	1	3695845	0.000190512	LRRRC47	0.00010830	1	2000132	A/G	G	-3.871	0.04191167
rs3742783	C/T	T	0.258	14	74446761	0.000194627	MLH3	6.50E-12	7560274	C/T	T	-6.868	0	
rs11066028	A/C	C	0.325	12	110729553	0.000195496	ERP29	1.42E-05	830730	A/C	C	-4.340	0.00660274	
rs11066028	A/C	C	0.325	12	110729553	0.000195496	ERP29	1.86E-14	4120333	A/C	C	-7.660	0	
rs4660808	C/T	T	0.233	1	39791096	0.00019805	MACF1	2.56E-25	6370739	C/T	T	10.397	0	
rs9919666	A/G	G	0.776	11	73968529	0.000210482	PGM2L1	2.97E-06	7210093	G/A	A	4.673	0.00109186	
rs731952	C/T	T	0.273	14	74436200	0.00021095	EIF2B2	1.85E-43	3130079	C/T	T	-13.823	0	
rs6088575	A/G	G	0.342	20	32737064	0.000212044	ACSS2	1.30E-25	4490524	G/A	G	10.461	0	
rs17565905	A/G	G	0.692	10	12279950	0.000217397	SEC61A2	3.16E-11	5700364	G/A	A	-6.639	0	
rs5752962	G/T	T	0.45	22	28518245	0.000220674	ZMAT5,ASCC2	3.23E-99	1570523	T/G	T	-21.143	0	
rs4934284	C/G	G	0.108	10	82267277	0.000221125	-	9.68E-23	2340414	G/C	G	-9.815	0	
rs4934284	C/G	G	0.108	10	82267277	0.000221125	C10orf57	1.30E-08	5960168	G/C	G	-5.686	0	
rs12236402	C/T	T	0.092	9	119302174	0.000227311	TLR4	1.12E-06	1500180	T/C	T	4.870	0.00036139	

rs11660634	A/G	G	0.867	18	13153125	0.000229552	SEH1L	0.00013226	6	6760504	G/A	A	-3.822	0.05014577
rs12548626	A/C	C	0.843	8	17754380	0.000234642	ASAH1	5.71E-07		2030482	C/A	A	5.001	0.00016892
rs12548626	A/C	C	0.843	8	17754380	0.000234642	PCM1	8.10E-15		6180022	C/A	A	7.766	0
rs1888825	G/T	T	0.808	6	35338518	0.000239495	DEF6	1.85E-132		1570255	T/G	G	-24.491	0
rs652888	A/G	G	0.2	6	31959213	0.000244675	C6orf48	5.09E-05		6280601	A/G	G	-4.052	0.0214875
rs592229	G/T	T	0.508	6	32038420	0.000247407	RDBP	4.86E-15		1820538	G/T	G	-7.831	0
rs575013	A/C	C	0.525	11	85128084	0.000249485	SYTL2	2.80E-87		2100274	C/A	A	19.803	0
rs575013	A/C	C	0.525	11	85128084	0.000249485	SYTL2	1.27E-129		6760037	C/A	A	24.223	0
rs154977	C/G	G	0.675	6	33007996	0.000260632	HLA-DPB1	2.89E-13		1050360	C/G	C	7.300	0
rs13211886	G/T	T	0.108	6	41387766	0.000261841	TREML2	2.54E-07		7380180	G/T	T	5.155	9.41E-05
rs2242256	C/G	G	0.258	10	75267552	0.000262059	CAMK2G	5.88E-07		1010475	C/G	G	-4.995	0.00018416
rs12937167	A/G	G	0.123	17	34249707	0.000267313	PCGF2	6.46E-07		3830296	G/A	G	4.977	0.0002142
rs181095	C/T	T	0.792	7	87925775	0.000283774	STEAP4	8.19E-11		540091	T/C	C	-6.497	0
rs2716934	A/T	T	0.336	17	5511762	0.000294372	MIS12	0.00024598	9	1050017	T/A	T	3.666	0.08536697
rs10902208	A/G	G	0.767	11	719570	0.000297858	TSPAN4,AP006623.1	8.67E-20		110661	G/A	A	9.104	0
rs10902208	A/G	G	0.767	11	719570	0.000297858	LRDD	7.93E-07		580242	G/A	A	-4.937	0.00024331
rs10902208	A/G	G	0.767	11	719570	0.000297858	PNPLA2	1.26E-26		1190463	G/A	A	10.680	0
rs10902208	A/G	G	0.767	11	719570	0.000297858	TMEM80	5.96E-06		1580707	G/A	A	-4.528	0.00263158
rs10902208	A/G	G	0.767	11	719570	0.000297858	CD151	1.07E-35		1940132	G/A	A	-12.472	0
rs10902208	A/G	G	0.767	11	719570	0.000297858	POLR2L	1.42E-12		6200017	G/A	A	-7.082	0
rs10902208	A/G	G	0.767	11	719570	0.000297858	CD151	3.51E-75		6330474	G/A	A	-18.347	0
rs10902208	A/G	G	0.767	11	719570	0.000297858	CD151	6.13E-23		6550259	G/A	A	-9.861	0
rs9380261	C/G	G	0.827	6	31613763	0.000305143	AIF1	2.71E-06		1940047	G/C	C	-4.691	0.00103741
rs6088578	C/T	T	0.325	20	32745265	0.000305874	ACSS2	5.69E-21		4670544	T/C	T	9.396	0
rs657605	C/T	T	0.783	1	111538160	0.000307042	DENND2D	1.57E-13		6020327	T/C	C	7.381	0
rs2571391	A/C	C	0.388	6	30031817	0.000317863	-	6.07E-05		1660452	C/A	C	4.010	0.02523006
rs2020939	A/G	G	0.6	17	25574858	0.000319488	BLMH	5.04E-06		2850577	A/G	A	4.563	0.00217298
rs4904411	C/T	T	0.492	14	87580008	0.000319569	GALC	7.14E-60		3440491	T/C	T	16.320	0
rs6538597	A/C	C	0.417	12	94037328	0.000333485	VEZT	2.08E-13		2000195	C/A	C	7.343	0
rs1965193	C/T	T	0.275	12	32019486	0.00033598	C12orf35	2.43E-11		7510424	C/T	T	-6.678	0
rs6669395	A/G	G	0.591	1	36426304	0.000336186	FAM176B,C1orf113	7.68E-10		7100561	G/A	A	-6.151	0
rs3734263	A/G	G	0.083	6	34946407	0.000336909	ANKS1A	3.65E-09		5390064	A/G	G	5.899	0
rs2071596	A/G	G	0.85	6	31614670	0.000338557	BAT1	8.25E-23		160132	G/A	A	-9.831	0
rs2071596	A/G	G	0.85	6	31614670	0.000338557	LST1	1.80E-07		770471	G/A	A	5.219	4.74E-05
rs2235980	A/G	G	0.533	6	116672197	0.00035713	TSPYL4	2.22E-05		610521	G/A	A	4.242	0.01033741
rs7744809	A/G	G	0.561	6	116659759	0.00036016	NT5DC1	6.02E-26		6960129	G/A	A	10.534	0
rs593226	A/G	G	0.317	12	110478269	0.000370228	ATXN2	7.16E-07		1090400	G/A	G	4.957	0.00022883
rs1886461	A/G	G	0.733	14	61014635	0.000376963	PRKCH	3.04E-05		3290731	G/A	A	-4.171	0.0135396
rs3851294	A/G	G	0.875	1	203397036	0.000390864	DSTYK	1.60E-88		5560360	G/A	A	19.947	0
rs644045	A/G	G	0.625	6	31991936	0.000415835	NEU1	0.00013291	2	4200692	A/G	A	-3.821	0.05032172
rs7260359	C/T	T	0.405	19	50506748	0.000416121	CKM	1.33E-15		1580592	T/C	C	7.992	0
rs7260359	C/T	T	0.405	19	50506748	0.000416121	VASP	2.15E-05		2320356	T/C	C	4.249	0.01002422
rs7260359	C/T	T	0.405	19	50506748	0.000416121	KLC3	7.13E-15		2340500	T/C	C	-7.782	0
rs6938656	C/T	T	0.108	6	41364098	0.000417992	TREM1	2.06E-11		3310091	C/T	T	-6.702	0
rs10839	A/T	T	0.325	1	39917405	0.00043771	HPCAL4	1.10E-142		5220524	T/A	T	25.433	0
rs1368528	A/C	C	0.831	4	101514882	0.000439617	DDIT4L	0.00027348	6	380019	C/A	A	3.639	0.09330758
rs11153162	A/C	C	0.742	6	97311015	0.000441876	C6orf66	6.31E-05		430309	C/A	A	-4.001	0.02600102
rs11153162	A/C	C	0.742	6	97311015	0.000441876	C6orf66	0.00015186	5	1940435	C/A	A	-3.788	0.05693728
rs17098453	C/T	T	0.267	14	61014320	0.000449234	TMEM30B	0.00014134	7	670754	C/T	T	3.806	0.05355891
rs17579009	C/T	T	0.127	6	110897677	0.000450261	SLC22A16	2.48E-68		2480072	T/C	T	-17.469	0
rs10037531	C/T	T	0.475	5	156738482	0.000458965	CYFIP2	3.36E-16		3520020	C/T	T	8.160	0
rs140110	A/G	G	0.433	22	28461148	0.000459871	NIPSNAP1	5.58E-07		5490131	G/A	A	5.005	0.00016913

rs4759277	A/C	C	0.692	12	55819957	0.000466036	TMEM194A	2.28E-12	1110494	C/A	A	7.016	0	
rs6881684	A/T	T	0.793	5	156957935	0.000469438	ADAM19	4.57E-45	6900209	T/A	A	-14.087	0	
rs2572009	A/G	G	0.525	7	99326941	0.000474478	ZNF3.ZSCAN21	2.78E-07	940576	G/A	A	-5.138	9.39E-05	
rs2572009	A/G	G	0.525	7	99326941	0.000474478	COPS6	1.63E-07	6350114	G/A	A	-5.237	4.76E-05	
rs1048705	A/T	T	0.525	7	99326876	0.000475477	TRIM4	9.81E-198	2810674	T/A	A	-58.956	0	
rs737280	C/T	T	0.667	12	110679359	0.000482652	TMEM116	4.91E-46	2070736	T/C	C	14.244	0	
rs3119331	A/T	T	0.203	1	184701141	0.000484004	TPR	6.23E-40	6770014	A/T	T	-13.226	0	
rs12116935	A/G	G	0.417	1	36562133	0.000484364	LSM10	0.00023050	5	160255	G/A	G	3.683	0.08114622
rs241549	C/T	T	0.408	14	55614413	0.000494171	PELI2	6.82E-08	3840491	C/T	T	5.396	1.62E-05	
rs912576	A/G	G	0.018	1	51777843	0.000494776	EPS15	1.00E-06	1510035	A/G	G	4.891	0.0002719	
rs2763979	C/T	T	0.325	6	31902571	0.000498388	LY6G5C	9.89E-22	3520647	C/T	T	-9.578	0	
rs2763979	C/T	T	0.325	6	31902571	0.000498388	LSM2	7.11E-05	4540349	C/T	T	-3.973	0.02882085	
rs9824435	C/T	T	0.792	3	49649347	0.000500011	NICN1	2.07E-78	3390722	T/C	C	18.747	0	
rs4419885	C/G	G	0.65	9	138106255	0.000500271	NACC2	5.78E-62	3400709	G/C	C	16.611	0	
rs17102847	A/G	G	0.25	14	74394533	0.000501392	DLSTP	5.15E-05	6450681	A/G	G	-4.049	0.02175705	
rs2527919	C/T	T	0.508	7	99332449	0.000504637	CNPY4	1.14E-05	6200743	T/C	C	-4.388	0.00520343	
rs662333	A/G	G	0.259	11	121084155	0.000505389	SORL1	0.00022673	5	2480274	A/G	G	3.687	0.0798429
rs7569851	C/G	G	0.5	2	15869728	0.00051637	-	0.00028606	8	7560768	G/C	G	-3.628	0.09663989
rs437179	A/C	C	0.65	6	32036993	0.000516908	SKIV2L	1.12E-30	5560541	A/C	A	-11.514	0	
rs2431501	A/T	T	0.358	5	176538658	0.000517272	RAB24	1.23E-34	2360022	A/T	T	-12.275	0	
rs648997	C/T	T	0.328	12	110461159	0.00051891	SH2B3	7.49E-31	6560301	T/C	T	-11.549	0	
rs4870313	A/G	G	0.825	6	155167835	0.00051971	RBM16	1.74E-05	7200070	G/A	A	-4.296	0.00818157	
rs11000787	C/T	T	0.276	10	75254389	0.000526192	NDST2	2.63E-47	110561	C/T	T	-14.447	0	
rs6538592	A/G	G	0.414	12	94026878	0.000527518	NDUFA12	1.51E-81	5090050	G/A	G	-19.127	0	
rs3743553	C/T	T	0.31	16	56587554	0.000536314	C16orf57	2.17E-22	2750360	C/T	T	-9.733	0	
rs2517645	C/T	T	0.792	6	30230602	0.000540143	TRIM10	4.44E-28	110255	T/C	C	-10.986	0	
rs4855882	G/T	T	0.792	3	49690358	0.000545351	UBA7	1.08E-70	2850202	T/G	G	-17.776	0	
rs484932	A/C	C	0.95	9	134231409	0.000548595	TTF1	1.84E-05	1340114	C/A	A	4.283	0.00852766	
rs9861291	C/G	G	0.533	3	180274372	0.000556515	-	4.00E-13	1510608	G/C	C	-7.256	0	
rs9861291	C/G	G	0.533	3	180274372	0.000556515	ZMAT3	1.34E-06	3140543	G/C	C	-4.834	0.00044863	
rs1078341	A/G	G	0.792	3	49660596	0.000558894	AMT	1.69E-20	940450	G/A	A	-9.281	0	
rs1078341	A/G	G	0.792	3	49660596	0.000558894	GMPPB,AMIGO3	6.51E-08	6020228	G/A	A	5.404	1.62E-05	
rs9261431	C/G	G	0.658	6	30194401	0.000566114	RPP21	1.14E-05	830739	C/G	C	-4.390	0.00516334	
rs9261431	C/G	G	0.658	6	30194401	0.000566114	HLA-L	2.44E-06	5130768	C/G	C	4.713	0.00096746	
rs380149	A/G	G	0.377	1	25268346	0.000569638	RHD	5.60E-07	5220615	G/A	G	-5.004	0.00016913	
rs4713858	A/G	G	0.839	6	35510763	0.000571224	PPARD	8.93E-06	2630168	G/A	A	-4.442	0.00419522	
rs7306887	C/T	T	0.6	12	94761226	0.000574119	AMDHD1	4.21E-08	6520112	T/C	C	-5.482	1.64E-05	
rs2734934	C/T	T	0.482	6	29975776	0.000579978	HLA-F	9.65E-159	5220070	T/C	T	-26.845	0	
rs6680302	A/G	G	0.425	1	36426127	0.000580541	TRAPPC3	1.24E-16	1740674	G/A	G	8.280	0	
rs12368672	C/G	G	0.4	12	55798737	0.000580575	STAT6	9.81E-198	1660397	G/C	G	-37.203	0	
rs2806372	C/T	T	0.142	6	109328696	0.000585302	SESN1	1.55E-09	1240553	C/T	T	6.039	0	
rs2749592	A/C	C	0.7	10	38298848	0.00059796	ZNF248	1.84E-06	6620608	A/C	A	-4.770	0.00068158	
rs11632040	C/T	T	0.972	15	48162576	0.000598719	ATP8B4	7.08E-06	1820270	T/C	C	4.491	0.00325364	
rs7140568	C/T	T	0.317	14	103111127	0.000599246	BAG5	2.89E-169	130669	T/C	T	27.732	0	
rs2252551	A/G	G	0.192	6	34730654	0.000601178	C6orf106	1.69E-07	5900504	G/A	G	5.230	4.75E-05	
rs2968787	C/T	T	0.466	2	55119289	0.00060551	RTN4	7.11E-20	2230161	C/T	T	-9.126	0	
rs6729330	C/T	T	0.408	2	218402541	0.000606793	TNS1	3.72E-53	6250110	T/C	C	-15.347	0	
rs3743554	A/C	C	0.681	16	56587693	0.000609804	ZNF319	1.39E-85	3180315	C/A	A	-19.606	0	
rs10918760	C/T	T	0.358	1	165998722	0.000622298	MPZL1	6.32E-06	2490470	T/C	T	4.516	0.00289608	
rs2744963	A/G	G	0.8	6	34700709	0.000622419	C6orf106	3.31E-07	7320110	G/A	A	5.105	0.00010917	
rs4490505	A/G	G	0.698	4	157356553	0.000623346	-	1.31E-09	4070138	G/A	A	6.066	0	
rs17318297	C/G	G	0.103	7	7256463	0.000629817	C1GALT1	8.73E-10	580066	C/G	G	6.131	0	
rs1611715	A/C	C	0.433	6	29937461	0.00063012	HLA-G	9.81E-198	2070088	C/A	C	32.493	0	
rs799466	C/T	T	0.642	14	34573077	0.000635252	KIAA0391	2.42E-39	6560427	T/C	C	-13.123	0	
rs799466	C/T	T	0.642	14	34573077	0.000635252	SRP54	1.18E-11	6860553	T/C	C	6.783	0	

rs11146315	C/T	T	0.392	10	133955839	0.000635809	STK32C	2.84E-130	2450435	T/C	T	24.285	0	
rs11669741	C/T	T	0.558	19	63652293	0.000636058	ZNF132,ZNF584	2.57E-24	4730187	T/C	T	10.175	0	
rs3772503	C/T	T	0.825	3	59955464	0.000641831	FHIT	1.70E-12	7150142	T/C	C	-7.057	0	
rs4801589	C/G	G	0.433	19	63645210	0.000642963	MZF1	1.28E-08	1030053	G/C	C	-5.689	0	
rs8076343	C/T	T	0.683	17	34235398	0.000657272	CCDC49	2.53E-31	730253	T/C	C	11.642	0	
rs2834058	A/G	G	0.85	21	33295942	0.000664766	OLIG1	1.95E-07	2030403	G/A	A	-5.204	6.31E-05	
rs12664426	C/T	T	0.076	6	27187899	0.000664844	HIST1H2BK	5.64E-09	6110630	C/T	T	-5.827	0	
rs10212471	A/G	G	0.258	3	134042081	0.000665856	ACAD11	1.29E-30	1820746	A/G	G	-11.502	0	
rs12889403	C/T	T	0.308	14	103104499	0.000667546	XRCC3,KLC1	5.88E-05	670014	T/C	T	4.018	0.02476325	
rs12889403	C/T	T	0.308	14	103104499	0.000667546	BAG5	6.74E-09	6550349	T/C	T	5.797	0	
rs10983314	A/T	T	0.333	9	118514893	0.000669585	TRIM32,ASTN2	9.52E-07	5670088	A/T	T	4.902	0.00027231	
rs4767293	A/G	G	0.4	12	110947679	0.000675833	ALDH2	1.93E-33	840253	G/A	G	12.051	0	
rs7637711	A/G	G	0.208	3	49804657	0.00067913	GMPPB,AMIGO3	4.53E-20	4830458	A/G	G	9.175	0	
rs2070721	G/T	T	0.534	5	131853741	0.000692848	SLC22A4	2.91E-46	6040398	T/G	G	14.280	0	
rs7232135	C/T	T	0.807	18	13037983	0.000693533	SEH1L	5.01E-09	580196	T/C	C	-5.847	0	
rs518425	A/G	G	0.25	15	76670868	0.000696244	PSMA4	1.27E-21	4040711	G/A	G	-9.552	0	
rs10239342	G/T	T	0.605	7	129796548	0.000697846	CPA5	1.36E-15	1450056	G/T	G	-7.989	0	
rs1048466	A/G	G	0.692	12	421811	0.000698286	JARID1A	1.24E-25	730068	G/A	A	-10.466	0	
rs1048466	A/G	G	0.692	12	421811	0.000698286	CCDC77	1.98E-48	3850291	G/A	A	-14.624	0	
rs2516510	C/T	T	0.693	6	31557893	0.000699745	BAT3	0.00015186	5	5340382	T/C	C	3.788	0.05693728
rs494620	A/G	G	0.617	6	31946692	0.000708115	HSPA1B	8.71E-108	3850433	G/A	A	22.054	0	
rs883058	A/T	T	0.633	1	52089819	0.000715714	TXNDC12	6.16E-05	7160274	T/A	A	4.007	0.0254564	
rs7597198	C/T	T	0.758	2	55109374	0.000722858	RTN4	8.10E-10	6770189	T/C	C	6.143	0	
rs2405308	A/G	G	0.775	1	222819988	0.000723803	CNIH4	1.32E-11	6400332	A/G	A	6.767	0	
rs4731689	C/T	T	0.383	7	129797075	0.000731721	AC007938.1	1.39E-05	2030386	T/C	T	-4.345	0.00624057	
rs9807819	C/T	T	0.342	19	50931438	0.000740901	FBXO46	1.42E-06	3610452	T/C	T	4.822	0.00049224	
rs9807819	C/T	T	0.342	19	50931438	0.000740901	DMWD	3.84E-07	3850731	T/C	T	-5.077	0.00010868	
rs3094694	C/T	T	0.775	6	30559883	0.000749723	HLA-E	1.03E-30	1030747	T/C	C	11.521	0	
rs8032589	C/T	T	0.817	15	39288775	0.00075029	AC012652.1	4.83E-11	6760192	T/C	C	-6.576	0	
rs1022088	A/T	T	0.328	17	43934789	0.00076151	HOXB2	9.81E-198	3460097	T/A	T	-59.274	0	
rs4806117	A/G	G	0.667	19	40418875	0.000763129	USF2	3.00E-09	7210382	G/A	A	5.932	0	
rs9393737	A/G	G	0.805	6	26725285	0.000763165	ABT1	5.59E-05	6480392	G/A	A	-4.030	0.02347279	
rs10859997	C/T	T	0.108	12	94909490	0.000771319	LTA4H	9.22E-12	1430524	C/T	T	-6.818	0	
rs10859997	C/T	T	0.108	12	94909490	0.000771319	HAL	8.45E-24	6840468	C/T	T	-10.058	0	
rs10859997	C/T	T	0.108	12	94909490	0.000771319	HAL	1.53E-07	6960274	C/T	T	-5.249	4.76E-05	
rs1087298	A/G	G	0.4	4	185509610	0.000771701	IRF2	2.87E-10	580722	G/A	G	-6.306	0	
rs11645506	A/C	C	0.593	16	11703080	0.00077232	TXNDC11	1.51E-11	10746	C/A	A	-6.747	0	
rs1561073	A/T	T	0.336	3	11617114	0.000780236	VGLL4	0.00010488	7	5220491	A/T	T	3.879	0.04100099
rs1561073	A/T	T	0.336	3	11617114	0.000780236	ATG7	7.81E-07	5220754	A/T	T	-4.940	0.00024342	
rs13146503	C/T	T	0.633	4	47886593	0.000780642	TXK	1.52E-10	1190138	T/C	C	-6.403	0	
rs2517754	A/G	G	0.554	6	30004659	0.00078218	PPP1R11	7.08E-27	620376	G/A	A	-10.734	0	
rs10054755	A/G	G	0.092	5	156743623	0.000786997	ITK	4.02E-05	7560632	A/G	G	4.106	0.01710595	
rs3004047	A/G	G	0.85	6	26818370	0.000787241	HMGN4	7.87E-93	5270689	G/A	A	-20.437	0	
rs9428015	A/G	G	0.33	1	89041928	0.000804915	CCBL2	2.02E-35	770630	A/G	G	-12.421	0	
rs9428015	A/G	G	0.33	1	89041928	0.000804915	CCBL2,RBMXL1	0.00012313	5	2760538	A/G	G	-3.840	0.04693106
rs9428015	A/G	G	0.33	1	89041928	0.000804915	GTF2B	4.94E-07	4880215	A/G	G	5.029	0.00013878	
rs17345997	C/T	T	0.192	1	203546235	0.000805248	NUAK2	0.00024103	7	380202	C/T	T	3.672	0.08405331
rs17345997	C/T	T	0.192	1	203546235	0.000805248	NUAK2	2.46E-14	840356	C/T	T	7.624	0	
rs6866959	A/G	G	0.883	5	157072081	0.000805552	THG1L	4.56E-36	4730348	G/A	A	-12.539	0	
rs893186	A/C	C	0.558	19	63660991	0.000808957	CHMP2A	6.43E-05	4260762	C/A	C	-3.997	0.02656986	
rs6456762	G/T	T	0.112	6	27038278	0.000809091	-	3.56E-57	3390050	G/T	T	-15.936	0	
rs6599143	A/G	G	0.583	3	41140620	0.000809906	CTNNB1	4.68E-16	3800671	G/A	A	8.119	0	
rs6933716	C/T	T	0.242	6	7070708	0.000815403	RREB1	1.51E-05	4060187	T/C	T	4.328	0.0071048	
rs2517681	C/T	T	0.453	6	30040309	0.000819787	ZNRD1	0.00016761	4050673	C/T	T	-3.763	0.06149453	

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rs2517681	C/T	T	0.453	6	30040309	0.000819787	ZNRD1	7.79E-46	4060255	C/T	T	-14.212	0	
rs4906335	A/C	C	0.716	14	103090894	0.000820092	CKB	8.32E-17	4150066	C/A	A	8.327	0	
rs4906335	A/C	C	0.716	14	103090894	0.000820092	EIF5	1.19E-06	5670468	C/A	A	-4.857	0.00039051	
rs2243393	A/G	G	0.675	1	111527549	0.000829852	CEPT1	4.23E-11	2190730	G/A	A	6.596	0	
rs746423	C/T	T	0.208	12	52703526	0.000832249	SMUG1	3.57E-09	1050386	C/T	T	5.903	0	
rs746423	C/T	T	0.208	12	52703526	0.000832249	-	4.59E-06	5550458	C/T	T	4.583	0.00205253	
rs11024750	A/G	G	0.655	11	18626055	0.0008476	LDHC	1.41E-05	110291	G/A	A	-4.343	0.00645648	
rs1383264	A/T	T	0.483	6	32847945	0.00084902	HLA-DMA	3.44E-06	540563	T/A	A	4.642	0.00143437	
rs1383264	A/T	T	0.483	6	32847945	0.00084902	TAP2	1.43E-101	2650156	T/A	A	-21.397	0	
rs10747851	C/G	G	0.767	12	58261381	0.000852498	-	9.22E-06	1430682	G/C	C	-4.435	0.00424522	
rs11656386	C/T	T	0.067	17	72125682	0.000854262	ST6GALNAC2	1.33E-20	6420164	C/T	T	-9.306	0	
rs12783892	A/G	G	0.602	10	133930159	0.000856348	JAKMIP3	0.00016142	6	5960364	A/G	A	-3.773	0.05961079
rs11191822	G/T	T	0.679	10	105589760	0.000859514	SLK	7.39E-09	670470	T/G	G	-5.782	0	
rs11191822	G/T	T	0.679	10	105589760	0.000859514	SH3PKD2A	6.93E-40	3460451	T/G	G	-13.218	0	
rs11191822	G/T	T	0.679	10	105589760	0.000859514	SLK	9.05E-07	4060021	T/G	G	-4.911	0.00025746	
rs9492413	C/T	T	0.225	6	130259478	0.000861974	L3MBTL3	0.00029256	770128	T/C	T	3.622	0.09854369	
rs13051329	C/T	T	0.11	21	34244759	0.000862235	-	2.92E-28	6580703	C/T	T	-11.024	0	
rs4947349	G/T	T	0.1	6	32855768	0.000866826	PSMB9	1.86E-18	6450692	G/T	T	8.766	0	
rs3016009	C/T	T	0.304	6	31559940	0.000868605	-	3.26E-141	1440603	C/T	T	-25.299	0	
rs2524142	C/G	G	0.602	6	31371501	0.000871928	ATP6V1G2,BAT1	3.70E-10	1260538	G/C	C	-6.266	0	
rs4910431	A/G	G	0.255	11	9045221	0.000877427	C11orf17	7.75E-05	6270112	A/G	G	-3.952	0.03105098	
rs3869130	C/T	T	0.173	6	31518730	0.000878382	MICB	3.05E-23	3170064	T/C	T	-9.931	0	
rs626339	C/T	T	0.675	1	111530848	0.00089735	CEPT1	2.66E-08	5870403	T/C	C	5.562	0	
rs3131290	A/G	G	0.684	6	32291153	0.000904741	GPSM3,NOTCH4	5.08E-09	7160390	G/A	A	-5.845	0	
rs11846869	A/G	G	0.667	14	87609522	0.000906224	GALC	1.48E-11	3360524	G/A	A	-6.750	0	
rs11846869	A/G	G	0.667	14	87609522	0.000906224	GPR65	5.92E-12	6550273	G/A	A	-6.882	0	
rs11846869	A/G	G	0.667	14	87609522	0.000906224	GPR65	8.89E-12	7570367	G/A	A	-6.824	0	
rs9929566	C/T	T	0.392	16	75682603	0.000913312	MON1B	5.71E-29	5310674	C/T	C	11.170	0	
rs12203019	A/G	G	0.75	6	18512991	0.000918548	IBRDC2	1.28E-15	70630	G/A	A	-7.997	0	
rs9975829	A/G	G	0.345	21	33781365	0.000919387	TMEM50B	4.51E-52	3460307	A/G	G	15.184	0	
rs9975829	A/G	G	0.345	21	33781365	0.000919387	-	1.38E-127	4480647	A/G	G	-24.029	0	
rs9975829	A/G	G	0.345	21	33781365	0.000919387	IL10RB	0.00022816	4	5670719	A/G	G	3.686	0.08030933
rs11649804	A/C	C	0.758	17	17637480	0.000919721	ATPAF2	0.00026864	2	3780239	C/A	A	3.644	0.09174061
rs11649804	A/C	C	0.758	17	17637480	0.000919721	SREBF1	1.76E-20	6840044	C/A	A	-9.276	0	
rs2093169	C/T	T	0.158	6	26603078	0.000924589	BTN3A2	7.38E-154	4610674	C/T	T	-26.424	0	
rs2093169	C/T	T	0.158	6	26603078	0.000924589	BTN2A2	0.00025778	4	5420709	C/T	T	3.655	0.08892445
rs17481834	A/G	G	0.144	2	37381853	0.000928695	CEBPZ,EIF2AK2,AC007390.5	3.60E-07	4760373	A/G	G	5.089	0.00010895	
rs17481834	A/G	G	0.144	2	37381853	0.000928695	QPCT	4.31E-16	5570139	A/G	G	-8.129	0	
rs10910097	C/T	T	0.2	1	2511290	0.000939314	TNFRSF14	2.54E-16	6520725	T/C	T	8.194	0	
rs4600917	C/T	T	0.592	4	107049094	0.000939467	GSTCD	0.00015872	9	5360487	T/C	C	3.777	0.05882564
rs2736428	C/T	T	0.295	6	31951903	0.000939984	C5NK2B	6.95E-85	3450156	C/T	T	-19.523	0	
rs2736428	C/T	T	0.295	6	31951903	0.000939984	BAT3	0.00014077	6	4260736	C/T	T	3.807	0.05342764
rs2736428	C/T	T	0.295	6	31951903	0.000939984	HSPA1L	3.17E-12	6280471	C/T	T	6.970	0	
rs12145992	A/G	G	0.771	1	3750169	0.00094085	KIAA0562	1.02E-47	6650288	G/A	A	-14.512	0	
rs1075654	A/G	G	0.867	9	135918097	0.000943683	BRD3	4.56E-17	6660626	G/A	A	8.398	0	
rs997154	A/G	G	0.833	14	22534322	0.000945533	PRMT5	1.23E-49	3850520	G/A	A	-14.812	0	
rs997154	A/G	G	0.833	14	22534322	0.000945533	PRMT5	3.22E-63	5700520	G/A	A	-16.784	0	
rs7964078	A/G	G	0.225	12	31795203	0.000946278	C12orf35	8.09E-11	7570477	A/G	G	-6.499	0	
rs10463321	G/T	T	0.791	5	151304098	0.000946839	ATOX1	3.26E-22	5560131	T/G	G	-9.692	0	
rs10463321	G/T	T	0.791	5	151304098	0.000946839	G3BP1	5.93E-07	6520730	T/G	G	4.994	0.00018405	
rs2070729	A/C	C	0.533	5	131847820	0.000949106	IRF1	4.51E-10	6250064	C/A	A	-6.236	0	

rs11868035	A/G	G	0.767	17	17655826	0.000960595	SREBF1	5.31E-59	3390343	G/A	A	-16.197	0
rs966087	A/C	C	0.3	5	126198809	0.000961572	-	1.75E-05	870561	C/A	C	4.295	0.00818157
rs2268248	A/G	G	0.941	21	34108970	0.000962871	ITSN1	5.77E-05	6420575	G/A	A	-4.022	0.02409376
rs6673832	A/G	G	0.125	1	183225534	0.0009638	C1orf25	3.31E-08	4890647	A/G	G	-5.524	0
rs11672342	A/G	G	0.871	19	34958442	0.000966871	C19orf12	3.33E-08	6370377	G/A	A	-5.523	0
rs16841336	C/T	T	0.833	1	157167751	0.000968436	PYHIN1	4.12E-10	2000451	T/C	C	6.250	0
rs16841336	C/T	T	0.833	1	157167751	0.000968436	PYHIN1	9.24E-09	7000270	T/C	C	5.744	0
rs16841336	C/T	T	0.833	1	157167751	0.000968436	PYHIN1	1.67E-23	7330538	T/C	C	9.991	0
rs1264331	G/T	T	0.317	6	30954809	0.000974071	VARSL	9.81E-198	1500753	T/G	T	41.179	0
rs2295687	A/G	G	0.617	14	22490936	0.000974329	RBM23	3.64E-22	2190743	G/A	A	-9.681	0
rs2295687	A/G	G	0.617	14	22490936	0.000974329	RBM23	6.75E-16	3610092	G/A	A	-8.075	0
rs2295687	A/G	G	0.617	14	22490936	0.000974329	MRPL52	3.32E-08	7000692	G/A	A	5.524	0
rs925284	C/T	T	0.458	17	43940889	0.00097893	HOXB4	5.23E-15	2120008	T/C	T	-7.821	0
rs221032	C/T	T	0.267	1	16398136	0.00098155	SPATA21,C1orf144	7.02E-10	2030044	T/C	T	6.166	0
rs221032	C/T	T	0.267	1	16398136	0.00098155	ARHGEF19	2.39E-40	6250546	T/C	T	-13.298	0
rs10992662	C/G	G	0.467	9	94969016	0.000986164	NINJ1	1.31E-22	7380706	G/C	G	-9.785	0
rs2243429	G/T	T	0.367	6	31554799	0.00098963	-	7.31E-91	580452	G/T	T	20.215	0
rs6736194	C/G	G	0.492	2	11417509	0.00099193	ROCK2	3.97E-08	5670333	C/G	C	-5.492	0
rs6736194	C/G	G	0.492	2	11417509	0.00099193	PQLC3	1.17E-05	7000382	C/G	C	-4.383	0.00532356
rs13051785	C/T	T	0.125	21	34245156	0.000995159	AP000569.1	6.06E-10	1990156	C/T	T	-6.189	0
rs13029949	A/G	G	0.664	2	173696496	0.000999497	ZAK	3.91E-05	3360431	G/A	A	4.113	0.01670154
rs13029949	A/G	G	0.664	2	173696496	0.000999497	ZAK	5.61E-20	4670059	G/A	A	9.152	0

Supplementary Table 8: Blood and lung regulated genes GO pathways

Gene Ontology processes: Biological processes enriched among tested genes. FDR: False Discovery Rate.

Pathway enrichment analyses of lung function eSNP-regulated genes in lung and blood	
Blood eSNP- regulated genes enrichment in Gene Ontology Processes	FDR
NK T cell differentiation	0.0422
immune system process	0.0422
positive regulation of immune system process	0.0422
negative regulation of cellular process	0.0422
cell proliferation	0.0422
negative regulation of biological process	0.0422
cytokine-mediated signaling pathway	0.0422
positive regulation of cell differentiation	0.0422
Lung eSNP- regulated genes enrichment in Gene Ontology Processes	FDR
hair follicle maturation	9.00E-04
anatomical structure maturation	9.00E-04
developmental maturation	0.0029
interferon-gamma-mediated signaling pathway	0.0045
exogen	0.0045
hair cycle	0.0056
antigen processing and presentation of exogenous peptide antigen	0.0056
hair cycle process	0.0056
molting cycle	0.0056
hair follicle development	0.0056
molting cycle process	0.0056
antigen processing and presentation of exogenous antigen	0.0057
cellular response to interferon-gamma	0.0059
antigen processing and presentation	0.0073
antigen processing and presentation of peptide antigen	0.0136
response to interferon-gamma	0.0191
antigen processing and presentation of exogenous peptide antigen via MHC class II	0.036
antigen processing and presentation of peptide or polysaccharide antigen via MHC class II	0.0376

antigen processing and presentation of peptide antigen via MHC class II	0.0376
Shared blood and lung eSNP- regulated genes enrichment in Gene Ontology Processes	FDR
antigen processing and presentation	2.00E-04
exogen	2.00E-04
antigen processing and presentation of exogenous peptide antigen	2.00E-04
antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-independent	2.00E-04
antigen processing and presentation of exogenous antigen	2.00E-04
antigen processing and presentation of peptide antigen	3.00E-04
hair follicle maturation	3.00E-04
antigen processing and presentation of exogenous peptide antigen via MHC class I	3.00E-04
anatomical structure maturation	8.00E-04
antigen processing and presentation of peptide antigen via MHC class I	0.0011
antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent	0.0019
hair cycle process	0.0021
molting cycle process	0.0021
hair follicle development	0.0021
hair cycle	0.0022
molting cycle	0.0022
cellular response to interferon-gamma	0.0034
developmental maturation	0.0035
epidermis development	0.0095
response to interferon-gamma	0.0095
interferon-gamma-mediated signaling pathway	0.0121
negative regulation of mononuclear cell proliferation	0.0248
negative regulation of lymphocyte proliferation	0.0248
negative regulation of leukocyte proliferation	0.029
regulation of leukocyte activation	0.038
centrosome organization	0.0463

Supplementary Table 9: Fetal lung development results

Table shows the results of human fetal lung differential gene expression for lung function eSNP-regulated genes. Probeset: The probeset from the Affymetrix U133 Plus 2.0 mapping to the lung function eSNP-regulated gene. Gene symbol: the gene tested for differential expression. Log Fold change: log fold change of probeset in relation to gestational age in days. P value: differential expression unadjusted P value. FDR adjusted P value: False discovery rate adjusted P value. Gene Name: Full name of tested gene.

Evaluation of lung function eSNP-regulated genes in fetal lung study					
Probeset	Gene Symbol	log Fold Change	P Value	FDR adjusted P value	Gene Name
203832_at	SNRPF	-0.01259	7.50E-14	1.37E-10	small nuclear ribonucleoprotein polypeptide F
228268_at	FMO2	0.036657	2.18E-12	1.55E-09	flavin containing monooxygenase 2 (non-functional)
223503_at	TMEM163	0.032838	8.23E-12	4.23E-09	transmembrane protein 163
201865_x_at	NR3C1	0.012522	8.69E-12	4.36E-09	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
211726_s_at	FMO2	0.042972	1.29E-11	5.71E-09	flavin containing monooxygenase 2 (non-functional)
211671_s_at	NR3C1	0.012931	1.65E-11	6.85E-09	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
219588_s_at	NCAPG2	-0.020856	1.76E-11	7.13E-09	non-SMC condensin II complex, subunit G2
223315_at	NTN4	0.035134	2.05E-11	8.11E-09	netrin 4
211714_x_at	TUBB	-0.019597	2.32E-11	8.88E-09	tubulin, beta class I
209026_x_at	TUBB	-0.020294	4.95E-11	1.53E-08	tubulin, beta class I
1552626_a_at	TMEM163	0.021971	5.64E-11	1.71E-08	transmembrane protein 163
208812_x_at	HLA-C	0.019142	8.72E-11	2.40E-08	major histocompatibility complex, class I, C
221978_at	HLA-F	0.012529	1.60E-09	1.89E-07	major histocompatibility complex, class I, F
214459_x_at	HLA-C	0.016972	2.68E-09	2.83E-07	major histocompatibility complex, class I, C
205659_at	HDAC9	0.017554	3.84E-09	3.74E-07	histone deacetylase 9
201930_at	MCM6	-0.01892	4.73E-09	4.47E-07	minichromosome maintenance complex component 6
219556_at	C16orf5	-0.011259	7.42E-09	6.35E-07	chromosome 16 open reading frame 59
219901_at	FGD6	-0.015788	1.07E-08	8.49E-07	FYVE, RhoGEF and PH domain containing 6
223232_s_at	CGN	0.01569	1.16E-08	9.10E-07	cingulin
216526_x_at	HLA-C	0.01905	1.63E-08	1.20E-06	major histocompatibility complex, class I, C
228286_at	GEN1	-0.01513	3.63E-08	2.24E-06	GEN1 Holliday junction 5' flap endonuclease
201400_at	PSMB3	-0.011404	4.75E-08	2.75E-06	proteasome (prosome, macropain) subunit, beta type, 3
230135_at	HHIP	0.013116	4.97E-08	2.84E-06	hedgehog interacting protein
209815_at	PTCH1	-0.012304	5.23E-08	2.96E-06	patched 1
221748_s_at	TNS1	0.011381	6.24E-08	3.36E-06	tensin 1
204670_x_at	HLA-DRB1	0.016926	7.94E-08	4.08E-06	
201342_at	SNRPC	-0.007621	8.76E-08	4.41E-06	small nuclear ribonucleoprotein polypeptide C

206082_at	HCP5	0.012002	9.44E-08	4.70E-06	HLA complex P5 (non-protein coding)
211432_s_at	TYRO3	-0.009619	9.98E-08	4.90E-06	TYRO3 protein tyrosine kinase
227978_s_at	ZADH2	-0.011211	1.04E-07	5.08E-06	zinc binding alcohol dehydrogenase domain containing 2
225911_at	NPNT	0.011368	1.44E-07	6.65E-06	nephronectin
228153_at	RNF144B	0.010728	1.71E-07	7.65E-06	ring finger protein 144B
201503_at	G3BP1	-0.010579	2.58E-07	1.05E-05	GTPase activating protein (SH3 domain) binding protein 1
209140_x_at	HLA-B	0.018404	2.69E-07	1.08E-05	major histocompatibility complex, class I, B
228707_at	CLDN23	0.018583	3.36E-07	1.29E-05	claudin 23
223434_at	GBP3	0.032958	3.96E-07	1.47E-05	guanylate binding protein 3
212254_s_at	DST	0.009279	5.07E-07	1.81E-05	dystonin
201229_s_at	ARIH2	-0.008679	5.55E-07	1.96E-05	ariadne homolog 2 (Drosophila)
1555137_a_at	FGD6	-0.018119	6.14E-07	2.13E-05	FYVE, RhoGEF and PH domain containing 6
216321_s_at	NR3C1	0.011428	7.23E-07	2.42E-05	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
215016_x_at	DST	0.007317	8.37E-07	2.73E-05	dystonin
206116_s_at	TPM1	-0.016995	9.39E-07	2.98E-05	tropomyosin 1 (alpha)
203396_at	PSMA4	-0.006499	9.43E-07	2.99E-05	proteasome (prosome, macropain) subunit, alpha type, 4
1556037_s_at	HHIP	0.013832	1.04E-06	3.23E-05	hedgehog interacting protein
205429_s_at	MPP6	-0.009311	1.18E-06	3.57E-05	membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6)
223639_s_at	ZNRD1	-0.005906	1.48E-06	4.27E-05	zinc ribbon domain containing 1
230152_at	WDR52	0.006115	2.00E-06	5.43E-05	WD repeat domain 52
223100_s_at	NUDT5	-0.009016	2.13E-06	5.72E-05	nudix (nucleoside diphosphate linked moiety X)-type motif 5
228009_x_at	ZNRD1	-0.006566	2.22E-06	5.88E-05	zinc ribbon domain containing 1
201725_at	CDC123	-0.009694	2.26E-06	5.97E-05	cell division cycle 123
212320_at	TUBB	-0.011371	2.30E-06	6.06E-05	tubulin, beta class I
215620_at	RREB1	0.017055	2.50E-06	6.48E-05	ras responsive element binding protein 1
212204_at	TMEM87A	0.010342	2.72E-06	6.93E-05	transmembrane protein 87A
201709_s_at	NIPSNAP1	-0.006725	2.75E-06	6.99E-05	nipsnap homolog 1 (C. elegans)
229099_at	C11orf83	-0.00958	2.91E-06	7.35E-05	chromosome 11 open reading frame 83
235411_at	PGBD1	-0.012246	5.87E-06	0.000129	piggyBac transposable element derived 1
212877_at	KLC1	-0.010218	5.91E-06	0.000129	kinesin light chain 1
238977_at	MCM6	-0.011494	6.14E-06	0.000133	minichromosome maintenance complex component 6
200818_at	ATP5O	-0.006382	6.15E-06	0.000133	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit
201425_at	ALDH2	0.006104	6.22E-06	0.000135	aldehyde dehydrogenase 2 family (mitochondrial)
213932_x_at	HLA-A	0.010991	7.87E-06	0.000163	major histocompatibility complex, class I, A
210081_at	AGER	0.015055	9.51E-06	0.000191	advanced glycosylation end product-specific receptor
209316_s_at	HBS1L	-0.008165	9.64E-06	0.000193	HBS1-like (S. cerevisiae)
201708_s_at	NIPSNAP1	-0.011737	1.09E-05	0.000213	nipsnap homolog 1 (C. elegans)

203306_s_at	SLC35A1	0.007064	1.15E-05	0.000223	solute carrier family 35 (CMP-sialic acid transporter), member A1
224919_at	MRPS6	-0.00767	1.17E-05	0.000225	mitochondrial ribosomal protein S6
222750_s_at	SRD5A3	-0.011133	1.22E-05	0.000233	steroid 5 alpha-reductase 3
223066_at	SNAPIN	-0.008931	1.23E-05	0.000234	SNAP-associated protein
223233_s_at	CGN	0.009922	1.25E-05	0.000238	cingulin
203023_at	NOP16	-0.011542	1.29E-05	0.000244	NOP16 nucleolar protein
1555814_a_at	RHOA	-0.016511	1.42E-05	0.000261	ras homolog family member A
211935_at	ARL6IP1	-0.008659	1.45E-05	0.000266	ADP-ribosylation factor-like 6 interacting protein 1
216005_at	TNC	0.010384	1.60E-05	0.000288	tenascin C
213414_s_at	RPS19	-0.004828	1.64E-05	0.000294	ribosomal protein S19
232617_at	CTSS	0.014528	1.69E-05	0.000302	cathepsin S
209312_x_at	HLA-DRB1	0.022929	1.93E-05	0.000335	
209312_x_at	HLA-DRB5	0.022929	1.93E-05	0.000335	
223244_s_at	NDUFA12	-0.005283	2.05E-05	0.000352	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12
225007_at	G3BP1	-0.006534	2.08E-05	0.000355	GTPase activating protein (SH3 domain) binding protein 1
206805_at	SEMA3A	-0.01091	2.11E-05	0.00036	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A
220219_s_at	LRRC37A4	-0.009125	2.34E-05	0.000391	
220219_s_at	LRRC37A	-0.009125	2.34E-05	0.000391	
208306_x_at	HLA-DRB1	0.012052	2.37E-05	0.000394	
202649_x_at	RPS19	-0.00408	2.50E-05	0.000412	ribosomal protein S19
221246_x_at	TNS1	0.006511	2.54E-05	0.000416	tensin 1
223116_at	BCAR1	0.00642	2.63E-05	0.000428	breast cancer anti-estrogen resistance 1
204460_s_at	RAD1	-0.009673	2.70E-05	0.000436	RAD1 homolog (S. pombe)
205453_at	HOXB2	-0.009306	2.81E-05	0.00045	homeobox B2
223325_at	TXNDC11	0.007009	2.96E-05	0.000469	thioredoxin domain containing 11
201514_s_at	G3BP1	-0.009372	2.98E-05	0.000472	GTPase activating protein (SH3 domain) binding protein 1
211911_x_at	HLA-B	0.014517	3.01E-05	0.000475	major histocompatibility complex, class I, B
234977_at	ZADH2	-0.009075	3.22E-05	0.000502	zinc binding alcohol dehydrogenase domain containing 2
204982_at	GIT2	0.012336	3.52E-05	0.000537	G protein-coupled receptor kinase interacting ArfGAP 2
214011_s_at	NOP16	-0.009273	3.52E-05	0.000537	NOP16 nucleolar protein
227977_at	ZADH2	-0.0071	3.66E-05	0.000555	zinc binding alcohol dehydrogenase domain containing 2
219434_at	TREM1	0.006023	3.68E-05	0.000557	triggering receptor expressed on myeloid cells 1
221875_x_at	HLA-F	0.012392	3.76E-05	0.000566	major histocompatibility complex, class I, F
219304_s_at	PDGFD	0.01116	3.86E-05	0.000579	platelet derived growth factor D
218911_at	YEATS4	-0.013147	3.96E-05	0.000591	YEATS domain containing 4
211799_x_at	HLA-C	0.012352	3.96E-05	0.000591	major histocompatibility complex, class I, C
220017_x_at	CYP2C9	0.007304	4.19E-05	0.000619	cytochrome P450, family 2, subfamily C, polypeptide 9

200024_at	RPS5	-0.007298	4.21E-05	0.000621	ribosomal protein S5
201064_s_at	PABPC4	-0.005815	4.58E-05	0.000663	poly(A) binding protein, cytoplasmic 4 (inducible form)
235562_at	C3orf70	-0.01161	4.68E-05	0.000675	chromosome 3 open reading frame 70
228030_at	RBM6	0.013317	5.10E-05	0.000723	RNA binding motif protein 6
203705_s_at	FZD7	-0.008033	5.14E-05	0.000728	frizzled family receptor 7
242447_at	C3orf70	-0.015337	5.22E-05	0.000736	chromosome 3 open reading frame 70
201152_s_at	MBNL1	0.005758	5.68E-05	0.000787	muscleblind-like splicing regulator 1
204806_x_at	HLA-F	0.011406	6.67E-05	0.000889	major histocompatibility complex, class I, F
216025_x_at	CYP2C9	0.007504	6.76E-05	0.000899	cytochrome P450, family 2, subfamily C, polypeptide 9
200059_s_at	RHOA	-0.008264	7.02E-05	0.000925	ras homolog family member A
219860_at	LY6G5C	0.006324	7.13E-05	0.000937	lymphocyte antigen 6 complex, locus G5C
215785_s_at	CYFIP2	0.008934	7.18E-05	0.000942	cytoplasmic FMR1 interacting protein 2
222824_at	NUDT5	-0.01371	7.34E-05	0.000958	nudix (nucleoside diphosphate linked moiety X)-type motif 5
204740_at	CNKSR1	0.007296	8.28E-05	0.00105	connector enhancer of kinase suppressor of Ras 1
244849_at	SEMA3A	-0.007624	8.55E-05	0.001073	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A
205671_s_at	HLA-DOB	0.005683	9.03E-05	0.001121	major histocompatibility complex, class II, DO beta
210216_x_at	RAD1	-0.007564	9.18E-05	0.001136	RAD1 homolog (S. pombe)
218864_at	TNS1	0.013539	9.70E-05	0.001185	tensin 1
209329_x_at	HIGD2A	-0.006677	0.000103	0.00124	HIG1 hypoxia inducible domain family, member 2A
207823_s_at	AIF1	0.007108	0.000103	0.001242	allograft inflammatory factor 1
206117_at	TPM1	-0.008402	0.000105	0.001257	tropomyosin 1 (alpha)
216299_s_at	XRCC3	-0.005846	0.00011	0.001307	X-ray repair complementing defective repair in Chinese hamster cells 3
228851_s_at	ENSA	-0.015066	0.00011	0.001312	endosulfine alpha
213252_at	SH3PXD2A	0.010466	0.00011	0.001312	SH3 and PX domains 2A
214552_s_at	RABEP1	-0.011557	0.00012	0.001396	rabaptin, RAB GTPase binding effector protein 1
201081_s_at	PIP4K2B	-0.008697	0.00012	0.001402	phosphatidylinositol-5-phosphate 4-kinase, type II, beta
216954_x_at	ATP5O	-0.004178	0.000124	0.001435	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit
209478_at	STRA13	-0.00599	0.000137	0.001555	stimulated by retinoic acid 13
205247_at	NOTCH4	0.007708	0.000139	0.001577	notch 4
205447_s_at	MAP3K12	0.006617	0.00014	0.001578	mitogen-activated protein kinase kinase kinase 12
208729_x_at	HLA-B	0.01303	0.000148	0.001649	major histocompatibility complex, class I, B
201331_s_at	STAT6	0.007193	0.000164	0.001795	signal transducer and activator of transcription 6, interleukin-4 induced
223274_at	TCF19	-0.011072	0.000181	0.001941	transcription factor 19
218827_s_at	CEP192	-0.010408	0.00019	0.002013	centrosomal protein 192kDa
212787_at	YLPM1	-0.007914	0.000193	0.002039	YLP motif containing 1
218361_at	GOLPH3L	0.006956	0.000209	0.002172	golgi phosphoprotein 3-like
239012_at	RNF144B	0.009385	0.000217	0.002241	ring finger protein 144B

226270_at	EXOC2	-0.005588	0.00022	0.002264	exocyst complex component 2
211990_at	HLA-DPA1	0.024811	0.000226	0.002307	major histocompatibility complex, class II, DP alpha 1
223868_s_at	WWOX	-0.008257	0.000237	0.002402	WW domain containing oxidoreductase
211431_s_at	TYRO3	-0.006252	0.000238	0.002406	TYRO3 protein tyrosine kinase
228706_s_at	CLDN23	0.007283	0.00024	0.002427	claudin 23
209791_at	PADI2	0.010887	0.000254	0.002536	peptidyl arginine deiminase, type II
225064_at	RABEP1	-0.009833	0.000261	0.002589	rabaptin, RAB GTPase binding effector protein 1
211529_x_at	HLA-G	0.009531	0.000264	0.002613	major histocompatibility complex, class I, G
227049_at	ZADH2	-0.007044	0.000268	0.002645	zinc binding alcohol dehydrogenase domain containing 2
215313_x_at	HLA-A	0.011332	0.000274	0.002692	major histocompatibility complex, class I, A
203136_at	RABAC1	-0.009644	0.000281	0.002748	Rab acceptor 1 (prenylated)
205874_at	ITPKA	-0.004534	0.000292	0.002826	inositol-trisphosphate 3-kinase A
222997_s_at	MRPS21	-0.007528	0.000305	0.002925	mitochondrial ribosomal protein S21
211084_x_at	PRKD3	-0.006073	0.000305	0.002925	protein kinase D3
222798_at	PTER	0.008522	0.000327	0.003099	phosphotriesterase related
202596_at	ENSA	-0.007189	0.000335	0.003157	endosulfine alpha
224437_s_at	VTA1	-0.008584	0.000344	0.003224	Vps20-associated 1 homolog (S. cerevisiae)
225398_at	RPUSD4	-0.005924	0.000357	0.003315	RNA pseudouridylation synthase domain containing 4
205299_s_at	BTN2A2	0.005489	0.000358	0.003319	butyrophilin, subfamily 2, member A2
228148_at	ZNF584	-0.00641	0.000375	0.003433	zinc finger protein 584
225916_at	ZNF131	-0.008073	0.000383	0.003482	uncharacterized LOC100506639 /// zinc finger protein 131
237466_s_at	HHIP	0.011955	0.000387	0.003508	hedgehog interacting protein
218677_at	S100A14	0.014248	0.000407	0.003653	S100 calcium binding protein A14
205891_at	ADORA2B	0.011987	0.000413	0.003693	adenosine A2b receptor
1554239_s_at	ZADH2	-0.004573	0.000426	0.003779	zinc binding alcohol dehydrogenase domain containing 2
225903_at	PIGU	-0.006147	0.000443	0.003906	phosphatidylinositol glycan anchor biosynthesis, class U
219095_at	JMJD7- PLA2G4B	0.006064	0.000469	0.004073	
201645_at	TNC	0.008993	0.000492	0.004229	tenascin C
223021_x_at	VTA1	-0.01085	0.000497	0.004263	Vps20-associated 1 homolog (S. cerevisiae)
206007_at	PRG4	0.005306	0.000513	0.004373	proteoglycan 4
211654_x_at	HLA-DQB1	0.009481	0.000516	0.004397	major histocompatibility complex, class II, DQ beta 1
201705_at	PSMD7	-0.006466	0.000528	0.004476	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
223022_s_at	VTA1	-0.005003	0.000528	0.004476	Vps20-associated 1 homolog (S. cerevisiae)
233724_at	ARNT	0.009216	0.000544	0.004578	aryl hydrocarbon receptor nuclear translocator
1007_s_at	DDR1	0.006749	0.000551	0.004625	discoidin domain receptor tyrosine kinase 1 /// microRNA 4640
210986_s_at	TPM1	-0.006644	0.000555	0.004649	tropomyosin 1 (alpha)
230296_at	C16orf5	0.004906	0.000568	0.004735	chromosome 16 open reading frame 52 /// uncharacterized LOC101060634

225618_at	ARHGAP27	0.005121	0.000574	0.004774	Rho GTPase activating protein 27
1559050_at	HCG27	0.004367	0.000599	0.004926	HLA complex group 27 (non-protein coding) /// uncharacterized LOC100996357
1566722_a_at	SVEP1	-0.003794	0.000609	0.004992	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
221898_at	PDPN	0.01019	0.000618	0.005045	podoplanin
211528_x_at	HLA-G	0.008192	0.000623	0.005075	major histocompatibility complex, class I, G
205682_x_at	APOM	-0.00522	0.000646	0.005216	apolipoprotein M
232262_at	PIGL	0.006448	0.000694	0.005527	phosphatidylinositol glycan anchor biosynthesis, class L
206417_at	CNGA1	0.004999	0.000733	0.005769	cyclic nucleotide gated channel alpha 1
215193_x_at	HLA-DRB3	0.016142	0.000745	0.005843	
215193_x_at	HLA-DRB1	0.016142	0.000745	0.005843	
202901_x_at	CTSS	0.009749	0.000753	0.005898	cathepsin S
205222_at	EHHADH	-0.007597	0.000763	0.005956	enoyl-CoA, hydratase/3-hydroxyacyl CoA dehydrogenase
229103_at	WNT3	-0.006992	0.000807	0.006218	wingless-type MMTV integration site family, member 3
230619_at	ARNT	0.012049	0.000825	0.006318	aryl hydrocarbon receptor nuclear translocator
201045_s_at	RAB6A	-0.007067	0.000855	0.006493	RAB6A, member RAS oncogene family
1555136_at	FGD6	-0.004583	0.000887	0.00668	FYVE, RhoGEF and PH domain containing 6
221856_s_at	FAM63A	0.00672	0.000907	0.006785	family with sequence similarity 63, member A
218236_s_at	PRKD3	-0.007154	0.000924	0.006886	protein kinase D3
36612_at	FAM168A	-0.006499	0.000934	0.006943	family with sequence similarity 168, member A
236231_at	ZNF271	-0.006467	0.000946	0.007005	zinc finger protein 271
226878_at	HLA-DOA	0.0058	0.000961	0.007083	major histocompatibility complex, class II, DO alpha
214910_s_at	APOM	-0.00505	0.00102	0.007422	apolipoprotein M
210200_at	WWP2	0.004834	0.001068	0.00768	WW domain containing E3 ubiquitin protein ligase 2
212553_at	RPRD2	0.006574	0.00112	0.007936	regulation of nuclear pre-mRNA domain containing 2
242297_at	RREB1	0.009184	0.001135	0.008021	ras responsive element binding protein 1
223675_s_at	VEZT	-0.00528	0.001147	0.008084	vezatin, adherens junctions transmembrane protein
209765_at	ADAM19	0.005527	0.001152	0.008109	ADAM metalloproteinase domain 19
203568_s_at	TRIM38	0.00482	0.001155	0.008121	tripartite motif containing 38
227968_at	PDDC1	-0.005655	0.00124	0.008579	Parkinson disease 7 domain containing 1
221503_s_at	KPNA3	-0.008792	0.001241	0.008583	karyopherin alpha 3 (importin alpha 4)
203706_s_at	FZD7	-0.004963	0.001328	0.009049	frizzled family receptor 7
239538_at	ZRANB3	-0.007721	0.001356	0.009195	zinc finger, RAN-binding domain containing 3
212613_at	BTN3A2	0.010795	0.001404	0.009466	butyrophilin, subfamily 3, member A2
201965_s_at	SETX	-0.005674	0.001499	0.009949	senataxin
203223_at	RABEP1	-0.00918	0.001536	0.010121	rabaptin, RAB GTPase binding effector protein 1
209315_at	HBS1L	-0.004573	0.001565	0.010283	HBS1-like (<i>S. cerevisiae</i>)

201153_s_at	MBNL1	0.003776	0.001616	0.010528	muscleblind-like splicing regulator 1
1569061_at	IQGAP3	-0.002617	0.001626	0.010576	IQ motif containing GTPase activating protein 3
211991_s_at	HLA-DPA1	0.014811	0.001635	0.01062	major histocompatibility complex, class II, DP alpha 1
1562939_at	LRRC16A	0.007314	0.001636	0.010628	leucine rich repeat containing 16A
232296_s_at	GFM1	-0.007516	0.001706	0.010973	G elongation factor, mitochondrial 1
222441_x_at	SLMO2	-0.007966	0.001742	0.011155	slowmo homolog 2 (Drosophila)
219349_s_at	EXOC2	-0.008476	0.001754	0.011219	exocyst complex component 2
225379_at	MAPT	0.004651	0.001785	0.011374	microtubule-associated protein tau
208522_s_at	PTCH1	-0.005371	0.001796	0.01142	patched 1
235549_at	RNF144B	0.003573	0.001817	0.011528	ring finger protein 144B
222835_at	THSD4	-0.007446	0.001862	0.01175	thrombospondin, type I, domain containing 4
236808_at	FGFR1OP2	0.014074	0.00191	0.011976	FGFR1 oncogene partner 2
1555594_a_at	MBNL1	-0.009777	0.001984	0.012315	muscleblind-like splicing regulator 1
205298_s_at	BTN2A2	0.005476	0.002032	0.012555	butyrophilin, subfamily 2, member A2
211009_s_at	ZNF271	-0.008834	0.002043	0.012599	zinc finger protein 271
1553243_at	ITIH5	0.008437	0.002055	0.01265	inter-alpha-trypsin inhibitor heavy chain family, member 5
217851_s_at	SLMO2	-0.007368	0.002081	0.012761	slowmo homolog 2 (Drosophila)
219064_at	ITIH5	0.00953	0.002094	0.012822	inter-alpha-trypsin inhibitor heavy chain family, member 5
231371_at	TDRD10	0.00473	0.002115	0.012913	tudor domain containing 10
212202_s_at	TMEM87A	0.006788	0.002125	0.012961	transmembrane protein 87A
231929_at	IKZF2	0.007728	0.002139	0.013029	IKAROS family zinc finger 2 (Helios)
235839_at	C22orf34	-0.006772	0.002152	0.013088	chromosome 22 open reading frame 34
210987_x_at	TPM1	-0.00657	0.002265	0.013604	tropomyosin 1 (alpha)
233117_at	MAPT	0.002943	0.002266	0.013609	microtubule-associated protein tau
223703_at	C10orf11	0.008054	0.00227	0.013626	chromosome 10 open reading frame 11
222860_s_at	PDGFD	0.005597	0.00229	0.013712	platelet derived growth factor D
221125_s_at	KCNMB3	0.004863	0.002299	0.013757	potassium large conductance calcium-activated channel, subfamily M beta member 3
204783_at	MLF1	0.009984	0.002396	0.014209	myeloid leukemia factor 1
215032_at	RREB1	0.009146	0.002447	0.014442	ras responsive element binding protein 1
213656_s_at	KLC1	0.004931	0.002505	0.014708	kinesin light chain 1
214421_x_at	CYP2C9	0.005921	0.00254	0.014876	cytochrome P450, family 2, subfamily C, polypeptide 9
207169_x_at	DDR1	0.007798	0.002634	0.015281	discoidin domain receptor tyrosine kinase 1 /// microRNA 4640
213537_at	HLA-DPA1	0.004386	0.002648	0.01535	major histocompatibility complex, class II, DP alpha 1
211530_x_at	HLA-G	0.006732	0.00277	0.015866	major histocompatibility complex, class I, G
213851_at	TMEM110	-0.006996	0.002801	0.016005	transmembrane protein 110
209472_at	CCBL2	-0.006813	0.00289	0.0164	cysteine conjugate-beta lyase 2
209816_at	PTCH1	-0.010953	0.003077	0.017182	patched 1

228747_at	SEC61A2	-0.003538	0.003186	0.017654	Sec61 alpha 2 subunit (<i>S. cerevisiae</i>)
229983_at	TIGD2	-0.008178	0.003249	0.017926	tigger transposable element derived 2
238076_at	GATAD2B	-0.009359	0.003277	0.018039	GATA zinc finger domain containing 2B
223524_s_at	TMEM108	0.00581	0.003559	0.019191	transmembrane protein 108
225892_at	IREB2	-0.006456	0.003567	0.019223	iron-responsive element binding protein 2
1562516_at	WDR60	0.012704	0.003684	0.019688	WD repeat domain 60
244163_at	SEMA3A	-0.007105	0.003753	0.019961	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A
209480_at	HLA-DQB1	0.008919	0.003827	0.020276	major histocompatibility complex, class II, DQ beta 1
215814_at	DST	0.00355	0.00383	0.020278	dystonin
223012_at	UBXN6	0.004907	0.003923	0.020657	microRNA 4746 /// UBX domain protein 6
225459_at	AMOTL1	-0.007033	0.00404	0.021137	angiomin like 1
229538_s_at	IQGAP3	-0.011687	0.00405	0.021168	IQ motif containing GTPase activating protein 3
242618_at	HCG18	-0.008072	0.004093	0.021338	HLA complex group 18 (non-protein coding)
217563_at	CLOCK	0.003841	0.004099	0.021361	clock circadian regulator
222623_s_at	ZNF639	-0.004248	0.004115	0.021431	zinc finger protein 639
238453_at	FGFBP3	-0.006837	0.004168	0.021645	fibroblast growth factor binding protein 3
217190_x_at	ESR1	-0.004576	0.004241	0.021942	estrogen receptor 1
244056_at	SFTA2	0.013793	0.004288	0.022122	surfactant associated 2
213551_x_at	PCGF2	0.003384	0.004493	0.022894	polycomb group ring finger 2
1557267_s_at	GEN1	-0.00861	0.00452	0.023004	GEN1 Holliday junction 5' flap endonuclease
200929_at	TMED10	-0.006826	0.004554	0.023127	transmembrane emp24-like trafficking protein 10 (yeast)
60528_at	JMJD7- PLA2G4B	0.00573	0.004655	0.023533	
225158_at	GFM1	-0.007784	0.004758	0.023941	G elongation factor, mitochondrial 1
228905_at	PCM1	-0.007757	0.004826	0.024195	pericentriolar material 1
215669_at	HLA-DRB4	0.003911	0.004868	0.024361	major histocompatibility complex, class II, DR beta 4
206247_at	MICB	0.0115	0.004881	0.024407	MHC class I polypeptide-related sequence B
238007_at	ZNF271	-0.00839	0.004909	0.024501	zinc finger protein 271
217046_s_at	AGER	0.006586	0.005074	0.025147	advanced glycosylation end product-specific receptor
227116_at	MON1B	-0.007683	0.005093	0.025214	MON1 homolog B (yeast)
237844_at	ZNF131	0.003858	0.00522	0.025674	uncharacterized LOC100506639 /// zinc finger protein 131
1553389_at	NPHP3	0.007109	0.005269	0.02587	nephronophthisis 3 (adolescent)
201964_at	SETX	-0.004718	0.005381	0.026267	senataxin
212366_at	ZNF292	0.007912	0.005583	0.02699	zinc finger protein 292
241939_at	IQGAP3	0.004543	0.005705	0.027401	IQ motif containing GTPase activating protein 3
219280_at	BRWD1	0.00509	0.005844	0.02789	bromodomain and WD repeat domain containing 1
203793_x_at	PCGF2	0.003896	0.005896	0.028082	polycomb group ring finger 2

213819_s_at	FLOT1	0.003805	0.006082	0.028734	flotillin 1
226799_at	FGD6	-0.007879	0.006237	0.029308	FYVE, RhoGEF and PH domain containing 6
210142_x_at	FLOT1	0.005311	0.006279	0.029473	flotillin 1
225725_at	ZMAT3	-0.006752	0.006316	0.029594	zinc finger, matrin-type 3
214525_x_at	MLH3	0.004996	0.006329	0.029652	mutL homolog 3 (E. coli)
227634_at	STK32C	-0.004851	0.006496	0.030209	serine/threonine kinase 32C
208697_s_at	EIF3E	-0.003238	0.006629	0.030679	eukaryotic translation initiation factor 3, subunit E
209846_s_at	BTN3A2	0.011753	0.006837	0.031383	butyrophilin, subfamily 3, member A2
228704_s_at	CLDN23	0.002451	0.007064	0.03219	claudin 23
221747_at	TNS1	0.006149	0.007145	0.032437	tensin 1
243444_at	SRD5A3	-0.004907	0.007187	0.03257	steroid 5 alpha-reductase 3
219214_s_at	NT5C	-0.00452	0.007245	0.032776	5', 3'-nucleotidase, cytosolic
223771_at	TMEM87A	0.00514	0.007309	0.032946	transmembrane protein 87A
201866_s_at	NR3C1	0.004575	0.007364	0.033135	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
202197_at	MTMR3	0.004521	0.007494	0.033554	myotubularin related protein 3
218413_s_at	ZNF639	-0.003082	0.007542	0.03371	zinc finger protein 639
215434_x_at	NBPF1	-0.00703	0.007759	0.034385	neuroblastoma breakpoint family, member 1
203792_x_at	PCGF2	0.006122	0.007779	0.034464	polycomb group ring finger 2
224521_s_at	CCDC77	-0.00737	0.007966	0.035092	coiled-coil domain containing 77
216008_s_at	ARIH2	-0.004162	0.008263	0.036082	ariadne homolog 2 (Drosophila)
214666_x_at	IREB2	-0.007905	0.008474	0.036772	iron-responsive element binding protein 2
230027_s_at	MRPL43	-0.006271	0.008848	0.037989	mitochondrial ribosomal protein L43
210330_at	SGCD	0.002775	0.008849	0.037989	sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
218722_s_at	CCDC51	-0.005141	0.008933	0.038273	coiled-coil domain containing 51
210749_x_at	DDR1	0.007368	0.009092	0.038768	discoidin domain receptor tyrosine kinase 1 /// microRNA 4640
242422_at	G3BP1	-0.00816	0.009164	0.039028	GTPase activating protein (SH3 domain) binding protein 1
217550_at	ATF6	0.00567	0.00926	0.039325	activating transcription factor 6
231860_at	BRWD1	0.01159	0.009271	0.039362	bromodomain and WD repeat domain containing 1
224058_s_at	HSD17B7P2	0.004951	0.009294	0.039437	hydroxysteroid (17-beta) dehydrogenase 7 pseudogene 2
204022_at	WWP2	-0.003887	0.009413	0.039806	WW domain containing E3 ubiquitin protein ligase 2
232598_at	NUP210L	0.002473	0.009797	0.040981	nucleoporin 210kDa-like
235626_at	CAMK1D	-0.005598	0.009839	0.041121	calcium/calmodulin-dependent protein kinase ID
208209_s_at	C4BPB	-0.00328	0.009922	0.041409	complement component 4 binding protein, beta
235415_at	RPRD2	0.003579	0.010131	0.04203	regulation of nuclear pre-mRNA domain containing 2
218014_at	NUP85	-0.005692	0.01021	0.042264	nucleoporin 85kDa
203567_s_at	TRIM38	0.004963	0.010269	0.042454	tripartite motif containing 38
1559584_a_at	C16orf5	0.005676	0.01028	0.04249	chromosome 16 open reading frame 54

212878_s_at	KLC1	-0.004669	0.010391	0.042856	kinesin light chain 1
225161_at	GFM1	-0.006246	0.010568	0.043434	G elongation factor, mitochondrial 1
217973_at	DCXR	-0.005194	0.010881	0.044389	dicarbonyl/L-xylulose reductase
204294_at	AMT	0.004768	0.010984	0.044692	aminomethyltransferase
219816_s_at	RBM23	-0.005157	0.011034	0.044849	RNA binding motif protein 23
216200_at	PLEKHM1	0.003888	0.011909	0.047498	pleckstrin homology domain containing, family M (with RUN domain) member 1
213394_at	MAPKBP1	0.003486	0.011194	0.047592	mitogen-activated protein kinase binding protein 1
1560715_at	P4HA3	0.002786	0.012075	0.047967	prolyl 4-hydroxylase, alpha polypeptide III
240111_at	RHOBTB3	0.005419	0.012094	0.048024	Rho-related BTB domain containing 3
203480_s_at	OTUD4	0.003731	0.012558	0.04932	OTU domain containing 4
217887_s_at	EPS15	-0.00537	0.012692	0.049734	epidermal growth factor receptor pathway substrate 15
221491_x_at	HLA-DRB1	0.005079	0.012815	0.050088	
221491_x_at	HLA-DRB5	0.005079	0.012815	0.050088	
221491_x_at	HLA-DRB3	0.005079	0.012815	0.050088	
218405_at	ABT1	-0.005104	0.0131	0.050956	activator of basal transcription 1
1554113_a_at	SLC4A8	0.004469	0.0134	0.051875	solute carrier family 4, sodium bicarbonate cotransporter, member 8
219956_at	GALNT6	-0.003137	0.013555	0.052312	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)
212368_at	ZNF292	0.007377	0.0136	0.052447	zinc finger protein 292
1558111_at	MBNL1	0.009869	0.013869	0.053296	muscleblind-like splicing regulator 1
226198_at	TOM1L2	0.00541	0.014463	0.05499	target of myb1-like 2 (chicken)
218917_s_at	ARID1A	-0.003522	0.014565	0.055252	AT rich interactive domain 1A (SWI-like)
224543_at	SVEP1	-0.004738	0.014601	0.055368	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
214930_at	SLITRK5	-0.009264	0.014661	0.055546	SLIT and NTRK-like family, member 5
225321_s_at	PILRB	0.007357	0.014856	0.056081	paired immunoglobulin-like type 2 receptor beta
219499_at	SEC61A2	-0.003403	0.015175	0.056977	Sec61 alpha 2 subunit (S. cerevisiae)
214638_s_at	CCNT2	-0.005342	0.015375	0.057529	cyclin T2
207661_s_at	SH3PXD2A	0.006971	0.015618	0.058191	SH3 and PX domains 2A
229467_at	PCBP2	0.007739	0.015733	0.058476	poly(rC) binding protein 2
1554050_at	SMPDL3B	0.004465	0.015828	0.05874	sphingomyelin phosphodiesterase, acid-like 3B
224817_at	SH3PXD2A	0.003452	0.015863	0.058819	SH3 and PX domains 2A
232914_s_at	SYTL2	0.005023	0.016048	0.059321	synaptotagmin-like 2
213532_at	ADAM17	0.00412	0.016325	0.06004	ADAM metallopeptidase domain 17
235239_at	QSOX2	-0.003451	0.016355	0.06011	quiescine Q6 sulfhydryl oxidase 2
208749_x_at	FLOT1	0.004587	0.017339	0.062878	flotillin 1
228954_at	LYSMD4	-0.004842	0.017531	0.063399	LysM, putative peptidoglycan-binding, domain containing 4
225208_s_at	FAM103A1	-0.003243	0.01772	0.063892	family with sequence similarity 103, member A1

232098_at	DST	0.008602	0.018184	0.06511	dystonin
239768_x_at	GPATCH2	-0.004892	0.018253	0.065318	G patch domain containing 2
1570032_at	AP3B2	0.003531	0.018281	0.065404	adaptor-related protein complex 3, beta 2 subunit
220220_at	LRRRC37A4	-0.007345	0.018412	0.065751	leucine rich repeat containing 37, member A4, pseudogene
220220_at	LRRRC37A	-0.007345	0.018412	0.065751	leucine rich repeat containing 37, member A4, pseudogene
232975_at	HCG18	-0.004568	0.018582	0.066222	HLA complex group 18 (non-protein coding)
202308_at	SREBF1	0.005109	0.018883	0.067044	sterol regulatory element binding transcription factor 1
221502_at	KPNA3	-0.003779	0.019013	0.067381	karyopherin alpha 3 (importin alpha 4)
229641_at	CCBE1	-0.00462	0.019394	0.0684	collagen and calcium binding EGF domains 1
226819_at	LSM11	-0.003178	0.019486	0.068616	LSM11, U7 small nuclear RNA associated
226650_at	ZFAND2A	0.005519	0.019484	0.068616	zinc finger, AN1-type domain 2A
223090_x_at	VEZT	-0.003701	0.019682	0.069127	vezatin, adherens junctions transmembrane protein
226394_at	5-Mar	-0.005946	0.020062	0.070135	membrane-associated ring finger (C3HC4) 5
204778_x_at	HOXB7	-0.004351	0.020766	0.071996	homeobox B7
204778_x_at	HOXB7	-0.004351	0.020766	0.071996	NULL
221486_at	ENSA	-0.003945	0.021185	0.073106	endosulfine alpha
1556285_s_at	PPA2	-0.006873	0.02124	0.073278	pyrophosphatase (inorganic) 2
227531_at	CLOCK	-0.003217	0.022008	0.075254	clock circadian regulator
202016_at	MEST	-0.003181	0.022096	0.075479	mesoderm specific transcript
222662_at	PPP1R3B	0.005286	0.022574	0.07669	protein phosphatase 1, regulatory subunit 3B
236150_at	HYKK	0.00299	0.023109	0.078089	hydroxylysine kinase
209349_at	RAD50	-0.005146	0.023427	0.078861	RAD50 homolog (<i>S. cerevisiae</i>)
213865_at	DCBLD2	0.004718	0.023577	0.079201	discoidin, CUB and LCCL domain containing 2
229120_s_at	CDC42SE1	-0.006921	0.023678	0.079456	CDC42 small effector 1
1556283_s_at	FGFR1OP2	-0.004547	0.023958	0.080126	FGFR1 oncogene partner 2
228303_at	GALNT6	-0.003912	0.025049	0.082746	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)
210578_at	TRIM10	0.002311	0.025266	0.083263	tripartite motif containing 10
201189_s_at	ITPR3	0.004745	0.025523	0.083888	inositol 1,4,5-trisphosphate receptor, type 3
1558300_at	EFCAB5	0.00292	0.025982	0.084951	EF-hand calcium binding domain 5
1558658_at	ZNF391	0.002284	0.026001	0.084992	zinc finger protein 391
210514_x_at	HLA-G	0.005627	0.026245	0.085631	major histocompatibility complex, class I, G
215319_at	ATP8B3	0.003196	0.026624	0.08652	ATPase, aminophospholipid transporter, class I, type 8B, member 3
1554499_s_at	PPA2	-0.002964	0.026888	0.087085	pyrophosphatase (inorganic) 2
204031_s_at	PCBP2	-0.003045	0.027418	0.088388	poly(rC) binding protein 2
1554580_a_at	WWP2	0.005026	0.028002	0.089831	WW domain containing E3 ubiquitin protein ligase 2
229663_at	LONP2	0.003909	0.028045	0.089933	lon peptidase 2, peroxisomal
220741_s_at	PPA2	-0.003849	0.028442	0.090882	pyrophosphatase (inorganic) 2

229660_at	C16orf5	-0.004754	0.028457	0.090913	chromosome 16 open reading frame 55
230811_at	C16orf5	-0.006126	0.029934	0.094384	chromosome 16 open reading frame 55
228703_at	P4HA3	0.002886	0.030121	0.094814	prolyl 4-hydroxylase, alpha polypeptide III
1565799_at	RAB3IP	0.001569	0.030523	0.095823	RAB3A interacting protein
244396_at	G3BP1	-0.006815	0.031056	0.097088	GTPase activating protein (SH3 domain) binding protein 1
237169_at	TNC	0.005642	0.03118	0.097375	tenascin C
203928_x_at	MAPT	0.00302	0.031335	0.097749	microtubule-associated protein tau
218697_at	NCKIPSD	0.005036	0.031406	0.097921	NCK interacting protein with SH3 domain
1553048_a_at	PIP4K2B	-0.005603	0.03151	0.098127	phosphatidylinositol-5-phosphate 4-kinase, type II, beta
215871_at	PLA2G5	-0.002312	0.03166	0.098474	phospholipase A2, group V
232229_at	SETX	-0.004706	0.031672	0.098491	senataxin
232431_at	NR3C1	0.007839	0.03208	0.099472	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
217184_s_at	LTK	0.003627	0.032753	0.101032	leukocyte receptor tyrosine kinase
208779_x_at	DDR1	0.005011	0.032779	0.101094	discoidin domain receptor tyrosine kinase 1 /// microRNA 4640
214659_x_at	YLPM1	-0.004968	0.033212	0.102036	YLP motif containing 1
211106_at	SUPT3H	0.005334	0.033235	0.102074	suppressor of Ty 3 homolog (S. cerevisiae)
230730_at	SGCD	-0.009009	0.033399	0.102437	sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
219608_s_at	FBXO38	-0.006691	0.033802	0.103349	F-box protein 38
223967_at	ANGPTL6	-0.005639	0.034309	0.10448	angiopoietin-like 6
237897_at	ADAM17	-0.003408	0.034315	0.104494	ADAM metallopeptidase domain 17
242720_at	ITIH4	0.004003	0.034529	0.10493	inter-alpha-trypsin inhibitor heavy chain family, member 4
201137_s_at	HLA-DPB1	0.005744	0.035342	0.106813	major histocompatibility complex, class II, DP beta 1
212044_s_at	RPL27A	-0.008988	0.035446	0.107004	ribosomal protein L27a
203417_at	MFAP2	-0.005658	0.036143	0.108589	microfibrillar-associated protein 2
202980_s_at	SIAH1	-0.003724	0.036823	0.110053	siah E3 ubiquitin protein ligase 1
1562446_at	ZNF391	0.00302	0.037056	0.110501	zinc finger protein 391
238158_at	MEIG1	0.002743	0.037065	0.110521	meiosis expressed gene 1 homolog (mouse)
219132_at	PELI2	0.004562	0.037196	0.11081	pellino E3 ubiquitin protein ligase family member 2
228366_at	PPA2	0.003788	0.038373	0.113449	pyrophosphatase (inorganic) 2
243536_x_at	ARHGAP27	-0.002279	0.038417	0.113556	Rho GTPase activating protein 27
237813_at	PCBP2	-0.004376	0.039504	0.115819	poly(rC) binding protein 2
207519_at	SLC6A4	0.003385	0.039701	0.116182	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4
203610_s_at	TRIM38	0.00505	0.040039	0.116927	tripartite motif containing 38
226506_at	THSD4	-0.003705	0.04063	0.118207	thrombospondin, type I, domain containing 4
242224_at	GPATCH2	-0.005899	0.041018	0.119025	G patch domain containing 2
235149_at	PGM2L1	0.002576	0.041226	0.119467	phosphoglucomutase 2-like 1
239446_x_at	DCBLD2	-0.003854	0.041274	0.119583	discoidin, CUB and LCCL domain containing 2

202902_s_at	CTSS	0.006648	0.041491	0.120059	cathepsin S
219733_s_at	SLC27A5	-0.002491	0.041584	0.120258	solute carrier family 27 (fatty acid transporter), member 5
210600_s_at	GRK4	-0.002966	0.041864	0.120793	G protein-coupled receptor kinase 4
242432_at	LRRC37A	0.002905	0.041874	0.120808	leucine rich repeat containing 37, member A2
236026_at	GPATCH2	-0.006467	0.042048	0.121169	G patch domain containing 2
212945_s_at	MGA	0.002561	0.042536	0.12219	MGA, MAX dimerization protein
225393_at	GATAD2B	0.004569	0.044276	0.125711	GATA zinc finger domain containing 2B
201048_x_at	RAB6A	-0.005408	0.044635	0.126447	RAB6A, member RAS oncogene family
216994_s_at	RUNX2	0.00207	0.044776	0.126755	runt-related transcription factor 2
229119_s_at	ZSWIM7	-0.005898	0.044825	0.126855	zinc finger, SWIM-type containing 7
216018_at	RNF5	-0.002472	0.044846	0.126886	ring finger protein 5, E3 ubiquitin protein ligase
201623_s_at	DARS	-0.007445	0.046263	0.12986	aspartyl-tRNA synthetase
228719_at	ZSWIM7	-0.007025	0.046392	0.130111	zinc finger, SWIM-type containing 7
211810_s_at	GALC	-0.006485	0.046972	0.131339	galactosylceramidase
243619_at	FGFR1OP2	0.005596	0.047013	0.13142	FGFR1 oncogene partner 2
206401_s_at	MAPT	0.003718	0.04704	0.131474	microtubule-associated protein tau
200982_s_at	ANXA6	-0.005499	0.047101	0.131585	annexin A6
220669_at	OTUD4	0.002472	0.047151	0.13169	OTU domain containing 4
1555816_at	THSD4	-0.001405	0.04721	0.131766	thrombospondin, type I, domain containing 4
225496_s_at	SYTL2	0.005059	0.04775	0.132775	synaptotagmin-like 2
223861_at	HORMAD1	0.001422	0.047864	0.133043	HORMA domain containing 1
1564640_at	MGA	0.003266	0.048092	0.133474	MGA, MAX dimerization protein
237109_at	TOM1L2	-0.00221	0.048236	0.133758	target of myb1-like 2 (chicken)
227146_at	QSOX2	-0.003052	0.048266	0.133801	quiescin Q6 sulfhydryl oxidase 2
1552669_at	PPP1R3B	0.002614	0.049456	0.136189	protein phosphatase 1, regulatory subunit 3B
242451_x_at	RPS19	0.00249	0.050043	0.137335	ribosomal protein S19
214713_at	YLPM1	0.003403	0.050357	0.137911	YLP motif containing 1
224671_at	MRPL10	-0.003038	0.050653	0.138528	mitochondrial ribosomal protein L10
1554594_at	ARHGAP27	0.00186	0.050785	0.138763	Rho GTPase activating protein 27
204455_at	DST	0.004443	0.051156	0.139448	dystonin
225202_at	RHOBTB3	-0.003639	0.052096	0.141232	Rho-related BTB domain containing 3
1555476_at	IREB2	0.003901	0.052286	0.141592	iron-responsive element binding protein 2
201943_s_at	CPD	-0.006528	0.052642	0.142294	carboxypeptidase D
206533_at	CHRNA5	-0.002563	0.053383	0.14375	cholinergic receptor, nicotinic, alpha 5 (neuronal)
233015_at	MBNL1	-0.00264	0.053479	0.143953	muscleblind-like splicing regulator 1
205185_at	SPINK5	0.009671	0.053753	0.144397	serine peptidase inhibitor, Kazal type 5
203365_s_at	MMP15	0.004185	0.054547	0.145893	matrix metalloproteinase 15 (membrane-inserted)

213889_at	PIGL	0.004049	0.055108	0.146934	phosphatidylinositol glycan anchor biosynthesis, class L
238886_at	TMED10	-0.004666	0.056546	0.149593	transmembrane emp24-like trafficking protein 10 (yeast)
229553_at	PGM2L1	0.00552	0.057203	0.15085	phosphoglucomutase 2-like 1
201332_s_at	STAT6	0.005816	0.058265	0.152836	signal transducer and activator of transcription 6, interleukin-4 induced
229912_at	SDK1	-0.003579	0.058438	0.153162	sidekick cell adhesion molecule 1
213247_at	SVEP1	-0.00304	0.058569	0.153374	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
214937_x_at	PCM1	-0.003011	0.059039	0.154352	pericentriolar material 1
228083_at	CACNA2D4	0.003131	0.059102	0.154443	calcium channel, voltage-dependent, alpha 2/delta subunit 4
205654_at	C4BPA	0.007699	0.060029	0.156217	complement component 4 binding protein, alpha
215551_at	ESR1	-0.001932	0.060617	0.157361	estrogen receptor 1
221283_at	RUNX2	0.002151	0.060898	0.157815	runt-related transcription factor 2
205330_at	MN1	-0.005258	0.061924	0.159657	meningioma (disrupted in balanced translocation) 1
206858_s_at	HOXC6	0.008337	0.062602	0.160883	homeobox C6
219916_s_at	RNF39	0.002611	0.062724	0.16109	ring finger protein 39
209728_at	HLA-DRB4	0.00629	0.062861	0.161352	major histocompatibility complex, class II, DR beta 4
201047_x_at	RAB6A	0.002416	0.064219	0.163762	RAB6A, member RAS oncogene family
225879_at	TSEN54	-0.002286	0.065538	0.166216	tRNA splicing endonuclease 54 homolog (S. cerevisiae)
218157_x_at	CDC42SE1	-0.005702	0.065666	0.166433	CDC42 small effector 1
243805_at	CCBE1	-0.004823	0.065797	0.166646	collagen and calcium binding EGF domains 1
221487_s_at	ENSA	-0.004604	0.066506	0.167752	endosulfine alpha
66053_at	BSCL2	-0.004689	0.067059	0.168774	heterogeneous nuclear ribonucleoprotein U-like 2 /// HNRNPUL2-BSCL2 readthrough
206284_x_at	CLTB	-0.003805	0.067109	0.168831	clathrin, light chain B
213702_x_at	ASAHI	0.003689	0.068265	0.170943	N-acylsphingosine amidohydrolase (acid ceramidase) 1
205074_at	SLC22A5	0.003327	0.068974	0.172182	solute carrier family 22 (organic cation/carnitine transporter), member 5
1568702_a_at	PAAF1	0.003679	0.071363	0.176478	proteasomal ATPase-associated factor 1
210980_s_at	ASAHI	0.003469	0.071769	0.177171	N-acylsphingosine amidohydrolase (acid ceramidase) 1
244250_at	ANXA6	0.002261	0.071836	0.177285	annexin A6
236295_s_at	NLRC3	0.00466	0.072519	0.178457	NLR family, CARD domain containing 3
223098_s_at	LONP2	-0.003565	0.07331	0.179877	lon peptidase 2, peroxisomal
204645_at	CCNT2	-0.003708	0.073497	0.180224	cyclin T2
233898_s_at	FGFR1OP2	-0.004486	0.073675	0.180556	FGFR1 oncogene partner 2
227314_at	ITGA2	0.00532	0.074298	0.181642	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
207350_s_at	VAMP4	-0.003897	0.074796	0.182476	vesicle-associated membrane protein 4
223775_at	HHIP	0.00692	0.075395	0.183512	hedgehog interacting protein
225220_at	SNORA24	0.004497	0.075612	0.183868	small nucleolar RNA host gene 8 (non-protein coding) /// small nucleolar RNA, H/ACA box 24
202198_s_at	MTMR3	-0.003133	0.078247	0.188316	myotubularin related protein 3

219153_s_at	THSD4	0.002457	0.078557	0.188837	thrombospondin, type I, domain containing 4
231708_at	C2CD3	-0.002163	0.07967	0.190644	C2 calcium-dependent domain containing 3
214420_s_at	CYP2C9	0.001858	0.079946	0.19112	cytochrome P450, family 2, subfamily C, polypeptide 9
227221_at	ZMAT3	-0.003085	0.08019	0.191525	zinc finger, matrin-type 3
223384_s_at	TRIM4	0.003484	0.080541	0.19211	tripartite motif containing 4
203644_s_at	MON1B	-0.004234	0.081221	0.193287	MON1 homolog B (yeast)
230074_s_at	C16orf5	0.002769	0.08137	0.193534	chromosome 16 open reading frame 58
232295_at	GFM1	-0.00237	0.081391	0.193564	G elongation factor, mitochondrial 1
206023_at	NMU	-0.007425	0.082894	0.196031	neuromedin U
203479_s_at	OTUD4	0.003649	0.083361	0.196729	OTU domain containing 4
1555520_at	PTCH1	-0.008242	0.083505	0.196973	patched 1
209909_s_at	TGFB2	-0.006443	0.085401	0.19991	transforming growth factor, beta 2
223534_s_at	RPS6KL1	0.002083	0.085682	0.200369	ribosomal protein S6 kinase-like 1
214859_at	FSTL4	0.001908	0.085752	0.200474	folliculin-like 4
225092_at	RABEP1	-0.003852	0.087003	0.202635	rabaptin, RAB GTPase binding effector protein 1
1560391_at	PIGL	0.003448	0.088184	0.204699	phosphatidylinositol glycan anchor biosynthesis, class L
226941_at	ATF6	0.002738	0.089035	0.206123	activating transcription factor 6
226471_at	GGT7	0.002485	0.090712	0.208952	gamma-glutamyltransferase 7
1554287_at	TRIM4	-0.007183	0.091689	0.210599	tripartite motif containing 4
228175_at	SLC4A8	0.002764	0.092425	0.211801	solute carrier family 4, sodium bicarbonate cotransporter, member 8
204630_s_at	GOSR1	0.003047	0.093097	0.212884	golgi SNAP receptor complex member 1
220613_s_at	SYTL2	0.002603	0.093353	0.213381	synaptotagmin-like 2
219600_s_at	TMEM50B	-0.005733	0.094167	0.214676	transmembrane protein 50B
231696_x_at	TMEM50B	0.002109	0.095978	0.217489	transmembrane protein 50B
205745_x_at	ADAM17	0.003804	0.096478	0.218332	ADAM metalloproteinase domain 17
225973_at	TAP2	0.006135	0.097537	0.21997	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
205225_at	ESR1	0.002255	0.097837	0.220406	estrogen receptor 1
209876_at	GIT2	-0.002157	0.098419	0.221271	G protein-coupled receptor kinase interacting ArfGAP 2
228852_at	ENSA	0.004094	0.09869	0.221688	endosulfine alpha
217978_s_at	UBE2Q1	0.002432	0.09921	0.222545	ubiquitin-conjugating enzyme E2Q family member 1
239943_x_at	PIGL	-0.002058	0.099835	0.223451	phosphatidylinositol glycan anchor biosynthesis, class L
210329_s_at	SGCD	-0.001898	0.10149	0.226026	sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
223263_s_at	FGFR1OP2	-0.005275	0.101632	0.226259	FGFR1 oncogene partner 2
1554121_at	HSD17B12	0.001467	0.103478	0.229341	hydroxysteroid (17-beta) dehydrogenase 12
234114_at	ZNRD1	-0.001848	0.105491	0.232456	zinc ribbon domain containing 1
1552737_s_at	WWP2	-0.002917	0.106045	0.233292	WW domain containing E3 ubiquitin protein ligase 2
201086_x_at	SON	0.001735	0.107062	0.234869	SON DNA binding protein

220757_s_at	UBXN6	0.002875	0.107149	0.23502	microRNA 4746 /// UBX domain protein 6
223772_s_at	TMEM87A	0.002286	0.108861	0.237652	transmembrane protein 87A
230506_at	C6orf164	-0.002584	0.109991	0.239402	chromosome 6 open reading frame 164
1558756_at	C2CD3	0.001469	0.111095	0.241074	C2 calcium-dependent domain containing 3
205873_at	PIGL	0.002512	0.111853	0.242086	phosphatidylinositol glycan anchor biosynthesis, class L
239929_at	PM20D1	0.00208	0.111947	0.242241	peptidase M20 domain containing 1
206178_at	PLA2G5	0.003033	0.112017	0.242364	phospholipase A2, group V
1557384_at	ZNF131	-0.004898	0.113207	0.244185	uncharacterized LOC100506639 /// zinc finger protein 131
207205_at	CEACAM4	0.001998	0.113378	0.244389	carcinoembryonic antigen-related cell adhesion molecule 4
220407_s_at	TGFB2	-0.005211	0.11414	0.245568	transforming growth factor, beta 2
1552939_at	ANGPT1	0.001283	0.114268	0.2458	angiopoietin 1
216419_at	CROCC	0.005211	0.11473	0.24639	ciliary rootlet coiled-coil, rootletin
216049_at	RHOBTB3	0.002212	0.115297	0.247286	Rho-related BTB domain containing 3
204085_s_at	CLN5	-0.004498	0.116383	0.248835	ceroid-lipofuscinosis, neuronal 5
1558648_at	C15orf57	0.002322	0.117444	0.25043	chromosome 15 open reading frame 57
1554234_at	KATNAL2	0.002046	0.118804	0.252395	katanin p60 subunit A-like 2
232231_at	RUNX2	0.005302	0.120785	0.25551	runt-related transcription factor 2
229184_at	CCNT2	0.002545	0.12092	0.255721	cyclin T2
220435_at	SLC30A10	0.002243	0.120922	0.255721	solute carrier family 30, member 10
210579_s_at	TRIM10	0.001306	0.122383	0.257793	tripartite motif containing 10
1554384_at	PADI2	0.00164	0.123984	0.260253	peptidyl arginine deiminase, type II
238890_at	BRWD1	0.00301	0.124933	0.261673	bromodomain and WD repeat domain containing 1
216114_at	NCKIPSD	0.002537	0.125784	0.262917	NCK interacting protein with SH3 domain
229962_at	LRRC37A	-0.002851	0.125944	0.263105	leucine rich repeat containing 37, member A3
1558875_at	SREBF1	-0.001795	0.127488	0.265478	sterol regulatory element binding transcription factor 1
225210_s_at	FAM103A1	-0.002751	0.127538	0.265562	family with sequence similarity 103, member A1
220406_at	TGFB2	0.001968	0.128114	0.266364	transforming growth factor, beta 2
213748_at	TRIM66	0.004232	0.128718	0.267256	tripartite motif containing 66
206192_at	CDSN	0.002955	0.130172	0.269161	corneodesmosin
216661_x_at	CYP2C9	0.003203	0.130451	0.269551	cytochrome P450, family 2, subfamily C, polypeptide 9
227060_at	RELT	0.002038	0.131967	0.271608	RELT tumor necrosis factor receptor
235080_at	CLUAP1	0.001865	0.1329	0.273024	clusterin associated protein 1
213480_at	VAMP4	0.003252	0.133737	0.27421	vesicle-associated membrane protein 4
222624_s_at	ZNF639	-0.002535	0.135279	0.276461	zinc finger protein 639
210747_at	HLA-DQB1	0.001426	0.135786	0.277091	major histocompatibility complex, class II, DQ beta 1
226170_at	EYA3	-0.001989	0.136621	0.278075	eyes absent homolog 3 (Drosophila)
214639_s_at	HOXA1	-0.003678	0.137035	0.278678	homeobox A1

1568914_at	OPN5	0.001531	0.138611	0.280906	opsin 5
1557350_at	G3BP1	0.003419	0.139307	0.281992	GTPase activating protein (SH3 domain) binding protein 1
209328_x_at	HIGD2A	-0.001753	0.140407	0.283606	HIG1 hypoxia inducible domain family, member 2A
221740_x_at	LRRC37A	0.003578	0.142784	0.287155	leucine rich repeat containing 37, member A2
213743_at	CCNT2	0.002928	0.145785	0.291362	cyclin T2
213199_at	C2CD3	0.00169	0.145804	0.291371	C2 calcium-dependent domain containing 3
1553129_at	SVEP1	-0.003101	0.146174	0.291852	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
226956_at	MTMR3	-0.002254	0.147991	0.294425	myotubularin related protein 3
207056_s_at	SLC4A8	-0.001416	0.148567	0.295283	solute carrier family 4, sodium bicarbonate cotransporter, member 8
209314_s_at	HBS1L	-0.004584	0.152108	0.300353	HBS1-like (<i>S. cerevisiae</i>)
221996_s_at	CLTB	0.00187	0.152458	0.300858	clathrin, light chain B
221627_at	TRIM10	0.002084	0.153877	0.302655	tripartite motif containing 10
204810_s_at	CKM	0.002191	0.154615	0.303736	creatine kinase, muscle
206088_at	LRRC37A	0.006229	0.155204	0.304565	leucine rich repeat containing 37, member A3
204838_s_at	MLH3	0.003479	0.156221	0.305917	mutL homolog 3 (<i>E. coli</i>)
1562803_at	LRRC37A	0.001317	0.157479	0.307571	leucine rich repeat containing 37, member A5, pseudogene
220954_s_at	PILRB	0.004776	0.157613	0.307789	paired immunoglobulin-like type 2 receptor beta
1553973_a_at	SPINK6	0.002	0.158875	0.30938	serine peptidase inhibitor, Kazal type 6
220067_at	SPTBN5	0.002052	0.15908	0.309689	spectrin, beta, non-erythrocytic 5
212357_at	FAM168A	-0.002203	0.159176	0.309785	family with sequence similarity 168, member A
238526_at	RAB3IP	-0.002621	0.159298	0.309974	RAB3A interacting protein
217094_s_at	ITCH	-0.002205	0.159923	0.310885	itchy E3 ubiquitin protein ligase
215920_s_at	PDXDC2	0.003284	0.160711	0.311868	
232524_x_at	ANAPC4	-0.002597	0.160869	0.312107	anaphase promoting complex subunit 4
1552760_at	HDAC9	0.001141	0.161268	0.31275	histone deacetylase 9
210828_s_at	ARNT	0.003355	0.161295	0.31278	aryl hydrocarbon receptor nuclear translocator
208365_s_at	GRK4	-0.002364	0.163123	0.315295	G protein-coupled receptor kinase 4
226200_at	VAR52	-0.002755	0.16498	0.317682	valyl-tRNA synthetase 2, mitochondrial
1558304_s_at	TSEN54	-0.001782	0.165472	0.318255	tRNA splicing endonuclease 54 homolog (<i>S. cerevisiae</i>)
202762_at	ROCK2	0.002828	0.168339	0.32238	Rho-associated, coiled-coil containing protein kinase 2
244478_at	LRRC37A	0.002329	0.168877	0.32298	leucine rich repeat containing 37, member A3
212253_x_at	DST	0.003306	0.168987	0.3231	dystonin
204461_x_at	RAD1	-0.002428	0.169446	0.323728	RAD1 homolog (<i>S. pombe</i>)
1560543_at	GRK4	-0.001185	0.170247	0.324782	G protein-coupled receptor kinase 4
212671_s_at	HLA-DQA2	0.006685	0.170743	0.325398	
220362_at	PSORS1C1	0.001145	0.171408	0.32629	psoriasis susceptibility 1 candidate 1
201228_s_at	ARIH2	-0.002478	0.172995	0.328512	ariadne homolog 2 (<i>Drosophila</i>)

217323_at	HLA-DRB6	0.001261	0.174393	0.330339	major histocompatibility complex, class II, DR beta 6 (pseudogene)
215523_at	ZNF391	0.00298	0.177137	0.333837	zinc finger protein 391
222537_s_at	CDC42SE1	-0.002359	0.177478	0.334238	CDC42 small effector 1
220154_at	DST	-0.003985	0.177718	0.334541	dystonin
207106_s_at	LTK	0.002775	0.179119	0.336437	leukocyte receptor tyrosine kinase
203166_at	CFDP1	-0.001796	0.181229	0.339044	craniofacial development protein 1
218957_s_at	PAAF1	-0.002719	0.181558	0.339466	proteasomal ATPase-associated factor 1
235084_x_at	TRIM38	0.002977	0.181652	0.339586	tripartite motif containing 38
242812_at	HCG18	-0.003313	0.182279	0.340546	HLA complex group 18 (non-protein coding)
226465_s_at	SON	-0.003209	0.183458	0.342029	SON DNA binding protein
217558_at	CYP2C9	0.001529	0.183529	0.342087	cytochrome P450, family 2, subfamily C, polypeptide 9
227720_at	ANKRD13B	-0.002418	0.184295	0.343107	ankyrin repeat domain 13B
217163_at	ESR1	0.001047	0.185239	0.344266	estrogen receptor 1
216973_s_at	HOXB7	0.002265	0.185505	0.34456	homeobox B7
216973_s_at	HOXB7	0.002265	0.185505	0.34456	NULL
1556284_at	PPA2	0.001102	0.186327	0.345556	pyrophosphatase (inorganic) 2
205806_at	ROM1	-0.001953	0.186974	0.346327	retinal outer segment membrane protein 1
243417_at	ZADH2	0.003245	0.18808	0.347819	zinc binding alcohol dehydrogenase domain containing 2
218222_x_at	ARNT	0.002391	0.191199	0.351886	aryl hydrocarbon receptor nuclear translocator
201080_at	PIP4K2B	-0.001832	0.195609	0.357451	phosphatidylinositol-5-phosphate 4-kinase, type II, beta
216679_at	DDR1	0.001862	0.197349	0.359633	DDR1 antisense RNA 1 (head to head)
216458_at	PQLC3	-0.001429	0.197347	0.359633	PQ loop repeat containing 3
212876_at	B4GALT4	0.001791	0.202532	0.36575	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4
231910_at	NUDT14	0.001483	0.203964	0.367606	nudix (nucleoside diphosphate linked moiety X)-type motif 14
225577_at	HCG18	-0.002564	0.205302	0.369215	HLA complex group 18 (non-protein coding)
241846_at	HCG18	0.001399	0.210323	0.375098	HLA complex group 18 (non-protein coding)
1560767_at	HCG22	0.001723	0.210931	0.375925	HLA complex group 22 (non-protein coding)
236273_at	NBPF1	0.003463	0.211339	0.376396	neuroblastoma breakpoint family, member 1
218863_s_at	TNS1	0.002382	0.21237	0.377666	tensin 1
1568789_at	UHRF1BP1	0.00161	0.212868	0.378305	UHRF1 binding protein 1
222907_x_at	TMEM50B	-0.003487	0.215227	0.381214	transmembrane protein 50B
213095_x_at	AIF1	0.002256	0.21595	0.382009	allograft inflammatory factor 1
1558839_at	MAPKBP1	-0.002473	0.218202	0.384604	mitogen-activated protein kinase binding protein 1
217216_x_at	MLH3	0.002477	0.219647	0.386277	mutL homolog 3 (E. coli)
1554487_a_at	ATF6B	-0.002619	0.221392	0.388504	activating transcription factor 6 beta
220132_s_at	CLEC2D	-0.001833	0.222441	0.38972	C-type lectin domain family 2, member D
204125_at	NDUFAF1	-0.00261	0.226359	0.394016	NADH dehydrogenase (ubiquinone) complex I, assembly factor 1

207263_x_at	VEZT	0.003279	0.227206	0.39502	vezatin, adherens junctions transmembrane protein
204769_s_at	TAP2	-0.002341	0.227322	0.395155	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
211235_s_at	ESR1	0.002278	0.230834	0.399407	estrogen receptor 1
203929_s_at	MAPT	-0.00281	0.23287	0.40195	microtubule-associated protein tau
1567853_at	ZNF28	-0.001055	0.232934	0.401987	zinc finger protein 28
214741_at	ZNF131	-0.003769	0.23474	0.404252	uncharacterized LOC100506639 /// zinc finger protein 131
224378_x_at	MAP1LC3A	0.002519	0.234835	0.404333	microtubule-associated protein 1 light chain 3 alpha
216527_at	HCG18	-0.003121	0.236995	0.407014	HLA complex group 18 (non-protein coding)
228426_at	CLEC2D	0.001924	0.238349	0.40866	C-type lectin domain family 2, member D
234530_s_at	ZNRD1	0.001154	0.238433	0.408765	zinc ribbon domain containing 1
1559174_at	RAB6A	-0.001805	0.240638	0.41119	RAB6A, member RAS oncogene family
226658_at	PDPN	-0.003384	0.24249	0.413168	podoplanin
201187_s_at	ITPR3	-0.001877	0.242522	0.413183	inositol 1,4,5-trisphosphate receptor, type 3
216649_at	RREB1	-0.001448	0.243563	0.414324	ras responsive element binding protein 1
209908_s_at	TGFB2	-0.003711	0.243809	0.414588	transforming growth factor, beta 2
215535_s_at	AGPAT1	0.002977	0.243985	0.41481	1-acylglycerol-3-phosphate O-acyltransferase 1
207402_at	ZNF132	-0.002205	0.244132	0.41492	zinc finger protein 132
242972_at	HCG18	0.004192	0.248654	0.420357	HLA complex group 18 (non-protein coding)
1569062_s_at	IQGAP3	-0.001264	0.25186	0.423913	IQ motif containing GTPase activating protein 3
238417_at	PGM2L1	0.001964	0.251913	0.423951	phosphoglucomutase 2-like 1
219552_at	SVEP1	-0.003591	0.251921	0.423951	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
1554984_a_at	HLA-DOB	0.001563	0.252812	0.425024	major histocompatibility complex, class II, DO beta
230215_at	SEC61A2	0.001454	0.256166	0.428576	Sec61 alpha 2 subunit (S. cerevisiae)
243704_at	GPATCH2	0.001937	0.257273	0.429657	G patch domain containing 2
220378_at	TCP11	0.001255	0.258873	0.431587	t-complex 11, testis-specific
230794_at	PELI2	0.001243	0.259595	0.432291	pellino E3 ubiquitin protein ligase family member 2
226527_at	RPRD2	0.001825	0.262108	0.435	regulation of nuclear pre-mRNA domain containing 2
205609_at	ANGPT1	0.002397	0.263765	0.437034	angiopoietin 1
237866_at	PID1	0.000985	0.266201	0.439622	phosphotyrosine interaction domain containing 1
243441_at	HOXB7	0.001649	0.266369	0.43983	homeobox B7
243441_at	HOXB7	0.001649	0.266369	0.43983	NULL
207174_at	GPC5	-0.005084	0.267146	0.440624	glypican 5
216116_at	NCKIPSD	0.001179	0.268991	0.442717	NCK interacting protein with SH3 domain
214252_s_at	CLN5	-0.002866	0.270087	0.44404	ceroid-lipofuscinosis, neuronal 5
236588_at	CFDP1	-0.001578	0.270353	0.444303	craniofacial development protein 1
1558931_at	LRRC16A	-0.001032	0.270547	0.444476	leucine rich repeat containing 16A
1555419_a_at	ASAHI	-0.004544	0.271255	0.445371	N-acylsphingosine amidohydrolase (acid ceramidase) 1

222256_s_at	JMJD7-PLA2G4B	-0.001836	0.271494	0.44559	
212854_x_at	NBPF1	-0.001486	0.273708	0.447968	neuroblastoma breakpoint family, member 1
203704_s_at	RREB1	0.001621	0.275693	0.450311	ras responsive element binding protein 1
227029_at	FAM177A1	-0.003077	0.279761	0.45464	family with sequence similarity 177, member A1
217886_at	EPS15	0.001783	0.280517	0.455545	epidermal growth factor receptor pathway substrate 15
241402_at	TSEN54	-0.001331	0.2814	0.456462	tRNA splicing endonuclease 54 homolog (S. cerevisiae)
201940_at	CPD	-0.002657	0.281989	0.456998	carboxypeptidase D
209996_x_at	PCM1	-0.003058	0.282587	0.457492	pericentriolar material 1
1560814_a_at	C15orf57	-0.003691	0.283822	0.458763	chromosome 15 open reading frame 57
1553191_at	DST	-0.002004	0.284291	0.459273	dystonin
229424_s_at	ARHGAP27	0.002169	0.286223	0.461194	Rho GTPase activating protein 27
214574_x_at	LST1	0.001462	0.286429	0.461396	leukocyte specific transcript 1
1554385_a_at	PADI2	0.001968	0.28691	0.461864	peptidyl arginine deiminase, type II
201085_s_at	SON	-0.002772	0.287998	0.46314	SON DNA binding protein
227673_at	ZNRD1	0.001583	0.288236	0.463394	zinc ribbon domain containing 1
208428_at	TAP2	0.001361	0.288436	0.463594	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
221147_x_at	WWOX	-0.001757	0.28904	0.464182	WW domain containing oxidoreductase
208748_s_at	FLOT1	-0.002496	0.289228	0.464394	flotillin 1
206683_at	ZNF165	-0.002348	0.289504	0.464705	zinc finger protein 165
233173_x_at	GTF3C5	-0.001323	0.292391	0.467824	general transcription factor IIIC, polypeptide 5, 63kDa
236927_at	SVEP1	0.001293	0.292927	0.468371	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
220999_s_at	CYFIP2	0.001878	0.294703	0.470244	cytoplasmic FMR1 interacting protein 2
1566984_at	LRRC37A	0.001771	0.295349	0.470958	NULL /// leucine rich repeat containing 37, member A16, pseudogene
205172_x_at	CLTB	-0.001327	0.296796	0.472491	clathrin, light chain B
237867_s_at	PID1	-0.001802	0.298964	0.474562	phosphotyrosine interaction domain containing 1
1553512_at	HOXC12	0.002004	0.299175	0.474751	homeobox C12
233301_at	OXCT2	0.001048	0.301175	0.476619	3-oxoacid CoA transferase 2
226917_s_at	ANAPC4	-0.002086	0.303144	0.478739	anaphase promoting complex subunit 4
235788_at	HCG18	-0.002479	0.30716	0.482822	HLA complex group 18 (non-protein coding)
220256_s_at	OXCT2	-0.001496	0.307698	0.483461	3-oxoacid CoA transferase 2
216946_at	HLA-DOA	-0.001185	0.307969	0.483704	major histocompatibility complex, class II, DO alpha
37996_s_at	DMPK	0.003238	0.308667	0.484366	dystrophia myotonica-protein kinase
206410_at	NR0B2	0.001375	0.309463	0.485172	nuclear receptor subfamily 0, group B, member 2
228001_at	TMEM50B	0.00237	0.312512	0.488341	transmembrane protein 50B
1569839_s_at	LRRC37A	0.001604	0.312919	0.48868	leucine rich repeat containing 37, member A5, pseudogene
235253_at	RAD1	-0.002337	0.314578	0.490394	RAD1 homolog (S. pombe)

211142_x_at	HLA-DOA	-0.001406	0.320533	0.496492	major histocompatibility complex, class II, DO alpha
219920_s_at	AMIGO3	-0.001798	0.323599	0.499528	adhesion molecule with Ig-like domain 3 /// GDP-mannose pyrophosphorylase B
241599_at	LSM11	-0.001391	0.326146	0.501943	LSM11, U7 small nuclear RNA associated
238848_at	OTUD4	0.001636	0.331527	0.507397	OTU domain containing 4
231734_at	RBP2	-0.001476	0.331561	0.507421	retinol binding protein 2, cellular
221057_at	SPATA1	0.001147	0.333556	0.509533	spermatogenesis associated 1
229835_s_at	SLMO2	-0.004202	0.335287	0.511376	slowmo homolog 2 (Drosophila)
1557065_at	YLPM1	0.003044	0.335901	0.51207	YLP motif containing 1
222480_at	UBE2Q1	-0.002037	0.336131	0.512335	ubiquitin-conjugating enzyme E2Q family member 1
228535_at	RAD1	-0.001858	0.336306	0.512502	RAD1 homolog (S. pombe)
230721_at	C16orf5	-0.001945	0.339793	0.516105	chromosome 16 open reading frame 52 /// uncharacterized LOC101060634
213489_at	MAPRE2	0.001955	0.34008	0.516454	microtubule-associated protein, RP/EB family, member 2
218221_at	ARNT	0.001683	0.340438	0.516739	aryl hydrocarbon receptor nuclear translocator
215051_x_at	AIF1	0.001713	0.341786	0.518081	allograft inflammatory factor 1
1552690_a_at	CACNA2D4	0.001227	0.344144	0.520529	calcium channel, voltage-dependent, alpha 2/delta subunit 4
221257_x_at	FBXO38	0.001945	0.345131	0.521388	F-box protein 38
1552314_a_at	EYA3	-0.001259	0.346852	0.523336	eyes absent homolog 3 (Drosophila)
1555060_a_at	IKZF2	0.002138	0.347627	0.524133	IKAROS family zinc finger 2 (Helios)
227351_at	C16orf5	-0.001755	0.35026	0.526777	chromosome 16 open reading frame 52 /// uncharacterized LOC101060634
204770_at	TAP2	0.001812	0.3526	0.529407	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
231960_at	BRWD1	0.001922	0.352991	0.529706	bromodomain and WD repeat domain containing 1
210649_s_at	ARID1A	-0.002682	0.353901	0.530534	AT rich interactive domain 1A (SWI-like)
210629_x_at	LST1	-0.0014	0.355857	0.532748	leukocyte specific transcript 1
201216_at	ERP29	-0.001582	0.356836	0.533676	endoplasmic reticulum protein 29
211043_s_at	CLTB	-0.001763	0.357739	0.53448	clathrin, light chain B
222190_s_at	C16orf5	0.00195	0.360401	0.537171	chromosome 16 open reading frame 58
228375_at	IGSF11	0.001004	0.36125	0.538008	immunoglobulin superfamily, member 11
209327_s_at	NOP16	-0.001646	0.361297	0.538063	NOP16 nucleolar protein
216918_s_at	DST	0.001381	0.361336	0.538077	dystonin
1556672_a_at	RBM6	0.002861	0.364103	0.540818	RNA binding motif protein 6
219078_at	GPATCH2	0.001902	0.370014	0.546247	G patch domain containing 2
218628_at	CCDC53	-0.002407	0.372437	0.548573	coiled-coil domain containing 53
213589_s_at	B3GNTL1	-0.001332	0.375757	0.551605	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like 1
225397_at	C15orf57	0.002215	0.376188	0.551964	chromosome 15 open reading frame 57
232365_at	SIAH1	-0.003027	0.37683	0.552572	siah E3 ubiquitin protein ligase 1
242112_at	LSM11	0.002002	0.377194	0.552885	LSM11, U7 small nuclear RNA associated
213021_at	GOSR1	-0.001341	0.379173	0.554684	golgi SNAP receptor complex member 1

244622_at	BRWD1	0.001683	0.379322	0.554857	bromodomain and WD repeat domain containing 1
202976_s_at	RHOBTB3	-0.002199	0.382824	0.558113	Rho-related BTB domain containing 3
218582_at	5-Mar	-0.001772	0.383377	0.558636	membrane-associated ring finger (C3HC4) 5
219573_at	LRRC16A	-0.001995	0.383985	0.55921	leucine rich repeat containing 16A
214762_at	ATP6V1G2	-0.001318	0.386277	0.561584	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G2
216648_s_at	RREB1	-0.001306	0.388197	0.563407	ras responsive element binding protein 1
244192_x_at	USP4	-0.001027	0.390682	0.565766	ubiquitin specific peptidase 4 (proto-oncogene)
232442_at	BCAR1	-0.001598	0.392312	0.567106	breast cancer anti-estrogen resistance 1
207611_at	HIST1H2BL	0.000747	0.392998	0.567738	histone cluster 1, H2bl
1559518_at	HSD17B12	-0.00068	0.39461	0.569135	hydroxysteroid (17-beta) dehydrogenase 12
1565800_x_at	RAB3IP	-0.000634	0.396103	0.570493	RAB3A interacting protein
228840_at	AMOTL1	-0.001432	0.396602	0.570998	angiomin like 1
218800_at	SRD5A3	-0.001484	0.402555	0.576245	steroid 5 alpha-reductase 3
1553047_at	PIP4K2B	0.001426	0.406043	0.579292	phosphatidylinositol-5-phosphate 4-kinase, type II, beta
216459_x_at	DDR1	0.001225	0.406411	0.579609	DDR1 antisense RNA 1 (head to head)
235409_at	MGA	-0.002753	0.408728	0.581649	MGA, MAX dimerization protein
202975_s_at	RHOBTB3	0.002283	0.410353	0.583013	Rho-related BTB domain containing 3
213543_at	SGCD	0.002345	0.411742	0.584363	sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
1553227_s_at	BRWD1	0.001222	0.41177	0.584373	bromodomain and WD repeat domain containing 1
1555609_a_at	ZMAT3	-0.001071	0.415681	0.587817	zinc finger, matrin-type 3
242463_x_at	ZNF600	-0.002228	0.420127	0.591854	zinc finger protein 600
211581_x_at	LST1	0.001543	0.421208	0.592736	leukocyte specific transcript 1
238688_at	TPM1	0.002519	0.421885	0.593368	tropomyosin 1 (alpha)
235057_at	ITCH	0.002024	0.423133	0.594671	itchy E3 ubiquitin protein ligase
230427_s_at	BAG5	-0.001909	0.426472	0.59756	BCL2-associated athanogene 5
235277_at	AMOTL1	-0.001556	0.428713	0.599424	angiomin like 1
223442_at	NICN1	0.001213	0.42874	0.599429	nicolin 1
229256_at	PGM2L1	0.002117	0.429918	0.600495	phosphoglucomutase 2-like 1
221818_at	INTS5	-0.000989	0.431757	0.602018	integrator complex subunit 5
206274_s_at	CROCC	0.001648	0.433478	0.603559	ciliary rootlet coiled-coil, rootletin
231927_at	ATF6	-0.00146	0.434533	0.60455	activating transcription factor 6
235410_at	NPHP3	0.002018	0.436664	0.606632	nephronophthisis 3 (adolescent)
208096_s_at	COL21A1	-0.001399	0.437116	0.607044	collagen, type XXI, alpha 1
211556_at	MAPRE2	0.000606	0.439096	0.608727	microtubule-associated protein, RP/EB family, member 2
224124_at	ZRANB3	-0.000883	0.439111	0.608732	zinc finger, RAN-binding domain containing 3
1555199_at	GOSR1	0.001053	0.441068	0.610687	golgi SNAP receptor complex member 1
221282_x_at	RUNX2	0.000901	0.442879	0.612294	runt-related transcription factor 2

214419_s_at	CYP2C9	0.000914	0.446398	0.615463	cytochrome P450, family 2, subfamily C, polypeptide 9
214988_s_at	SON	0.000724	0.447071	0.616143	SON DNA binding protein
243883_at	MMP15	0.001101	0.448062	0.617074	matrix metalloproteinase 15 (membrane-inserted)
1554533_at	C2	0.000679	0.449749	0.618586	complement component 2
202981_x_at	SIAH1	0.000745	0.450932	0.619621	siah E3 ubiquitin protein ligase 1
215810_x_at	DST	0.000933	0.451582	0.620186	dystonin
217001_x_at	HLA-DOA	0.001391	0.451739	0.62034	major histocompatibility complex, class II, DO alpha
225558_at	GIT2	-0.001535	0.452452	0.620904	G protein-coupled receptor kinase interacting ArfGAP 2
219744_at	FN3K	0.000922	0.45477	0.623031	fructosamine 3 kinase
201942_s_at	CPD	-0.002727	0.454933	0.62313	carboxypeptidase D
206506_s_at	SUPT3H	0.001455	0.456055	0.624284	suppressor of Ty 3 homolog (<i>S. cerevisiae</i>)
211504_x_at	ROCK2	0.001006	0.457171	0.625192	Rho-associated, coiled-coil containing protein kinase 2
221842_s_at	ZNF131	-0.001921	0.461774	0.629049	uncharacterized LOC100506639 /// zinc finger protein 131
51146_at	PIGV	0.001716	0.462371	0.629532	phosphatidylinositol glycan anchor biosynthesis, class V
225856_at	CLOCK	-0.001066	0.463013	0.630093	clock circadian regulator
213264_at	PCBP2	-0.001184	0.463132	0.630163	poly(rC) binding protein 2
217964_at	TTC19	-0.000971	0.463534	0.630408	tetratricopeptide repeat domain 19
223523_at	TMEM108	-0.001714	0.464059	0.630763	transmembrane protein 108
202682_s_at	USP4	0.001268	0.467151	0.633297	ubiquitin specific peptidase 4 (proto-oncogene)
232011_s_at	MAP1LC3A	-0.001838	0.469097	0.635021	microtubule-associated protein 1 light chain 3 alpha
229466_at	TRIM66	-0.001088	0.469615	0.635467	tripartite motif containing 66
233644_at	KATNAL2	-0.000907	0.478751	0.643217	katanin p60 subunit A-like 2
223674_s_at	CDC42SE1	-0.000953	0.478961	0.643393	CDC42 small effector 1
220246_at	CAMK1D	-0.001296	0.479165	0.643478	calcium/calmodulin-dependent protein kinase ID
217876_at	GTF3C5	-0.001268	0.479283	0.643552	general transcription factor IIIC, polypeptide 5, 63kDa
226135_at	UHRF1BP1	-0.001153	0.47926	0.643552	UHRF1 binding protein 1
216208_s_at	ATF6B	-0.00154	0.482636	0.6468	activating transcription factor 6 beta
214492_at	SGCD	0.000795	0.486721	0.650278	sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
1554910_at	PRKD3	-0.001162	0.488222	0.651491	protein kinase D3
235522_at	CLEC2D	-0.001956	0.489231	0.652344	C-type lectin domain family 2, member D
1564482_at	ATP5O	0.001008	0.494817	0.656941	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit
203168_at	ATF6B	-0.001342	0.49535	0.65744	activating transcription factor 6 beta
224159_x_at	TRIM4	0.001691	0.496742	0.65868	tripartite motif containing 4
206193_s_at	CDSN	0.000972	0.497516	0.659179	corneodesmosin
1558967_s_at	HCG18	-0.000946	0.500394	0.661694	HLA complex group 18 (non-protein coding)
1557303_at	NT5C	0.000973	0.500975	0.66222	5', 3'-nucleotidase, cytosolic
204417_at	GALC	-0.001295	0.502081	0.663187	galactosylceramidase

229600_s_at	CPD	0.000649	0.503201	0.664229	carboxypeptidase D
225153_at	GFM1	0.000984	0.503455	0.664408	G elongation factor, mitochondrial 1
221103_s_at	WDR52	0.001549	0.506238	0.666889	WD repeat domain 52
204084_s_at	CLN5	-0.001799	0.507454	0.667686	ceroid-lipofuscinosis, neuronal 5
227057_at	ARHGAP27	0.001381	0.508102	0.668163	Rho GTPase activating protein 27
231250_at	HOXB7	0.000594	0.509515	0.669184	homeobox B7
231250_at	HOXB7	0.000594	0.509515	0.669184	NULL
219238_at	PIGV	0.001353	0.509664	0.669331	phosphatidylinositol glycan anchor biosynthesis, class V
234818_at	TMEM108	-0.000827	0.510492	0.670023	transmembrane protein 108
218545_at	CCDC91	0.001577	0.517174	0.675582	coiled-coil domain containing 91
223747_x_at	WWOX	-0.001092	0.518356	0.676625	WW domain containing oxidoreductase
231816_s_at	UBE2Q1	0.001014	0.519954	0.677818	ubiquitin-conjugating enzyme E2Q family member 1
228315_at	ZMAT3	-0.001526	0.524381	0.681431	zinc finger, matrin-type 3
237679_at	TRIM66	-0.000613	0.526474	0.682965	tripartite motif containing 66
219628_at	ZMAT3	-0.000787	0.526642	0.683087	zinc finger, matrin-type 3
236235_at	ITCH	-0.002027	0.536052	0.690916	itchy E3 ubiquitin protein ligase
229717_at	AMIGO3	-0.000656	0.542085	0.695731	adhesion molecule with Ig-like domain 3 /// GDP-mannose pyrophosphorylase B
1557531_a_at	C10orf55	0.000482	0.547168	0.699864	chromosome 10 open reading frame 55
226470_at	GGT7	0.001253	0.547751	0.700346	gamma-glutamyltransferase 7
230173_at	TRIM4	-0.000785	0.550524	0.702536	tripartite motif containing 4
218967_s_at	PTER	-0.001958	0.551287	0.703077	phosphotriesterase related
201624_at	DARS	0.001519	0.557929	0.708554	aspartyl-tRNA synthetase
1556282_at	FGFR1OP2	0.000836	0.558453	0.708909	FGFR1 oncogene partner 2
221095_s_at	KCNE2	0.000811	0.560821	0.710825	potassium voltage-gated channel, Isk-related family, member 2
215666_at	HLA-DRB4	0.000547	0.564111	0.71349	major histocompatibility complex, class II, DR beta 4
209997_x_at	PCM1	-0.001226	0.564649	0.713832	pericentriolar material 1
216048_s_at	RHOBTB3	-0.001167	0.569931	0.71826	Rho-related BTB domain containing 3
226114_at	ZNF436	-0.001135	0.570342	0.718612	zinc finger protein 436
211010_s_at	NCR3	0.000772	0.57136	0.719256	natural cytotoxicity triggering receptor 3
242009_at	SLC6A4	-0.001104	0.571366	0.719256	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4
1558532_at	TPM1	-0.000507	0.573973	0.721358	tropomyosin 1 (alpha)
1552670_a_at	PPP1R3B	-0.001675	0.575485	0.722478	protein phosphatase 1, regulatory subunit 3B
1564684_at	BTN2A2	0.000583	0.57824	0.724655	butyrophilin, subfamily 2, member A2
213833_x_at	NOP16	-0.000694	0.584604	0.729541	NOP16 nucleolar protein
236859_at	RUNX2	-0.000464	0.58819	0.732638	runt-related transcription factor 2
241989_at	GRK4	-0.001419	0.588798	0.733015	G protein-coupled receptor kinase 4
223089_at	VEZT	0.001564	0.59262	0.736079	vezatin, adherens junctions transmembrane protein

208906_at	BSCL2	-0.000891	0.594209	0.737468	Berardinelli-Seip congenital lipodystrophy 2 (seipin) /// HNRNPUL2-BSCL2 readthrough
231236_at	ZFP57	0.000977	0.596489	0.738972	ZFP57 zinc finger protein
218795_at	ACP6	0.001148	0.597189	0.739487	acid phosphatase 6, lysophosphatidic
231914_at	NUDT14	-0.00122	0.600924	0.742222	nudix (nucleoside diphosphate linked moiety X)-type motif 14
1552758_at	HDAC9	0.000557	0.601297	0.742499	histone deacetylase 9
211234_x_at	ESR1	-0.000791	0.604248	0.744435	estrogen receptor 1
231399_at	RAB3IP	-0.000978	0.609062	0.747931	RAB3A interacting protein
217869_at	HSD17B12	0.000785	0.611159	0.749621	hydroxysteroid (17-beta) dehydrogenase 12
239615_at	SLC22A5	-0.000581	0.611513	0.749903	solute carrier family 22 (organic cation/carnitine transporter), member 5
205448_s_at	MAP3K12	0.000646	0.611906	0.750151	mitogen-activated protein kinase kinase kinase 12
234948_at	SLC27A5	-0.000811	0.618664	0.755353	solute carrier family 27 (fatty acid transporter), member 5
1555817_s_at	THSD4	0.000511	0.62013	0.756535	thrombospondin, type I, domain containing 4
1555745_a_at	LYZ	-0.002028	0.625264	0.760585	lysozyme
1554844_at	EYA3	0.000455	0.626972	0.761804	eyes absent homolog 3 (Drosophila)
219439_at	C1GALT1	-0.001074	0.627003	0.761826	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1
210979_at	ASAHI	0.000517	0.630871	0.764961	N-acylsphingosine amidohydrolase (acid ceramidase) 1
230793_at	LRRC16A	-0.001915	0.631106	0.765144	leucine rich repeat containing 16A
240602_at	HBS1L	0.000543	0.63146	0.765421	HBS1-like (S. cerevisiae)
1569448_at	PGM2L1	0.000712	0.631991	0.765711	phosphoglucomutase 2-like 1
234393_at	HDAC9	-0.000746	0.632482	0.766048	histone deacetylase 9
226857_at	ARHGEF19	-0.001052	0.634875	0.767603	Rho guanine nucleotide exchange factor (GEF) 19
211760_s_at	VAMP4	-0.001344	0.635661	0.768204	vesicle-associated membrane protein 4
214239_x_at	PCGF2	-0.000565	0.635768	0.768242	polycomb group ring finger 2
32836_at	AGPAT1	0.001287	0.636303	0.768632	1-acylglycerol-3-phosphate O-acyltransferase 1
205678_at	AP3B2	-0.00065	0.641355	0.772481	adaptor-related protein complex 3, beta 2 subunit
236858_s_at	RUNX2	0.000436	0.649211	0.778463	runt-related transcription factor 2
1564511_a_at	FSTL4	0.000715	0.64984	0.778958	folliculin-like 4
222565_s_at	PRKD3	-0.000833	0.650561	0.779399	protein kinase D3
240786_at	NOTCH4	-0.000577	0.650653	0.779458	notch 4
201151_s_at	MBNL1	-0.000965	0.652448	0.780531	muscleblind-like splicing regulator 1
213902_at	ASAHI	0.000862	0.65527	0.78252	N-acylsphingosine amidohydrolase (acid ceramidase) 1
1560136_at	ARL5C	-0.000524	0.657231	0.783936	ADP-ribosylation factor-like 5C
213517_at	PCBP2	0.001543	0.657632	0.784266	poly(rC) binding protein 2
235429_at	EIF3E	0.001231	0.657835	0.784418	eukaryotic translation initiation factor 3, subunit E
209111_at	RNF5	-0.000768	0.66252	0.787977	ring finger protein 5, E3 ubiquitin protein ligase
225579_at	PQLC3	0.00132	0.664318	0.789137	PQ loop repeat containing 3

234115_s_at	ZNRD1	0.000516	0.665686	0.790177	zinc ribbon domain containing 1
224369_s_at	FBXO38	0.000732	0.665876	0.790318	F-box protein 38
219077_s_at	WWOX	0.0012	0.666466	0.790572	WW domain containing oxidoreductase
1559496_at	PPA2	-0.001492	0.667282	0.791145	pyrophosphatase (inorganic) 2
231743_at	WNT3	-0.000778	0.668888	0.792159	wingless-type MMTV integration site family, member 3
214820_at	BRWD1	0.001055	0.670275	0.793162	bromodomain and WD repeat domain containing 1
227219_x_at	MAP1LC3A	0.00083	0.670494	0.793336	microtubule-associated protein 1 light chain 3 alpha
210695_s_at	WWOX	-0.00065	0.671736	0.794148	WW domain containing oxidoreductase
202985_s_at	BAG5	-0.000635	0.671945	0.794308	BCL2-associated athanogene 5
211233_x_at	ESR1	0.000675	0.671969	0.794308	estrogen receptor 1
225182_at	TMEM50B	-0.000927	0.671963	0.794308	transmembrane protein 50B
244835_at	C16orf5	-0.000671	0.673282	0.795361	chromosome 16 open reading frame 52
1554122_a_at	HSD17B12	-0.000689	0.674009	0.795894	hydroxysteroid (17-beta) dehydrogenase 12
223049_at	GRB2	-0.00049	0.677276	0.798423	growth factor receptor-bound protein 2
239101_at	ITCH	0.000737	0.679998	0.800458	itchy E3 ubiquitin protein ligase
230026_at	MRPL43	0.001917	0.687128	0.805741	mitochondrial ribosomal protein L43
209901_x_at	AIF1	-0.000673	0.69132	0.808944	allograft inflammatory factor 1
215870_s_at	PLA2G5	-0.000517	0.694057	0.810517	phospholipase A2, group V
37201_at	ITIH4	0.000579	0.694973	0.811187	inter-alpha-trypsin inhibitor heavy chain family, member 4
1558301_a_at	EFCAB5	0.000315	0.695245	0.811382	EF-hand calcium binding domain 5
211582_x_at	LST1	0.00076	0.701394	0.8156	leukocyte specific transcript 1
228121_at	TGFB2	0.000778	0.702343	0.816322	transforming growth factor, beta 2
203930_s_at	MAPT	-0.000371	0.704514	0.817715	microtubule-associated protein tau
202461_at	EIF2B2	0.000721	0.705611	0.818202	eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa
226107_at	C1GALT1	0.00097	0.706422	0.818835	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1
229407_at	SDK1	-0.000744	0.708038	0.820083	sidekick cell adhesion molecule 1
221128_at	ADAM19	-0.000622	0.710416	0.821897	ADAM metallopeptidase domain 19
211800_s_at	USP4	0.000467	0.711178	0.822551	ubiquitin specific peptidase 4 (proto-oncogene)
225450_at	AMOTL1	-0.000477	0.712108	0.823237	angiomin like 1
211662_s_at	VDAC2	-0.000419	0.715003	0.825369	voltage-dependent anion channel 2
244485_at	HLA-DPB1	0.000323	0.716655	0.826683	major histocompatibility complex, class II, DP beta 1
218441_s_at	RPAP1	0.000654	0.717753	0.827412	RNA polymerase II associated protein 1
237320_at	FAM71F2	-0.000483	0.718359	0.827803	family with sequence similarity 71, member F2
219251_s_at	WDR60	0.000617	0.722753	0.830682	WD repeat domain 60
210701_at	CFDP1	0.001279	0.724966	0.832214	craniofacial development protein 1
235164_at	ZNF25	0.000745	0.729288	0.835264	zinc finger protein 25
240337_at	RHOA	0.000328	0.729739	0.835606	ras homolog family member A

228935_at	SLC4A8	0.000481	0.730051	0.835892	solute carrier family 4, sodium bicarbonate cotransporter, member 8
233500_x_at	CLEC2D	-0.000504	0.732483	0.837485	C-type lectin domain family 2, member D
217066_s_at	DMPK	-0.000714	0.733951	0.838531	dystrophia myotonica-protein kinase
220903_at	GFM1	0.000298	0.742295	0.844202	G elongation factor, mitochondrial 1
213263_s_at	PCBP2	0.00061	0.744108	0.845518	poly(rC) binding protein 2
215075_s_at	GRB2	0.000462	0.749767	0.849131	growth factor receptor-bound protein 2
224332_s_at	MRPL43	-0.00072	0.755607	0.852989	mitochondrial ribosomal protein L43
207591_s_at	ARID1A	-0.000547	0.757079	0.853911	AT rich interactive domain 1A (SWI-like)
36552_at	C2CD3	0.000467	0.75941	0.855286	C2 calcium-dependent domain containing 3
234323_at	THSD4	-0.000354	0.759757	0.855466	thrombospondin, type I, domain containing 4
221455_s_at	WNT3	-0.000427	0.76171	0.856941	wingless-type MMTV integration site family, member 3
1557620_a_at	CCDC38	0.000414	0.765554	0.859678	coiled-coil domain containing 38
222653_at	PNPO	0.00042	0.768643	0.861683	pyridoxamine 5'-phosphate oxidase
218740_s_at	CDK5RAP3	-0.000561	0.768679	0.861696	CDK5 regulatory subunit associated protein 3
214840_at	TOM1L2	0.000503	0.768734	0.861723	target of myb1-like 2 (chicken)
204879_at	PDPN	0.00063	0.771453	0.863302	podoplanin
224911_s_at	DCBLD2	-0.000493	0.776878	0.867066	discoidin, CUB and LCCL domain containing 2
226062_x_at	FAM63A	-0.000989	0.77735	0.867433	family with sequence similarity 63, member A
242549_at	PRKD3	0.00081	0.77783	0.867738	protein kinase D3
233165_at	NCKIPSD	-0.000471	0.781467	0.870174	NCK interacting protein with SH3 domain
237776_at	ZADH2	-0.000366	0.782543	0.870815	zinc binding alcohol dehydrogenase domain containing 2
206313_at	HLA-DOA	0.000402	0.783772	0.87159	major histocompatibility complex, class II, DO alpha
224686_x_at	LRRC37A	0.000531	0.788972	0.875115	leucine rich repeat containing 37, member A2
202501_at	MAPRE2	0.000414	0.80193	0.883872	microtubule-associated protein, RP/EB family, member 2
235432_at	NPHP3	-0.000583	0.803165	0.884564	nephronophthisis 3 (adolescent)
230175_s_at	DCBLD2	0.001408	0.804789	0.885611	discoidin, CUB and LCCL domain containing 2
53968_at	INTS5	-0.000394	0.805378	0.885888	integrator complex subunit 5
228185_at	ZNF25	-0.000618	0.806929	0.886954	zinc finger protein 25
223471_at	RAB3IP	0.000546	0.807397	0.88725	RAB3A interacting protein
233557_s_at	MON1B	0.000488	0.808888	0.888093	MON1 homolog B (yeast)
209744_x_at	ITCH	0.000404	0.812002	0.890042	itchy E3 ubiquitin protein ligase
214118_x_at	PCM1	-0.000325	0.812335	0.890247	pericentriolar material 1
238853_at	RAB3IP	0.000457	0.813669	0.89113	RAB3A interacting protein
1570571_at	CCDC91	0.000749	0.817332	0.893503	coiled-coil domain containing 91
209743_s_at	ITCH	0.000494	0.817799	0.893808	itchy E3 ubiquitin protein ligase
238997_at	PSORS1C3	0.000222	0.819799	0.894982	psoriasis susceptibility 1 candidate 3 (non-protein coding)
1566721_at	SVEP1	0.000278	0.821496	0.896101	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1

219093_at	PID1	0.000608	0.822207	0.896555	phosphotyrosine interaction domain containing 1
214622_at	CYP21A2	-0.000251	0.822836	0.896891	cytochrome P450, family 21, subfamily A, polypeptide 2
203052_at	C2	0.000349	0.823993	0.897421	complement component 2
236972_at	TRIM63	-0.000292	0.827079	0.899499	tripartite motif containing 63, E3 ubiquitin protein ligase
56748_at	TRIM10	0.000246	0.827297	0.899665	tripartite motif containing 10
206379_at	EYA3	-0.000268	0.82976	0.901036	eyes absent homolog 3 (Drosophila)
239704_at	RNF144B	0.000348	0.831779	0.902344	ring finger protein 144B
222187_x_at	G3BP1	0.000442	0.833379	0.903279	GTPase activating protein (SH3 domain) binding protein 1
229008_at	WDR60	0.000286	0.835139	0.904312	WD repeat domain 60
204784_s_at	MLF1	0.000633	0.83965	0.907275	myeloid leukemia factor 1
201967_at	RBM6	0.00034	0.84238	0.908999	RNA binding motif protein 6
226707_at	NAPRT1	-0.00058	0.850124	0.91373	nicotinate phosphoribosyltransferase domain containing 1
1565910_at	FSTL4	-0.000184	0.850994	0.91427	follistatin-like 4
243142_at	FGD6	0.000164	0.854621	0.916474	FYVE, RhoGEF and PH domain containing 6
202174_s_at	PCM1	0.000216	0.856013	0.917462	pericentriolar material 1
215663_at	MBNL1	-0.000131	0.860459	0.919972	muscleblind-like splicing regulator 1
208233_at	PDPN	0.000123	0.860519	0.919984	podoplanin
226826_at	LSM11	-0.000431	0.86231	0.921059	LSM11, U7 small nuclear RNA associated
232288_at	PDXDC2	-0.000228	0.86655	0.923704	
202702_at	TRIM26	0.000256	0.869753	0.925278	tripartite motif containing 26
230934_at	STK32C	0.000219	0.870868	0.925838	serine/threonine kinase 32C
205608_s_at	ANGPT1	0.000383	0.870977	0.925908	angiotensinogen 1
225446_at	BRWD1	0.00027	0.877217	0.929853	bromodomain and WD repeat domain containing 1
244092_at	ZRANB3	0.000221	0.88712	0.935713	zinc finger, RAN-binding domain containing 3
223099_s_at	LONP2	-0.00022	0.899086	0.942975	lon peptidase 2, peroxisomal
234813_at	TMEM108	0.000155	0.902126	0.94472	transmembrane protein 108
205746_s_at	ADAM17	0.000267	0.903507	0.945403	ADAM metalloproteinase domain 17
239457_at	ATP8B3	-0.000203	0.903619	0.945449	ATPase, aminophospholipid transporter, class I, type 8B, member 3
214181_x_at	LST1	0.000206	0.905283	0.946483	leukocyte specific transcript 1
205334_at	S100A1	-0.000223	0.905601	0.946682	S100 calcium binding protein A1
222710_at	AMIGO3	-0.000117	0.905758	0.946751	adhesion molecule with Ig-like domain 3 /// GDP-mannose pyrophosphorylase B
233245_at	UHRF1BP1	-0.000193	0.906559	0.947315	UHRF1 binding protein 1
228602_at	SGCD	-0.000415	0.906807	0.947388	sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
225584_at	HCG18	-0.000292	0.90708	0.947493	HLA complex group 18 (non-protein coding)
201188_s_at	ITPR3	0.000299	0.907963	0.948047	inositol 1,4,5-trisphosphate receptor, type 3
217411_s_at	RREB1	-0.000215	0.912164	0.950283	ras responsive element binding protein 1
210763_x_at	NCR3	0.000121	0.912392	0.950463	natural cytotoxicity triggering receptor 3

231016_s_at	ARNT	0.00036	0.913121	0.95077	aryl hydrocarbon receptor nuclear translocator
201230_s_at	ARIH2	0.000154	0.921511	0.956122	ariadne homolog 2 (Drosophila)
223262_s_at	FGFR1OP2	0.000153	0.927196	0.959505	FGFR1 oncogene partner 2
213975_s_at	LYZ	-0.000609	0.929875	0.961094	lysozyme
226469_s_at	GGT7	-0.000162	0.932268	0.962571	gamma-glutamyltransferase 7
211583_x_at	NCR3	0.000101	0.933412	0.963129	natural cytotoxicity triggering receptor 3
211507_s_at	MTMR3	-0.000152	0.934398	0.963564	myotubularin related protein 3
238900_at	HLA-DRB5	7.95E-05	0.936774	0.964759	
238900_at	HLA-DRB3	7.95E-05	0.936774	0.964759	
238900_at	HLA-DRB1	7.95E-05	0.936774	0.964759	
218511_s_at	PNPO	0.000124	0.937525	0.965188	pyridoxamine 5'-phosphate oxidase
202984_s_at	BAG5	-0.000269	0.938969	0.966056	BCL2-associated athanogene 5
217891_at	C16orf5	-0.000192	0.941556	0.967613	chromosome 16 open reading frame 58
201941_at	CPD	0.000148	0.943203	0.968436	carboxypeptidase D
221002_s_at	TSPAN14	-0.000146	0.943487	0.968499	tetraspanin 14
226113_at	ZNF436	0.00014	0.944134	0.968987	zinc finger protein 436
211627_x_at	ESR1	6.44E-05	0.945229	0.969515	estrogen receptor 1
215633_x_at	LST1	-0.000122	0.946156	0.970091	leukocyte specific transcript 1
1554704_at	ATP8B3	7.73E-05	0.946998	0.970531	ATPase, aminophospholipid transporter, class I, type 8B, member 3
215055_at	B3GNTL1	9.04E-05	0.947562	0.970805	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like 1
203952_at	ATF6	-8.36E-05	0.948439	0.971165	activating transcription factor 6
242324_x_at	CCBE1	-0.000138	0.952696	0.973697	collagen and calcium binding EGF domains 1
232036_at	KLC1	-6.59E-05	0.952896	0.973752	kinesin light chain 1
244747_at	NPNT	-8.36E-05	0.955454	0.975276	nephronectin
215536_at	HLA-DQB2	-7.15E-05	0.961751	0.978812	major histocompatibility complex, class II, DQ beta 2
204577_s_at	CLUAP1	8.60E-05	0.961792	0.978822	clusterin associated protein 1
204980_at	CLOCK	-7.50E-05	0.962934	0.979578	clock circadian regulator
1562991_at	ZNF292	3.61E-05	0.964192	0.980347	zinc finger protein 292
242261_at	IREB2	-0.000138	0.967366	0.982205	iron-responsive element binding protein 2
212152_x_at	ARID1A	-8.11E-05	0.968023	0.982439	AT rich interactive domain 1A (SWI-like)
208393_s_at	RAD50	9.06E-05	0.969328	0.983156	RAD50 homolog (<i>S. cerevisiae</i>)
212717_at	PLEKHM1	-4.76E-05	0.971096	0.983909	pleckstrin homology domain containing, family M (with RUN domain) member 1
220567_at	IKZF2	-4.05E-05	0.971546	0.984182	IKAROS family zinc finger 2 (Helios)
233657_at	OPN5	-3.90E-05	0.973307	0.985091	opsin 5
205309_at	SMPDL3B	-6.30E-05	0.977664	0.987344	sphingomyelin phosphodiesterase, acid-like 3B
201642_at	IFNGR2	-3.28E-05	0.977885	0.987422	interferon gamma receptor 2 (interferon gamma transducer 1)
213538_at	SON	4.51E-05	0.978601	0.987907	SON DNA binding protein

226105_at	C1GALT1	-4.72E-05	0.979465	0.988361	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1
205032_at	ITGA2	-6.14E-05	0.979704	0.988472	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
213020_at	GOSR1	-4.13E-05	0.980421	0.988909	golgi SNAP receptor complex member 1
241811_x_at	SLC6A4	-2.06E-05	0.983308	0.990464	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4
223314_at	TSPAN14	3.92E-05	0.985344	0.991742	tetraspanin 14
209309_at	AZGP1	1.50E-05	0.98956	0.994233	alpha-2-glycoprotein 1, zinc-binding
207022_s_at	LDHC	-1.94E-05	0.9903	0.994684	lactate dehydrogenase C
215552_s_at	ESR1	-1.11E-05	0.994078	0.996661	estrogen receptor 1
228432_at	RAB3IP	7.69E-06	0.994759	0.996913	RAB3A interacting protein
204576_s_at	CLUAP1	1.04E-05	0.995378	0.997262	clusterin associated protein 1
212352_s_at	TMED10	4.81E-06	0.995957	0.997532	transmembrane emp24-like trafficking protein 10 (yeast)
227932_at	ARIH2	-7.16E-06	0.997204	0.998372	ariadne homolog 2 (Drosophila)
204779_s_at	HOXB7	1.93E-06	0.999228	0.999557	homeobox B7
204779_s_at	HOXB7	1.93E-06	0.999228	0.999557	NULL
210540_s_at	B4GALT4	-1.24E-06	0.999437	0.999675	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4

Supplementary Table 10: Probesets regression on lung function in individuals from the eQTL study

Table shows results of regression of eSNP-regulated probesets versus FEV₁ and FEV₁/FVC in 727 individuals from the eQTL study. Probeset ID: probeset tested for association. Gene Symbol: The gene the probeset maps to. Expected direction: the direction of mRNA and lung function inferred from the eSNP's direction of effect on lung function from the GWAS, and its effect on mRNA expression from the eQTL study. Expected vs. observed direction of effect: Whether the observed direction of effect (identified by testing probeset association with lung function measures in the eQTL study) is concordant with the expected one. Concordant means the effect is in the same direction and Discordant means the effect is in the opposite direction. FEV₁ Beta: the effect estimate of probeset regression on FEV₁ in individuals from the eQTL study. FEV₁ SE: the standard error of probeset regression on FEV₁ in individuals from the eQTL study. FEV₁ P value: the P value for probeset regression on FEV₁ in individuals from the eQTL study. FEV₁ FDR: the False Discovery Rate (FDR) of associations with FEV₁. FEV₁/FVC Beta: the effect estimate of probeset regression on FEV₁/FVC in individuals from the eQTL study. FEV₁/FVC SE: the standard error of probeset regression on FEV₁/FVC in individuals from the eQTL study. FEV₁/FVC P value: the P value for probeset regression on FEV₁/FVC in individuals from the eQTL study. FEV₁/FVC FDR: the False Discovery Rate (FDR) of associations with FEV₁/FVC

Probesets regression on lung function in individuals from the eQTL study											
Probeset ID	Gene Symbol	expected Direction	Expected vs. Observed Direction	FEV₁ Beta	FEV₁ SE	FEV₁ P.value	FEV₁ FDR	FEV₁/FVC Beta	FEV₁/FVC SE	FEV₁/FVC P.value	FEV₁/FVC FDR
100121628_TGI_at	PSORS1C1	negative	Concordant	-1.03144	0.535445	0.054064	0.292957	-11.9985	9.7679	0.219312	0.623069
100121628_TGI_at	PSORS1C1	positive	Discordant	-1.03144	0.535445	0.054064	0.292957	-11.9985	9.7679	0.219312	0.623069
100121683_TGI_at		negative	Concordant	-1.07881	1.211022	0.373021	0.695504	-34.8638	21.92013	0.111724	0.507597
100121711_TGI_at	FAM177A1	negative	Concordant	-0.16286	0.726381	0.822594	0.942561	-11.3558	13.12554	0.386946	0.739358
100121858_TGI_at	C6orf138	positive	Concordant	-0.10952	0.753989	0.884509	0.965743	7.067203	13.87676	0.610553	0.860732
100121877_TGI_at	C6orf173	negative	Concordant	-0.14568	0.102001	0.153219	0.4583	-3.90328	1.874375	0.037302	0.342664
100122090_TGI_at	FZD7	positive	Discordant	0.0347	0.196162	0.859591	0.95732	-4.8359	3.551078	0.173257	0.56775
100122178_TGI_at	C4BPA	negative	Discordant	-0.00246	0.004387	0.574888	0.821133	-0.06578	0.080327	0.412858	0.761037
100122211_TGI_at	MON1B	positive	Discordant	-0.15835	0.154787	0.306311	0.622924	-2.15976	2.828895	0.445186	0.773355
100122367_TGI_at	ARHGEF19	negative	Discordant	0.449859	0.343183	0.189911	0.501991	6.284997	6.309703	0.319209	0.671733
100122720_TGI_at		positive	Discordant	-0.56348	0.352175	0.109598	0.417621	-8.17187	6.465436	0.206255	0.608241
100122765_TGI_at	THEX1	positive	Discordant	-0.04712	0.162786	0.772249	0.923606	-1.5403	2.936312	0.599882	0.860732
100122767_TGI_at	C18orf10	negative	Discordant	0.248803	0.136316	0.067972	0.322578	0.782616	2.504975	0.754718	0.930374
100122809_TGI_at	ROM1	negative	Concordant	-1.5379	0.416394	0.000221	0.02741	-15.5544	7.808124	0.046363	0.38285
100122819_TGI_at	OR13C3	positive	Discordant	0.482221	2.571653	0.851258	0.953541	-6.57446	47.00315	0.888761	0.97411
100122866_TGI_at	EYA3	negative	Concordant	-0.04819	0.116804	0.679953	0.883837	-0.91241	2.145789	0.670685	0.89459
100122963_TGI_at	PDXDC2	positive	Discordant	-0.00847	0.01247	0.497107	0.774427	0.377056	0.229798	0.100836	0.486596
100122981_TGI_at	RUNX2	positive	Concordant	0.271839	0.305728	0.373921	0.695685	11.84435	5.620383	0.035084	0.334258
100122984_TGI_at	NR3C1	negative	Discordant	0.129479	0.034719	0.000192	0.02741	1.69345	0.633934	0.007555	0.192653
100123073_TGI_at	SLC22A5	negative	Discordant	0.079958	0.118357	0.499313	0.774427	1.208121	2.152708	0.574654	0.847029

100123120_TGI_at		positive	Discordant	-0.52737	0.622251	0.396706	0.704177	10.33162	11.37578	0.363766	0.726694
100123137_TGI_at	PIP4K2B	positive	Concordant	0.13816	0.052084	0.007987	0.125898	0.947781	0.961355	0.324192	0.673202
100123290_TGI_at	CYP2C9	negative	Discordant	-2.98077	3.601892	0.407922	0.711479	14.22858	65.14896	0.827117	0.957068
100123425_TGI_at	MAPT	negative	Concordant	-0.71372	0.546728	0.191744	0.503948	-8.9073	9.839724	0.365339	0.728158
100123483_TGI_at	HCG4P6	negative	Concordant	-1.2919	1.440374	0.369762	0.692406	-51.549	25.89688	0.04653	0.38285
100123483_TGI_at	HCG4P6	negative	Concordant	-1.2919	1.440374	0.369762	0.692406	-51.549	25.89688	0.04653	0.38285
100123483_TGI_at	HCG4P6	negative	Concordant	-1.2919	1.440374	0.369762	0.692406	-51.549	25.89688	0.04653	0.38285
100123483_TGI_at	HCG4P6	negative	Concordant	-1.2919	1.440374	0.369762	0.692406	-51.549	25.89688	0.04653	0.38285
100123512_TGI_at	C1QL3	negative	Discordant	0.420478	0.647334	0.515981	0.780157	18.8838	11.58717	0.103162	0.486596
100123597_TGI_at		negative	Discordant	5.010515	2.224378	0.024288	0.203166	47.56727	41.38723	0.250423	0.638503
100123606_TGI_at	MLF1	negative	Concordant	-0.03832	0.086423	0.657437	0.875236	0.097852	1.560399	0.949998	0.994854
100123769_TGI_at		negative	Discordant	-0.42794	0.392688	0.275819	0.587555	2.173034	7.148941	0.761154	0.934186
100123880_TGI_at		positive	Discordant	-0.15924	0.527479	0.762738	0.923606	-2.93051	9.555288	0.759079	0.933506
100123896_TGI_at		negative	Discordant	0.148003	0.064386	0.021522	0.201777	0.936677	1.162957	0.420574	0.764753
100123914_TGI_at		negative	Discordant	0.083569	0.077868	0.28318	0.595914	-0.15564	1.416399	0.912503	0.980193
100123986_TGI_at	SYTL2	positive	Concordant	0.017916	0.115384	0.876604	0.965712	1.313888	2.083808	0.528353	0.825639
100124110_TGI_at	CROCCL1	negative	Concordant	-0.02834	0.033294	0.394652	0.704177	-0.1475	0.603026	0.80677	0.950782
100124148_TGI_at		negative	Discordant	0.102172	0.09774	0.295865	0.616622	2.291673	1.776707	0.197105	0.598854
100124184_TGI_at		negative	Concordant	0.251383	0.386746	0.515697	0.780157	-5.39879	7.043287	0.443369	0.772392
100124184_TGI_at		negative	Discordant	0.251383	0.386746	0.515697	0.780157	-5.39879	7.043287	0.443369	0.772392
100124216_TGI_at	PTER	positive	Concordant	-0.00013	0.15285	0.999312	0.99936	-4.08516	2.736186	0.135434	0.536498
100124251_TGI_at	CNGA1	negative	Concordant	-1.49789	1.164968	0.198521	0.50837	-18.853	21.0186	0.369736	0.730277
100124262_TGI_at		positive	Concordant	0.185246	0.160435	0.248237	0.553268	0.389141	2.935902	0.894553	0.975569
100124262_TGI_at		positive	Concordant	0.185246	0.160435	0.248237	0.553268	0.389141	2.935902	0.894553	0.975569
100124297_TGI_at	RABAC1	negative	Concordant	-0.10476	0.055003	0.056832	0.304155	-1.13093	0.999528	0.257859	0.640563
100124316_TGI_at	PQLC3	positive	Concordant	0.067251	0.041046	0.101336	0.403443	0.597433	0.74809	0.424516	0.764753
100124335_TGI_at		negative	Concordant	-0.01774	0.22635	0.937527	0.981686	-2.8292	4.076862	0.487704	0.802352
100124395_TGI_at	QSOX2	positive	Discordant	-0.10989	0.180267	0.542133	0.794833	4.658527	3.244846	0.151096	0.553455
100124485_TGI_at	DCXR	positive	Discordant	-0.06385	0.046618	0.170815	0.470154	-1.87421	0.855329	0.028436	0.301895
100124630_TGI_at	CCDC91	positive	Concordant	-0.03416	0.114847	0.766164	0.923606	1.344282	2.070936	0.516262	0.820274
100124649_TGI_at		negative	Concordant	-3.71212	3.660262	0.310502	0.62316	-62.4944	66.1245	0.344607	0.698071
100124708_TGI_at	AMT	positive	Concordant	0.167924	0.090239	0.062761	0.31384	2.800188	1.66758	0.093115	0.469363
100124708_TGI_at	AMT	positive	Concordant	0.167924	0.090239	0.062761	0.31384	2.800188	1.66758	0.093115	0.469363
100124857_TGI_at	ITPKA	positive	Concordant	-0.88786	1.163244	0.445307	0.733564	-0.87072	21.00837	0.96694	0.999082
100124865_TGI_at	RBM6	positive	Concordant	0.083308	0.06751	0.217201	0.523093	2.332627	1.231266	0.058159	0.413224
100125007_TGI_at	C6orf12	negative	Concordant	-0.17012	0.464519	0.714187	0.899455	11.81391	8.448786	0.162024	0.560509
100125007_TGI_at	C6orf12	negative	Concordant	-0.17012	0.464519	0.714187	0.899455	11.81391	8.448786	0.162024	0.560509

100125007_TGI_at	C6orf12	negative	Discordant	-0.17012	0.464519	0.714187	0.899455	11.81391	8.448786	0.162024	0.560509
100125007_TGI_at	C6orf12	negative	Discordant	-0.17012	0.464519	0.714187	0.899455	11.81391	8.448786	0.162024	0.560509
100125191_TGI_at	HLA-DQA2	negative	Discordant	1.116749	0.520928	0.032051	0.234777	16.09414	9.486978	0.089802	0.460698
100125275_TGI_at	HLA-DRB1	negative	Concordant	-0.00185	0.013128	0.888113	0.965743	-0.15769	0.236136	0.504273	0.814654
100125275_TGI_at	HLA-DRB1	negative	Concordant	-0.00185	0.013128	0.888113	0.965743	-0.15769	0.236136	0.504273	0.814654
100125275_TGI_at	HLA-DRB1	positive	Discordant	-0.00185	0.013128	0.888113	0.965743	-0.15769	0.236136	0.504273	0.814654
100125319_TGI_at	ZSWIM7	negative	Discordant	0.203902	0.104932	0.051994	0.285485	2.023544	1.899727	0.286796	0.64733
100125489_TGI_at	SFTA2	negative	Discordant	0.005885	0.012117	0.627216	0.852345	0.04712	0.22032	0.830649	0.957068
100125489_TGI_at	SFTA2	negative	Discordant	0.005885	0.012117	0.627216	0.852345	0.04712	0.22032	0.830649	0.957068
100125493_TGI_at	ZNF132	negative	Concordant	0.036263	0.317806	0.909156	0.971934	-6.09989	5.722658	0.28646	0.64733
100125530_TGI_at	CTSS	positive	Concordant	-0.00383	0.012983	0.767931	0.923606	-0.41316	0.234777	0.078438	0.447721
100125670_TGI_at	C9orf95	positive	Concordant	0.009874	0.068232	0.884938	0.965743	0.021014	1.239417	0.986472	0.999082
100125704_TGI_at	CYFIP2	positive	Discordant	-0.03238	0.106255	0.760542	0.923606	-2.30508	1.907175	0.226802	0.623069
100125842_TGI_at	NCR3	negative	Concordant	-0.22024	0.287299	0.443318	0.733269	-5.97655	5.165976	0.24731	0.638503
100125842_TGI_at	NCR3	negative	Concordant	-0.22024	0.287299	0.443318	0.733269	-5.97655	5.165976	0.24731	0.638503
100125900_TGI_at	NLRC3	positive	Concordant	0.025086	0.069174	0.716867	0.899455	-0.11409	1.252571	0.927425	0.989025
100125980_TGI_at	YEATS4	positive	Concordant	0.193792	0.236038	0.411633	0.711479	1.079233	4.275737	0.800725	0.9484
100126013_TGI_at	WDR52	negative	Concordant	-0.02515	0.123008	0.837972	0.949702	-0.82958	2.206869	0.706985	0.915742
100126116_TGI_at	GBP3	negative	Discordant	-0.03155	0.030858	0.306649	0.622924	0.109219	0.556983	0.84454	0.958398
100126124_TGI_at	S100A1	positive	Discordant	-0.22779	0.290916	0.433612	0.724358	-3.13325	5.192869	0.546259	0.83676
100126143_TGI_at	APOM	positive	Discordant	0.667582	0.39942	0.094647	0.39476	-5.90336	7.2218	0.413679	0.761037
100126143_TGI_at	APOM	positive	Discordant	0.667582	0.39942	0.094647	0.39476	-5.90336	7.2218	0.413679	0.761037
100126143_TGI_at	APOM	positive	Concordant	0.667582	0.39942	0.094647	0.39476	-5.90336	7.2218	0.413679	0.761037
100126143_TGI_at	APOM	positive	Concordant	0.667582	0.39942	0.094647	0.39476	-5.90336	7.2218	0.413679	0.761037
100126167_TGI_at		positive	Discordant	0.104423	0.736698	0.887281	0.965743	-3.42737	13.28974	0.796487	0.9484
100126192_TGI_at	TRIM26	negative	Concordant	-0.05286	0.140732	0.707182	0.896688	-3.76134	2.579485	0.144792	0.549177
100126219_TGI_at		positive	Concordant	0.74625	0.268332	0.005418	0.099945	8.505875	4.867585	0.080559	0.447721
100126253_TGI_at	TH1L	negative	Concordant	-0.05495	0.085237	0.519136	0.781408	-0.21101	1.548772	0.891628	0.974832
100126288_TGI_at	ADAM17	positive	Concordant	0.004616	0.071101	0.948239	0.984579	0.623071	1.285298	0.627841	0.870942
100126558_TGI_at	RHOBTB3	positive	Concordant	-0.03421	0.061793	0.579886	0.82238	1.733299	1.122007	0.12239	0.516945
100126573_TGI_at	TRIM4	negative	Concordant	-0.16585	0.112963	0.14206	0.445546	-2.98396	2.062116	0.147887	0.550292
100126588_TGI_at	BAG5	negative	Concordant	-0.08514	0.066738	0.202064	0.509426	-0.06626	1.213594	0.956459	0.995701
100126588_TGI_at	BAG5	positive	Discordant	-0.08514	0.066738	0.202064	0.509426	-0.06626	1.213594	0.956459	0.995701
100126591_TGI_at	HLA-DOA	positive	Concordant	0.008631	0.011276	0.444021	0.733269	-0.13078	0.204567	0.522634	0.821114
100126665_TGI_at	AGPAT1	positive	Discordant	-0.06454	0.072179	0.371214	0.693627	-1.0562	1.298329	0.415926	0.761788
100126665_TGI_at	AGPAT1	positive	Discordant	-0.06454	0.072179	0.371214	0.693627	-1.0562	1.298329	0.415926	0.761788
100126665_TGI_at	AGPAT1	positive	Discordant	-0.06454	0.072179	0.371214	0.693627	-1.0562	1.298329	0.415926	0.761788

100126667_TGI_at	KIAA0317	negative	Discordant	0.176307	0.141013	0.211191	0.516353	3.244058	2.565758	0.206099	0.608241
100126781_TGI_at	LY6G5C	positive	Discordant	-0.27725	0.243955	0.255752	0.564215	-2.04016	4.520176	0.651741	0.887779
100126781_TGI_at	LY6G5C	positive	Discordant	-0.27725	0.243955	0.255752	0.564215	-2.04016	4.520176	0.651741	0.887779
100127159_TGI_at	HLA-DRB4	positive	Concordant	0.001887	0.002714	0.487008	0.765308	0.052041	0.048923	0.287453	0.64733
100127159_TGI_at	HLA-DRB4	negative	Discordant	0.001887	0.002714	0.487008	0.765308	0.052041	0.048923	0.287453	0.64733
100127382_TGI_at	TMEM50B	negative	Discordant	0.057924	0.042586	0.173781	0.475293	1.56554	0.772497	0.042704	0.366575
100127501_TGI_at	MEST	positive	Discordant	-0.05271	0.026523	0.046904	0.269292	-0.53347	0.488648	0.274949	0.64407
100127522_TGI_at	RPS19	negative	Concordant	-0.02683	0.014222	0.059218	0.307435	-0.74948	0.257563	0.003615	0.125383
100127527_TGI_at		negative	Discordant	-0.14087	0.625791	0.821891	0.942561	-2.36257	11.34186	0.834991	0.957588
100127553_TGI_at	ZNF584	negative	Concordant	-0.37426	0.187119	0.045487	0.269292	-1.76922	3.407684	0.603631	0.860732
100127556_TGI_at	TRIM38	positive	Discordant	-0.1607	0.057079	0.004873	0.09827	-3.85458	1.034888	0.000196	0.024226
100127556_TGI_at	TRIM38	positive	Discordant	-0.1607	0.057079	0.004873	0.09827	-3.85458	1.034888	0.000196	0.024226
100127649_TGI_at	ZNF436	positive	Concordant	0.398921	0.231404	0.084724	0.373119	5.365446	4.218303	0.203393	0.606239
100127661_TGI_at	EIF2B2	negative	Concordant	-0.22619	0.161503	0.161347	0.461656	-4.51738	2.965764	0.127715	0.529803
100127780_TGI_at		positive	Discordant	-0.09283	0.081496	0.254677	0.563278	-0.49246	1.460957	0.736058	0.92225
100127813_TGI_at		negative	Concordant	-2.17753	2.134918	0.307748	0.622924	-38.0767	38.429	0.321767	0.67176
100128165_TGI_at	C21orf82	negative	Concordant	-3.0377	0.862929	0.000431	0.033986	-51.7732	15.71048	0.000983	0.065533
100128225_TGI_at	FGFBP3	negative	Discordant	0.625554	0.315895	0.047674	0.269292	7.336234	5.693291	0.197546	0.598854
100128463_TGI_at		negative	Discordant	0.561017	0.194516	0.003925	0.091961	8.201414	3.545683	0.020719	0.273703
100128577_TGI_at	ACP6	positive	Discordant	-0.01465	0.145561	0.919839	0.972561	-1.59375	2.638111	0.545761	0.83676
100128579_TGI_at	UHRF1BP1	positive	Discordant	0.076209	0.074462	0.306086	0.622924	0.214732	1.348828	0.873512	0.966864
100128819_TGI_at	MPP6	positive	Discordant	-1.81321	0.955647	0.05778	0.306533	-4.61047	17.29752	0.789824	0.947133
100128894_TGI_at	HCG27	negative	Concordant	-0.30271	0.371719	0.415441	0.713242	2.282034	6.666022	0.732096	0.92225
100128894_TGI_at	HCG27	positive	Concordant	-0.30271	0.371719	0.415441	0.713242	2.282034	6.666022	0.732096	0.92225
100129019_TGI_at	TYRO3	positive	Discordant	-0.3323	0.220922	0.13254	0.440276	-0.74935	4.094867	0.8548	0.963575
100129037_TGI_at	TAP2	negative	Concordant	0.68505	0.494496	0.165946	0.464112	-4.58976	8.934076	0.607436	0.860732
100129037_TGI_at	TAP2	negative	Discordant	0.68505	0.494496	0.165946	0.464112	-4.58976	8.934076	0.607436	0.860732
100129059_TGI_at	ANXA6	positive	Discordant	-0.62689	0.280742	0.02555	0.20322	-14.072	5.212794	0.006944	0.188142
100129207_TGI_at	FMO2	positive	Discordant	0.009171	0.014142	0.516683	0.780157	-0.09015	0.255749	0.72447	0.921701
100129209_TGI_at		negative	Discordant	-0.16951	0.13155	0.197554	0.508246	0.709245	2.392495	0.76689	0.93779
100129234_TGI_at	CCBE1	positive	Concordant	0.418042	0.178174	0.018963	0.201777	5.901351	3.253251	0.06968	0.427671
100129239_TGI_at	IREB2	negative	Concordant	0.525664	0.438226	0.230323	0.532507	-3.92444	7.915373	0.620035	0.865125
100129239_TGI_at	IREB2	negative	Discordant	0.525664	0.438226	0.230323	0.532507	-3.92444	7.915373	0.620035	0.865125
100129276_TGI_at		negative	Discordant	2.232726	0.654389	0.000645	0.034954	18.38725	11.9354	0.123423	0.516945
100129279_TGI_at	HCG22	positive	Concordant	0.348495	1.808092	0.847161	0.952951	-27.9018	33.03407	0.398313	0.74587
100129279_TGI_at	HCG22	negative	Concordant	0.348495	1.808092	0.847161	0.952951	-27.9018	33.03407	0.398313	0.74587
100129291_TGI_at		negative	Concordant	-0.51169	0.840622	0.542723	0.794833	-11.0012	15.25121	0.470704	0.794832

100129349_TGI_at	HLA-A	positive	Concordant	0.006637	0.004318	0.124239	0.431533	0.067097	0.079832	0.400647	0.748623
100129349_TGI_at	HLA-A	positive	Concordant	0.006637	0.004318	0.124239	0.431533	0.067097	0.079832	0.400647	0.748623
100129349_TGI_at	HLA-A	positive	Concordant	0.006637	0.004318	0.124239	0.431533	0.067097	0.079832	0.400647	0.748623
100129349_TGI_at	HLA-A	positive	Concordant	0.006637	0.004318	0.124239	0.431533	0.067097	0.079832	0.400647	0.748623
100129380_TGI_at		positive	Discordant	0.070745	0.52215	0.892226	0.965743	-2.65177	9.507971	0.780322	0.941122
100129400_TGI_at	C1orf113	positive	Discordant	0.122963	0.205289	0.549189	0.797566	1.260316	3.784775	0.739137	0.92225
100129443_TGI_at	GPC5	negative	Concordant	0.360007	0.687668	0.600614	0.832554	-0.01437	12.48933	0.999082	0.999082
100129450_TGI_at	NICN1	negative	Discordant	-0.05493	0.13115	0.67535	0.883837	0.832631	2.364205	0.724701	0.921701
100129450_TGI_at	NICN1	negative	Concordant	-0.05493	0.13115	0.67535	0.883837	0.832631	2.364205	0.724701	0.921701
100129463_TGI_at	RPRD2	negative	Discordant	0.298014	0.118314	0.011775	0.150127	2.774774	2.177824	0.202627	0.606239
100129487_TGI_at	NR3C1	negative	Discordant	0.153224	0.040276	0.000142	0.02741	1.88327	0.742803	0.011233	0.215815
100129499_TGI_at	C22orf34	negative	Concordant	-0.1895	0.1268	0.135047	0.443506	-2.04383	2.314443	0.377196	0.730287
100129573_TGI_at	WDR60	positive	Discordant	0.034302	0.068428	0.616174	0.841142	0.877696	1.241615	0.479629	0.80052
100129584_TGI_at		negative	Discordant	3.168682	4.358657	0.467235	0.751563	1.16045	78.60241	0.988221	0.999082
100129584_TGI_at		negative	Discordant	3.168682	4.358657	0.467235	0.751563	1.16045	78.60241	0.988221	0.999082
100129584_TGI_at		negative	Discordant	3.168682	4.358657	0.467235	0.751563	1.16045	78.60241	0.988221	0.999082
100129585_TGI_at	CCBE1	positive	Concordant	0.191858	0.195645	0.326768	0.641332	5.183769	3.574089	0.146954	0.549177
100129603_TGI_at		positive	Concordant	1.20403	3.002799	0.688443	0.889538	20.77091	55.16836	0.706545	0.915742
100129603_TGI_at		negative	Discordant	1.20403	3.002799	0.688443	0.889538	20.77091	55.16836	0.706545	0.915742
100129666_TGI_at	ANGPT1	negative	Discordant	0.001816	0.025734	0.943737	0.983056	0.19417	0.470411	0.679777	0.901173
100129691_TGI_at	PNPO	negative	Concordant	-0.03181	0.111573	0.775531	0.923606	-3.732	2.008659	0.063175	0.421332
100129724_TGI_at	SEC61A2	positive	Concordant	0.305444	0.321903	0.342686	0.66319	4.850961	5.786391	0.40184	0.749237
100129724_TGI_at	SEC61A2	positive	Concordant	0.305444	0.321903	0.342686	0.66319	4.850961	5.786391	0.40184	0.749237
100129781_TGI_at	CLOCK	negative	Concordant	-1.09433	0.438264	0.012526	0.155142	-19.0549	7.915976	0.016078	0.240338
100129781_TGI_at	CLOCK	negative	Concordant	-1.09433	0.438264	0.012526	0.155142	-19.0549	7.915976	0.016078	0.240338
100129848_TGI_at	MLH3	negative	Concordant	0.468038	0.282946	0.098095	0.398532	0.142803	5.163964	0.977938	0.999082
100129852_TGI_at		negative	Concordant	0.207559	0.610124	0.733712	0.910662	3.797809	11.34232	0.737749	0.92225
100129915_TGI_at	NPNT	negative	Discordant	0.013216	0.009918	0.182668	0.49021	0.458524	0.180245	0.010962	0.215815
100129915_TGI_at	NPNT	negative	Discordant	0.013216	0.009918	0.182668	0.49021	0.458524	0.180245	0.010962	0.215815
100130226_TGI_at	NCKIPSD	positive	Discordant	-0.21057	0.104141	0.043183	0.265194	-1.93538	1.897177	0.307663	0.670538
100130228_TGI_at		negative	Discordant	-0.06857	0.113495	0.545745	0.796047	3.115943	2.078964	0.133927	0.536498
100130289_TGI_at	PLA2G5	positive	Concordant	0.196658	0.259104	0.447857	0.733676	4.98771	4.679199	0.286454	0.64733
100130314_TGI_at		positive	Discordant	-0.65916	0.286447	0.021384	0.201777	-16.2672	5.059825	0.001305	0.080793
100130355_TGI_at		positive	Concordant	0.13685	0.060661	0.024073	0.203166	3.011282	1.0913	0.005792	0.161978
100130519_TGI_at	SLC4A8	positive	Concordant	3.236132	1.02304	0.00156	0.054107	55.66682	18.56278	0.00271	0.106802
100130540_TGI_at		negative	Concordant	-0.07531	0.094884	0.427351	0.719444	-2.6987	1.738634	0.120615	0.516945
100130569_TGI_at		negative	Discordant	0.350542	0.153726	0.02259	0.203023	6.267922	2.818593	0.026163	0.301895

100130614_TGI_at	ANAPC4	negative	Discordant	0.115718	0.051764	0.025384	0.20322	1.339181	0.943321	0.155711	0.560509
100130622_TGI_at	SLMO2	negative	Concordant	-0.10457	0.110918	0.345795	0.666231	1.059934	1.998017	0.59577	0.860732
100130701_TGI_at	SRD5A3	negative	Concordant	-0.15498	0.057985	0.007524	0.121882	-2.37872	1.040558	0.022254	0.287971
100130701_TGI_at	SRD5A3	negative	Concordant	-0.15498	0.057985	0.007524	0.121882	-2.37872	1.040558	0.022254	0.287971
100130704_TGI_at		positive	Concordant	0.24199	0.14552	0.096326	0.398532	3.809352	2.640941	0.149183	0.550391
100130789_TGI_at		positive	Concordant	0.640799	0.338482	0.058337	0.306533	11.45281	6.133147	0.061851	0.421332
100130835_TGI_at	SON	negative	Concordant	-0.07155	0.179123	0.689576	0.889676	-2.176	3.261795	0.504697	0.814654
100131043_TGI_at	PCBP2	positive	Discordant	-0.0409	0.027771	0.140849	0.445546	-0.91478	0.505198	0.070183	0.427671
100131090_TGI_at	NIPSNAP1	positive	Discordant	-0.03602	0.131936	0.784841	0.928221	-2.06016	2.379202	0.386542	0.739358
100131217_TGI_at	HCG18	positive	Concordant	0.086066	0.205011	0.674622	0.883837	0.207023	3.746184	0.955929	0.995701
100131217_TGI_at	HCG18	negative	Discordant	0.086066	0.205011	0.674622	0.883837	0.207023	3.746184	0.955929	0.995701
100131401_TGI_at	C5orf35	positive	Discordant	-0.31897	0.277229	0.249915	0.55558	-8.16106	5.041984	0.105529	0.491902
100131579_TGI_at	CACNA2D4	negative	Concordant	0.218601	0.838257	0.794262	0.930575	-9.15938	15.36276	0.551037	0.837177
100131760_TGI_at	ITPR3	negative	Discordant	0.031858	2.483572	0.989765	0.996398	19.62455	44.93823	0.662329	0.888268
100131939_TGI_at	IQGAP3	negative	Concordant	-0.35498	1.587213	0.823028	0.942561	-9.19648	28.70217	0.748657	0.928592
100132001_TGI_at	PDGFD	negative	Concordant	-0.43773	0.187376	0.019485	0.201777	-6.62947	3.374673	0.049475	0.39368
100132051_TGI_at	NDUFAF1	positive	Discordant	-0.03274	0.169904	0.847219	0.952951	-4.74037	3.066744	0.122169	0.516945
100132055_TGI_at	PDDC1	negative	Discordant	0.056941	0.036515	0.118909	0.427778	0.900073	0.661363	0.173534	0.56775
100132153_TGI_at	RAD50	negative	Discordant	0.046131	0.150272	0.758854	0.923606	1.759798	2.709422	0.516009	0.820274
100132235_TGI_at	PTER	negative	Discordant	0.001491	0.390338	0.996951	0.999257	1.407376	7.065751	0.84212	0.958398
100132261_TGI_at	SDK1	positive	Discordant	-0.11824	0.081559	0.147129	0.452342	-2.73976	1.471965	0.062703	0.421332
100132327_TGI_at	ADAM19	negative	Concordant	-0.09904	0.069309	0.153032	0.4583	-1.30955	1.252523	0.295777	0.656435
100132327_TGI_at	ADAM19	negative	Concordant	-0.09904	0.069309	0.153032	0.4583	-1.30955	1.252523	0.295777	0.656435
100132347_TGI_at		negative	Discordant	-0.23737	0.272498	0.3837	0.702316	2.304164	5.005822	0.645303	0.88421
100132374_TGI_at	ITIH4	positive	Discordant	-0.03192	0.184103	0.862361	0.95732	-0.88877	3.414988	0.794666	0.9484
100132397_TGI_at		negative	Concordant	0.03342	0.132193	0.800411	0.931838	-0.80621	2.443445	0.741438	0.922277
100132397_TGI_at		negative	Concordant	0.03342	0.132193	0.800411	0.931838	-0.80621	2.443445	0.741438	0.922277
100132425_TGI_at		positive	Discordant	-0.23534	0.718351	0.743208	0.911402	-10.2459	13.05519	0.43256	0.767727
100132449_TGI_at	ANGPTL6	negative	Concordant	0.426588	1.272325	0.737412	0.910662	-16.8621	22.99029	0.463287	0.787588
100132596_TGI_at	FMO2	positive	Concordant	0.014553	0.01026	0.156071	0.459406	0.113195	0.185278	0.541233	0.83348
100132638_TGI_at	ITIH5	negative	Discordant	0.290947	0.084284	0.000556	0.034954	5.924929	1.562228	0.000149	0.022389
100132808_TGI_at	TTC19	negative	Discordant	0.06934	0.049816	0.163942	0.461656	2.835117	0.89765	0.001587	0.080912
100132831_TGI_at		positive	Concordant	0.39167	0.473087	0.407726	0.711479	9.637805	8.607681	0.262852	0.64407
100132932_TGI_at	GPATCH2	positive	Concordant	0.255638	0.196964	0.194324	0.506885	6.275664	3.541481	0.076387	0.447721
100133163_TGI_at	MFAP2	negative	Concordant	-0.14498	0.113317	0.200747	0.509426	-0.77088	2.076584	0.710468	0.915742
100133258_TGI_at	HBS1L	positive	Discordant	-0.08013	0.235037	0.733175	0.910662	1.623536	4.249383	0.702414	0.915742
100133349_TGI_at	ARHGAP27	negative	Concordant	0.018979	0.138083	0.890676	0.965743	2.689982	2.504981	0.282889	0.64733

100133405_TGI_at	TRIM10	negative	Discordant	1.905958	1.024485	0.062828	0.31384	12.20625	18.37284	0.506458	0.814654
100133464_TGI_at	PILRB	positive	Concordant	0.006125	0.013649	0.653645	0.873359	0.272585	0.248797	0.273248	0.64407
100133511_TGI_at	HLA-DOB	negative	Concordant	-0.01186	0.091007	0.896272	0.966995	-2.29004	1.628965	0.159777	0.560509
100133530_TGI_at	ZRANB3	negative	Concordant	-2.1438	1.021766	0.035893	0.238611	-45.7264	18.70497	0.014501	0.228584
100133629_TGI_at		negative	Concordant	-0.10995	0.097627	0.26007	0.572286	-2.75074	1.745249	0.114995	0.509594
100133670_TGI_at		negative	Discordant	0.15613	0.153651	0.309565	0.622924	2.42323	2.793505	0.385695	0.739358
100133670_TGI_at		negative	Discordant	0.15613	0.153651	0.309565	0.622924	2.42323	2.793505	0.385695	0.739358
100133695_TGI_at	C6orf66	negative	Concordant	-0.20664	0.092089	0.024839	0.203166	-2.51517	1.676249	0.133491	0.536498
100133810_TGI_at	TMEM110	negative	Concordant	-0.13634	0.081588	0.094706	0.39476	-1.77643	1.501635	0.236811	0.631062
100133838_TGI_at	KCNMB3	negative	Concordant	-0.11186	0.400782	0.780162	0.926576	-0.94916	7.309672	0.896686	0.976666
100133899_TGI_at		negative	Concordant	-0.00961	0.012039	0.424876	0.718939	-0.30028	0.218075	0.16853	0.564154
100133899_TGI_at		negative	Concordant	-0.00961	0.012039	0.424876	0.718939	-0.30028	0.218075	0.16853	0.564154
100133960_TGI_at	P4HA3	negative	Concordant	-0.57495	0.468593	0.219835	0.523661	0.101083	8.524368	0.990539	0.999082
100134025_TGI_at	CCDC77	negative	Discordant	0.218307	0.136056	0.108595	0.417621	0.509992	2.479429	0.837033	0.957828
100134179_TGI_at	PCM1	negative	Discordant	0.066149	0.043195	0.125667	0.431533	0.721053	0.802878	0.36914	0.730277
100134209_TGI_at		negative	Discordant	2.472337	0.638234	0.000107	0.02741	35.08858	11.62315	0.002537	0.104756
100134215_TGI_at	FBXO38	negative	Concordant	-0.00903	0.064947	0.889384	0.965743	1.048977	1.179456	0.373802	0.730277
100134215_TGI_at	FBXO38	negative	Discordant	-0.00903	0.064947	0.889384	0.965743	1.048977	1.179456	0.373802	0.730277
100134381_TGI_at	LONP2	negative	Concordant	-0.32248	0.187999	0.086283	0.373243	-7.07718	3.402868	0.037547	0.342664
100134576_TGI_at	PSMB3	positive	Discordant	-0.04234	0.03321	0.20232	0.509426	-1.11311	0.608113	0.067186	0.426441
100134593_TGI_at		negative	Concordant	-0.03344	0.023617	0.156844	0.459406	-0.5952	0.424497	0.160878	0.560509
100134693_TGI_at	CLTB	negative	Concordant	-0.00946	0.026828	0.724384	0.905521	-0.1708	0.487433	0.726034	0.921701
100134728_TGI_at	GRK4	negative	Concordant	-0.88634	0.696885	0.203422	0.509426	-0.4964	12.98726	0.969511	0.999082
100134750_TGI_at	SPTBN5	positive	Discordant	-0.59659	0.470159	0.204475	0.509426	-14.2227	8.615011	0.098755	0.486596
100134955_TGI_at	ZADH2	positive	Concordant	0.67267	0.315924	0.033236	0.236522	6.62415	5.755104	0.24973	0.638503
100134957_TGI_at	MRPL43	positive	Discordant	-0.00417	0.063914	0.948018	0.984579	-1.41727	1.156531	0.220405	0.623069
100135055_TGI_at	HORMAD1	positive	Discordant	-0.15181	1.308033	0.907604	0.971472	-16.6633	23.12736	0.471215	0.794832
100135147_TGI_at	INTS5	positive	Discordant	-0.31203	0.171695	0.069165	0.324142	-4.10899	3.146028	0.191523	0.588831
100135158_TGI_at	LRRC37A4	positive	Concordant	0.406425	0.264305	0.124119	0.431533	8.279898	4.822686	0.086004	0.455195
100135158_TGI_at	LRRC37A4	positive	Concordant	0.406425	0.264305	0.124119	0.431533	8.279898	4.822686	0.086004	0.455195
100135231_TGI_at	PGBD1	positive	Discordant	-0.18819	0.206979	0.363243	0.692406	0.244565	3.806621	0.948773	0.994854
100135327_TGI_at	AGPAT1	positive	Discordant	-1.05755	0.49987	0.034375	0.23826	-11.0197	9.0838	0.225086	0.623069
100135327_TGI_at	AGPAT1	positive	Discordant	-1.05755	0.49987	0.034375	0.23826	-11.0197	9.0838	0.225086	0.623069
100135353_TGI_at	C18orf10	negative	Discordant	0.236565	0.27149	0.383559	0.702316	-1.94169	4.95263	0.69502	0.91172
100135390_TGI_at	PADI2	negative	Concordant	-3.11078	1.165205	0.007591	0.121882	-45.7281	21.05357	0.029857	0.302098
100135523_TGI_at	CLDN23	positive	Concordant	0.116873	0.042715	0.006216	0.108753	1.439887	0.777307	0.063968	0.423359
100135535_TGI_at	ITGA2	negative	Discordant	-0.06965	0.06262	0.266034	0.578075	0.792145	1.129259	0.483007	0.80052

100135728_TGI_at		negative	Discordant	0.089501	0.23236	0.700104	0.894706	1.074292	4.326709	0.803908	0.950782
100135728_TGI_at		negative	Discordant	0.089501	0.23236	0.700104	0.894706	1.074292	4.326709	0.803908	0.950782
100135776_TGI_at	RNF39	positive	Discordant	-0.30152	0.334888	0.367922	0.692406	0.671348	6.031482	0.911373	0.980193
100135776_TGI_at	RNF39	positive	Concordant	-0.30152	0.334888	0.367922	0.692406	0.671348	6.031482	0.911373	0.980193
100135777_TGI_at	RABEP1	positive	Concordant	0.004558	0.089358	0.959315	0.988973	1.521793	1.630479	0.350644	0.705761
100135841_TGI_at	EHHADH	positive	Concordant	1.059621	0.742725	0.153676	0.4583	-5.79221	13.33149	0.663943	0.888331
100135910_TGI_at		negative	Discordant	-0.17048	1.120235	0.879043	0.965743	9.563207	20.35248	0.638441	0.878617
100135911_TGI_at	RBM23	positive	Concordant	0.030088	0.045023	0.503954	0.776148	0.577193	0.81981	0.481397	0.80052
100135979_TGI_at	TREM1	negative	Concordant	-0.00063	0.011374	0.95598	0.988973	-0.2145	0.205014	0.295425	0.656435
100135988_TGI_at	CCBL2	negative	Discordant	0.176949	0.08691	0.04175	0.260411	0.627761	1.589206	0.692831	0.91172
100136037_TGI_at	NUP210L	positive	Concordant	-1.06927	1.373881	0.436402	0.724829	0.698195	25.13769	0.977842	0.999082
100136066_TGI_at		positive	Concordant	0.811626	0.965208	0.400414	0.704177	-12.9101	17.28147	0.455034	0.779673
100136084_TGI_at		negative	Concordant	-0.3981	0.277729	0.151744	0.4583	-7.03745	5.248148	0.17994	0.575675
100136117_TGI_at	GOSR1	positive	Discordant	-0.17656	0.117317	0.132325	0.440276	-3.54385	2.138241	0.097445	0.486596
100136204_TGI_at	NCAPG2	positive	Discordant	-0.16601	0.109045	0.127917	0.431533	-0.43075	2.009912	0.830303	0.957068
100136210_TGI_at		positive	Discordant	-2.49802	2.850911	0.380911	0.702316	-77.4756	51.53067	0.132714	0.536498
100136326_TGI_at		positive	Discordant	-0.51042	0.385872	0.18591	0.49443	3.805056	6.993672	0.586392	0.851595
100136365_TGI_at	PPP1R3B	negative	Concordant	-0.12888	0.171124	0.451367	0.736977	-2.29881	3.08882	0.456733	0.781041
100136412_TGI_at	HLA-G	positive	Concordant	0.03779	0.14456	0.793774	0.930575	3.265398	2.627832	0.214008	0.62081
100136412_TGI_at	HLA-G	positive	Concordant	0.03779	0.14456	0.793774	0.930575	3.265398	2.627832	0.214008	0.62081
100136478_TGI_at	ARID1A	positive	Concordant	0.098125	0.099886	0.325918	0.641332	2.619035	1.803907	0.146538	0.549177
100136496_TGI_at	MAPT	negative	Concordant	-0.2285	0.222195	0.30378	0.622924	-6.31193	3.989076	0.11358	0.507597
100136516_TGI_at		negative	Concordant	-1.11497	0.733795	0.128646	0.432311	-17.2585	13.3737	0.196885	0.598854
100136519_TGI_at	SREBF1	positive	Discordant	-0.2513	0.456335	0.581845	0.82238	-4.21727	8.521074	0.620655	0.865125
100136557_TGI_at	MPP6	positive	Discordant	-0.40499	0.148174	0.006272	0.108753	-5.88735	2.659763	0.026864	0.301895
100136594_TGI_at		positive	Concordant	-0.0381	0.225289	0.865713	0.958586	5.133074	4.108305	0.211505	0.619509
100136626_TGI_at	SLC6A4	negative	Discordant	0.022976	0.026835	0.391887	0.704177	1.251246	0.48378	0.009699	0.205089
100136633_TGI_at	AMOTL1	negative	Concordant	-0.14284	0.087328	0.101908	0.403443	-0.92664	1.585475	0.558914	0.839094
100136657_TGI_at	GEN1	positive	Discordant	-1.61092	0.526842	0.00223	0.065414	-17.9373	9.552259	0.060407	0.415658
100136729_TGI_at	TRIM66	negative	Concordant	-1.90158	2.092611	0.363503	0.692406	0.068533	38.06303	0.998563	0.999082
100136733_TGI_at	CCBE1	positive	Concordant	0.199442	0.102942	0.052694	0.287332	0.399405	1.875815	0.831387	0.957068
100136800_TGI_at	ATP5O	positive	Discordant	0.027707	0.022789	0.224056	0.529887	-0.31296	0.412261	0.447779	0.773355
100136812_TGI_at		positive	Discordant	-0.20423	0.250751	0.415364	0.713242	-2.73008	4.55267	0.548729	0.837177
100137081_TGI_at	PIGV	positive	Concordant	0.015011	0.10485	0.88616	0.965743	-0.74472	1.913445	0.697124	0.913
100137237_TGI_at	NMU	positive	Discordant	-0.03609	0.050313	0.473149	0.75471	-0.98536	0.890261	0.268373	0.64407
100137266_TGI_at	NTN4	negative	Discordant	0.086093	0.040263	0.032495	0.234777	1.365129	0.726389	0.060199	0.415658
100137319_TGI_at		positive	Discordant	-0.97543	0.627129	0.119852	0.429388	-24.877	11.28112	0.027441	0.301895

100137319_TGI_at		positive	Discordant	-0.97543	0.627129	0.119852	0.429388	-24.877	11.28112	0.027441	0.301895
100137523_TGI_at	PCBP2	positive	Discordant	-0.01149	0.018255	0.529179	0.785614	-0.33603	0.330011	0.308566	0.670538
100137568_TGI_at	AMIGO3	negative	Discordant	-0.6285	0.525334	0.231548	0.533011	3.514233	9.872121	0.721859	0.921701
100137632_TGI_at		negative	Discordant	0.092506	0.172512	0.591799	0.827564	0.611284	3.141546	0.845721	0.958484
100137671_TGI_at	SPINK6	negative	Concordant	-6.84247	1.899115	0.000315	0.033986	-117.501	34.24572	0.000601	0.052609
100137671_TGI_at	SPINK6	negative	Concordant	-6.84247	1.899115	0.000315	0.033986	-117.501	34.24572	0.000601	0.052609
100137694_TGI_at	TRIM63	positive	Discordant	-1.08506	0.415622	0.009036	0.135075	-25.0097	7.422092	0.000753	0.055876
100137986_TGI_at	HOXC12	negative	Concordant	-4.61211	5.117572	0.367466	0.692406	-186.752	95.38771	0.050251	0.39368
100138030_TGI_at	HLA-G	positive	Concordant	0.036154	0.78981	0.963489	0.989745	5.583503	14.15887	0.693325	0.91172
100138030_TGI_at	HLA-G	positive	Discordant	0.036154	0.78981	0.963489	0.989745	5.583503	14.15887	0.693325	0.91172
100138030_TGI_at	HLA-G	positive	Discordant	0.036154	0.78981	0.963489	0.989745	5.583503	14.15887	0.693325	0.91172
100138030_TGI_at	HLA-G	positive	Concordant	0.036154	0.78981	0.963489	0.989745	5.583503	14.15887	0.693325	0.91172
100138194_TGI_at	LYSMD4	positive	Discordant	-0.23397	0.222179	0.292316	0.610694	4.352397	4.047052	0.282174	0.64733
100138253_TGI_at	HCG8	positive	Concordant	0.876048	0.378758	0.020725	0.201777	7.498354	6.908647	0.277763	0.64407
100138253_TGI_at	HCG8	positive	Concordant	0.876048	0.378758	0.020725	0.201777	7.498354	6.908647	0.277763	0.64407
100138300_TGI_at	RHOA	negative	Discordant	0.010188	0.016048	0.52553	0.784224	0.406762	0.291068	0.162269	0.560509
100138300_TGI_at	RHOA	negative	Discordant	0.010188	0.016048	0.52553	0.784224	0.406762	0.291068	0.162269	0.560509
100138305_TGI_at	ARNT	positive	Concordant	0.133015	0.041652	0.001406	0.054107	0.890806	0.776753	0.25145	0.638503
100138357_TGI_at	BAT4	positive	Discordant	0.075486	0.152621	0.620886	0.845068	-2.744	2.767704	0.321473	0.67176
100138417_TGI_at		positive	Concordant	0.393646	1.66577	0.813189	0.939541	23.97344	30.11784	0.426039	0.764753
100138417_TGI_at		positive	Concordant	0.393646	1.66577	0.813189	0.939541	23.97344	30.11784	0.426039	0.764753
100138467_TGI_at	DARS	positive	Concordant	0.053596	0.04482	0.231771	0.533011	-0.92508	0.811163	0.254103	0.638503
100138467_TGI_at	DARS	positive	Concordant	0.053596	0.04482	0.231771	0.533011	-0.92508	0.811163	0.254103	0.638503
100138516_TGI_at	WNT3	negative	Concordant	-0.09878	0.137821	0.473544	0.75471	0.839401	2.470571	0.734037	0.92225
100138516_TGI_at	WNT3	negative	Concordant	-0.09878	0.137821	0.473544	0.75471	0.839401	2.470571	0.734037	0.92225
100138535_TGI_at	DST	negative	Discordant	0.095114	0.064509	0.14037	0.445546	1.743224	1.167782	0.135499	0.536498
100138660_TGI_at	PIGU	positive	Discordant	-0.2504	0.203679	0.218922	0.523661	-3.77796	3.710794	0.308631	0.670538
100138705_TGI_at		positive	Concordant	1.21734	0.708031	0.085554	0.373119	10.14066	12.67436	0.423657	0.764753
100138939_TGI_at	WWOX	positive	Discordant	-0.18299	0.168341	0.277037	0.588704	-1.81845	3.093692	0.556671	0.839094
100138939_TGI_at	WWOX	positive	Discordant	-0.18299	0.168341	0.277037	0.588704	-1.81845	3.093692	0.556671	0.839094
100139086_TGI_at		negative	Concordant	-0.18559	0.114581	0.105294	0.409927	-4.23367	2.071872	0.041012	0.360043
100139086_TGI_at		negative	Concordant	-0.18559	0.114581	0.105294	0.409927	-4.23367	2.071872	0.041012	0.360043
100139113_TGI_at	CPD	negative	Concordant	-0.16097	0.115602	0.163774	0.461656	-1.20956	2.082697	0.561397	0.840641
100139132_TGI_at		negative	Discordant	1.827743	0.803892	0.022989	0.203023	11.21652	14.74753	0.446914	0.773355
100139154_TGI_at	SIAH1	positive	Concordant	0.205311	0.087973	0.019607	0.201777	1.858242	1.613251	0.249378	0.638503
100139207_TGI_at	CAMK1D	negative	Discordant	0.155146	0.067663	0.021853	0.201777	1.593415	1.215403	0.189852	0.587863
100139207_TGI_at	CAMK1D	negative	Discordant	0.155146	0.067663	0.021853	0.201777	1.593415	1.215403	0.189852	0.587863

100139275_TGI_at	RPS5	positive	Discordant	-0.01432	0.011246	0.202884	0.509426	-0.58231	0.204483	0.004403	0.136346
100139300_TGI_at	TTC35	negative	Discordant	0.048196	0.059517	0.418056	0.716053	1.290349	1.076292	0.230573	0.623069
100139309_TGI_at	CDK5RAP3	positive	Concordant	0.031879	0.036843	0.386894	0.702944	-0.01169	0.674775	0.986178	0.999082
100139548_TGI_at	EXOC2	positive	Concordant	0.215184	0.171557	0.209733	0.516353	-0.49183	3.112474	0.874443	0.966864
100139549_TGI_at		positive	Concordant	0.268623	0.333129	0.420034	0.716053	-0.9569	5.988911	0.873056	0.966864
100139572_TGI_at	HLA-DRB3	negative	Concordant	-0.00161	0.003641	0.659004	0.875236	-0.02006	0.066169	0.761787	0.934186
100139572_TGI_at	HLA-DRB3	negative	Discordant	-0.00161	0.003641	0.659004	0.875236	-0.02006	0.066169	0.761787	0.934186
100139628_TGI_at	TMEM108	negative	Concordant	-0.09829	0.082771	0.235023	0.537639	-1.78155	1.511326	0.238478	0.632294
100139628_TGI_at	TMEM108	negative	Concordant	-0.09829	0.082771	0.235023	0.537639	-1.78155	1.511326	0.238478	0.632294
100139631_TGI_at	FN3K	negative	Discordant	1.416161	1.769621	0.423559	0.718641	16.73237	32.80477	0.61001	0.860732
100139670_TGI_at	ZNF187	positive	Concordant	0.238367	0.176846	0.177698	0.481451	-1.12774	3.219081	0.726092	0.921701
100139688_TGI_at	HCG18	positive	Concordant	0.159831	0.092288	0.083296	0.371725	1.858809	1.690618	0.271556	0.64407
100139688_TGI_at	HCG18	positive	Concordant	0.159831	0.092288	0.083296	0.371725	1.858809	1.690618	0.271556	0.64407
100139688_TGI_at	HCG18	positive	Concordant	0.159831	0.092288	0.083296	0.371725	1.858809	1.690618	0.271556	0.64407
100139688_TGI_at	HCG18	positive	Concordant	0.159831	0.092288	0.083296	0.371725	1.858809	1.690618	0.271556	0.64407
100139818_TGI_at	BAT2	positive	Discordant	-0.13035	0.14771	0.377505	0.700281	-1.28999	2.711299	0.634229	0.874208
100139818_TGI_at	BAT2	positive	Discordant	-0.13035	0.14771	0.377505	0.700281	-1.28999	2.711299	0.634229	0.874208
100139929_TGI_at	ATP8B3	positive	Concordant	0.671291	1.01026	0.506387	0.776148	8.378	18.21575	0.645565	0.88421
100139965_TGI_at	ZNF292	positive	Concordant	0.087632	0.059858	0.143191	0.44657	-0.37521	1.080773	0.728466	0.922014
100140090_TGI_at	CCDC38	positive	Discordant	1.013146	3.809248	0.790262	0.929308	-3.79056	69.37597	0.956427	0.995701
100140105_TGI_at	CDC42SE1	negative	Discordant	0.015982	0.10885	0.883273	0.965743	0.652466	1.965962	0.739979	0.92225
100140312_TGI_at	TXNDC11	negative	Discordant	0.038321	0.029573	0.195046	0.506885	0.824985	0.535086	0.123127	0.516945
100140380_TGI_at		positive	Concordant	1.049817	1.158629	0.364891	0.692406	29.32398	21.44353	0.171469	0.567301
100140600_TGI_at		positive	Concordant	0.440837	0.257551	0.086961	0.373243	4.076303	4.76401	0.392194	0.744053
100140600_TGI_at		positive	Concordant	0.440837	0.257551	0.086961	0.373243	4.076303	4.76401	0.392194	0.744053
100140717_TGI_at	GRB2	negative	Concordant	-0.06957	0.064554	0.281187	0.593566	-2.21347	1.171212	0.058772	0.413224
100140755_TGI_at	PCGF2	negative	Discordant	0.205376	0.149119	0.168432	0.467042	2.41984	2.702878	0.370636	0.730277
100140992_TGI_at	EPS15	positive	Concordant	0.096567	0.046083	0.036125	0.238611	2.21291	0.838994	0.00835	0.195664
100141096_TGI_at	KPNA3	positive	Concordant	0.110691	0.251789	0.660212	0.875236	5.155846	4.557195	0.257902	0.640563
100141104_TGI_at	GFM1	positive	Discordant	-0.4624	0.310685	0.136667	0.445546	-2.26586	5.675668	0.689728	0.910189
100141210_TGI_at		positive	Concordant	0.467985	0.295067	0.112732	0.419479	11.87695	5.39679	0.027754	0.301895
100141210_TGI_at		positive	Concordant	0.467985	0.295067	0.112732	0.419479	11.87695	5.39679	0.027754	0.301895
100141210_TGI_at		positive	Concordant	0.467985	0.295067	0.112732	0.419479	11.87695	5.39679	0.027754	0.301895
100141210_TGI_at		positive	Concordant	0.467985	0.295067	0.112732	0.419479	11.87695	5.39679	0.027754	0.301895
100141331_TGI_at		negative	Discordant	-0.04614	0.182319	0.800226	0.931838	1.645187	3.30035	0.61814	0.865125
100141348_TGI_at		positive	Discordant	-2.07627	0.687413	0.002524	0.069066	-20.9941	12.79471	0.100831	0.486596
100141348_TGI_at		positive	Discordant	-2.07627	0.687413	0.002524	0.069066	-20.9941	12.79471	0.100831	0.486596

100141529_TGI_at	PTCH1	positive	Concordant	0.88309	0.310311	0.00443	0.09827	19.17145	5.591695	0.000607	0.052609
100141551_TGI_at	CEACAM4	negative	Concordant	-1.10913	0.331746	0.000828	0.039874	-10.4838	6.039709	0.082597	0.447876
100141553_TGI_at		positive	Concordant	0.027214	0.026532	0.30504	0.622924	-0.01575	0.486798	0.974194	0.999082
100141567_TGI_at	KIAA0562	positive	Concordant	-0.30347	0.259563	0.242336	0.546504	0.771706	4.760215	0.871215	0.966864
100141578_TGI_at	RP3-377H14.5	positive	Discordant	1.024245	1.468364	0.485464	0.765268	-1.8791	26.6354	0.943757	0.994854
100141578_TGI_at	RP3-377H14.5	positive	Concordant	1.024245	1.468364	0.485464	0.765268	-1.8791	26.6354	0.943757	0.994854
100141670_TGI_at	AP3B2	positive	Discordant	-1.3057	1.165735	0.262684	0.574815	-5.64337	21.06814	0.788805	0.947133
100141815_TGI_at	NOP16	negative	Concordant	-0.15629	0.046628	0.000803	0.039874	-1.55405	0.854186	0.06886	0.426441
100141839_TGI_at	BTN2A2	positive	Concordant	0.09689	0.086923	0.26499	0.577252	-0.08265	1.574574	0.95814	0.996052
100141839_TGI_at	BTN2A2	positive	Concordant	0.09689	0.086923	0.26499	0.577252	-0.08265	1.574574	0.95814	0.996052
100142010_TGI_at	CAMK1D	negative	Discordant	0.111735	0.060783	0.066023	0.319057	0.751102	1.099225	0.494416	0.804238
100142010_TGI_at	CAMK1D	negative	Discordant	0.111735	0.060783	0.066023	0.319057	0.751102	1.099225	0.494416	0.804238
100142037_TGI_at	KLC1	positive	Discordant	-0.57338	0.226269	0.011274	0.150127	-5.67063	4.106074	0.167269	0.564154
100142264_TGI_at	ZMAT3	positive	Discordant	-0.0142	0.052056	0.785015	0.928221	-1.32101	0.94792	0.163444	0.562324
100142285_TGI_at	TCF19	positive	Concordant	-0.14923	0.272749	0.584298	0.82238	-0.01257	4.96706	0.997981	0.999082
100142285_TGI_at	TCF19	negative	Concordant	-0.14923	0.272749	0.584298	0.82238	-0.01257	4.96706	0.997981	0.999082
100142307_TGI_at		negative	Discordant	1.201167	2.207441	0.586342	0.82392	29.20765	39.90534	0.464215	0.787622
100142471_TGI_at		positive	Concordant	0.194054	0.126568	0.125225	0.431533	4.002349	2.285359	0.079894	0.447721
100142471_TGI_at		positive	Concordant	0.194054	0.126568	0.125225	0.431533	4.002349	2.285359	0.079894	0.447721
100142556_TGI_at		positive	Discordant	-0.54668	0.262786	0.037496	0.24443	-6.57714	4.761118	0.167148	0.564154
100142627_TGI_at	LDHC	negative	Concordant	-0.75288	1.128172	0.50455	0.776148	-59.7831	20.24414	0.003146	0.116559
100142706_TGI_at	MMP15	negative	Discordant	0.06972	0.045619	0.126435	0.431533	0.891102	0.819554	0.276904	0.64407
100142718_TGI_at	CEP192	positive	Discordant	0.141317	0.104638	0.176845	0.480641	0.849904	1.904087	0.655339	0.887779
100142732_TGI_at	ATP6V1G2	positive	Discordant	-0.18124	0.153745	0.238459	0.539802	-3.44559	2.820438	0.22184	0.623069
100142732_TGI_at	ATP6V1G2	negative	Concordant	-0.18124	0.153745	0.238459	0.539802	-3.44559	2.820438	0.22184	0.623069
100142964_TGI_at	SGCD	positive	Concordant	-0.14137	0.463734	0.760483	0.923606	0.660291	8.482427	0.937954	0.994139
100142979_TGI_at	THSD4	negative	Concordant	-0.04999	0.113623	0.659945	0.875236	2.480079	2.049756	0.226302	0.623069
100142979_TGI_at	THSD4	negative	Discordant	-0.04999	0.113623	0.659945	0.875236	2.480079	2.049756	0.226302	0.623069
100143040_TGI_at	MAP1LC3A	positive	Concordant	-0.10686	0.092425	0.247601	0.553268	1.304625	1.680857	0.437651	0.771226
100143194_TGI_at	RHOBTB3	positive	Discordant	-0.12908	0.06325	0.04127	0.259282	-0.427	1.150592	0.710555	0.915742
100143227_TGI_at	HCG2P7	positive	Concordant	0.954469	0.50573	0.059119	0.307435	2.136766	9.266532	0.817634	0.952807
100143227_TGI_at	HCG2P7	positive	Concordant	0.954469	0.50573	0.059119	0.307435	2.136766	9.266532	0.817634	0.952807
100143280_TGI_at		positive	Discordant	-0.09518	0.093304	0.3077	0.622924	-1.84968	1.704466	0.277834	0.64407
100143315_TGI_at	WWOX	negative	Concordant	-0.43272	0.499959	0.38676	0.702944	-13.1182	9.089473	0.148956	0.550391
100143321_TGI_at		positive	Concordant	0.733755	0.371397	0.048193	0.269569	10.77791	6.80856	0.113423	0.507597
100143326_TGI_at	NPHP3	negative	Discordant	0.057246	0.226123	0.800143	0.931838	-0.09964	4.108483	0.980652	0.999082
100143365_TGI_at	FSTL4	positive	Concordant	0.157793	0.168769	0.349807	0.672468	6.034025	3.04125	0.047249	0.38285

100143437_TGI_at	RPUSD4	positive	Discordant	-0.33647	0.110165	0.002256	0.065414	-6.34859	2.001506	0.001514	0.080912
100143443_TGI_at	PADI2	negative	Concordant	-0.06016	0.017456	0.000568	0.034954	-1.23797	0.312793	7.56E-05	0.01669
100143466_TGI_at	GOLPH3L	positive	Concordant	0.262987	0.420253	0.531458	0.787648	-13.9496	7.642949	0.067977	0.426441
100143632_TGI_at	C6orf162	negative	Discordant	-0.01526	0.550899	0.977908	0.996398	-4.80396	10.01385	0.631418	0.873211
100143655_TGI_at	NUP85	positive	Discordant	-0.00927	0.087053	0.91518	0.972561	-0.68765	1.575476	0.662494	0.888268
100143670_TGI_at	C1orf89	positive	Discordant	-1.07806	0.674213	0.109824	0.417621	-27.2082	12.10524	0.024599	0.301895
100143779_TGI_at	AGER	negative	Discordant	0.021044	0.008122	0.009572	0.140655	0.372513	0.149187	0.012527	0.215815
100143968_TGI_at	ZNF323	negative	Discordant	0.127744	0.064172	0.046518	0.269292	1.430725	1.161772	0.218135	0.623069
100143968_TGI_at	ZNF323	negative	Discordant	0.127744	0.064172	0.046518	0.269292	1.430725	1.161772	0.218135	0.623069
100143968_TGI_at	ZNF323	negative	Discordant	0.127744	0.064172	0.046518	0.269292	1.430725	1.161772	0.218135	0.623069
100144009_TGI_at	C10orf11	negative	Discordant	-0.89213	1.238197	0.471214	0.75471	-6.09183	22.55523	0.787095	0.946479
100144299_TGI_at		positive	Concordant	0.418339	0.321222	0.192802	0.505013	4.372663	5.747651	0.446792	0.773355
100144365_TGI_at	HOXC6	positive	Discordant	-0.16132	0.091369	0.077465	0.355356	-2.01195	1.695831	0.235461	0.630076
100144394_TGI_at	HCP5	positive	Concordant	0.000809	0.037768	0.982908	0.996398	0.080034	0.681564	0.906522	0.980193
100144394_TGI_at	HCP5	positive	Concordant	0.000809	0.037768	0.982908	0.996398	0.080034	0.681564	0.906522	0.980193
100144443_TGI_at		negative	Concordant	-2.86378	0.836025	0.000614	0.034954	-34.4259	15.45824	0.025946	0.301895
100144469_TGI_at	SGCD	positive	Discordant	0.088853	0.370043	0.810241	0.939143	0.563456	6.720199	0.93318	0.99272
100144708_TGI_at	C6orf162	positive	Concordant	0.16083	0.252485	0.524134	0.783489	-3.14292	4.569727	0.491597	0.804238
100144721_TGI_at	RPRD2	negative	Concordant	-0.01997	0.112717	0.859352	0.95732	-2.97687	2.040319	0.144558	0.549177
100144954_TGI_at	CCNT2	negative	Discordant	0.24909	0.175745	0.156385	0.459406	3.253948	3.192047	0.308017	0.670538
100144981_TGI_at		negative	Concordant	-1.1111	1.093687	0.309666	0.622924	-16.5551	20.27996	0.414313	0.761037
100145017_TGI_at		positive	Concordant	0.558302	2.04525	0.784872	0.928221	-11.0942	36.90479	0.763706	0.935216
100145031_TGI_at	MRPS6	negative	Concordant	-0.01742	0.031425	0.579355	0.82238	-1.43944	0.571264	0.011744	0.215815
100145052_TGI_at	HLA-DPB1	negative	Discordant	0.027637	0.053756	0.607163	0.833901	-0.13442	0.97055	0.889845	0.97411
100145052_TGI_at	HLA-DPB1	negative	Discordant	0.027637	0.053756	0.607163	0.833901	-0.13442	0.97055	0.889845	0.97411
100145066_TGI_at	SMPDL3B	positive	Discordant	-0.22382	0.159235	0.159849	0.461656	-0.61027	2.903131	0.833503	0.957149
100145096_TGI_at	TNS1	positive	Discordant	-0.09184	0.24471	0.707422	0.896688	6.365906	4.499239	0.157102	0.560509
100145096_TGI_at	TNS1	positive	Concordant	-0.09184	0.24471	0.707422	0.896688	6.365906	4.499239	0.157102	0.560509
100145132_TGI_at	FSTL4	positive	Concordant	0.982409	1.814114	0.588138	0.825106	51.69083	32.90707	0.116226	0.509594
100145206_TGI_at		positive	Discordant	-0.72147	0.948223	0.446738	0.733564	-11.3935	17.20189	0.507752	0.815224
100145297_TGI_at	TRIM66	negative	Concordant	-0.11459	0.30057	0.703034	0.895052	2.847049	5.537534	0.607156	0.860732
100145368_TGI_at	C2CD3	negative	Concordant	-0.12192	0.139398	0.381779	0.702316	-2.82603	2.547082	0.267208	0.64407
100145444_TGI_at		positive	Concordant	2.060943	0.867811	0.017555	0.200263	35.03336	15.80433	0.026644	0.301895
100145476_TGI_at	ZNF389	positive	Concordant	2.43492	1.555867	0.117585	0.424774	4.739578	28.42623	0.86758	0.966864
100145476_TGI_at	ZNF389	positive	Concordant	2.43492	1.555867	0.117585	0.424774	4.739578	28.42623	0.86758	0.966864
100145491_TGI_at	SNRPF	positive	Discordant	-0.30437	0.235679	0.196542	0.507149	-2.11269	4.268185	0.62061	0.865125
100145578_TGI_at		positive	Discordant	-0.03205	0.265685	0.903984	0.970639	1.528862	4.86178	0.753168	0.930374

100145604_TGI_at		positive	Concordant	1.114221	0.908146	0.219853	0.523661	11.15601	16.29648	0.493618	0.804238
100145663_TGI_at	B4GALT4	positive	Discordant	-0.20377	0.073017	0.00526	0.099945	-1.16487	1.319556	0.377357	0.730287
100145697_TGI_at	PRKD3	negative	Concordant	-0.02052	0.154044	0.894042	0.966502	0.487195	2.808406	0.862276	0.966864
100145725_TGI_at	TPM1	negative	Concordant	-0.01101	0.014855	0.458595	0.740412	0.147703	0.269963	0.584294	0.851595
100146140_TGI_at	WDR32	positive	Concordant	0.057136	0.249801	0.819082	0.941835	-2.10706	4.5579	0.643874	0.88421
100146347_TGI_at	ADORA2B	positive	Discordant	-0.40624	0.143845	0.004741	0.09827	-3.01859	2.621329	0.249506	0.638503
100146385_TGI_at	IGSF11	positive	Discordant	0.012626	0.929224	0.989159	0.996398	9.308254	16.6101	0.575209	0.847029
100146392_TGI_at	PELI2	negative	Discordant	2.054106	1.637901	0.209802	0.516353	17.54444	30.0553	0.559396	0.839094
100146413_TGI_at		negative	Discordant	0.58475	0.69938	0.4031	0.707466	-18.5258	12.72876	0.145551	0.549177
100146416_TGI_at	FGD6	negative	Discordant	0.541704	0.172283	0.001665	0.055523	8.189259	3.14201	0.009151	0.203425
100146446_TGI_at	MLH3	positive	Discordant	-0.00598	0.195597	0.975592	0.996398	-1.9118	3.547974	0.589996	0.855396
100146509_TGI_at	C14orf94	negative	Concordant	-0.03927	0.048731	0.420382	0.716053	-1.63056	0.876528	0.062851	0.421332
100146692_TGI_at	CLN5	negative	Discordant	0.037493	0.090559	0.67886	0.883837	-0.60573	1.628029	0.709846	0.915742
100146695_TGI_at	BRUNOL4	positive	Concordant	0.848751	0.582293	0.144951	0.450369	18.66306	10.64106	0.079452	0.447721
100146735_TGI_at	HDAC9	positive	Concordant	1.689386	0.744088	0.023183	0.203023	20.13628	13.48987	0.135517	0.536498
100146746_TGI_at		negative	Concordant	-0.03173	0.052707	0.547225	0.796047	-0.92731	0.949731	0.32887	0.675664
100147021_TGI_at	JMJD7- PLA2G4B	positive	Discordant	-0.16102	0.121322	0.184449	0.492054	-4.05258	2.216017	0.067435	0.426441
100147117_TGI_at	ZNF131	negative	Concordant	-0.44931	0.455633	0.324075	0.641332	-5.80932	8.332161	0.485667	0.80052
100147290_TGI_at		positive	Discordant	-4.67728	3.162762	0.139178	0.445546	-33.896	57.92831	0.558456	0.839094
100147290_TGI_at		positive	Discordant	-4.67728	3.162762	0.139178	0.445546	-33.896	57.92831	0.558456	0.839094
100147343_TGI_at		negative	Discordant	-0.09211	0.150445	0.54037	0.794069	-0.62194	2.715406	0.818837	0.952928
100147399_TGI_at	EHHADH	positive	Concordant	0.253106	0.171378	0.139706	0.445546	2.239724	3.103648	0.470514	0.794832
100147499_TGI_at	C6orf164	negative	Discordant	0.548522	2.498595	0.826236	0.942561	10.81225	45.25801	0.811181	0.951684
100147593_TGI_at		negative	Concordant	0.67991	0.819524	0.406742	0.711479	3.593513	14.92925	0.809786	0.951333
100147633_TGI_at	CLOCK	negative	Discordant	-0.21976	0.256747	0.39202	0.704177	-2.78741	4.65568	0.549365	0.837177
100147633_TGI_at	CLOCK	negative	Concordant	-0.21976	0.256747	0.39202	0.704177	-2.78741	4.65568	0.549365	0.837177
100147773_TGI_at	HOXB2	negative	Concordant	-0.55948	0.228878	0.014508	0.169974	-8.67467	4.20614	0.039171	0.353766
100147953_TGI_at	CFDP1	negative	Concordant	-0.06195	0.040258	0.12385	0.431533	-0.76601	0.724621	0.290457	0.650713
100148000_TGI_at	HOXC6	positive	Discordant	-0.61054	1.861337	0.742904	0.911402	-43.1607	33.93923	0.203478	0.606239
100148014_TGI_at	TIGD2	negative	Discordant	0.382443	0.213074	0.072673	0.336937	1.930072	3.851375	0.616274	0.865125
100148028_TGI_at	HHIP	negative	Concordant	-0.22769	0.107742	0.034578	0.23826	-2.7467	1.963776	0.161908	0.560509
100148028_TGI_at	HHIP	negative	Concordant	-0.22769	0.107742	0.034578	0.23826	-2.7467	1.963776	0.161908	0.560509
100148039_TGI_at	KIAA1267	positive	Concordant	0.030684	0.027425	0.263208	0.574815	0.547031	0.499974	0.273903	0.64407
100148133_TGI_at	5-Mar	negative	Discordant	-0.00631	0.077944	0.9355	0.981518	1.624913	1.404254	0.247217	0.638503
100148250_TGI_at	ZSCAN12L1	negative	Concordant	-0.9567	1.771267	0.589113	0.825139	7.442036	31.69126	0.814341	0.952807
100148345_TGI_at		positive	Discordant	0.115881	0.461618	0.801789	0.931838	1.784558	8.429034	0.832329	0.957068
100148378_TGI_at	CKM	negative	Concordant	0.044106	1.750278	0.979896	0.996398	-4.629	31.63959	0.883681	0.971042

100148404_TGI_at	PSMA4	negative	Discordant	0.014379	0.028267	0.610959	0.836812	0.093579	0.50914	0.854172	0.963575
100148404_TGI_at	PSMA4	negative	Discordant	0.014379	0.028267	0.610959	0.836812	0.093579	0.50914	0.854172	0.963575
100148450_TGI_at	HSD17B12	negative	Discordant	0.049942	0.024444	0.041043	0.259282	0.847961	0.44198	0.055041	0.403041
100148527_TGI_at	DMPK	negative	Discordant	0.003274	0.068072	0.961638	0.989745	1.54131	1.2681	0.224195	0.623069
100148761_TGI_at	OXCT2	negative	Concordant	-1.09327	0.602524	0.069604	0.324444	-19.1741	11.09848	0.084054	0.452639
100148761_TGI_at	OXCT2	negative	Concordant	-1.09327	0.602524	0.069604	0.324444	-19.1741	11.09848	0.084054	0.452639
100148776_TGI_at	NDUFA12	positive	Discordant	0.00888	0.030781	0.772962	0.923606	-0.34342	0.556157	0.536918	0.828306
100148822_TGI_at	NOTCH4	positive	Concordant	0.020254	0.031155	0.515627	0.780157	1.356207	0.565369	0.016449	0.241715
100148822_TGI_at	NOTCH4	positive	Discordant	0.020254	0.031155	0.515627	0.780157	1.356207	0.565369	0.016449	0.241715
100148878_TGI_at		negative	Concordant	-0.47266	0.910685	0.603753	0.832729	-1.32464	16.49395	0.93599	0.993272
100148878_TGI_at		negative	Concordant	-0.47266	0.910685	0.603753	0.832729	-1.32464	16.49395	0.93599	0.993272
100148923_TGI_at	ZNF322A	positive	Concordant	0.214509	0.088794	0.0157	0.181497	2.945791	1.61581	0.068287	0.426441
100148949_TGI_at	MRPL43	negative	Discordant	0.283806	0.408541	0.487255	0.765308	7.281009	7.443412	0.327985	0.675446
100148961_TGI_at	MCM6	positive	Discordant	-0.06593	0.159263	0.678911	0.883837	-4.18093	2.86336	0.14425	0.549177
100148972_TGI_at	C16orf63	positive	Discordant	0.111636	0.070603	0.113839	0.421787	0.006072	1.276121	0.996203	0.999082
100149004_TGI_at		negative	Concordant	-0.01547	0.044316	0.727009	0.906931	-0.62011	0.807388	0.442458	0.772392
100149004_TGI_at		negative	Concordant	-0.01547	0.044316	0.727009	0.906931	-0.62011	0.807388	0.442458	0.772392
100149189_TGI_at	COL21A1	positive	Concordant	0.117706	0.061231	0.054563	0.293829	0.982692	1.120163	0.380337	0.734414
100149189_TGI_at	COL21A1	positive	Concordant	0.117706	0.061231	0.054563	0.293829	0.982692	1.120163	0.380337	0.734414
100149232_TGI_at		negative	Concordant	0.243663	5.16427	0.962368	0.989745	-33.2792	93.08831	0.720716	0.921701
100149241_TGI_at		negative	Concordant	-0.0037	0.129609	0.977204	0.996398	-0.96094	2.34263	0.68166	0.902289
100149313_TGI_at	LST1	positive	Discordant	-0.0002	0.0102	0.984547	0.996398	-0.24353	0.184762	0.187481	0.584699
100149333_TGI_at	CDC123	negative	Discordant	0.045829	0.057497	0.425412	0.718939	0.77029	1.050191	0.463268	0.787588
100149333_TGI_at	CDC123	negative	Discordant	0.045829	0.057497	0.425412	0.718939	0.77029	1.050191	0.463268	0.787588
100149341_TGI_at	SLITRK5	negative	Discordant	0.97696	0.599259	0.103042	0.404243	11.03933	10.79218	0.306355	0.670538
100149386_TGI_at	SNORA24	positive	Discordant	-0.23202	0.1355	0.086833	0.373243	-2.4487	2.493683	0.326119	0.673202
100149583_TGI_at	ARL6IP1	positive	Discordant	-3.67508	1.83986	0.045773	0.269292	-82.2529	33.1722	0.013154	0.219318
100149604_TGI_at		negative	Concordant	-6.42014	2.28389	0.004938	0.09827	-58.0746	41.51006	0.161799	0.560509
100149686_TGI_at	UHRF1BP1	positive	Discordant	-0.5249	0.528966	0.321048	0.639882	-6.64741	9.505919	0.48437	0.80052
100149702_TGI_at	C1orf113	positive	Discordant	0.615403	0.910261	0.498994	0.774427	2.977737	16.65591	0.858111	0.964752
100149806_TGI_at	MEIG1	negative	Discordant	0.884925	1.046542	0.397793	0.704177	3.129251	18.80906	0.867866	0.966864
100149872_TGI_at		negative	Discordant	0.04037	0.093609	0.666276	0.879862	1.860902	1.71473	0.277813	0.64407
100149905_TGI_at	LSM11	negative	Discordant	0.562094	1.055617	0.594394	0.829561	7.938418	19.06465	0.677121	0.901173
100149978_TGI_at	NR0B2	positive	Concordant	0.364252	0.172673	0.034902	0.23826	8.076013	3.175346	0.01098	0.215815
100150055_TGI_at	PCGF2	negative	Discordant	0.214509	0.188225	0.254435	0.563278	3.081283	3.459108	0.37305	0.730277
100150083_TGI_at	GALNT6	positive	Discordant	-0.14323	0.244258	0.557626	0.805583	-4.13531	4.383158	0.345449	0.698145
100150316_TGI_at		positive	Concordant	-0.01162	0.793546	0.988318	0.996398	-0.09461	14.29798	0.99472	0.999082

100150425_TGI_at	SH3PXD2A	negative	Concordant	-0.31794	0.173508	0.066887	0.320394	-0.29548	3.143554	0.925114	0.987775
100150625_TGI_at	ZNF391	negative	Discordant	2.465018	1.551072	0.112007	0.419479	16.48258	28.54678	0.563677	0.84115
100150651_TGI_at	PAAF1	negative	Discordant	0.107438	0.10048	0.284956	0.598201	-1.24657	1.819952	0.493376	0.804238
100150740_TGI_at	JMJD7- PLA2G4B	positive	Concordant	0.071429	0.130449	0.583995	0.82238	0.813086	2.426353	0.737545	0.92225
100150755_TGI_at	GFM1	positive	Discordant	-0.10269	0.079317	0.195411	0.506885	-1.94363	1.440495	0.177248	0.571841
100150758_TGI_at	C6orf191	positive	Discordant	-2.87561	3.651574	0.43099	0.722949	-130.159	65.49769	0.046897	0.38285
100150788_TGI_at	TSPAN14	negative	Concordant	-0.11693	0.064161	0.068383	0.322578	-0.52765	1.172623	0.652732	0.887779
100150806_TGI_at		negative	Concordant	0.141352	0.307528	0.645776	0.870774	-1.49617	5.687193	0.792491	0.947801
100150849_TGI_at		positive	Discordant	-2.01444	3.389327	0.55228	0.800714	-82.3139	61.76885	0.182659	0.575874
100150862_TGI_at		positive	Concordant	5.868991	6.97445	0.400069	0.704177	7.977419	127.481	0.950103	0.994854
100150898_TGI_at	SLC27A5	positive	Discordant	-0.7071	0.3378	0.036328	0.238611	-14.9312	6.1824	0.01573	0.240338
100150988_TGI_at		negative	Discordant	1.575514	1.916331	0.410991	0.711479	22.11159	35.24583	0.530428	0.825639
100151060_TGI_at	MLH3	positive	Discordant	-1.06501	0.630294	0.091086	0.387115	-10.6192	11.4187	0.35238	0.707207
100151120_TGI_at		negative	Concordant	-0.0382	0.111446	0.731776	0.910662	-2.02207	2.029065	0.318981	0.671733
100151160_TGI_at	AIF1	negative	Discordant	-0.00175	0.011214	0.876039	0.965712	-0.14307	0.204327	0.4838	0.80052
100151170_TGI_at	AZGP1	positive	Discordant	-0.01622	0.011263	0.14971	0.4583	-0.3295	0.201505	0.102011	0.486596
100151178_TGI_at		positive	Concordant	0.385641	0.343299	0.261294	0.573524	-1.27396	6.208138	0.837409	0.957828
100151213_TGI_at		positive	Concordant	-0.25395	1.424118	0.858472	0.95732	30.9523	26.19082	0.237285	0.631062
100151271_TGI_at	LASS2	positive	Concordant	0.132089	0.053474	0.013505	0.162627	1.209807	0.97796	0.21606	0.622339
100151362_TGI_at		positive	Concordant	0.680167	0.415594	0.101711	0.403443	4.24599	7.612265	0.576993	0.847029
100151371_TGI_at	VARS2	positive	Discordant	-0.28608	0.120874	0.017946	0.201777	-2.44473	2.195725	0.265535	0.64407
100151371_TGI_at	VARS2	positive	Discordant	-0.28608	0.120874	0.017946	0.201777	-2.44473	2.195725	0.265535	0.64407
100151388_TGI_at	FGD6	negative	Discordant	0.305943	0.096358	0.001498	0.054107	4.104722	1.752416	0.019164	0.2703
100151492_TGI_at		negative	Discordant	0.089935	0.052863	0.088886	0.379625	1.373734	0.958503	0.151798	0.553455
100151496_TGI_at	NUDT14	positive	Concordant	0.135458	0.064466	0.035621	0.238611	1.853568	1.169963	0.113126	0.507597
100151519_TGI_at	CCDC53	negative	Discordant	0.09346	0.059557	0.116593	0.424731	1.163021	1.088896	0.285488	0.64733
100151558_TGI_at		negative	Concordant	0.031528	0.161158	0.844897	0.952951	-2.60309	3.015544	0.388014	0.739358
100151666_TGI_at	SPATA1	negative	Concordant	-0.16845	0.36196	0.641651	0.867881	-7.54926	6.479662	0.24399	0.638503
100151676_TGI_at		positive	Concordant	1.335389	1.003306	0.183193	0.49021	-3.52578	17.93412	0.844144	0.958398
100151676_TGI_at		positive	Discordant	1.335389	1.003306	0.183193	0.49021	-3.52578	17.93412	0.844144	0.958398
100151685_TGI_at	STRA13	negative	Concordant	-0.00282	0.067323	0.966618	0.991785	-0.10211	1.246273	0.934702	0.993121
100151722_TGI_at	ZFAND2A	positive	Discordant	-0.06429	0.046196	0.164003	0.461656	-0.24496	0.853386	0.774081	0.941122
100151793_TGI_at		positive	Discordant	-1.76447	1.253109	0.159108	0.461656	-31.3958	22.65368	0.165776	0.564154
100151794_TGI_at	RPS6KL1	negative	Concordant	-0.82993	0.414008	0.045002	0.269084	-13.5379	7.485994	0.070539	0.427671
100152029_TGI_at	MRPL43	negative	Discordant	0.041733	0.063795	0.512998	0.780157	-0.17486	1.165556	0.880749	0.969048
100152090_TGI_at	SLMO2	positive	Discordant	-0.1979	0.134047	0.139845	0.445546	-2.06753	2.412304	0.391403	0.744053
100152113_TGI_at	RNF144B	negative	Concordant	0.016122	0.271908	0.952718	0.986866	1.775197	4.953135	0.720045	0.921701

100152363_TGI_at	TMED10	positive	Concordant	0.928583	0.465745	0.046179	0.269292	15.056	8.515647	0.077054	0.447721
100152431_TGI_at	EIF3E	negative	Discordant	0.21124	0.296913	0.476804	0.758512	4.62804	5.42218	0.393361	0.744637
100152540_TGI_at	CLUAP1	positive	Concordant	0.071054	0.078814	0.3673	0.692406	1.401236	1.426303	0.32589	0.673202
100152575_TGI_at		positive	Concordant	0.160886	0.114821	0.161159	0.461656	-0.48401	2.063042	0.814513	0.952807
100152779_TGI_at		positive	Discordant	-0.60249	0.500242	0.228435	0.531663	-18.4592	9.003694	0.040347	0.360043
100152809_TGI_at	THEX1	positive	Discordant	-0.64806	0.299673	0.030575	0.228521	-9.44423	5.419544	0.081399	0.447876
100152956_TGI_at		positive	Concordant	0.126053	1.303816	0.922981	0.974694	8.494102	23.91487	0.722454	0.921701
100153205_TGI_at	VTA1	positive	Concordant	0.219813	0.124874	0.078359	0.357565	2.501718	2.281936	0.272941	0.64407
100153237_TGI_at	RHOBTB3	positive	Concordant	-0.03328	0.081867	0.684395	0.885627	0.717701	1.496368	0.631492	0.873211
100153252_TGI_at	HIGD2A	negative	Discordant	0.024138	0.071757	0.736578	0.910662	-2.23097	1.297223	0.085467	0.455195
100153401_TGI_at	TRIM26	positive	Concordant	0.598819	0.925031	0.517405	0.780157	15.05946	16.97547	0.375008	0.730277
100153419_TGI_at	TOMIL2	negative	Concordant	-0.50347	0.304254	0.097969	0.398532	-8.86395	5.591803	0.112928	0.507597
100153459_TGI_at	FAM71F2	negative	Discordant	0.260488	2.173083	0.904586	0.970639	25.80619	39.78534	0.516574	0.820274
100153741_TGI_at	VDAC2	negative	Concordant	-0.12353	0.043994	0.004987	0.09827	-1.77089	0.804821	0.027782	0.301895
100153773_TGI_at	C11orf83	negative	Concordant	-0.52115	0.348296	0.134578	0.443506	-7.46216	6.365744	0.241102	0.637303
100153916_TGI_at		negative	Concordant	0.037585	0.27288	0.890451	0.965743	-9.98403	4.911143	0.042059	0.364653
100154037_TGI_at	ZNF25	negative	Discordant	0.457142	0.196775	0.02017	0.201777	7.797254	3.554279	0.028252	0.301895
100154120_TGI_at	CNKSR1	negative	Discordant	0.082524	0.096921	0.394513	0.704177	2.794681	1.77987	0.116378	0.509594
100154198_TGI_at	NUDT5	negative	Concordant	-0.11579	0.066713	0.082614	0.371725	-2.11353	1.203706	0.079113	0.447721
100154198_TGI_at	NUDT5	negative	Concordant	-0.11579	0.066713	0.082614	0.371725	-2.11353	1.203706	0.079113	0.447721
100154282_TGI_at	HOXB7	negative	Concordant	-0.55996	0.195498	0.00418	0.09536	-10.7414	3.519403	0.002273	0.098532
100154320_TGI_at	SGCD	negative	Discordant	0.451207	0.197164	0.022109	0.201777	6.129356	3.590952	0.087843	0.457481
100154412_TGI_at	LTK	positive	Concordant	0.145185	0.115996	0.210703	0.516353	5.954987	2.112227	0.004813	0.143891
100154603_TGI_at	SNAPIN	positive	Concordant	-0.00638	0.118591	0.957087	0.988973	-0.2684	2.138264	0.900108	0.978198
100154661_TGI_at	NAPRT1	positive	Discordant	-0.11235	0.144002	0.435263	0.724829	-4.15667	2.612167	0.111549	0.507597
100154727_TGI_at	CEP192	positive	Concordant	1.095571	0.996083	0.271385	0.580964	27.66046	17.81956	0.120602	0.516945
100154811_TGI_at	RPAP1	negative	Concordant	-0.28971	0.16855	0.085641	0.373119	-4.26814	3.04709	0.161296	0.560509
100154919_TGI_at	RHOBTB3	positive	Concordant	-0.06717	0.062309	0.281025	0.593566	0.753271	1.132949	0.50613	0.814654
100154936_TGI_at		positive	Concordant	0.266797	0.084329	0.001557	0.054107	2.512052	1.535748	0.101898	0.486596
100154936_TGI_at		positive	Concordant	0.266797	0.084329	0.001557	0.054107	2.512052	1.535748	0.101898	0.486596
100154998_TGI_at	C1GALT1	negative	Concordant	-0.29758	0.128043	0.020123	0.201777	-4.75696	2.329108	0.041112	0.360043
100155000_TGI_at	C3orf70	positive	Concordant	8.20E-05	0.102254	0.99936	0.99936	1.099202	1.852341	0.552905	0.837177
100155082_TGI_at	BSCL2	negative	Concordant	-0.00351	0.032671	0.914486	0.972561	0.311064	0.595829	0.601621	0.860732
100155121_TGI_at		negative	Concordant	-0.0393	0.163231	0.809715	0.939143	-0.345	2.962342	0.907288	0.980193
100155123_TGI_at	MCART1	positive	Discordant	-0.03094	0.256461	0.903984	0.970639	-0.07369	4.773789	0.987685	0.999082
100155146_TGI_at	KCNE2	negative	Concordant	-1.46303	1.172276	0.21202	0.516353	-43.0903	21.35722	0.043633	0.370881
100155226_TGI_at	hCG_2039148	positive	Concordant	0.378948	0.245004	0.121935	0.431533	4.387885	4.454345	0.324585	0.673202

100155331_TGI_at		negative	Discordant	0.322665	0.153188	0.035176	0.23826	5.448107	2.797105	0.051443	0.39368
100155331_TGI_at		positive	Concordant	0.322665	0.153188	0.035176	0.23826	5.448107	2.797105	0.051443	0.39368
100155331_TGI_at		negative	Discordant	0.322665	0.153188	0.035176	0.23826	5.448107	2.797105	0.051443	0.39368
100155432_TGI_at	GATAD2B	negative	Concordant	0.008164	0.046876	0.861745	0.95732	0.210517	0.862281	0.807123	0.950782
100155445_TGI_at		positive	Discordant	-0.06009	0.086791	0.488741	0.766255	-1.79265	1.57193	0.254113	0.638503
100155522_TGI_at		negative	Concordant	-0.02292	0.015052	0.127801	0.431533	-0.50595	0.273659	0.06448	0.423515
100155542_TGI_at	RABEP1	negative	Concordant	-0.05686	0.160548	0.723207	0.905521	-1.62121	2.900558	0.57621	0.847029
100155586_TGI_at	PM20D1	positive	Discordant	-1.93954	1.45501	0.182529	0.49021	-32.2345	26.93025	0.231321	0.623069
100155887_TGI_at	ATF6	negative	Concordant	-0.14302	0.056617	0.011535	0.150127	-2.54707	1.03273	0.01365	0.223291
100155895_TGI_at		negative	Concordant	-0.82	2.47448	0.740356	0.911402	30.61613	44.96566	0.495949	0.80522
100155899_TGI_at		negative	Concordant	0.123922	0.466084	0.790331	0.929308	-6.51718	8.38751	0.437153	0.771226
100155944_TGI_at		positive	Concordant	4.030662	2.407593	0.094102	0.39476	78.57488	43.17354	0.068762	0.426441
100155972_TGI_at	USP4	negative	Concordant	-0.04464	0.030666	0.145504	0.450369	-0.51252	0.558354	0.358666	0.718159
100156028_TGI_at	VAMP4	negative	Concordant	-0.50212	0.247181	0.042216	0.26144	-6.53595	4.496184	0.146039	0.549177
100156369_TGI_at	CGN	positive	Concordant	-0.06124	0.163898	0.708672	0.896962	2.364804	2.970239	0.425935	0.764753
100156388_TGI_at	MAPKBP1	negative	Concordant	-0.67011	0.478794	0.16164	0.461656	-7.53385	8.86636	0.395486	0.745404
100156434_TGI_at	CHRNA5	positive	Discordant	0.140732	1.11144	0.89924	0.968499	3.640105	19.90915	0.854927	0.963575
100156434_TGI_at	CHRNA5	positive	Concordant	0.140732	1.11144	0.89924	0.968499	3.640105	19.90915	0.854927	0.963575
100156557_TGI_at	PGM2L1	positive	Discordant	-0.03347	0.151329	0.824958	0.942561	-0.17384	2.72976	0.949224	0.994854
100156621_TGI_at	TPM1	negative	Concordant	-0.23824	0.187162	0.203059	0.509426	1.261701	3.429472	0.712948	0.915742
100156721_TGI_at	STAT6	negative	Discordant	0.019569	0.013259	0.139979	0.445546	0.247577	0.240959	0.304203	0.669401
100156777_TGI_at	MRPS21	positive	Discordant	-0.0698	0.234692	0.76616	0.923606	-3.32245	4.236176	0.432862	0.767727
100156808_TGI_at		positive	Discordant	-0.26103	0.674739	0.69886	0.894706	-10.5947	12.1773	0.384279	0.739358
100156808_TGI_at		positive	Discordant	-0.26103	0.674739	0.69886	0.894706	-10.5947	12.1773	0.384279	0.739358
100156891_TGI_at	SGCD	positive	Concordant	0.263052	0.18291	0.150391	0.4583	3.651225	3.322807	0.271839	0.64407
100157087_TGI_at	PID1	negative	Concordant	0.002221	0.021682	0.918403	0.972561	-0.45518	0.391486	0.244955	0.638503
100157152_TGI_at	TMEM108	negative	Discordant	0.365015	0.194833	0.061003	0.311116	3.020002	3.57102	0.397722	0.74587
100157152_TGI_at	TMEM108	negative	Discordant	0.365015	0.194833	0.061003	0.311116	3.020002	3.57102	0.397722	0.74587
100157247_TGI_at	KTELC1	negative	Concordant	-0.33216	0.129097	0.010085	0.143335	-5.44208	2.337817	0.01992	0.2703
100157269_TGI_at		negative	Discordant	1.883371	1.259758	0.134908	0.443506	38.73575	22.6068	0.086629	0.455195
100157274_TGI_at	WDR52	negative	Concordant	-0.04814	0.224434	0.83015	0.945698	-3.00679	4.0164	0.454082	0.779582
100157324_TGI_at		negative	Concordant	-0.17651	0.279987	0.528416	0.785614	-5.35986	5.117199	0.294906	0.656435
100157332_TGI_at	GTF3C5	positive	Discordant	0.044536	0.105071	0.671667	0.882327	0.091077	1.906736	0.961903	0.998766
100157337_TGI_at		positive	Discordant	-0.26083	0.111604	0.019435	0.201777	-1.26209	2.031939	0.534517	0.826976
100157433_TGI_at		negative	Concordant	-0.95008	0.446327	0.033282	0.236522	-19.1544	8.047083	0.017299	0.249971
100157567_TGI_at	HLA-DQB2	positive	Concordant	0.017681	0.042817	0.679655	0.883837	-0.45568	0.767455	0.552673	0.837177
100157567_TGI_at	HLA-DQB2	negative	Concordant	0.017681	0.042817	0.679655	0.883837	-0.45568	0.767455	0.552673	0.837177

100157804_TGI_at		positive	Concordant	0.704556	0.215158	0.001058	0.04587	8.133873	3.90841	0.037423	0.342664
100157818_TGI_at		negative	Discordant	2.371581	1.078199	0.027837	0.209866	72.46862	19.15629	0.000155	0.022389
100157820_TGI_at		negative	Concordant	-0.20321	0.286998	0.478907	0.760462	-8.7964	5.208326	0.091237	0.462585
100157946_TGI_at	ZNF600	positive	Concordant	0.026401	0.123833	0.831175	0.945698	0.092336	2.254192	0.967326	0.999082
100158065_TGI_at	STK32C	positive	Discordant	0.032593	0.319068	0.918638	0.972561	-0.92347	5.814448	0.873808	0.966864
100158126_TGI_at	PIGL	positive	Discordant	-0.23742	0.527522	0.652669	0.873359	-0.07704	9.657085	0.993635	0.999082
100158135_TGI_at	TMEM163	positive	Concordant	0.066417	0.046571	0.153824	0.4583	0.856743	0.852565	0.314945	0.671386
100158197_TGI_at		positive	Discordant	-2.02826	1.079839	0.060341	0.309558	-38.3712	19.5722	0.049938	0.39368
100158197_TGI_at		positive	Discordant	-2.02826	1.079839	0.060341	0.309558	-38.3712	19.5722	0.049938	0.39368
100158208_TGI_at	NBPF1	positive	Concordant	0.00499	0.425935	0.990652	0.996398	0.839512	7.719216	0.913396	0.980193
100158228_TGI_at	ZNRD1	positive	Discordant	-0.69139	0.179604	0.000118	0.02741	-12.9695	3.264002	7.08E-05	0.01669
100158228_TGI_at	ZNRD1	positive	Discordant	-0.69139	0.179604	0.000118	0.02741	-12.9695	3.264002	7.08E-05	0.01669
100158297_TGI_at	GEN1	positive	Discordant	-0.23093	0.150607	0.125189	0.431533	-0.70036	2.762901	0.799893	0.9484
100158314_TGI_at		negative	Discordant	0.651572	1.190554	0.584183	0.82238	27.04989	21.80888	0.214859	0.620942
100158347_TGI_at	C19orf6	positive	Discordant	0.529064	0.920631	0.565511	0.813007	-3.64971	17.14399	0.831416	0.957068
100158391_TGI_at	NT5C	positive	Concordant	0.080785	0.105382	0.443325	0.733269	-0.3478	1.913484	0.85577	0.963575
100158468_TGI_at	SEMA3A	positive	Discordant	-1.21865	0.948326	0.198774	0.50837	-20.3436	17.02526	0.232124	0.623069
100158499_TGI_at	TDRD10	negative	Discordant	-0.01955	0.0581	0.73645	0.910662	1.068075	1.063148	0.315073	0.671386
100158666_TGI_at		positive	Discordant	-0.12089	0.180909	0.503998	0.776148	-7.98311	3.2	0.012606	0.215815
100158823_TGI_at		positive	Concordant	4.751005	3.639973	0.191814	0.503948	56.85272	65.8478	0.38792	0.739358
100158927_TGI_at	RNF5	negative	Discordant	0.017846	0.048732	0.714211	0.899455	0.889654	0.880826	0.312485	0.671386
100158927_TGI_at	RNF5	negative	Discordant	0.017846	0.048732	0.714211	0.899455	0.889654	0.880826	0.312485	0.671386
100159134_TGI_at	PLEKHM1	negative	Concordant	-0.04329	0.105662	0.682042	0.883903	-1.51022	1.913909	0.430067	0.767727
100159134_TGI_at	PLEKHM1	negative	Concordant	-0.04329	0.105662	0.682042	0.883903	-1.51022	1.913909	0.430067	0.767727
100159164_TGI_at	GOLPH3L	positive	Concordant	0.192166	0.37258	0.606015	0.833901	-9.47055	6.747501	0.160449	0.560509
100159175_TGI_at	MUC21	negative	Concordant	-0.04331	0.036296	0.232723	0.533786	-0.08746	0.653864	0.893599	0.975569
100159175_TGI_at	MUC21	positive	Discordant	-0.04331	0.036296	0.232723	0.533786	-0.08746	0.653864	0.893599	0.975569
100159186_TGI_at		positive	Concordant	0.710658	2.480065	0.774458	0.923606	54.07002	44.52591	0.224614	0.623069
100159303_TGI_at	NPHP3	negative	Discordant	0.19283	0.120338	0.109067	0.417621	3.006515	2.182603	0.168361	0.564154
100159312_TGI_at	ANKRD13B	positive	Concordant	-0.0543	0.087545	0.535069	0.791076	0.103393	1.615016	0.948954	0.994854
100159322_TGI_at	C4BPB	positive	Discordant	-0.07305	0.169631	0.666747	0.879862	1.522009	3.048734	0.61762	0.865125
100159492_TGI_at	C3orf26	negative	Concordant	-0.13837	0.093729	0.139862	0.445546	-4.55074	1.721095	0.008191	0.195664
100159519_TGI_at	C16orf5	negative	Concordant	-0.10842	0.110497	0.326486	0.641332	-2.24868	2.010806	0.263439	0.64407
100159529_TGI_at	TSEN54	positive	Discordant	-0.47161	0.208126	0.023453	0.203166	-5.80255	3.844226	0.131192	0.536498
100159613_TGI_at	ROCK2	negative	Discordant	-0.14292	0.086469	0.098369	0.398532	2.672743	1.574226	0.089543	0.460698
100159682_TGI_at	ITIH5	positive	Concordant	0.112063	0.036702	0.002263	0.065414	2.281692	0.67864	0.000773	0.055876
100159829_TGI_at		negative	Concordant	-0.14469	0.164125	0.378007	0.700281	-3.92701	3.002085	0.190841	0.588823

100159916_TGI_at	SNRPC	negative	Concordant	0.018658	0.05933	0.753156	0.919699	-0.43261	1.08234	0.689381	0.910189
100159938_TGI_at	SLC30A10	positive	Concordant	1.7367	1.135802	0.126252	0.431533	32.32693	20.37768	0.112651	0.507597
100159981_TGI_at		positive	Discordant	-0.38691	0.58035	0.504974	0.776148	2.670703	10.54079	0.799984	0.9484
100160039_TGI_at		negative	Discordant	1.021335	1.043488	0.327693	0.641332	2.692547	18.71317	0.885591	0.971908
100160044_TGI_at	RAB3IP	negative	Discordant	0.003269	0.044871	0.941928	0.983056	-0.05078	0.81095	0.950076	0.994854
100160095_TGI_at	SVEP1	negative	Concordant	-0.6195	0.530255	0.24268	0.546504	-9.95452	9.392642	0.289226	0.649634
100160114_TGI_at		negative	Concordant	-0.39561	0.719273	0.582307	0.82238	-10.7404	13.21827	0.416479	0.761788
100160114_TGI_at		negative	Concordant	-0.39561	0.719273	0.582307	0.82238	-10.7404	13.21827	0.416479	0.761788
100160131_TGI_at		positive	Discordant	-0.15433	0.581166	0.79058	0.929308	-8.90272	10.4748	0.395371	0.745404
100160204_TGI_at		positive	Concordant	0.22307	0.096677	0.021035	0.201777	2.26618	1.77689	0.202181	0.606239
100160221_TGI_at	HLA-G	positive	Discordant	-0.47057	0.591408	0.426222	0.718939	-2.99079	10.61352	0.778104	0.941122
100160221_TGI_at	HLA-G	positive	Discordant	-0.47057	0.591408	0.426222	0.718939	-2.99079	10.61352	0.778104	0.941122
100160221_TGI_at	HLA-G	positive	Discordant	-0.47057	0.591408	0.426222	0.718939	-2.99079	10.61352	0.778104	0.941122
100160221_TGI_at	HLA-G	positive	Discordant	-0.47057	0.591408	0.426222	0.718939	-2.99079	10.61352	0.778104	0.941122
100160231_TGI_at	C10orf55	negative	Concordant	-1.10166	1.565543	0.481625	0.762065	-13.7078	28.02473	0.624749	0.868396
100160231_TGI_at	C10orf55	negative	Concordant	-1.10166	1.565543	0.481625	0.762065	-13.7078	28.02473	0.624749	0.868396
100160430_TGI_at	HLA-DRB6	negative	Discordant	-0.19979	0.528119	0.705209	0.896505	3.667363	9.494486	0.699302	0.913095
100160430_TGI_at	HLA-DRB6	positive	Concordant	-0.19979	0.528119	0.705209	0.896505	3.667363	9.494486	0.699302	0.913095
100160466_TGI_at	ROCK2	positive	Concordant	0.076739	0.131448	0.559355	0.805583	5.500907	2.380364	0.020835	0.273703
100160580_TGI_at	PPA2	negative	Concordant	-0.18174	0.215512	0.399052	0.704177	0.596344	3.912585	0.878858	0.968426
100160580_TGI_at	PPA2	negative	Discordant	-0.18174	0.215512	0.399052	0.704177	0.596344	3.912585	0.878858	0.968426
100160585_TGI_at	MTMR3	negative	Discordant	0.177949	0.150261	0.23631	0.53916	3.91929	2.700501	0.146691	0.549177
100160610_TGI_at	YLPM1	negative	Discordant	-0.23235	1.052477	0.825272	0.942561	22.86796	19.1335	0.232017	0.623069
100160728_TGI_at	KIAA1267	negative	Concordant	-2.31542	1.099001	0.035131	0.23826	-34.7479	19.8276	0.079688	0.447721
100160780_TGI_at	SPINK5	negative	Concordant	-0.07384	0.02447	0.002549	0.069066	-0.78294	0.449692	0.081674	0.447876
100160946_TGI_at	FAM13A1	negative	Discordant	-0.00948	0.044737	0.832258	0.945698	0.154061	0.814041	0.849893	0.961955
100161068_TGI_at	C10orf58	negative	Concordant	-0.08343	0.047481	0.078912	0.358205	-2.249	0.851389	0.008252	0.195664
100161091_TGI_at	TNC	negative	Concordant	-0.23807	0.149996	0.11247	0.419479	1.427875	2.723024	0.60002	0.860732
100161091_TGI_at	TNC	negative	Concordant	-0.23807	0.149996	0.11247	0.419479	1.427875	2.723024	0.60002	0.860732
100161122_TGI_at		positive	Discordant	0.019279	0.182859	0.916035	0.972561	-0.41645	3.494831	0.905147	0.980193
100161206_TGI_at	ENSA	negative	Discordant	0.021179	0.027208	0.436336	0.724829	0.224886	0.498077	0.651623	0.887779
100161240_TGI_at		positive	Concordant	0.713745	0.437002	0.10241	0.40359	6.345266	7.908873	0.422381	0.764753
100161253_TGI_at	BTN3A2	positive	Discordant	0.046426	0.034089	0.173232	0.47529	-0.17534	0.618617	0.776838	0.941122
100161253_TGI_at	BTN3A2	positive	Discordant	0.046426	0.034089	0.173232	0.47529	-0.17534	0.618617	0.776838	0.941122
100161253_TGI_at	BTN3A2	positive	Concordant	0.046426	0.034089	0.173232	0.47529	-0.17534	0.618617	0.776838	0.941122
100161253_TGI_at	BTN3A2	positive	Concordant	0.046426	0.034089	0.173232	0.47529	-0.17534	0.618617	0.776838	0.941122
100161262_TGI_at	ERP29	positive	Concordant	-0.4584	0.485505	0.345086	0.666231	-2.13975	8.868769	0.809348	0.951333

100161388_TGI_at		negative	Discordant	2.475021	1.339559	0.064655	0.314919	1.7443	24.8614	0.944066	0.994854
100161388_TGI_at		negative	Discordant	2.475021	1.339559	0.064655	0.314919	1.7443	24.8614	0.944066	0.994854
100161395_TGI_at	TAP2	positive	Discordant	-0.01401	0.016284	0.38964	0.703787	-0.05948	0.295169	0.840297	0.958398
100161395_TGI_at	TAP2	positive	Concordant	-0.01401	0.016284	0.38964	0.703787	-0.05948	0.295169	0.840297	0.958398
100161408_TGI_at	MAPT	negative	Concordant	-0.48641	0.262683	0.06407	0.314919	-9.99068	4.727026	0.034556	0.334258
100161482_TGI_at	MAPRE2	positive	Discordant	0.040398	0.102011	0.692094	0.891598	1.270476	1.846313	0.49138	0.804238
100161520_TGI_at	MICB	negative	Concordant	-0.09742	0.068201	0.153182	0.4583	-1.58134	1.229229	0.198286	0.599003
100161520_TGI_at	MICB	negative	Concordant	-0.09742	0.068201	0.153182	0.4583	-1.58134	1.229229	0.198286	0.599003
100161625_TGI_at	C2	negative	Discordant	0.025246	0.015608	0.105774	0.409927	0.125471	0.281009	0.655236	0.887779
100161662_TGI_at	RBP2	positive	Concordant	0.063281	0.084652	0.454739	0.737526	2.930082	1.528984	0.055319	0.403041
100161807_TGI_at	DDR1	negative	Discordant	0.023531	0.02619	0.368941	0.692406	0.919385	0.477769	0.054313	0.403041
100161813_TGI_at	PGBD1	negative	Discordant	0.319423	0.616097	0.604137	0.832729	17.0943	11.20283	0.127037	0.529525
100161847_TGI_at		positive	Concordant	0.484726	0.381696	0.204111	0.509426	2.34416	6.87073	0.732968	0.92225
100162004_TGI_at	C12orf48	positive	Discordant	-1.01421	0.819048	0.215611	0.522164	-9.69477	14.77341	0.511676	0.818492
100162155_TGI_at	USP4	negative	Concordant	-0.03238	0.031452	0.303195	0.622924	-0.16651	0.575459	0.772311	0.941122
100162242_TGI_at	FMO2	positive	Concordant	-0.01369	0.047954	0.775255	0.923606	0.448383	0.875455	0.608531	0.860732
100162298_TGI_at	RPL27A	positive	Discordant	-0.80228	0.43404	0.064544	0.314919	-9.23591	8.098146	0.25408	0.638503
100162323_TGI_at		negative	Concordant	-0.02201	0.033144	0.506689	0.776148	-0.64904	0.601352	0.280452	0.647173
100162335_TGI_at		positive	Concordant	0.808703	0.694826	0.244467	0.549102	16.84405	12.50779	0.178082	0.571841
100162507_TGI_at	UBE2Q1	negative	Discordant	0.641297	0.326422	0.049457	0.274869	16.99439	5.909394	0.00403	0.129398
100162510_TGI_at		positive	Concordant	0.010448	0.05499	0.849317	0.952951	0.107586	0.990325	0.91349	0.980193
100162662_TGI_at	PILRB	positive	Concordant	-0.11281	0.182918	0.537421	0.791076	2.020598	3.346557	0.545987	0.83676
100162676_TGI_at	ZSWIM7	positive	Discordant	-0.02263	0.038683	0.558594	0.805583	-0.11328	0.703369	0.872055	0.966864
100162706_TGI_at		negative	Discordant	0.290338	0.230447	0.207708	0.514523	4.039861	4.234941	0.340116	0.692604
100162706_TGI_at		negative	Discordant	0.290338	0.230447	0.207708	0.514523	4.039861	4.234941	0.340116	0.692604
100162706_TGI_at		negative	Discordant	0.290338	0.230447	0.207708	0.514523	4.039861	4.234941	0.340116	0.692604
100162706_TGI_at		negative	Discordant	0.290338	0.230447	0.207708	0.514523	4.039861	4.234941	0.340116	0.692604
100162913_TGI_at	KPNA3	positive	Concordant	0.050549	0.186026	0.78583	0.928221	1.123446	3.390146	0.740353	0.92225
100162913_TGI_at	KPNA3	negative	Discordant	0.050549	0.186026	0.78583	0.928221	1.123446	3.390146	0.740353	0.92225
100162932_TGI_at		positive	Discordant	-0.2024	0.857577	0.81342	0.939541	-0.2724	15.47799	0.985959	0.999082
100162932_TGI_at		positive	Concordant	-0.2024	0.857577	0.81342	0.939541	-0.2724	15.47799	0.985959	0.999082
100163169_TGI_at	CNGA1	negative	Concordant	-3.03056	1.231214	0.013838	0.164352	-49.3135	22.71946	0.029966	0.302098
100300038_TGI_at	HLA-B	positive	Concordant	0.009601	0.007949	0.227133	0.530862	0.108396	0.144012	0.451635	0.77692
100300038_TGI_at	HLA-B	positive	Concordant	0.009601	0.007949	0.227133	0.530862	0.108396	0.144012	0.451635	0.77692
100300070_TGI_at	ANXA6	positive	Discordant	-0.00128	0.018379	0.944505	0.983056	-0.44452	0.334948	0.184461	0.579448
100300166_TGI_at	ARL5C	negative	Discordant	-7.72589	9.416507	0.411952	0.711479	-2.87566	171.9134	0.986654	0.999082
100300216_TGI_at		negative	Concordant	-0.05119	0.138269	0.711193	0.898841	0.088097	2.510611	0.972008	0.999082

100300284_TGI_at	KIAA0802	negative	Discordant	0.02804	0.170376	0.869275	0.961303	4.670012	3.137289	0.136606	0.538352
100300305_TGI_at		positive	Discordant	-0.57393	0.696562	0.409974	0.711479	-8.81289	12.62021	0.48498	0.80052
100300348_TGI_at	HCG2P7	positive	Concordant	1.545728	0.697666	0.026721	0.20322	2.266632	12.76293	0.859041	0.964752
100300348_TGI_at	HCG2P7	positive	Concordant	1.545728	0.697666	0.026721	0.20322	2.266632	12.76293	0.859041	0.964752
100300365_TGI_at	ADORA2B	positive	Discordant	-0.41999	0.169128	0.013018	0.158968	-2.74163	3.083827	0.373983	0.730277
100300398_TGI_at	HLA-DQB1	positive	Concordant	-0.00056	0.005976	0.925102	0.975746	-0.17773	0.107811	0.099242	0.486596
100300398_TGI_at	HLA-DQB1	positive	Concordant	-0.00056	0.005976	0.925102	0.975746	-0.17773	0.107811	0.099242	0.486596
100300398_TGI_at	HLA-DQB1	positive	Discordant	-0.00056	0.005976	0.925102	0.975746	-0.17773	0.107811	0.099242	0.486596
100300398_TGI_at	HLA-DQB1	positive	Discordant	-0.00056	0.005976	0.925102	0.975746	-0.17773	0.107811	0.099242	0.486596
100300564_TGI_at	G3BP1	positive	Discordant	-0.03729	0.105938	0.724834	0.905521	-0.94109	1.925433	0.625005	0.868396
100300599_TGI_at	LONP2	negative	Discordant	-0.11221	0.396135	0.776971	0.924052	-9.45284	7.204584	0.1895	0.587863
100300632_TGI_at	HOXA1	positive	Discordant	-0.28048	0.974834	0.773563	0.923606	-14.7217	17.68158	0.405069	0.752024
100300653_TGI_at	ERP29	positive	Concordant	-1.66861	1.789854	0.351202	0.673656	20.75709	32.33008	0.520849	0.821114
100300682_TGI_at	BRWD1	negative	Discordant	0.593834	0.378103	0.116284	0.424731	11.09354	6.80915	0.103268	0.486596
100300793_TGI_at	WWP2	positive	Concordant	0.066986	0.147909	0.650628	0.873359	2.151447	2.684196	0.422829	0.764753
100300887_TGI_at	HSD17B7P2	positive	Discordant	-3.57658	2.792504	0.200272	0.509426	-76.1417	51.00217	0.135461	0.536498
100300925_TGI_at	HCG27	negative	Concordant	-0.35	0.360893	0.332131	0.647095	-0.01759	6.472809	0.997832	0.999082
100300925_TGI_at	HCG27	positive	Concordant	-0.35	0.360893	0.332131	0.647095	-0.01759	6.472809	0.997832	0.999082
100300937_TGI_at	SUPT3H	positive	Discordant	-0.01095	0.507624	0.982793	0.996398	-4.1228	9.39359	0.660738	0.888268
100300966_TGI_at	PILRB	positive	Concordant	0.005635	0.014557	0.698692	0.894706	0.26832	0.265306	0.311844	0.671386
100300977_TGI_at	GGT7	negative	Concordant	-0.25442	0.178858	0.154898	0.459406	-3.61924	3.332786	0.277501	0.64407
100300978_TGI_at	TUBB	negative	Discordant	0.003287	0.018675	0.860283	0.95732	-0.18891	0.34072	0.579281	0.848373
100300978_TGI_at	TUBB	negative	Concordant	0.003287	0.018675	0.860283	0.95732	-0.18891	0.34072	0.579281	0.848373
100300978_TGI_at	TUBB	negative	Concordant	0.003287	0.018675	0.860283	0.95732	-0.18891	0.34072	0.579281	0.848373
100300978_TGI_at	TUBB	negative	Discordant	0.003287	0.018675	0.860283	0.95732	-0.18891	0.34072	0.579281	0.848373
100301072_TGI_at	CACNA2D4	negative	Discordant	0.605817	0.432317	0.161116	0.461656	1.585091	8.066636	0.844219	0.958398
100301107_TGI_at	C21orf82	negative	Concordant	-1.16318	0.516158	0.024225	0.203166	-32.4794	9.300726	0.000479	0.051931
100301195_TGI_at	RELT	positive	Concordant	-0.0447	0.115836	0.699602	0.894706	-0.1377	2.13321	0.94853	0.994854
100301274_TGI_at	TOM1L2	negative	Concordant	-2.7848	2.022828	0.168609	0.467042	-33.4894	37.0796	0.366433	0.728664
100301317_TGI_at	PIP4K2B	negative	Concordant	0.169839	0.51567	0.741886	0.911402	-5.29445	9.255248	0.567289	0.842191
100301456_TGI_at	TRIM4	positive	Concordant	0.342414	0.203631	0.092657	0.391872	8.104867	3.701762	0.028563	0.301895
100301468_TGI_at	SYTL2	positive	Discordant	-0.05332	0.106159	0.615449	0.841142	-0.30256	1.929869	0.875419	0.966864
100301474_TGI_at	JUB	positive	Concordant	0.154531	0.104633	0.139705	0.445546	1.784557	1.91281	0.350845	0.705761
100301598_TGI_at	FAM103A1	positive	Discordant	-0.16478	0.103209	0.110354	0.417803	-2.10915	1.874131	0.260418	0.643256
100301615_TGI_at	ZNF323	negative	Discordant	0.127687	0.056753	0.024457	0.203166	1.385609	1.027979	0.177692	0.571841
100301615_TGI_at	ZNF323	negative	Discordant	0.127687	0.056753	0.024457	0.203166	1.385609	1.027979	0.177692	0.571841
100301615_TGI_at	ZNF323	negative	Discordant	0.127687	0.056753	0.024457	0.203166	1.385609	1.027979	0.177692	0.571841

100301664_TGI_at	GFM1	positive	Discordant	-0.06659	0.082587	0.420079	0.716053	-0.1844	1.501779	0.902277	0.979066
100301711_TGI_at	SRD5A3	negative	Concordant	-1.91655	0.754966	0.01113	0.150127	-16.4779	13.68099	0.228421	0.623069
100301711_TGI_at	SRD5A3	negative	Concordant	-1.91655	0.754966	0.01113	0.150127	-16.4779	13.68099	0.228421	0.623069
100301782_TGI_at	MLF1	negative	Concordant	-0.05174	0.037778	0.170817	0.470154	-0.227	0.684918	0.740321	0.92225
100301867_TGI_at	FAM62B	positive	Concordant	0.024744	0.044668	0.579617	0.82238	1.583924	0.814319	0.051764	0.39368
100301887_TGI_at	CAMK1D	negative	Discordant	2.384967	0.911435	0.008878	0.135075	16.13255	16.78626	0.336524	0.688127
100301887_TGI_at	CAMK1D	negative	Discordant	2.384967	0.911435	0.008878	0.135075	16.13255	16.78626	0.336524	0.688127
100302084_TGI_at	VEZT	positive	Concordant	0.286762	0.330868	0.386109	0.702944	11.3808	5.962429	0.056294	0.406724
100302085_TGI_at	VEZT	negative	Discordant	0.132919	0.084833	0.117155	0.424774	2.840007	1.541732	0.065462	0.426441
100302095_TGI_at	OTUD4	negative	Concordant	-1.82258	1.240342	0.14172	0.445546	-11.6131	22.33877	0.603158	0.860732
100302139_TGI_at	ZNF639	positive	Concordant	1.581028	0.685692	0.021125	0.201777	30.15333	12.51211	0.015956	0.240338
100302252_TGI_at	MAPKBP1	positive	Concordant	0.45792	0.966801	0.635753	0.861247	21.68467	17.56692	0.217053	0.623069
100302368_TGI_at	LASS2	positive	Concordant	0.108713	0.048558	0.025168	0.20322	0.875545	0.884657	0.322321	0.67176
100302369_TGI_at	ABT1	negative	Discordant	0.031202	0.390013	0.936234	0.981518	-4.37971	7.043195	0.534049	0.826976
100302369_TGI_at	ABT1	positive	Concordant	0.031202	0.390013	0.936234	0.981518	-4.37971	7.043195	0.534049	0.826976
100302468_TGI_at	ZNF28	negative	Discordant	0.110047	0.177731	0.535801	0.791076	1.444765	3.200462	0.651684	0.887779
100302531_TGI_at	MAP3K12	negative	Concordant	-0.02875	0.046545	0.536769	0.791076	-0.66647	0.862517	0.439695	0.772392
100302581_TGI_at	PRG4	positive	Concordant	-0.06413	0.096957	0.508352	0.777321	1.635725	1.841216	0.374329	0.730277
100302585_TGI_at	MLH3	negative	Concordant	0.332267	0.244693	0.174498	0.475754	-0.38674	4.449974	0.930745	0.991346
100302664_TGI_at	PCBP2	positive	Discordant	-0.03299	0.024569	0.179345	0.4844	-0.76585	0.446509	0.08631	0.455195
100302735_TGI_at	ATF6B	negative	Discordant	-0.00153	0.055534	0.977983	0.996398	0.777386	1.014242	0.443397	0.772392
100302735_TGI_at	ATF6B	negative	Concordant	-0.00153	0.055534	0.977983	0.996398	0.777386	1.014242	0.443397	0.772392
100302787_TGI_at	PABPC4	positive	Discordant	-0.1217	0.0341	0.000359	0.033986	-2.42543	0.6135	7.70E-05	0.01669
100302787_TGI_at	PABPC4	positive	Discordant	-0.1217	0.0341	0.000359	0.033986	-2.42543	0.6135	7.70E-05	0.01669
100302806_TGI_at	NIPSNAP1	positive	Discordant	-0.05456	0.098335	0.578989	0.82238	-2.76986	1.773655	0.118366	0.515693
100302815_TGI_at	HIST1H2BL	negative	Discordant	-2.57929	12.57549	0.83749	0.949702	-7.29649	227.8509	0.974454	0.999082
100302940_TGI_at	HLA-DRB5	positive	Discordant	0.001381	0.002691	0.607872	0.833901	-0.00266	0.048906	0.956654	0.995701
100302940_TGI_at	HLA-DRB5	positive	Discordant	0.001381	0.002691	0.607872	0.833901	-0.00266	0.048906	0.956654	0.995701
100302940_TGI_at	HLA-DRB5	negative	Concordant	0.001381	0.002691	0.607872	0.833901	-0.00266	0.048906	0.956654	0.995701
100302941_TGI_at	HLA-DQB1	positive	Discordant	-0.00067	0.00598	0.91089	0.972183	-0.17579	0.107823	0.10302	0.486596
100302941_TGI_at	HLA-DQB1	positive	Concordant	-0.00067	0.00598	0.91089	0.972183	-0.17579	0.107823	0.10302	0.486596
100302941_TGI_at	HLA-DQB1	positive	Discordant	-0.00067	0.00598	0.91089	0.972183	-0.17579	0.107823	0.10302	0.486596
100302941_TGI_at	HLA-DQB1	positive	Concordant	-0.00067	0.00598	0.91089	0.972183	-0.17579	0.107823	0.10302	0.486596
100302942_TGI_at	HLA-C	positive	Discordant	0.002743	0.009391	0.770221	0.923606	0.01649	0.171527	0.923413	0.987175
100302942_TGI_at	HLA-C	positive	Discordant	0.002743	0.009391	0.770221	0.923606	0.01649	0.171527	0.923413	0.987175
100303039_TGI_at	CDSN	positive	Discordant	0.401506	0.570635	0.481674	0.762065	6.570551	10.46708	0.530178	0.825639
100303039_TGI_at	CDSN	positive	Discordant	0.401506	0.570635	0.481674	0.762065	6.570551	10.46708	0.530178	0.825639

100303039_TGI_at	CDSN	positive	Discordant	0.401506	0.570635	0.481674	0.762065	6.570551	10.46708	0.530178	0.825639
100303129_TGI_at	HLA-F	negative	Concordant	0.008651	0.030039	0.773355	0.923606	-0.31159	0.544153	0.566905	0.842191
100303129_TGI_at	HLA-F	negative	Discordant	0.008651	0.030039	0.773355	0.923606	-0.31159	0.544153	0.566905	0.842191
100303445_TGI_at	SMPDL3B	positive	Discordant	-0.09417	0.204889	0.645799	0.870774	1.547695	3.749135	0.679743	0.901173
100303452_TGI_at	CCBL2	negative	Concordant	0.005483	0.067958	0.935691	0.981518	-1.65601	1.25107	0.185611	0.580956
100303520_TGI_at	GRK4	negative	Concordant	0.306409	0.71829	0.669684	0.881057	3.155442	13.60715	0.816619	0.952807
100303540_TGI_at		positive	Concordant	0.850424	0.766318	0.267105	0.578522	7.027278	13.73969	0.60903	0.860732
100303586_TGI_at	CYP2C9	negative	Discordant	-0.36479	1.092285	0.738403	0.910662	12.63878	19.62442	0.519554	0.821114
100303617_TGI_at	CYP21A2	positive	Discordant	-1.65391	1.022921	0.10591	0.409927	-36.2658	18.5626	0.050736	0.39368
100303655_TGI_at	ESR1	negative	Discordant	0.046241	0.080646	0.566385	0.813007	-2.52025	1.44172	0.080449	0.447721
100303672_TGI_at		positive	Discordant	-0.55892	0.748291	0.455106	0.737526	-8.57537	13.82598	0.535102	0.826976
100303756_TGI_at	HLA-A	negative	Concordant	-0.00037	0.014772	0.98001	0.996398	-0.25493	0.268316	0.342064	0.694542
100303756_TGI_at	HLA-A	negative	Concordant	-0.00037	0.014772	0.98001	0.996398	-0.25493	0.268316	0.342064	0.694542
100303756_TGI_at	HLA-A	negative	Concordant	-0.00037	0.014772	0.98001	0.996398	-0.25493	0.268316	0.342064	0.694542
100303756_TGI_at	HLA-A	negative	Concordant	-0.00037	0.014772	0.98001	0.996398	-0.25493	0.268316	0.342064	0.694542
100303765_TGI_at	LYZ	positive	Discordant	-0.00844	0.015972	0.597054	0.829561	-0.24403	0.288877	0.398254	0.74587
100303767_TGI_at	TGFB2	negative	Discordant	0.267226	0.102204	0.008932	0.135075	5.812331	1.828011	0.001475	0.080912
100303798_TGI_at	PCM1	negative	Discordant	0.11057	0.049657	0.025968	0.20322	1.469007	0.907091	0.105346	0.491902
100303831_TGI_at	PSMD7	negative	Concordant	-0.1237	0.10291	0.229364	0.531707	-1.0252	1.883948	0.58632	0.851595
100303868_TGI_at	CLEC2D	positive	Discordant	-0.79267	0.625661	0.205181	0.509719	-28.0219	11.20945	0.012425	0.215815
100303975_TGI_at	NUDT5	negative	Concordant	-0.0965	0.063716	0.129882	0.434779	-1.6816	1.149804	0.143601	0.549177
100303975_TGI_at	NUDT5	negative	Concordant	-0.0965	0.063716	0.129882	0.434779	-1.6816	1.149804	0.143601	0.549177
100303991_TGI_at		negative	Concordant	-1.4705	3.433189	0.668418	0.880727	-16.314	62.03557	0.792567	0.947801
100303991_TGI_at		negative	Concordant	-1.4705	3.433189	0.668418	0.880727	-16.314	62.03557	0.792567	0.947801
100303991_TGI_at		negative	Concordant	-1.4705	3.433189	0.668418	0.880727	-16.314	62.03557	0.792567	0.947801
100303991_TGI_at		negative	Concordant	-1.4705	3.433189	0.668418	0.880727	-16.314	62.03557	0.792567	0.947801
100303994_TGI_at	ZFP57	negative	Concordant	-0.57344	0.270059	0.033721	0.237694	-8.12073	4.95285	0.101087	0.486596
100303994_TGI_at	ZFP57	negative	Concordant	-0.57344	0.270059	0.033721	0.237694	-8.12073	4.95285	0.101087	0.486596
100303994_TGI_at	ZFP57	negative	Concordant	-0.57344	0.270059	0.033721	0.237694	-8.12073	4.95285	0.101087	0.486596
100303994_TGI_at	ZFP57	negative	Concordant	-0.57344	0.270059	0.033721	0.237694	-8.12073	4.95285	0.101087	0.486596
100304000_TGI_at	PSORS1C3	positive	Discordant	-1.08419	0.918801	0.237998	0.539802	-17.4864	16.95958	0.302511	0.667372
100304000_TGI_at	PSORS1C3	negative	Concordant	-1.08419	0.918801	0.237998	0.539802	-17.4864	16.95958	0.302511	0.667372
100304001_TGI_at		negative	Discordant	0.078264	0.042053	0.062734	0.31384	1.903057	0.757606	0.012007	0.215815
100304001_TGI_at		negative	Discordant	0.078264	0.042053	0.062734	0.31384	1.903057	0.757606	0.012007	0.215815
100304009_TGI_at	HLA-DQB1	positive	Concordant	-0.00052	0.005866	0.928805	0.978462	-0.17287	0.105858	0.102454	0.486596
100304009_TGI_at	HLA-DQB1	positive	Discordant	-0.00052	0.005866	0.928805	0.978462	-0.17287	0.105858	0.102454	0.486596
100304009_TGI_at	HLA-DQB1	positive	Concordant	-0.00052	0.005866	0.928805	0.978462	-0.17287	0.105858	0.102454	0.486596

100304009_TGI_at	HLA-DQB1	positive	Discordant	-0.00052	0.005866	0.928805	0.978462	-0.17287	0.105858	0.102454	0.486596
100304014_TGI_at	ZNF25	negative	Discordant	0.557478	0.221009	0.011655	0.150127	9.824254	4.004834	0.014163	0.227397
100304092_TGI_at	ATF6	negative	Concordant	-0.21146	0.071863	0.003255	0.080734	-2.75004	1.315652	0.036596	0.342664
100304176_TGI_at	C3orf26	negative	Concordant	-0.28305	0.149445	0.058225	0.306533	-8.66161	2.757934	0.001686	0.081206
100304197_TGI_at		positive	Concordant	0.289243	0.203534	0.155286	0.459406	7.838387	3.713589	0.034795	0.334258
100304197_TGI_at		positive	Concordant	0.289243	0.203534	0.155286	0.459406	7.838387	3.713589	0.034795	0.334258
100304197_TGI_at		positive	Concordant	0.289243	0.203534	0.155286	0.459406	7.838387	3.713589	0.034795	0.334258
100304197_TGI_at		positive	Concordant	0.289243	0.203534	0.155286	0.459406	7.838387	3.713589	0.034795	0.334258
100304214_TGI_at		positive	Concordant	-0.03046	0.363666	0.933243	0.981518	10.34441	6.636086	0.119041	0.516042
100304225_TGI_at		positive	Concordant	0.076829	0.268723	0.774952	0.923606	5.050527	4.861995	0.298909	0.661107
100304233_TGI_at	CLEC2D	negative	Discordant	0.004749	0.042789	0.911632	0.972183	-0.77545	0.772034	0.315172	0.671386
100304243_TGI_at	PIP4K2B	positive	Concordant	0.254905	0.098607	0.009736	0.140692	1.82503	1.810177	0.313356	0.671386
100304251_TGI_at	TSPAN14	negative	Concordant	-0.11237	0.06843	0.100551	0.403443	-0.55258	1.253032	0.659217	0.888268
100304349_TGI_at	CCNT2	negative	Discordant	0.185461	0.157259	0.238265	0.539802	2.031494	2.851635	0.47622	0.799852
100304633_TGI_at	TCP11	negative	Concordant	-0.02395	1.758384	0.989132	0.996398	7.510979	32.33811	0.816333	0.952807
100304636_TGI_at	FLOT1	negative	Concordant	-0.30344	0.310666	0.328705	0.641863	-6.53695	5.70002	0.251452	0.638503
100304636_TGI_at	FLOT1	negative	Concordant	-0.30344	0.310666	0.328705	0.641863	-6.53695	5.70002	0.251452	0.638503
100304704_TGI_at		negative	Concordant	-0.33445	0.142084	0.018577	0.201777	-4.63773	2.672283	0.082653	0.447876
100304704_TGI_at		positive	Discordant	-0.33445	0.142084	0.018577	0.201777	-4.63773	2.672283	0.082653	0.447876
100304754_TGI_at		positive	Discordant	-2.0596	1.021339	0.04374	0.265194	-5.20626	18.68003	0.780469	0.941122
100304754_TGI_at		positive	Discordant	-2.0596	1.021339	0.04374	0.265194	-5.20626	18.68003	0.780469	0.941122
100304757_TGI_at	OPN5	negative	Discordant	-0.79103	1.128463	0.483315	0.763268	-2.52288	20.14726	0.900348	0.978198
100304804_TGI_at	RAD50	negative	Discordant	-0.2105	0.48703	0.665585	0.879862	5.280843	8.850162	0.550711	0.837177
100304816_TGI_at	LRRC37A	negative	Concordant	-10.7771	8.765919	0.218908	0.523661	-275.974	161.823	0.088119	0.457481
100304832_TGI_at	TPM1	negative	Concordant	-0.09738	0.038623	0.011692	0.150127	-0.70356	0.707424	0.319961	0.671733
100304858_TGI_at	MLF1	negative	Concordant	-0.36864	0.366127	0.313999	0.627275	-0.37541	6.589616	0.954569	0.995701
100304878_TGI_at	ZNF271	negative	Concordant	-0.82661	0.283925	0.003598	0.086663	-11.7151	5.248259	0.025602	0.301895
100304907_TGI_at	GRB2	negative	Concordant	-0.1462	0.182497	0.423062	0.718641	-3.57247	3.341417	0.285002	0.64733
100304931_TGI_at		positive	Discordant	-0.12238	0.472218	0.79551	0.930779	2.669442	8.552861	0.754956	0.930374
100304943_TGI_at	ZNF271	negative	Concordant	-0.31079	0.111718	0.005404	0.099945	-4.40629	2.07004	0.033287	0.328895
100305043_TGI_at	MCM6	positive	Discordant	-0.19296	0.096059	0.04456	0.268286	-3.78141	1.731042	0.028928	0.301895
100305045_TGI_at		negative	Discordant	0.295687	0.267348	0.268726	0.578522	5.943985	4.911427	0.226188	0.623069
100305045_TGI_at		negative	Discordant	0.295687	0.267348	0.268726	0.578522	5.943985	4.911427	0.226188	0.623069
100305045_TGI_at		negative	Discordant	0.295687	0.267348	0.268726	0.578522	5.943985	4.911427	0.226188	0.623069
100305045_TGI_at		negative	Discordant	0.295687	0.267348	0.268726	0.578522	5.943985	4.911427	0.226188	0.623069
100305118_TGI_at	ATF6	negative	Concordant	-3.35742	1.842742	0.068459	0.322578	-25.8624	33.56609	0.441009	0.772392
100305138_TGI_at	SPINK5	negative	Concordant	-0.26541	0.115541	0.021611	0.201777	-8.47861	2.038604	3.20E-05	0.01669

100305245_TGI_at	C18orf10	negative	Discordant	-0.00931	0.068453	0.891776	0.965743	-0.35086	1.254734	0.77976	0.941122
100305257_TGI_at	VDAC2	negative	Concordant	-0.18499	0.057126	0.001203	0.049662	-2.02653	1.049954	0.053593	0.403041
100305260_TGI_at	SEC61A2	positive	Concordant	0.330299	0.23635	0.162263	0.461656	7.938051	4.332643	0.066929	0.426441
100305324_TGI_at		negative	Discordant	0.085338	0.041264	0.038633	0.249963	1.863943	0.744354	0.012276	0.215815
100305324_TGI_at		negative	Discordant	0.085338	0.041264	0.038633	0.249963	1.863943	0.744354	0.012276	0.215815
100305328_TGI_at		negative	Concordant	-0.17769	0.171565	0.300343	0.622924	-0.65968	3.092558	0.831085	0.957068
100305399_TGI_at		negative	Concordant	-0.03294	0.044219	0.45635	0.738164	-1.3955	0.79562	0.079434	0.447721
100305406_TGI_at	VEZT	positive	Concordant	0.06867	0.293896	0.815253	0.939926	7.224928	5.346247	0.176567	0.571841
100305428_TGI_at		negative	Concordant	-0.15077	0.229057	0.510385	0.779055	-4.67889	4.108833	0.254812	0.638503
100305428_TGI_at		negative	Concordant	-0.15077	0.229057	0.510385	0.779055	-4.67889	4.108833	0.254812	0.638503
100305452_TGI_at	STAT6	positive	Concordant	-0.04376	0.049751	0.379072	0.700757	0.264434	0.933024	0.776858	0.941122
100305514_TGI_at	TMEM87A	positive	Concordant	1.425445	1.904338	0.454143	0.737526	1.437756	34.40639	0.966668	0.999082
100305640_TGI_at	C7orf46	positive	Discordant	-0.36383	0.371567	0.327493	0.641332	-8.31408	6.794059	0.221055	0.623069
100305644_TGI_at	CPD	negative	Discordant	-0.05995	0.114991	0.602147	0.832633	0.037432	2.063378	0.985526	0.999082
100305657_TGI_at	SIAH1	positive	Concordant	0.064976	0.122374	0.595447	0.829561	1.434883	2.257116	0.524962	0.823042
100305748_TGI_at	5-Mar	negative	Discordant	-0.01801	0.077649	0.8166	0.940229	0.980383	1.402378	0.484498	0.80052
100305763_TGI_at	XRCC3	negative	Concordant	0.029702	0.056816	0.601129	0.832554	1.439214	1.023005	0.159472	0.560509
100305792_TGI_at	MBNL1	positive	Discordant	-0.07813	0.081744	0.339209	0.659405	0.667271	1.490173	0.654311	0.887779
100305819_TGI_at	FAM168A	negative	Concordant	-0.09298	0.157328	0.554542	0.80265	-3.14333	2.852914	0.27055	0.64407
100305836_TGI_at	HLA-DPA1	positive	Discordant	-0.01836	0.028669	0.521946	0.782375	-0.98654	0.521171	0.058369	0.413224
100305836_TGI_at	HLA-DPA1	positive	Discordant	-0.01836	0.028669	0.521946	0.782375	-0.98654	0.521171	0.058369	0.413224
100305934_TGI_at	EFCAB5	negative	Discordant	1.449708	4.54927	0.749978	0.918405	8.649579	83.41942	0.917417	0.98319
100305949_TGI_at	PTER	positive	Concordant	0.028639	0.144993	0.84342	0.952951	-3.91018	2.600437	0.132668	0.536498
100306063_TGI_at	ZADH2	positive	Concordant	0.314969	0.147125	0.032288	0.234777	3.371507	2.679509	0.208299	0.612188
100306182_TGI_at	MAPKBP1	negative	Concordant	-1.06114	1.241235	0.392601	0.704177	-18.9022	22.66921	0.404378	0.752024
100306202_TGI_at	FGD6	negative	Concordant	0.968121	0.960834	0.313654	0.627275	1.733991	17.42186	0.920718	0.985509
100306281_TGI_at	C17orf57	negative	Discordant	-0.01681	0.283393	0.952702	0.986866	-5.85103	5.108841	0.252095	0.638503
100306300_TGI_at	C14orf153	negative	Concordant	-0.15223	0.203383	0.45416	0.737526	-5.22416	3.679858	0.155705	0.560509
100306322_TGI_at	ARNT	negative	Discordant	0.196726	0.177939	0.268909	0.578522	1.030125	3.208577	0.74817	0.928592
100306345_TGI_at	IKZF2	positive	Concordant	0.158867	0.069742	0.02273	0.203023	1.383126	1.266629	0.274844	0.64407
100306395_TGI_at	MAPT	negative	Concordant	-1.7718	2.035115	0.383965	0.702316	-13.9302	36.92028	0.705948	0.915742
100306458_TGI_at	DST	negative	Discordant	0.073341	0.052632	0.163474	0.461656	1.30994	0.95575	0.170503	0.566383
100306484_TGI_at	RBM23	positive	Concordant	0.097542	0.094871	0.303881	0.622924	1.080929	1.735612	0.53342	0.826976
100306509_TGI_at	PIGV	positive	Discordant	0.056086	0.29476	0.849093	0.952951	-3.6583	5.352415	0.4943	0.804238
100306577_TGI_at	MGA	positive	Concordant	0.927929	0.347315	0.007546	0.121882	4.993106	6.31562	0.42918	0.767727
100306590_TGI_at	SLC35A1	positive	Concordant	0.224581	0.055011	4.46E-05	0.02741	3.063569	0.999264	0.002171	0.098532
100306620_TGI_at		negative	Discordant	0.280554	0.231236	0.225023	0.53015	4.904176	4.216942	0.244842	0.638503

100306689_TGI_at		negative	Concordant	-0.36759	0.373327	0.324805	0.641332	-4.83309	6.892204	0.483153	0.80052
100306705_TGI_at	CCNT2	positive	Concordant	0.098085	0.062211	0.114875	0.422151	0.936811	1.137456	0.410166	0.759859
100306708_TGI_at		positive	Discordant	-1.5188	0.430354	0.000417	0.033986	-9.43288	8.206094	0.250351	0.638503
100306708_TGI_at		positive	Discordant	-1.5188	0.430354	0.000417	0.033986	-9.43288	8.206094	0.250351	0.638503
100306800_TGI_at	RHOBTB3	positive	Concordant	-0.14416	0.155131	0.352758	0.675146	1.534641	2.816438	0.585831	0.851595
100306816_TGI_at	PDGFD	negative	Concordant	-2.24829	0.817266	0.005942	0.10732	-27.7566	14.70586	0.0591	0.413224
100306859_TGI_at	MAP3K12	negative	Concordant	-0.05007	0.130271	0.700698	0.894706	-1.14814	2.405598	0.633164	0.874129
100306923_TGI_at	TH1L	negative	Discordant	0.280693	0.184173	0.127492	0.431533	1.741988	3.318578	0.599639	0.860732
100306938_TGI_at	ROCK2	negative	Discordant	-0.38711	0.217113	0.074588	0.343979	4.142867	3.964601	0.296039	0.656435
100306966_TGI_at	TMEM77	positive	Discordant	0.028581	0.062559	0.647774	0.87208	-1.79817	1.133359	0.112606	0.507597
100306969_TGI_at	RABAC1	negative	Concordant	-0.0613	0.043967	0.163249	0.461656	-0.85961	0.796805	0.280666	0.647173
100307074_TGI_at	PID1	negative	Concordant	-0.27858	0.22312	0.211821	0.516353	-9.4297	4.051898	0.019953	0.2703
100307164_TGI_at	MN1	positive	Discordant	-0.02558	0.042461	0.546918	0.796047	-0.40181	0.767688	0.600696	0.860732
100307171_TGI_at		positive	Concordant	0.144769	0.087567	0.09828	0.398532	2.195199	1.589751	0.167327	0.564154
100307218_TGI_at		negative	Concordant	-1.40927	0.427449	0.000977	0.044603	-11.499	7.80163	0.140503	0.548723
100307273_TGI_at		negative	Discordant	0.06064	0.096153	0.528263	0.785614	2.112548	1.749361	0.227197	0.623069
100307330_TGI_at	BCAR1	positive	Concordant	-1.8017	0.910437	0.047823	0.269292	0.552132	16.61592	0.973492	0.999082
100307345_TGI_at	CLOCK	positive	Concordant	0.028469	0.28169	0.919498	0.972561	1.874254	5.089517	0.712681	0.915742
100307345_TGI_at	CLOCK	positive	Concordant	0.028469	0.28169	0.919498	0.972561	1.874254	5.089517	0.712681	0.915742
100307496_TGI_at	C22orf34	positive	Concordant	0.081075	0.16213	0.617031	0.841142	1.146644	2.959178	0.698396	0.913095
100307499_TGI_at	PPA2	negative	Discordant	0.03369	0.177699	0.849632	0.952951	0.528238	3.221665	0.869759	0.966864
100307499_TGI_at	PPA2	negative	Discordant	0.03369	0.177699	0.849632	0.952951	0.528238	3.221665	0.869759	0.966864
100307519_TGI_at		negative	Discordant	0.066092	0.092172	0.47334	0.75471	2.296434	1.681721	0.172088	0.567301
100307575_TGI_at	MRPS21	negative	Concordant	-0.10181	0.064012	0.111716	0.419479	-3.05724	1.166852	0.008791	0.200574
100307611_TGI_at	IQGAP3	negative	Concordant	-0.35767	0.986025	0.716803	0.899455	-9.61801	18.23364	0.597855	0.860732
100307620_TGI_at	ITCH	positive	Discordant	-0.00048	0.061246	0.993768	0.998374	0.126096	1.103369	0.909014	0.980193
100307638_TGI_at		positive	Concordant	-0.06126	0.351836	0.861766	0.95732	-8.68156	6.397721	0.174788	0.569705
100307707_TGI_at	MON1B	negative	Discordant	0.241686	0.104576	0.020826	0.201777	0.968843	1.901482	0.610388	0.860732
100307726_TGI_at	ADAM17	negative	Concordant	-1.52433	1.027229	0.137829	0.445546	-7.3862	18.8447	0.695094	0.91172
100307733_TGI_at		positive	Concordant	0.166143	0.083959	0.047833	0.269292	2.74875	1.52948	0.072307	0.432347
100307819_TGI_at	GALC	negative	Discordant	0.137073	0.079227	0.083606	0.371725	1.276398	1.428905	0.371713	0.730277
100307865_TGI_at	CACNA2D4	negative	Concordant	0.845736	0.936237	0.366348	0.692406	-4.3939	17.32674	0.799812	0.9484
100307916_TGI_at	C15orf57	negative	Concordant	-0.32915	0.346203	0.341739	0.662836	-7.89973	6.358554	0.214097	0.62081
100307917_TGI_at	RPS5	positive	Discordant	-0.02277	0.010628	0.032174	0.234777	-0.55673	0.193019	0.003923	0.129398
100307951_TGI_at	RREB1	negative	Discordant	0.214649	0.091121	0.01849	0.201777	2.087889	1.649118	0.20549	0.608241
100307969_TGI_at		positive	Discordant	-0.26172	0.45958	0.569026	0.815447	-0.37077	8.437238	0.964949	0.999082
100307977_TGI_at	ASAH1	negative	Discordant	0.062117	0.051434	0.227162	0.530862	1.029729	0.926857	0.266573	0.64407

100308127_TGI_at	HCG18	positive	Concordant	0.338034	0.164378	0.03974	0.25522	3.873615	3.003514	0.197157	0.598854
100308127_TGI_at	HCG18	positive	Concordant	0.338034	0.164378	0.03974	0.25522	3.873615	3.003514	0.197157	0.598854
100308127_TGI_at	HCG18	positive	Concordant	0.338034	0.164378	0.03974	0.25522	3.873615	3.003514	0.197157	0.598854
100308127_TGI_at	HCG18	positive	Concordant	0.338034	0.164378	0.03974	0.25522	3.873615	3.003514	0.197157	0.598854
100308139_TGI_at	HSD17B12	positive	Concordant	0.114052	0.056537	0.043665	0.265194	1.847343	1.026148	0.071818	0.432347
100308140_TGI_at	KIAA0317	negative	Discordant	0.483263	0.256984	0.060038	0.309558	3.674323	4.681477	0.432533	0.767727
100308316_TGI_at	ALDH2	negative	Discordant	0.338015	0.109512	0.002025	0.06502	2.477063	1.993196	0.213956	0.62081
100308400_TGI_at	C1orf77	negative	Concordant	-0.16345	4.530606	0.971221	0.99533	-25.9163	83.21209	0.75546	0.930374
100308435_TGI_at	DCBLD2	negative	Discordant	5.320472	4.404618	0.227074	0.530862	115.6525	80.72053	0.151929	0.553455
100308491_TGI_at	THSD4	negative	Concordant	-0.14324	0.18899	0.448498	0.733676	2.681299	3.419788	0.433008	0.767727
100308491_TGI_at	THSD4	negative	Discordant	-0.14324	0.18899	0.448498	0.733676	2.681299	3.419788	0.433008	0.767727
100308495_TGI_at	ASAH1	negative	Discordant	1.067431	1.189853	0.36966	0.692406	25.55143	21.83552	0.24193	0.637547
100308581_TGI_at		positive	Discordant	0.00789	0.067161	0.90648	0.971468	-0.80399	1.217268	0.508943	0.815626
100308628_TGI_at	LRRC37A4	positive	Concordant	0.102841	0.055312	0.062985	0.31384	1.778532	0.995369	0.073969	0.439253
100308628_TGI_at	LRRC37A4	positive	Concordant	0.102841	0.055312	0.062985	0.31384	1.778532	0.995369	0.073969	0.439253
100308684_TGI_at		negative	Concordant	-2.02484	4.903359	0.679644	0.883837	15.30473	89.58474	0.864349	0.966864
100308717_TGI_at	GOLPH3L	positive	Concordant	0.426222	0.591866	0.471444	0.75471	-10.3821	10.80133	0.33646	0.688127
100308753_TGI_at	MEST	positive	Discordant	-0.33132	0.270772	0.2211	0.525188	-2.46276	4.875357	0.613458	0.863422
100308887_TGI_at	ANKRD13B	positive	Concordant	-0.13084	0.195402	0.503128	0.776148	1.241776	3.612309	0.731025	0.92225
100308899_TGI_at	C18orf10	negative	Discordant	0.412442	0.734306	0.574336	0.821133	3.855222	13.59996	0.776814	0.941122
100308980_TGI_at	IFNGR2	positive	Discordant	-1.72495	1.745871	0.323144	0.641332	-5.17702	31.84765	0.870868	0.966864
100308994_TGI_at	MTMR3	negative	Discordant	0.035862	0.120838	0.766636	0.923606	2.907028	2.178629	0.182093	0.575874
100309078_TGI_at	KCNE2	negative	Concordant	-1.10053	0.793282	0.165346	0.463931	-31.9282	14.42121	0.02683	0.301895
100309111_TGI_at	MUC21	positive	Discordant	-0.12498	0.096628	0.195855	0.506885	-0.76848	1.729694	0.656836	0.888268
100309111_TGI_at	MUC21	negative	Concordant	-0.12498	0.096628	0.195855	0.506885	-0.76848	1.729694	0.656836	0.888268
100309207_TGI_at	VDAC2	negative	Concordant	-0.1752	0.050307	0.000497	0.034954	-1.76826	0.92179	0.055074	0.403041
100309227_TGI_at		negative	Concordant	-0.01833	0.015087	0.2243	0.529887	-0.39799	0.274087	0.14649	0.549177
100309242_TGI_at	RBP2	positive	Concordant	0.092854	0.090071	0.302587	0.622924	3.621108	1.620001	0.025401	0.301895
100309243_TGI_at		positive	Concordant	0.377619	0.194357	0.052026	0.285485	1.488375	3.587644	0.678243	0.901173
100309263_TGI_at	RAB6A	negative	Concordant	-0.0994	0.117173	0.396248	0.704177	-3.28877	2.12589	0.121861	0.516945
100309376_TGI_at	MRPL10	positive	Discordant	-0.04356	0.063296	0.491303	0.767563	-1.38523	1.157197	0.231284	0.623069
100309484_TGI_at	HLA-C	positive	Discordant	-0.00398	0.008877	0.65376	0.873359	-0.11637	0.162492	0.473881	0.797777
100309484_TGI_at	HLA-C	positive	Discordant	-0.00398	0.008877	0.65376	0.873359	-0.11637	0.162492	0.473881	0.797777
100309484_TGI_at	HLA-C	positive	Discordant	-0.00398	0.008877	0.65376	0.873359	-0.11637	0.162492	0.473881	0.797777
100309484_TGI_at	HLA-C	positive	Discordant	-0.00398	0.008877	0.65376	0.873359	-0.11637	0.162492	0.473881	0.797777
100309522_TGI_at		positive	Discordant	-0.50127	0.728408	0.491346	0.767563	-10.5378	13.19177	0.424395	0.764753
100309539_TGI_at	RAD1	positive	Discordant	-0.61638	0.230704	0.007546	0.121882	-3.97787	4.171639	0.340311	0.692604

100309540_TGI_at		negative	Concordant	0.139824	0.170785	0.412951	0.711787	-2.39755	3.07643	0.435787	0.771076
100309580_TGI_at		negative	Concordant	-0.58258	0.525928	0.267987	0.578522	-3.0438	9.702947	0.75375	0.930374
100309580_TGI_at		negative	Concordant	-0.58258	0.525928	0.267987	0.578522	-3.0438	9.702947	0.75375	0.930374
100309580_TGI_at		negative	Concordant	-0.58258	0.525928	0.267987	0.578522	-3.0438	9.702947	0.75375	0.930374
100309723_TGI_at	ARNT	negative	Discordant	0.078689	0.077301	0.308694	0.622924	0.309575	1.411268	0.82637	0.957068
100309835_TGI_at	HOXC6	positive	Discordant	-0.79771	2.354381	0.734747	0.910662	-43.0164	42.3154	0.30936	0.670538
100309845_TGI_at	CLEC2D	negative	Discordant	0.003155	0.044217	0.943116	0.983056	-0.65868	0.801266	0.411049	0.75987
100309898_TGI_at	WDR52	negative	Discordant	0.047599	0.124706	0.702691	0.895052	-0.44507	2.246678	0.842966	0.958398
100309959_TGI_at	GIT2	positive	Discordant	-0.24798	0.226134	0.272803	0.582563	-9.14893	4.123853	0.026518	0.301895
100309997_TGI_at	SLC22A5	positive	Concordant	0.013652	0.765508	0.985772	0.996398	8.007604	13.82536	0.562456	0.840775
100310092_TGI_at	UBXN6	negative	Concordant	-0.07855	0.049828	0.114911	0.422151	-1.97059	0.903897	0.029249	0.301895
100310151_TGI_at	S100A14	negative	Discordant	0.059888	0.040821	0.142349	0.445546	0.889023	0.739528	0.229306	0.623069
100310197_TGI_at	RBM23	positive	Concordant	0.03072	0.051027	0.547155	0.796047	0.505859	0.92484	0.5844	0.851595
100310201_TGI_at	SNRPF	negative	Concordant	0.020415	0.056166	0.716253	0.899455	-1.03708	1.042822	0.319984	0.671733
100310285_TGI_at	STAT6	positive	Discordant	-0.04299	0.049843	0.388362	0.702944	-0.52212	0.916609	0.568935	0.843191
100310339_TGI_at	THSD4	negative	Discordant	0.042846	0.104342	0.681342	0.883903	3.995135	1.877898	0.033383	0.328895
100310339_TGI_at	THSD4	negative	Concordant	0.042846	0.104342	0.681342	0.883903	3.995135	1.877898	0.033383	0.328895
100310380_TGI_at	KLC1	positive	Discordant	-0.00307	0.203214	0.987942	0.996398	-0.04437	3.725871	0.990498	0.999082
100310523_TGI_at		negative	Discordant	0.330144	0.179739	0.06624	0.319057	0.829463	3.278177	0.800248	0.9484
100310523_TGI_at		positive	Concordant	0.330144	0.179739	0.06624	0.319057	0.829463	3.278177	0.800248	0.9484
100310631_TGI_at	RPUSD4	negative	Concordant	-5.22032	3.02993	0.084903	0.373119	-63.4489	55.86787	0.256084	0.639841
100310659_TGI_at		negative	Concordant	-0.03988	0.028835	0.166665	0.464625	-0.71071	0.518091	0.170128	0.566383
100310722_TGI_at		negative	Discordant	-0.05836	0.091249	0.522486	0.782375	0.109491	1.652888	0.947185	0.994854
100310797_TGI_at	IFNGR2	positive	Concordant	-0.12985	0.759769	0.864298	0.958243	3.373096	13.75742	0.806314	0.950782
100310831_TGI_at	SETX	negative	Discordant	0.696155	0.455226	0.126202	0.431533	3.583021	8.350568	0.667869	0.892207
100310881_TGI_at	ZNF436	positive	Concordant	0.532183	0.240131	0.026676	0.20322	6.952119	4.424885	0.11615	0.509594
100310890_TGI_at	ARNT	positive	Discordant	-0.2071	0.390811	0.596171	0.829561	-4.24549	7.16131	0.55329	0.837177
100310898_TGI_at	CROCC	negative	Concordant	-0.13569	0.081894	0.097537	0.398532	-0.82847	1.486827	0.577386	0.847029
100310941_TGI_at	ZRANB3	negative	Concordant	-1.59682	0.71852	0.026258	0.20322	-25.7623	13.24396	0.05175	0.39368
100310948_TGI_at	PDXDC2	positive	Discordant	-0.03004	0.119454	0.801447	0.931838	2.915708	2.17815	0.180696	0.575874
100310951_TGI_at	FMO2	positive	Concordant	0.015957	0.009689	0.099568	0.401512	0.155219	0.175209	0.375668	0.730277
100311198_TGI_at	KATNAL2	positive	Discordant	-0.28436	1.43	0.842377	0.952951	-27.7879	25.9686	0.284593	0.64733
100311276_TGI_at	VTA1	positive	Concordant	0.246076	0.107518	0.022096	0.201777	2.936077	1.955736	0.133287	0.536498
100311300_TGI_at	TMEM163	negative	Discordant	0.021492	0.027329	0.431616	0.722949	0.401785	0.497084	0.418926	0.764651
100311305_TGI_at	FGFR1OP2	negative	Discordant	0.006214	0.086757	0.942896	0.983056	-0.6897	1.562959	0.65901	0.888268
100311360_TGI_at	C6orf162	positive	Concordant	0.3802	0.261499	0.145967	0.450369	-0.54485	4.753283	0.908742	0.980193

100311377_TGI_at	ROCK2	positive	Concordant	-0.00903	0.06056	0.881455	0.965743	2.551229	1.094408	0.019745	0.2703
100311425_TGI_at	BAG5	positive	Discordant	-0.97355	0.381503	0.010714	0.149822	-9.90941	7.036811	0.159065	0.560509
100311425_TGI_at	BAG5	positive	Discordant	-0.97355	0.381503	0.010714	0.149822	-9.90941	7.036811	0.159065	0.560509
100311439_TGI_at	PCBP2	negative	Discordant	0.070284	0.040574	0.083228	0.371725	0.548795	0.741777	0.459398	0.784051
100311443_TGI_at	LRRC16A	positive	Concordant	0.59502	0.384947	0.122173	0.431533	1.900576	6.990788	0.785723	0.946142
100311443_TGI_at	LRRC16A	positive	Concordant	0.59502	0.384947	0.122173	0.431533	1.900576	6.990788	0.785723	0.946142
100311514_TGI_at		negative	Discordant	0.043569	0.030495	0.153086	0.4583	0.325173	0.556255	0.558834	0.839094
100311606_TGI_at	HLA-F	negative	Concordant	-0.35939	0.290963	0.216771	0.523093	-7.02704	5.262837	0.181805	0.575874
100311606_TGI_at	HLA-F	negative	Concordant	-0.35939	0.290963	0.216771	0.523093	-7.02704	5.262837	0.181805	0.575874
100311606_TGI_at	HLA-F	negative	Concordant	-0.35939	0.290963	0.216771	0.523093	-7.02704	5.262837	0.181805	0.575874
100311674_TGI_at	HHIP	negative	Concordant	-0.12982	0.0518	0.012204	0.153347	-2.76918	0.940206	0.003227	0.116559
100311674_TGI_at	HHIP	negative	Concordant	-0.12982	0.0518	0.012204	0.153347	-2.76918	0.940206	0.003227	0.116559
100311684_TGI_at	HLA-DQB2	positive	Discordant	-1.67896	2.203654	0.44612	0.733564	-29.7934	39.5181	0.450899	0.77692
100311684_TGI_at	HLA-DQB2	negative	Concordant	-1.67896	2.203654	0.44612	0.733564	-29.7934	39.5181	0.450899	0.77692
100311695_TGI_at	PLA2G5	positive	Discordant	0.090085	0.203988	0.658766	0.875236	5.066138	3.675839	0.168133	0.564154
100311704_TGI_at	HLA-DQB1	negative	Concordant	-1.00735	0.493489	0.041224	0.259282	-13.2256	8.949491	0.139459	0.547108
100311704_TGI_at	HLA-DQB1	positive	Discordant	-1.00735	0.493489	0.041224	0.259282	-13.2256	8.949491	0.139459	0.547108
100311757_TGI_at		positive	Discordant	0.410783	0.522701	0.431935	0.722949	0.138787	9.529064	0.98838	0.999082
100311757_TGI_at		positive	Discordant	0.410783	0.522701	0.431935	0.722949	0.138787	9.529064	0.98838	0.999082
100311790_TGI_at		negative	Concordant	-0.12422	0.143894	0.387988	0.702944	-3.14816	2.599065	0.225794	0.623069
100311821_TGI_at	NPHP3	negative	Discordant	0.307539	0.419881	0.463898	0.747582	2.936807	7.7375	0.704276	0.915742
100311825_TGI_at	RP3-377H14.5	negative	Concordant	-0.69787	0.31057	0.024635	0.203166	-15.6869	5.609522	0.005166	0.149307
100311825_TGI_at	RP3-377H14.5	negative	Concordant	-0.69787	0.31057	0.024635	0.203166	-15.6869	5.609522	0.005166	0.149307
100311825_TGI_at	RP3-377H14.5	negative	Concordant	-0.69787	0.31057	0.024635	0.203166	-15.6869	5.609522	0.005166	0.149307
100311825_TGI_at	RP3-377H14.5	negative	Concordant	-0.69787	0.31057	0.024635	0.203166	-15.6869	5.609522	0.005166	0.149307
100311884_TGI_at	PDPN	negative	Concordant	-0.11502	0.176595	0.514857	0.780157	-0.07829	3.202098	0.980494	0.999082
100311952_TGI_at		negative	Discordant	0.012891	0.054742	0.813835	0.939541	0.661086	1.010725	0.513066	0.819204
100311980_TGI_at		positive	Concordant	0.085486	0.046195	0.064233	0.314919	0.856148	0.856479	0.317498	0.671733
100312006_TGI_at	B3GNTL1	positive	Discordant	-0.3121	0.289729	0.281379	0.593566	-1.13262	5.317065	0.831315	0.957068
100312038_TGI_at	FAM13A1	negative	Discordant	0.045729	0.053775	0.395109	0.704177	0.550697	0.972151	0.571072	0.844914
100312395_TGI_at	PCM1	negative	Discordant	0.046677	0.042319	0.27004	0.579517	0.860332	0.779331	0.26962	0.64407
100312458_TGI_at	CCBE1	positive	Concordant	0.122289	0.041564	0.003259	0.080734	1.878093	0.753585	0.012695	0.215815
100312557_TGI_at	ARL17P1	negative	Discordant	6.173858	4.98463	0.215501	0.522164	31.55564	90.88606	0.728441	0.922014
100312774_TGI_at	C1orf113	positive	Concordant	9.480586	7.224678	0.189436	0.501991	146.0066	134.3133	0.27701	0.64407
100312805_TGI_at	ZNF165	negative	Concordant	-0.28608	0.277198	0.302058	0.622924	-5.02492	4.972064	0.312193	0.671386
100312821_TGI_at	MLF1	negative	Concordant	-0.71294	1.586072	0.653071	0.873359	12.45864	28.57795	0.662871	0.888268

100312826_TGI_at		negative	Discordant	0.081649	0.21144	0.699381	0.894706	1.110673	3.910411	0.776388	0.941122
100312853_TGI_at	CLUAP1	positive	Concordant	0.056995	0.084149	0.498211	0.774427	1.526935	1.525777	0.316943	0.671733
100312946_TGI_at	HLA-DRB1	negative	Concordant	0.003646	0.004328	0.399556	0.704177	-0.05008	0.078251	0.522156	0.821114
100312946_TGI_at	HLA-DRB1	positive	Concordant	0.003646	0.004328	0.399556	0.704177	-0.05008	0.078251	0.522156	0.821114
100313079_TGI_at	FBXO38	positive	Concordant	0.130743	0.084392	0.121325	0.431533	1.678469	1.532978	0.273557	0.64407
100313079_TGI_at	FBXO38	positive	Concordant	0.130743	0.084392	0.121325	0.431533	1.678469	1.532978	0.273557	0.64407
100313107_TGI_at	KCNMB3	negative	Concordant	0.001465	0.300802	0.996115	0.999257	0.20371	5.467429	0.970279	0.999082
100313121_TGI_at	HLA-C	positive	Concordant	0.010729	0.009263	0.246754	0.552806	0.183093	0.168118	0.276122	0.64407
100313121_TGI_at	HLA-C	positive	Concordant	0.010729	0.009263	0.246754	0.552806	0.183093	0.168118	0.276122	0.64407
100313238_TGI_at	ARHGEF19	negative	Discordant	0.071318	0.22599	0.75232	0.919699	2.683109	4.161531	0.519095	0.821114
100313404_TGI_at	JARID1A	negative	Concordant	0.147906	0.179074	0.408832	0.711479	-1.85366	3.220017	0.564839	0.841435
100313479_TGI_at	NPHP3	negative	Concordant	0.036373	0.137277	0.791037	0.929308	-1.9085	2.491408	0.443658	0.772392
100313509_TGI_at	FAM63A	negative	Discordant	0.126794	0.063732	0.046648	0.269292	1.490058	1.213063	0.219318	0.623069
100313510_TGI_at	AGER	negative	Discordant	0.018265	0.00618	0.003122	0.080734	0.293586	0.113281	0.009551	0.205089
100313559_TGI_at	CLUAP1	positive	Discordant	0.040452	0.083726	0.628988	0.853415	1.017272	1.514862	0.501884	0.813334
100313618_TGI_at		negative	Discordant	-0.30392	0.999132	0.760987	0.923606	-12.8552	18.07526	0.476959	0.799852
100313726_TGI_at		negative	Concordant	-0.01212	0.093342	0.896729	0.966995	-0.63131	1.707425	0.711571	0.915742
100313726_TGI_at		negative	Concordant	-0.01212	0.093342	0.896729	0.966995	-0.63131	1.707425	0.711571	0.915742
100313731_TGI_at	SGCD	positive	Discordant	0.021706	0.414816	0.958269	0.988973	0.059012	7.556665	0.993769	0.999082
100313766_TGI_at	HLA-DQA2	negative	Discordant	0.000864	0.006185	0.888876	0.965743	0.071559	0.111975	0.522785	0.821114
100313766_TGI_at	HLA-DQA2	positive	Concordant	0.000864	0.006185	0.888876	0.965743	0.071559	0.111975	0.522785	0.821114
100313804_TGI_at		positive	Discordant	-0.67386	0.559855	0.228732	0.531663	-11.535	10.21043	0.25859	0.640563
100313804_TGI_at		negative	Concordant	-0.67386	0.559855	0.228732	0.531663	-11.535	10.21043	0.25859	0.640563
100313840_TGI_at		positive	Discordant	0.399325	0.376757	0.28919	0.605622	1.051329	6.909751	0.879067	0.968426
100313880_TGI_at		positive	Discordant	0.021939	0.138965	0.874555	0.965712	1.342558	2.516327	0.593661	0.859272
100313880_TGI_at		positive	Concordant	0.021939	0.138965	0.874555	0.965712	1.342558	2.516327	0.593661	0.859272
100313943_TGI_at	CCDC51	negative	Concordant	-0.16809	0.059399	0.004657	0.09827	-2.14976	1.069842	0.044493	0.37452
100313972_TGI_at	FLOT1	negative	Concordant	-0.53465	0.831871	0.520412	0.781971	-9.65369	15.33014	0.528878	0.825639
100313972_TGI_at	FLOT1	negative	Concordant	-0.53465	0.831871	0.520412	0.781971	-9.65369	15.33014	0.528878	0.825639
100314018_TGI_at	RPS19	negative	Concordant	-0.01449	0.006539	0.026691	0.20322	-0.31815	0.118406	0.00721	0.189429
100314021_TGI_at	ARIH2	positive	Discordant	-0.43667	0.116011	0.000167	0.02741	-3.5702	2.109056	0.090494	0.46152
100314021_TGI_at	ARIH2	positive	Discordant	-0.43667	0.116011	0.000167	0.02741	-3.5702	2.109056	0.090494	0.46152

Supplementary Table 11: Percentage concordance of mRNA associations at different GWAS P value cutoffs for eSNPs

The table shows the % concordance of mRNA associations for different GWAS P value cutoffs. The concordance was calculated for FEV₁ and for FEV₁/FVC GWAS, separately. eSNP GWAS P value cutoff: The GWAS P value cutoff for eSNPs that regulate the expression of probesets in lung tissue. No. of Concordant: Number of concordant probesets (compared to the expected given the SNP effect on lung function and probeset expression). No. of Discordant: Number of discordant probesets at this GWAS P value for eSNPs. Concordance percentage: % of concordant probesets to all eSNP-regulated probeset at this GWAS cutoff.

Percentage concordance of mRNA associations at different GWAS P value cutoffs for eSNPs			
FEV₁			
eSNP GWAS P value cutoff	No. of Concordant	No. of Discordant	Concordance percentage
0.001	103	77	57
1.00E-04	28	17	62
1.00E-05	6	3	67
1.00E-06	6	3	67
1.00E-07	6	2	75
1.00E-08	2	2	50
FEV₁/FVC			
eSNP GWAS P value cutoff	No. of Concordant	No. of Discordant	Concordance percentage
0.001	85	80	52
1.00E-04	19	17	53
1.00E-05	5	10	33
1.00E-06	5	4	56
1.00E-07	5	4	56
1.00E-08	5	4	56

Supplementary Table 12: Lung eSNPs at 4q31 in LD with the functional SNPs reported in Zhou *et al.* 2012

The table shows lung tissue eSNPs identified in this study in the HHIP region at 4q31 and their LD (R Squared and D prime) with two functional SNPs identified *in vitro* in Zhou *et al.* (30). Coordinate_HG18 refers to the SNPs position using human genome build 18.

Lung eSNPs at 4q31 in LD with the functional SNPs reported in Zhou et al. 2012					
Functional SNP in Zhou <i>et al.</i>	Proxy eSNP in the current manuscript	Distance (bp)	RSquared	DPrime	Coordinate_HG18
rs6537296	rs1542725	400	0.935	1	145707784
	rs7655625	2019	0.935	1	145705365
	rs11100860	8795	0.935	1	145698589
	<u>rs12509311</u>	9272	0.935	1	145698112
	rs995758	9733	0.935	1	145697651
	rs6842889	8054	0.9	0.965	145699330
	<u>rs13141641</u>	18522	0.869	0.964	145725906
	rs10013495	17704	0.118	1	145725088
	rs10519717	7594	0.109	1	145699790
	rs6852830	18624	0.109	1	145726008
	rs1996020	23260	0.109	1	145730644
	rs2130338	21733	0.054	0.73	145685651
	rs11938704	44564	0.028	0.51	145662820
	rs6854832	46175	0.028	0.51	145661209
	rs4835638	48641	0.028	0.51	145658743
rs1542725	rs7655625	2419	1	1	145705365
	rs11100860	9195	1	1	145698589
	rs12509311	9672	1	1	145698112
	rs995758	10133	1	1	145697651
	rs6842889	8454	0.967	1	145699330
	rs6537296	400	0.935	1	145707384
	rs13141641	18122	0.933	0.966	145725906
	rs10013495	17304	0.126	1	145725088
	<u>rs10519717</u>	7994	0.117	1	145699790
	rs6852830	18224	0.117	1	145726008
	rs1996020	22860	0.117	1	145730644

	rs2130338	22133	0.061	0.75	145685651
	rs11938704	44964	0.035	0.544	145662820
	rs6854832	46575	0.035	0.544	145661209
	rs4835638	49041	0.035	0.544	145658743

Supplementary Table 13: Lung eSNPs shared with blood/sputum eQTLs reported in Castaldi *et al.* 2015

The paper by Castaldi *et al.* 21 integrated SNPs from 5812 COPD cases and 3955 controls with blood and sputum eQTLs from 121 COPD subjects. SNPs associated with both gene expression and COPD susceptibility at an FDR of 10% were observed for 36 unique probesets at 19 distinct genomic loci.

The Table shows the lung eSNPs identified in this study along with their eQTL P values and the probestes they regulate. The Table also shows the COPD and gene expression q-values, and the tissue where the SNP function as an eQTL(blood, sputum or both) and the gene(s) they regulate in these tissues.

Lung eSNPs shared with blood/sputum eQTLs reported in Castaldi et al. 2015									
Lung function eSNP results			eQTL results in Castaldi et al.						
eSNP	Lung eQTL P value	Lung eQTL regulated probeset	COPD GWAS q-value	Sample	Best blood eQTL q-value	Best sputum eQTL q-value	eQTL gene	eQTL gene 2	eQTL gene 3
rs12914385	3.45E-47	IREB2	<0.001	Both	<0.001	0.02	IREB2	CHRNA3	PSMA4
rs12914385	7.39E-06	Maps to en Expressed Sequence Taq located between IREB2 and PSMA4 genes	<0.001	Both	<0.001	0.02	IREB2	CHRNA3	PSMA4
rs12914385	3.75E-18	CHRNA5	<0.001	Both	<0.001	0.02	IREB2	CHRNA3	PSMA4
rs12914385	7.80E-10	PSMA4	<0.001	Both	<0.001	0.02	IREB2	CHRNA3	PSMA4
rs1394371	4.10E-17	CHRNA5	0.003	Blood	0.06	>0.1	WDR61		
rs1394371	9.00E-06	Maps to en Expressed Sequence Taq located between IREB2 and PSMA4 genes	0.003	Blood	0.06	>0.1	WDR61		
rs1394371	7.71E-42	IREB2	0.003	Blood	0.06	>0.1	WDR61		
rs1394371	2.10E-10	PSMA4	0.003	Blood	0.06	>0.1	WDR61		
rs2869967	1.74E-06	FAM13A1	<0.001	Blood	0.029	>0.1	FAM13A		
rs720485	5.98E-07	HHIP	<0.001	Blood	0.089	>0.1	HHIP		
rs12914385	3.75E-18	CHRNA5	<0.001	Both	<0.001	0.02	IREB2	CHRNA3	PSMA4
rs12914385	7.39E-06	Maps to en Expressed Sequence Taq located between IREB2 and PSMA4 genes	<0.001	Both	<0.001	0.02	IREB2	CHRNA3	PSMA4
rs12914385	7.80E-10	PSMA4	<0.001	Both	<0.001	0.02	IREB2	CHRNA3	PSMA4
rs12914385	3.45E-47	IREB2	<0.001	Both	<0.001	0.02	IREB2	CHRNA3	PSMA4
rs720485	5.98E-07	HHIP	<0.001	Blood	0.089	>0.1	HHIP		

Supplementary Table 14: Pleiotropy of lung function eSNPs from GWAS catalog

Table shows the result of integrating eSNPs with published associations from the GWAS catalog. Supplementary Table 14A shows the results for all lung function eSNPs, and supplementary Table 14B shows the results for the best lung function eSNP per probeset.

eSNP: SNP that is associated with either FEV₁ or FEV₁/FVC from the SpiroMeta GWAS with $P_{\text{GWAS}} < 0.001$, which also acts as a *cis* or *trans* lung eQTL at 10% FDR in lung tissue. Chr: chromosome. eSNP Position: position using NCBI36/hg18 coordinates. GWAS_P value: eSNP P value for association with lung function from the GWAS study. eQTL Z meta: The Z score of meta-analysis results of eQTL study across the three datasets (UBC, Groningen, Laval). eQTL -log₁₀pvalue: the -log₁₀ of eQTL p value from the lung eQTL study.. eSNP regulated gene: gene whose expression is regulated by the eSNP. eQTL_study: Whether the SNP is associated with FEV₁ or FEV₁/FVC and acts as a *cis*- or *trans*-eQTL. eQTL_alleles: two eQTL SNP alleles from the eQTL study. Note: The SNP data in the GWAS catalog has been mapped to dbSNP Build 137 and Genome Assembly, GRCh37/hg19. PUBMEDID: PubMed identification number. DISEASE/TRAIT: Disease or trait examined in study. P-VALUE: Reported p-value for strongest SNP risk allele (linked to dbGaP Association Browser). OR or BETA: Reported odds ratio or beta-coefficient associated with strongest SNP risk allele.

Pleiotropy of all lung function eSNPs in the NHGRI GWAS Catalog											
eSNP	Chr	GWAS_P value	eQTL Z meta	eQTL -log ₁₀ pvalue	eSNP regulated Gene	eQTL_study	eQTL_alleles	PUBMEDID	Disease.Trait	p.Value	OR.or.beta
rs1466535	12	5.76E-04	-10.15	-23.4797	STAT6	FEV1FVC_cis	G_A	22055160	Abdominal aortic aneurysm	5.00E-10	1.15
rs1466535	12	5.76E-04	9.823	-22.0475	STAT6	FEV1FVC_cis	G_A	22055160	Abdominal aortic aneurysm	5.00E-10	1.15
rs12310399	12	1.20E-04	4.642	-5.4621	VEZT	FEV1FVC_cis	C_T	23648065	Adverse response to chemotherapy (neutropenia/leucopenia) (paclitaxel + carboplatin)	2.00E-07	1.85
rs12310399	12	1.20E-04	4.824	-5.8517	FGD6	FEV1FVC_cis	C_T	23648065	Adverse response to chemotherapy (neutropenia/leucopenia) (paclitaxel + carboplatin)	2.00E-07	1.85
rs11755724	6	1.44E-04	-5.526	-7.4846	RREB1	FEV1FVC_cis	A_G	20385826	Age-related macular degeneration	1.00E-06	1.15
rs8321	6	3.72E-04	12.508	-35.1707		FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	4.467	-5.1006		FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-4.771	-5.7368	FLOT1	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	7.796	-14.1945	HCG18	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	12.972	-37.7536	HLA-A	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-6.051	-8.8418	TUBB	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-4.829	-5.8626	RP3-377H14.5	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-4.518	-5.2046	FLOT1	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	6.502	-10.101		FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	4.526	-5.221	HLA-G	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	12.486	-35.0505	BTN3A2	FEV1_trans	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	7.79	-14.1739	HLA-G	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	5.06	-6.3775	HCG2P7	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-6.197	-9.24	HLA-F	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	5.616	-7.709		FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-7.181	-12.1599		FEV1_trans	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-7.155	-12.0774		FEV1_trans	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-7.948	-14.7223	C6orf12	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR

rs8321	6	3.72E-04	5.051	-6.357	ZNRD1	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	7.45	-13.0299	HCG18	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	8.125	-15.3493	HLA-C	FEV1_trans	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-7.822	-14.2841	HLA-A	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-4.972	-6.1787	SFTA2	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	4.949	-6.1273	VARS2	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	4.344	-4.8541	HCG2P7	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	14.213	-45.1186	ZFP57	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-9.092	-19.0122	HLA-DRB3	FEV1_trans	C_A	19115949	AIDS progression	5.00E-07	NR
rs8321	6	3.72E-04	-8.022	-14.9828	HCG4P6	FEV1_cis	C_A	19115949	AIDS progression	5.00E-07	NR
rs17486278	15	1.29E-05	-5.602	-7.6739		FEV1_cis	C_A	22837378	Airflow obstruction	2.00E-07	1.18
rs17486278	15	1.29E-05	15.148	-51.1073		FEV1_cis	C_A	22837378	Airflow obstruction	2.00E-07	1.18
rs17486278	15	1.27E-05	15.148	-51.1073		FEV1FVC_cis	C_A	22837378	Airflow obstruction	2.00E-07	1.18
rs17486278	15	1.27E-05	-5.602	-7.6739		FEV1FVC_cis	C_A	22837378	Airflow obstruction	2.00E-07	1.18
rs17486278	15	1.27E-05	-6.945	-11.422	PSMA4	FEV1FVC_cis	C_A	22837378	Airflow obstruction	2.00E-07	1.18
rs17486278	15	1.29E-05	-6.945	-11.422	PSMA4	FEV1_cis	C_A	22837378	Airflow obstruction	2.00E-07	1.18
rs17486278	15	1.29E-05	10.207	-23.734	CHRNA5	FEV1_cis	C_A	22837378	Airflow obstruction	2.00E-07	1.18
rs17486278	15	1.27E-05	10.207	-23.734	CHRNA5	FEV1FVC_cis	C_A	22837378	Airflow obstruction	2.00E-07	1.18
rs2044029	15	4.68E-05	4.115	-4.4121	THSD4	FEV1_cis	G_A	22837378	Airflow obstruction	1.00E-07	1.17
rs2044029	15	4.68E-05	4.506	-5.1801	THSD4	FEV1_cis	G_A	22837378	Airflow obstruction	1.00E-07	1.17
rs2044029	15	6.21E-10	4.115	-4.4121	THSD4	FEV1FVC_cis	G_A	22837378	Airflow obstruction	1.00E-07	1.17
rs2044029	15	6.21E-10	4.506	-5.1801	THSD4	FEV1FVC_cis	G_A	22837378	Airflow obstruction	1.00E-07	1.17
rs8031948	15	6.68E-05	6.904	-11.2962	PSMA4	FEV1FVC_cis	G_T	22837378	Airflow obstruction	3.00E-09	1.22
rs8031948	15	1.72E-05	16.147	-57.9236		FEV1_cis	G_T	22837378	Airflow obstruction	3.00E-09	1.22
rs8031948	15	6.68E-05	10.474	-24.9441	CHRNA5	FEV1FVC_cis	G_T	22837378	Airflow obstruction	3.00E-09	1.22
rs8031948	15	6.68E-05	5.755	-8.0623		FEV1FVC_cis	G_T	22837378	Airflow obstruction	3.00E-09	1.22
rs8031948	15	1.72E-05	6.904	-11.2962	PSMA4	FEV1_cis	G_T	22837378	Airflow obstruction	3.00E-09	1.22
rs8031948	15	1.72E-05	5.755	-8.0623		FEV1_cis	G_T	22837378	Airflow obstruction	3.00E-09	1.22
rs8031948	15	1.72E-05	10.474	-24.9441	CHRNA5	FEV1_cis	G_T	22837378	Airflow obstruction	3.00E-09	1.22
rs8031948	15	6.68E-05	16.147	-57.9236		FEV1FVC_cis	G_T	22837378	Airflow obstruction	3.00E-09	1.22
rs11745587	5	3.29E-04	-5.747	-8.0417	RAD50	FEV1FVC_cis	A_G	22561531	Asthma	2.00E-06	1.26
rs11745587	5	3.29E-04	-5.296	-6.9268		FEV1FVC_cis	A_G	22561531	Asthma	2.00E-06	1.26
rs11745587	5	3.29E-04	-5.217	-6.7403		FEV1FVC_cis	A_G	22561531	Asthma	2.00E-06	1.26
rs11745587	5	3.29E-04	-4.761	-5.7153		FEV1FVC_cis	A_G	22561531	Asthma	2.00E-06	1.26
rs11745587	5	3.29E-04	5.409	-7.1981	SLC22A5	FEV1FVC_cis	A_G	22561531	Asthma	2.00E-06	1.26
rs9272346	6	8.63E-04	10.049	-23.0324	HLA-DQB2	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	16.482	-60.3061	HLA-DRB4	FEV1_trans	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	11.492	-29.8395	AGPAT1	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	10.107	-23.2887	C19orf6	FEV1_trans	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	13.665	-41.7844	HLA-DQB1	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	12.808	-36.83	HLA-DRB5	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	10.924	-27.053	HLA-DRB1	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	-8.603	-17.1098	AGPAT1	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	-5.675	-7.858	TAP2	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	13.463	-40.588	HLA-DQB1	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	20.082	-88.9745	HLA-DQB1	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR

rs9272346	6	8.63E-04	-7.449	-13.0266	HLA-DQB2	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	-6.341	-9.6415		FEV1_trans	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	14.33	-45.8473	HLA-DRB6	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	13.484	-40.7116	HLA-DQB1	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	16.468	-60.2055	HLA-DQA2	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	-7.529	-13.2913	CDSN	FEV1_trans	G_A	23181788	Asthma	2.00E-08	NR
rs9272346	6	8.63E-04	-7.577	-13.4514	HLA-DRB1	FEV1_cis	G_A	23181788	Asthma	2.00E-08	NR
rs404860	6	9.95E-10	-5.575	-7.6064	HLA-DQA2	FEV1FVC_cis	C_T	21804548	Asthma	4.00E-23	1.21
rs3132581	6	1.96E-05	-7.907	-14.5789	SFTA2	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	6.528	-10.1762	VARS2	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	5.843	-8.2901		FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	6.65	-10.533	CDSN	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	7.87	-14.4502	HCG18	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	-6.798	-10.9744	HLA-A	FEV1_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	-4.153	-4.4839	C6orf12	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	-4.521	-5.2108	MICB	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	-8.814	-17.9181	ZFP57	FEV1FVC_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	-9.935	-22.5329	HLA-DRB3	FEV1FVC_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	-9.099	-19.0402		FEV1_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	7.87	-14.4502	HCG18	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	6.319	-9.5796	HLA-G	FEV1FVC_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar	2.00E-07	NR

									disorder, major depressive disorder, and schizophrenia (combined)		
rs3132581	6	2.00E-05	-9.215	-19.5069		FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	6.319	-9.5796	HLA-G	FEV1_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	-8.935	-18.3902		FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	-7.201	-12.2235	HCG4P6	FEV1_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	9.364	-20.1148	BTN3A2	FEV1_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	7.759	-14.0675	HLA-C	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	-9.099	-19.0402		FEV1FVC_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	5.001	-6.2439	PSORS1C3	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	7.564	-13.408	HCG18	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	-6.774	-10.9022	TUBB	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	-7.201	-12.2235	HCG4P6	FEV1FVC_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	-8.814	-17.9181	ZFP57	FEV1_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	5.379	-7.1255	PSORS1C1	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	5.001	-6.2439	PSORS1C3	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	4.987	-6.2124	APOM	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	7.259	-12.409	HLA-A	FEV1FVC_trans	A_G	23453885	Autism spectrum disorder, attention	2.00E-07	NR

									deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)		
rs3132581	6	2.00E-05	5.843	-8.2901		FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	-6.774	-10.9022	TUBB	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	6.528	-10.1762	VAR2	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	7.259	-12.409	HLA-A	FEV1_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	-9.935	-22.5329	HLA-DRB3	FEV1_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	9.364	-20.1148	BTN3A2	FEV1FVC_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	-4.153	-4.4839	C6orf12	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	-7.907	-14.5789	SFTA2	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	-4.521	-5.2108	MICB	FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	-6.798	-10.9744	HLA-A	FEV1FVC_trans	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	-8.935	-18.3902		FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	7.759	-14.0675	HLA-C	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	1.96E-05	-9.215	-19.5069		FEV1_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	4.987	-6.2124	APOM	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	5.379	-7.1255	PSORS1C1	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR

rs3132581	6	2.00E-05	6.65	-10.533	CDSN	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs3132581	6	2.00E-05	7.564	-13.408	HCG18	FEV1FVC_cis	A_G	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-07	NR
rs8321	6	3.72E-04	12.508	-35.1707		FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	4.467	-5.1006		FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-4.771	-5.7368	FLOT1	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	7.796	-14.1945	HCG18	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	12.972	-37.7536	HLA-A	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-6.051	-8.8418	TUBB	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-4.829	-5.8626	RP3-377H14.5	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-4.518	-5.2046	FLOT1	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	6.502	-10.101		FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	4.526	-5.221	HLA-G	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	12.486	-35.0505	BTN3A2	FEV1_trans	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	7.79	-14.1739	HLA-G	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	5.06	-6.3775	HCG2P7	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-6.197	-9.24	HLA-F	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and	8.00E-09	1.08

									schizophrenia (combined)		
rs8321	6	3.72E-04	5.616	-7.709		FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-7.181	-12.1599		FEV1_trans	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-7.155	-12.0774		FEV1_trans	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-7.948	-14.7223	C6orf12	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	5.051	-6.357	ZNRD1	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	7.45	-13.0299	HCG18	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	8.125	-15.3493	HLA-C	FEV1_trans	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-7.822	-14.2841	HLA-A	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-4.972	-6.1787	SFTA2	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	4.949	-6.1273	VAR52	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	4.344	-4.8541	HCG2P7	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	14.213	-45.1186	ZFP57	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-9.092	-19.0122	HLA-DRB3	FEV1_trans	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs8321	6	3.72E-04	-8.022	-14.9828	HCG4P6	FEV1_cis	C_A	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	8.00E-09	1.08
rs2021722	6	8.30E-04	8.098	-15.2528	BTN3A2	FEV1_trans	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	-6.243	-9.3673		FEV1_trans	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar	2.00E-12	NR

									disorder, major depressive disorder, and schizophrenia (combined)		
rs2021722	6	8.30E-04	-5.741	-8.0263	RP3-377H14.5	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	7.986	-14.8558		FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	5.632	-7.7493	VAR52	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	-8.291	-15.9496		FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	-4.559	-5.2891	SFTA2	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	-6.859	-11.159	HLA-DRB3	FEV1_trans	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	-5.559	-7.5665	HCG18	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	-7.299	-12.5377		FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	-6.046	-8.8283	TUBB	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	-5.535	-7.5069	HCG18	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	-6.821	-11.0438	ZFP57	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	8.616	-17.1591	HLA-A	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	-7.685	-13.8153	HCG4P6	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	5.038	-6.3275	HLA-G	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs2021722	6	8.30E-04	5.922	-8.4975	CDSN	FEV1_cis	T_C	23453885	Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)	2.00E-12	NR
rs886424	6	1.55E-04	-9.77	-21.8197		FEV1FVC_trans	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37

rs886424	6	1.55E-04	5.16	-6.6074	APOM	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	-10.72	-26.0862	HLA-DRB3	FEV1_trans	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	5.268	-6.8604	PSORS1C1	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	6.223	-9.3118	CDSN	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	-7.777	-14.1292		FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	4.228	-4.6275	PSORS1C3	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	4.362	-4.8898	HCG2P7	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	-6.23	-9.3312	HCG4P6	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	9.644	-21.283	BTN3A2	FEV1FVC_trans	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	-7.777	-14.1292		FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	-9.77	-21.8197		FEV1_trans	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	7.591	-13.4983	HCG18	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	-6.23	-9.3312	HCG4P6	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	5.268	-6.8604	PSORS1C1	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	5.417	-7.2175	VARS2	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	8.902	-18.2608	HLA-A	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	4.655	-5.4895	HCG2P7	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	5.417	-7.2175	VARS2	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	4.655	-5.4895	HCG2P7	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	-7.814	-14.2565	HLA-A	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	7.704	-13.8798	HCG18	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	5.16	-6.6074	APOM	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	11.161	-28.1988	ZFP57	FEV1FVC_trans	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	-4.302	-4.7714	MICB	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	-6.216	-9.2924	SFTA2	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	-4.302	-4.7714	MICB	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	-7.87	-14.4502		FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	-6.216	-9.2924	SFTA2	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	4.775	-5.7454		FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	-7.851	-14.3843	TUBB	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	4.228	-4.6275	PSORS1C3	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	-7.87	-14.4502		FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	-6.141	-9.0862	C6orf12	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	8.902	-18.2608	HLA-A	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	-7.851	-14.3843	TUBB	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	7.591	-13.4983	HCG18	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	-6.141	-9.0862	C6orf12	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	7.704	-13.8798	HCG18	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	4.362	-4.8898	HCG2P7	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	9.644	-21.283	BTN3A2	FEV1_trans	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	-10.72	-26.0862	HLA-DRB3	FEV1FVC_trans	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	4.775	-5.7454		FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	8.885	-18.1944	HLA-C	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	6.223	-9.3118	CDSN	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	5.918	-8.4869	HLA-G	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	11.161	-28.1988	ZFP57	FEV1_trans	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	8.885	-18.1944	HLA-C	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	2.17E-05	5.918	-8.4869	HLA-G	FEV1_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs886424	6	1.55E-04	-7.814	-14.2565	HLA-A	FEV1FVC_cis	T_C	22688191	Bipolar disorder and schizophrenia	9.00E-07	1.37
rs2524005	6	8.77E-04	5.336	-7.0222	C6orf12	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-6.843	-11.1104	HCG18	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	10.263	-23.9853	HLA-F	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	5.034	-6.3184		FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-5.342	-7.0366	HLA-G	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	4.095	-4.3745	TUBB	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	12.616	-35.7636	HCG4P6	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32

rs2524005	6	8.77E-04	4.774	-5.7433		FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-4.574	-5.3201	HCG8	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	6.306	-9.5431	RP3-377H14.5	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-6.875	-11.2077	HCG18	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	17.127	-65.0299	ZFP57	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-9.622	-21.19	HLA-G	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-5.309	-6.9577		FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-6.672	-10.598	CDSN	FEV1_trans	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	7.73	-13.9684	HLA-A	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-6.795	-10.9653	HCG2P7	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	4.203	-4.5794	SFTA2	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-8.723	-17.5671		FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-6.686	-10.6395	BTN3A2	FEV1_trans	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-7.903	-14.565	HCG2P7	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	10.438	-24.7792	NA	FEV1_trans	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	14.942	-49.7554		FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	-8.366	-16.2247		FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs2524005	6	8.77E-04	16.667	-61.6426	HLA-A	FEV1_cis	G_A	22688191	Bipolar disorder and schizophrenia	5.00E-07	1.32
rs1864325	17	3.59E-05	34.904	266.1894		FEV1_trans	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	8.262	-15.8439	KIAA1267	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	26.735	-156.734		FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	-22.26	109.0446	MAPT	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	29.648	192.4438	KIAA1267	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	34.399	258.5834	LRRC37A4	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	30.698	206.2181		FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	-7.895	-14.5371		FEV1_trans	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	16.459	-60.141		FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	-39.86	346.7067		FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	19.131	-80.8558		FEV1_trans	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	12.517	-35.2199	PLEKHM1	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	-4.795	-5.7887	LRRC37A	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	21.737	104.0376		FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	22.247	108.9187	MAPT	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	10.293	-24.1205	MAPT	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	39.701	-343.958		FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	41.554	376.6726	LRRC37A4	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	34.026	253.0365		FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	-6.183	-9.2014	BRWD1	FEV1_trans	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	21.784	104.4827	MAPT	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04
rs1864325	17	3.59E-05	-9.803	-21.9614	WNT3	FEV1_cis	T_C	22504420	Bone mineral density	5.00E-11	0.04

rs8014204	14	3.33E-04	-7.397	-12.8561	MLH3	FEV1FVC_cis	A_G	21490707	Caffeine consumption	5.00E-06	0.07
rs8014204	14	3.33E-04	-6.67	-10.5921	MLH3	FEV1FVC_cis	A_G	21490707	Caffeine consumption	5.00E-06	0.07
rs8014204	14	3.33E-04	12.21	-33.5608	KIAA0317	FEV1FVC_cis	A_G	21490707	Caffeine consumption	5.00E-06	0.07
rs8014204	14	3.33E-04	6.063	-8.8742	MLH3	FEV1FVC_cis	A_G	21490707	Caffeine consumption	5.00E-06	0.07
rs8014204	14	3.33E-04	7.062	-11.7848	MLH3	FEV1FVC_cis	A_G	21490707	Caffeine consumption	5.00E-06	0.07
rs8014204	14	3.33E-04	-4.42	-5.0057	TMED10	FEV1FVC_cis	A_G	21490707	Caffeine consumption	5.00E-06	0.07
rs8014204	14	3.33E-04	10.679	-25.894	RPS6KL1	FEV1FVC_cis	A_G	21490707	Caffeine consumption	5.00E-06	0.07
rs8014204	14	3.33E-04	16.85	-62.9792	KIAA0317	FEV1FVC_cis	A_G	21490707	Caffeine consumption	5.00E-06	0.07
rs2187668	6	2.05E-06	-6.623	-10.4535	RNF5	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	9.985	-22.7513	HLA-DQB1	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	5.044	-6.3411	HLA-DQB2	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	8.741	-17.6363	HLA-C	FEV1FVC_trans	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	4.389	-4.9436	NOTCH4	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	-8.762	-17.7171	ZFP57	FEV1FVC_trans	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	5.791	-8.1551	HLA-DQB1	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	-5.404	-7.1859	HLA-DPB1	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	9.954	-22.6157	HLA-DQB1	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	-5.688	-7.891	HLA-DRB1	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	4.661	-5.5021	HLA-DPA1	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	9.973	-22.6988	HLA-DQB1	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	-7.936	-14.6803		FEV1FVC_trans	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	5.539	-7.5168	HLA-DQA2	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	6.721	-10.7436	APOM	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	15.376	-52.625	HLA-DRB3	FEV1FVC_trans	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	7.801	-14.2117	HLA-A	FEV1FVC_trans	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	5.14	-6.5611	AGPAT1	FEV1FVC_cis	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	-6.471	-10.0116	HCG4P6	FEV1FVC_trans	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	6.599	-10.3831	BTN3A2	FEV1FVC_trans	T_C	17558408	Celiac disease	1.00E-19	7.04
rs2187668	6	2.05E-06	-6.623	-10.4535	RNF5	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	9.985	-22.7513	HLA-DQB1	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	5.044	-6.3411	HLA-DQB2	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	8.741	-17.6363	HLA-C	FEV1FVC_trans	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	4.389	-4.9436	NOTCH4	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	-8.762	-17.7171	ZFP57	FEV1FVC_trans	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	5.791	-8.1551	HLA-DQB1	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	-5.404	-7.1859	HLA-DPB1	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	9.954	-22.6157	HLA-DQB1	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	-5.688	-7.891	HLA-DRB1	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	4.661	-5.5021	HLA-DPA1	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	9.973	-22.6988	HLA-DQB1	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	-7.936	-14.6803		FEV1FVC_trans	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	5.539	-7.5168	HLA-DQA2	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	6.721	-10.7436	APOM	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	15.376	-52.625	HLA-DRB3	FEV1FVC_trans	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	7.801	-14.2117	HLA-A	FEV1FVC_trans	T_C	20190752	Celiac disease	1.00E-50	6.23

rs2187668	6	2.05E-06	5.14	-6.5611	AGPAT1	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	-6.471	-10.0116	HCG4P6	FEV1FVC_trans	T_C	20190752	Celiac disease	1.00E-50	6.23
rs2187668	6	2.05E-06	6.599	-10.3831	BTN3A2	FEV1FVC_cis	T_C	20190752	Celiac disease	1.00E-50	6.23
rs652888	6	2.45E-04	4.297	-4.7616	HLA-DRB5	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	6.19	-9.2207	HCG18	FEV1FVC_trans	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	4.036	-4.2646	PSORS1C1	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	-5.31	-6.9601		FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	-9.984	-22.7469	HLA-DRB3	FEV1FVC_trans	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	5.289	-6.9101	APOM	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	-6.266	-9.4313	HCG4P6	FEV1FVC_trans	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	9.501	-20.6822	HLA-DQB1	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	-5.035	-6.3207		FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	-6.26	-9.4146	C6orf12	FEV1FVC_trans	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	-9.613	-21.152	ZFP57	FEV1FVC_trans	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	6.165	-9.1519	HLA-C	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	9.602	-21.1056	HLA-DQB1	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	5.976	-8.6408	HLA-DQB1	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	9.605	-21.1183	HLA-DQB1	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	-5.818	-8.2251	RNF5	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	-4.142	-4.4631	SFTA2	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	7.552	-13.3679	HLA-A	FEV1FVC_trans	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	-7.683	-13.8085		FEV1FVC_trans	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	4.51	-5.1882	ATP6V1G2	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	4.342	-4.8502	CDSN	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs652888	6	2.45E-04	5.347	-7.0485	AGPAT1	FEV1FVC_cis	G_A	23760081	Chronic hepatitis B infection	7.00E-13	1.38
rs1419881	6	2.53E-04	4.778	-5.7519	PSORS1C1	FEV1_cis	G_A	23760081	Chronic hepatitis B infection	1.00E-18	1.37
rs1419881	6	2.53E-04	4.888	-5.992		FEV1_cis	G_A	23760081	Chronic hepatitis B infection	1.00E-18	1.37
rs1419881	6	2.53E-04	7.054	-11.7598		FEV1_cis	G_A	23760081	Chronic hepatitis B infection	1.00E-18	1.37
rs1419881	6	2.53E-04	5.335	-7.0198		FEV1_cis	G_A	23760081	Chronic hepatitis B infection	1.00E-18	1.37
rs1419881	6	2.53E-04	6.347	-9.6585	HCG4P6	FEV1_trans	G_A	23760081	Chronic hepatitis B infection	1.00E-18	1.37
rs1419881	6	2.53E-04	-4.192	-4.5583	VAR52	FEV1_cis	G_A	23760081	Chronic hepatitis B infection	1.00E-18	1.37
rs1419881	6	2.53E-04	4.674	-5.5296	SFTA2	FEV1_cis	G_A	23760081	Chronic hepatitis B infection	1.00E-18	1.37
rs1419881	6	2.53E-04	14.643	-47.8258	CDSN	FEV1_cis	G_A	23760081	Chronic hepatitis B infection	1.00E-18	1.37
rs1419881	6	2.53E-04	7.022	-11.6601		FEV1_cis	G_A	23760081	Chronic hepatitis B infection	1.00E-18	1.37
rs13118928	4	5.04E-09	-5.042	-6.3366		FEV1_cis	A_G	20173748	Chronic obstructive pulmonary disease	5.00E-07	1.25
rs13118928	4	1.31E-19	-5.042	-6.3366		FEV1FVC_cis	A_G	20173748	Chronic obstructive pulmonary disease	5.00E-07	1.25
rs13141641	4	1.40E-08	-4.211	-4.5948		FEV1_cis	T_C	22080838	Chronic obstructive pulmonary disease	3.00E-07	1.32
rs13141641	4	8.45E-18	-5.104	-6.4781		FEV1FVC_cis	T_C	22080838	Chronic obstructive pulmonary disease	3.00E-07	1.32
rs13141641	4	1.40E-08	-4.071	-4.3296	HHIP	FEV1_cis	T_C	22080838	Chronic obstructive pulmonary disease	3.00E-07	1.32
rs13141641	4	8.45E-18	-4.211	-4.5948		FEV1FVC_cis	T_C	22080838	Chronic obstructive pulmonary disease	3.00E-07	1.32
rs13141641	4	1.40E-08	-4.095	-4.3745	HHIP	FEV1_cis	T_C	22080838	Chronic obstructive pulmonary disease	3.00E-07	1.32
rs13141641	4	8.45E-18	-4.095	-4.3745	HHIP	FEV1FVC_cis	T_C	22080838	Chronic obstructive pulmonary disease	3.00E-07	1.32
rs13141641	4	8.45E-18	-4.071	-4.3296	HHIP	FEV1FVC_cis	T_C	22080838	Chronic obstructive pulmonary disease	3.00E-07	1.32
rs13141641	4	1.40E-08	-5.104	-6.4781		FEV1_cis	T_C	22080838	Chronic obstructive pulmonary disease	3.00E-07	1.32
rs1828591	4	1.44E-19	-5.092	-6.4506		FEV1FVC_cis	A_G	19300482	Chronic obstructive pulmonary disease	1.00E-07	1.38
rs1828591	4	4.86E-09	-5.092	-6.4506		FEV1_cis	A_G	19300482	Chronic obstructive pulmonary disease	1.00E-07	1.38
rs13180	15	1.97E-04	4.298	-4.7636	IREB2	FEV1_cis	C_T	20173748	Chronic obstructive pulmonary disease	2.00E-08	1.3
rs13180	15	1.55E-05	11.807	-31.4447		FEV1FVC_cis	C_T	20173748	Chronic obstructive pulmonary disease	2.00E-08	1.3
rs13180	15	1.55E-05	4.298	-4.7636	IREB2	FEV1FVC_cis	C_T	20173748	Chronic obstructive pulmonary disease	2.00E-08	1.3
rs13180	15	1.97E-04	11.807	-31.4447		FEV1_cis	C_T	20173748	Chronic obstructive pulmonary disease	2.00E-08	1.3
rs8034191	15	9.65E-06	16.228	-58.4952		FEV1FVC_cis	C_T	19300482	Chronic obstructive pulmonary disease	1.00E-10	1.4
rs8034191	15	2.07E-05	-6.679	-10.6187	PSMA4	FEV1_cis	C_T	19300482	Chronic obstructive pulmonary disease	1.00E-10	1.4

rs8034191	15	9.65E-06	-5.697	-7.9139		FEV1FVC_cis	C_T	19300482	Chronic obstructive pulmonary disease	1.00E-10	1.4
rs8034191	15	9.65E-06	-6.679	-10.6187	PSMA4	FEV1FVC_cis	C_T	19300482	Chronic obstructive pulmonary disease	1.00E-10	1.4
rs8034191	15	2.07E-05	10.413	-24.665	CHRNA5	FEV1_cis	C_T	19300482	Chronic obstructive pulmonary disease	1.00E-10	1.4
rs8034191	15	9.65E-06	10.413	-24.665	CHRNA5	FEV1FVC_cis	C_T	19300482	Chronic obstructive pulmonary disease	1.00E-10	1.4
rs8034191	15	2.07E-05	-5.697	-7.9139		FEV1_cis	C_T	19300482	Chronic obstructive pulmonary disease	1.00E-10	1.4
rs8034191	15	2.07E-05	16.228	-58.4952		FEV1_cis	C_T	19300482	Chronic obstructive pulmonary disease	1.00E-10	1.4
rs7671167	4	1.27E-09	4.139	-4.4574	FAM13A1	FEV1FVC_cis	C_T	20173748	Chronic obstructive pulmonary disease	1.00E-11	1.32
rs7671167	4	1.27E-09	4.739	-5.668	FAM13A1	FEV1FVC_cis	C_T	20173748	Chronic obstructive pulmonary disease	1.00E-11	1.32
rs7671167	4	1.27E-09	4.662	-5.5042		FEV1FVC_cis	C_T	20173748	Chronic obstructive pulmonary disease	1.00E-11	1.32
rs2071278	6	1.66E-04	4.135	-4.4498		FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	5.075	-6.4117	HLA-DQB2	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	6.528	-10.1762	APOM	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	5.075	-6.4117	HLA-DQB2	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	4.582	-5.3367	HLA-DPA1	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	-7.9	-14.5545	ZFP57	FEV1_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	-7.535	-13.3113		FEV1FVC_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	4.651	-5.4811		FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	4.135	-4.4498	BAT2	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	8.313	-16.0301	HLA-DQB1	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	6.061	-8.8688	AGPAT1	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	4.316	-4.7989	AGPAT1	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	5.556	-7.559	HLA-DQB1	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	-7.388	-12.8267		FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	6.061	-8.8688	AGPAT1	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	-4.757	-5.7067	HLA-DPB1	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	-7.819	-14.2737		FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	6.91	-11.3146	HLA-A	FEV1FVC_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	-4.757	-5.7067	HLA-DPB1	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	-6.834	-11.0831	RNF5	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	5.031	-6.3116	NOTCH4	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	4.582	-5.3367	HLA-DPA1	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	8.313	-16.0301	HLA-DQB1	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	-4.785	-5.767	MICB	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	5.556	-7.559	HLA-DQB1	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	8.35	-16.1658	HLA-DQB1	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	7.958	-14.7574	BTN3A2	FEV1FVC_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	-6.879	-11.2199	HCG4P6	FEV1FVC_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	-7.388	-12.8267		FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	-7.9	-14.5545	ZFP57	FEV1FVC_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	6.528	-10.1762	APOM	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	-11.26	-28.6845	HLA-DRB3	FEV1_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	8.291	-15.9496	HLA-DQB1	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	-7.535	-13.3113		FEV1_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	7.958	-14.7574	BTN3A2	FEV1_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	-11.26	-28.6845	HLA-DRB3	FEV1FVC_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	4.651	-5.4811		FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	-7.819	-14.2737		FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	-4.785	-5.767	MICB	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	5.031	-6.3116	NOTCH4	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	8.35	-16.1658	HLA-DQB1	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13

rs2071278	6	1.66E-04	6.91	-11.3146	HLA-A	FEV1_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	-6.834	-11.0831	RNF5	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	4.316	-4.7989	AGPAT1	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	6.749	-10.8272	HLA-C	FEV1_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	6.749	-10.8272	HLA-C	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	1.66E-04	-6.879	-11.2199	HCG4P6	FEV1_trans	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2071278	6	8.30E-06	8.291	-15.9496	HLA-DQB1	FEV1FVC_cis	G_A	23028341	Complement C3 and C4 levels	4.00E-72	0.13
rs2229238	1	1.93E-04	5.448	-7.2929	NUP210L	FEV1FVC_cis	C_T	22319020	Coronary heart disease	7.00E-07	1.45
rs2229238	1	1.93E-04	-7.655	-13.7137	UBE2Q1	FEV1FVC_cis	C_T	22319020	Coronary heart disease	7.00E-07	1.45
rs2229238	1	1.93E-04	-9.748	-21.7255	TDRD10	FEV1FVC_cis	C_T	22319020	Coronary heart disease	7.00E-07	1.45
rs12037222	1	1.54E-04	-6.411	-9.8399	OXCT2	FEV1FVC_cis	A_G	21300955	C-reactive protein	6.00E-11	0.05
rs12037222	1	1.54E-04	-6.985	-11.5454		FEV1FVC_cis	A_G	21300955	C-reactive protein	6.00E-11	0.05
rs12037222	1	1.54E-04	-4.871	-5.9545		FEV1FVC_cis	A_G	21300955	C-reactive protein	6.00E-11	0.05
rs12037222	1	1.54E-04	5.951	-8.5743	PABPC4	FEV1FVC_cis	A_G	21300955	C-reactive protein	6.00E-11	0.05
rs9469220	6	8.12E-05	9.494	-20.653	HLA-DQB1	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	-7.309	-12.57	HLA-DRB1	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	9.341	-20.0203	HLA-DQB1	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	9.005	-18.6662	HLA-DRB3	FEV1FVC_trans	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	5.183	-6.6609	HLA-DOB	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	6.017	-8.7504	TAP2	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	7.011	-11.6259	HLA-DRB5	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	-5.175	-6.6422	HLA-DQA2	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	4.708	-5.6018	HLA-DRB1	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	-8.299	-15.9788	HLA-C	FEV1FVC_trans	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	9.51	-20.7197	HLA-DQB1	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	11.67	-30.7413	HLA-DQB1	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	-5.892	-8.4184	TAP2	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	11.979	-32.3393	HLA-DQB2	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	4.885	-5.9854	AGPAT1	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	-5.639	-7.7669		FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	6.179	-9.1904	ZFP57	FEV1FVC_trans	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs9469220	6	8.12E-05	13.302	-39.6471	HLA-DQB2	FEV1FVC_cis	A_G	17554300	Crohn's disease	2.00E-06	1.14
rs7765379	6	8.99E-05	-5.464	-7.3321	HLA-DRB6	FEV1FVC_cis	G_T	23266558	Crohn's disease	9.00E-59	1.93
rs7765379	6	8.99E-05	-7.342	-12.6769	HLA-DQA2	FEV1FVC_cis	G_T	23266558	Crohn's disease	9.00E-59	1.93
rs7765379	6	8.99E-05	-4.069	-4.3259	HLA-DPA1	FEV1FVC_cis	G_T	23266558	Crohn's disease	9.00E-59	1.93
rs7765379	6	8.99E-05	5.044	-6.3411	HLA-DQB1	FEV1FVC_cis	G_T	23266558	Crohn's disease	9.00E-59	1.93
rs611744	8	4.96E-04	6.461	-9.9829		FEV1_cis	A_G	21732829	Dupuytren's disease	8.00E-15	1.33
rs611744	8	4.96E-04	17.641	-68.9232	EIF3E	FEV1_cis	A_G	21732829	Dupuytren's disease	8.00E-15	1.33
rs6457617	6	6.99E-04	-6.78	-10.9202	HLA-DQB2	FEV1FVC_cis	C_T	21841780	Graves' disease	7.00E-33	1.4
rs6457617	6	6.99E-04	6.367	-9.715	HLA-DRB4	FEV1FVC_trans	C_T	21841780	Graves' disease	7.00E-33	1.4
rs6457617	6	6.99E-04	-6.804	-10.9925	HLA-DQB2	FEV1FVC_cis	C_T	21841780	Graves' disease	7.00E-33	1.4
rs6457617	6	6.99E-04	-9.9	-22.3806	HLA-DQB1	FEV1FVC_cis	C_T	21841780	Graves' disease	7.00E-33	1.4
rs6457617	6	6.99E-04	10.077	-23.156	HLA-DQB1	FEV1FVC_cis	C_T	21841780	Graves' disease	7.00E-33	1.4
rs6457617	6	6.99E-04	-9.377	-20.1683	HLA-DRB5	FEV1FVC_cis	C_T	21841780	Graves' disease	7.00E-33	1.4
rs6457617	6	6.99E-04	7.243	-12.3577	HLA-DRB6	FEV1FVC_cis	C_T	21841780	Graves' disease	7.00E-33	1.4

rs6457617	6	6.99E-04	10.042	-23.0016	HLA-DQB1	FEV1FVC_cis	C_T	21841780	Graves' disease	7.00E-33	1.4
rs6457617	6	6.99E-04	11.217	-28.473	HLA-DQB1	FEV1FVC_cis	C_T	21841780	Graves' disease	7.00E-33	1.4
rs6457617	6	6.99E-04	-9.658	-21.3423	HLA-DRB3	FEV1FVC_trans	C_T	21841780	Graves' disease	7.00E-33	1.4
rs6457617	6	6.99E-04	6.159	-9.1355	HLA-DQA2	FEV1FVC_cis	C_T	21841780	Graves' disease	7.00E-33	1.4
rs4660293	1	1.74E-04	-5.335	-7.0198	PABPC4	FEV1FVC_cis	A_G	20686565	HDL cholesterol	4.00E-10	0.48
rs4660293	1	1.74E-04	6.185	-9.2069	OXCT2	FEV1FVC_cis	A_G	20686565	HDL cholesterol	4.00E-10	0.48
rs4660293	1	1.74E-04	4.836	-5.8779		FEV1FVC_cis	A_G	20686565	HDL cholesterol	4.00E-10	0.48
rs4660293	1	1.74E-04	7.041	-11.7193		FEV1FVC_cis	A_G	20686565	HDL cholesterol	4.00E-10	0.48
rs563519	11	4.47E-04	-8.26	-15.8366	RPUSD4	FEV1_cis	C_T	20445134	Heart failure	3.00E-06	1.45
rs3738814	1	1.82E-04	-6.854	-11.1438		FEV1FVC_cis	G_A	20189936	Height	2.00E-07	0.06
rs3738814	1	1.82E-04	5.78	-8.1267	MFAP2	FEV1FVC_cis	G_A	20189936	Height	2.00E-07	0.06
rs3738814	1	1.82E-04	5.25	-6.8179	PADI2	FEV1FVC_cis	G_A	20189936	Height	2.00E-07	0.06
rs6855629	4	1.77E-05	-5.801	-8.181	PPA2	FEV1_cis	A_G	23563607	Height	2.00E-08	1.14
rs6855629	4	8.31E-05	-5.801	-8.181	PPA2	FEV1FVC_cis	A_G	23563607	Height	2.00E-08	1.14
rs6855629	4	8.31E-05	-6.078	-8.9147	PPA2	FEV1FVC_cis	A_G	23563607	Height	2.00E-08	1.14
rs6855629	4	1.77E-05	-6.078	-8.9147	PPA2	FEV1_cis	A_G	23563607	Height	2.00E-08	1.14
rs1043515	17	1.22E-04	5.948	-8.5663	PSMB3	FEV1FVC_cis	G_A	20881960	Height	3.00E-10	0.02
rs1043515	17	1.22E-04	5.19	-6.6772	PIP4K2B	FEV1FVC_cis	G_A	20881960	Height	3.00E-10	0.02
rs1043515	17	1.22E-04	5.312	-6.9649	PIP4K2B	FEV1FVC_cis	G_A	20881960	Height	3.00E-10	0.02
rs1043515	17	1.22E-04	-4.171	-4.5182	PIP4K2B	FEV1FVC_cis	G_A	20881960	Height	3.00E-10	0.02
rs10512248	9	9.27E-05	4.394	-4.9536	PTCH1	FEV1FVC_cis	G_T	18391952	Height	4.00E-11	0.05
rs2834442	21	9.36E-04	-4.068	-4.3241	C21orf82	FEV1FVC_cis	T_A	20881960	Height	5.00E-12	0.03
rs2834442	21	9.36E-04	-5.723	-7.9802	MRPS6	FEV1FVC_cis	T_A	20881960	Height	5.00E-12	0.03
rs2834442	21	9.36E-04	-4.715	-5.6167	KCNE2	FEV1FVC_cis	T_A	20881960	Height	5.00E-12	0.03
rs2834442	21	9.36E-04	-5.837	-8.2745	C21orf82	FEV1FVC_cis	T_A	20881960	Height	5.00E-12	0.03
rs2247056	6	9.20E-04	-4.726	-5.6402	HLA-C	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	7.947	-14.7188		FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-9.237	-19.596	HCG27	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-6.324	-9.5937	OR13C3	FEV1FVC_trans	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	12.695	-36.2005	PSORS1C1	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-5.254	-6.8273		FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-8.859	-18.0929	HCG27	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-8.035	-15.0288	PSORS1C3	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	11.546	-30.1116		FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	8.136	-15.3888		FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-7.972	-14.8065	HCG18	FEV1FVC_trans	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-7.061	-11.7817	HLA-G	FEV1FVC_trans	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-5.781	-8.1293	ATP6V1G2	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-4.795	-5.7887	HLA-C	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-6.202	-9.2538	HLA-B	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	7.993	-14.8804		FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-6.646	-10.5212	VARS2	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	6.241	-9.3617	CDSN	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	23.259	-118.938	HLA-C	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-7.629	-13.626	HCG18	FEV1FVC_trans	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	-4.485	-5.1372		FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2247056	6	9.20E-04	4.759	-5.711	SFTA2	FEV1FVC_cis	C_T	23563607	Height	4.00E-12	1.18
rs2284746	1	2.47E-09	5.216	-6.738	MFAP2	FEV1FVC_cis	C_G	23563607	Height	5.00E-15	1.17
rs2284746	1	2.47E-09	6.339	-9.6359	PADI2	FEV1FVC_cis	C_G	23563607	Height	5.00E-15	1.17
rs2284746	1	2.47E-09	-6.004	-8.7155		FEV1FVC_cis	C_G	23563607	Height	5.00E-15	1.17
rs6457620	6	2.92E-04	10.123	-23.3597	HLA-DQB1	FEV1FVC_cis	G_C	20881960	Height	2.00E-16	0.03
rs6457620	6	2.92E-04	-6.836	-11.0892	HLA-	FEV1FVC_cis	G_C	20881960	Height	2.00E-16	0.03

					DQB2								
rs6457620	6	2.92E-04	11.236	-28.5664	HLA-DQB1	FEV1FVC_cis	G_C	20881960	Height		2.00E-16	0.03	
rs6457620	6	2.92E-04	-9.973	-22.6988	HLA-DQB1	FEV1FVC_cis	G_C	20881960	Height		2.00E-16	0.03	
rs6457620	6	2.92E-04	6.208	-9.2703	HLA-DQA2	FEV1FVC_cis	G_C	20881960	Height		2.00E-16	0.03	
rs6457620	6	2.92E-04	-9.376	-20.1642	HLA-DRB5	FEV1FVC_cis	G_C	20881960	Height		2.00E-16	0.03	
rs6457620	6	2.92E-04	10.152	-23.4886	HLA-DQB1	FEV1FVC_cis	G_C	20881960	Height		2.00E-16	0.03	
rs6457620	6	2.92E-04	-6.796	-10.9683	HLA-DQB2	FEV1FVC_cis	G_C	20881960	Height		2.00E-16	0.03	
rs6457620	6	2.92E-04	-9.645	-21.2873	HLA-DRB3	FEV1FVC_trans	G_C	20881960	Height		2.00E-16	0.03	
rs6457620	6	2.92E-04	7.348	-12.6964	HLA-DRB6	FEV1FVC_cis	G_C	20881960	Height		2.00E-16	0.03	
rs6457620	6	2.92E-04	6.447	-9.9428	HLA-DRB4	FEV1FVC_trans	G_C	20881960	Height		2.00E-16	0.03	
rs2284746	1	2.47E-09	5.216	-6.738	MFAP2	FEV1FVC_cis	C_G	20881960	Height		4.00E-29	0.04	
rs2284746	1	2.47E-09	6.339	-9.6359	PADI2	FEV1FVC_cis	C_G	20881960	Height		4.00E-29	0.04	
rs2284746	1	2.47E-09	-6.004	-8.7155		FEV1FVC_cis	C_G	20881960	Height		4.00E-29	0.04	
rs3130544	6	1.04E-04	4.446	-5.0581	PSORS1C3	FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	6.758	-10.8542	HCG18	FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	-8.778	-17.7788		FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	-4.411	-4.9876	MICB	FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	-12.63	-35.8408	HLA-DRB3	FEV1FVC_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	6.319	-9.5796	APOM	FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	5.3	-6.9363	VAR2	FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	-12.63	-35.8408	HLA-DRB3	FEV1_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	8.421	-16.428	BTN3A2	FEV1FVC_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	4.068	-4.3241		FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	4.068	-4.3241		FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	6.711	-10.7138	PSORS1C1	FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	4.523	-5.2149	BAT2	FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	4.446	-5.0581	PSORS1C3	FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	6.758	-10.8542	HCG18	FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	-9.011	-18.69		FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	-6.178	-9.1876	C6orf12	FEV1_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	10.696	-25.9736	ZFP57	FEV1FVC_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	6.319	-9.5796	APOM	FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	-9.845	-22.1424		FEV1FVC_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	-6.453	-9.96	SFTA2	FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	6.988	-11.5547	CDSN	FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	8.313	-16.0301	HLA-A	FEV1FVC_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	-6.936	-11.3943	TUBB	FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	4.523	-5.2149	BAT2	FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	6.454	-9.9628	HCG18	FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	-9.011	-18.69		FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	-9.845	-22.1424		FEV1_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	6.454	-9.9628	HCG18	FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	-6.657	-10.5537	HLA-A	FEV1_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	8.313	-16.0301	HLA-A	FEV1_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	5.738	-8.0186		FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	-6.936	-11.3943	TUBB	FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	11.246	-28.6156	HLA-C	FEV1FVC_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	-6.657	-10.5537	HLA-A	FEV1FVC_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	10.696	-25.9736	ZFP57	FEV1_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	5.3	-6.9363	VAR2	FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.04E-04	-6.831	-11.074	HCG4P6	FEV1FVC_trans	A_C	23263863	Hematology traits		5.00E-07	0.02	
rs3130544	6	1.07E-04	-6.453	-9.96	SFTA2	FEV1_cis	A_C	23263863	Hematology traits		5.00E-07	0.02	

rs3130544	6	1.07E-04	5.738	-8.0186		FEV1_cis	A_C	23263863	Hematology traits	5.00E-07	0.02
rs3130544	6	1.07E-04	11.246	-28.6156	HLA-C	FEV1_cis	A_C	23263863	Hematology traits	5.00E-07	0.02
rs3130544	6	1.07E-04	8.421	-16.428	BTN3A2	FEV1_trans	A_C	23263863	Hematology traits	5.00E-07	0.02
rs3130544	6	1.07E-04	-6.831	-11.074	HCG4P6	FEV1_trans	A_C	23263863	Hematology traits	5.00E-07	0.02
rs3130544	6	1.04E-04	6.711	-10.7138	PSORS1C1	FEV1FVC_cis	A_C	23263863	Hematology traits	5.00E-07	0.02
rs3130544	6	1.07E-04	-8.778	-17.7788		FEV1_cis	A_C	23263863	Hematology traits	5.00E-07	0.02
rs3130544	6	1.04E-04	-6.178	-9.1876	C6orf12	FEV1FVC_trans	A_C	23263863	Hematology traits	5.00E-07	0.02
rs3130544	6	1.04E-04	-4.411	-4.9876	MICB	FEV1FVC_cis	A_C	23263863	Hematology traits	5.00E-07	0.02
rs3130544	6	1.07E-04	6.988	-11.5547	CDSN	FEV1_cis	A_C	23263863	Hematology traits	5.00E-07	0.02
rs389884	6	4.25E-05	13.236	-39.2647	HLA-DRB3	FEV1_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	-7.831	-14.3152		FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	13.236	-39.2647	HLA-DRB3	FEV1FVC_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	10.181	-23.6179	ZFP57	FEV1_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	-7.906	-14.5755		FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	-6.1	-8.9744	RNF5	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	-6.377	-9.7433	HCG4P6	FEV1_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	4.097	-4.3783	HCP5	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	5.307	-6.9529	NOTCH4	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	4.534	-5.2375	HLA-DQA2	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	-4.208	-4.589	MICB	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	8.591	-17.0644	HLA-DQB1	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	-8.457	-16.5617		FEV1_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	6.287	-9.4899	HCG18	FEV1_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	8.479	-16.6437	HLA-A	FEV1FVC_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	4.097	-4.3783	HCP5	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	5.932	-8.5239	PSORS1C1	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	5.307	-6.9529	NOTCH4	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	10.181	-23.6179	ZFP57	FEV1FVC_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	8.681	-17.4064	HLA-DQB1	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	8.643	-17.2616	HLA-DQB1	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	8.643	-17.2616	HLA-DQB1	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	5.106	-6.4827	AGPAT1	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	4.932	-6.0894		FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	7.364	-12.7484	APOM	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	-6.176	-9.1821	TUBB	FEV1_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	4.932	-6.0894		FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	8.681	-17.4064	HLA-DQB1	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	10.306	-24.1791	HLA-C	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	6.287	-9.4899	HCG18	FEV1FVC_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	-4.208	-4.589	MICB	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	10.306	-24.1791	HLA-C	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	8.479	-16.6437	HLA-A	FEV1_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	5.932	-8.5239	PSORS1C1	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	8.356	-16.1879	BTN3A2	FEV1FVC_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	4.534	-5.2375	HLA-DQA2	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	4.84	-5.8866	HLA-DQB1	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	4.893	-6.003	CDSN	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03

rs389884	6	2.40E-06	-6.176	-9.1821	TUBB	FEV1FVC_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	5.106	-6.4827	AGPAT1	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	-8.457	-16.5617		FEV1FVC_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	8.356	-16.1879	BTN3A2	FEV1_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	-6.377	-9.7433	HCG4P6	FEV1FVC_trans	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	4.91	-6.0406	BAT2	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	4.893	-6.003	CDSN	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	-7.831	-14.3152		FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	7.364	-12.7484	APOM	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	-7.906	-14.5755		FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	4.91	-6.0406	BAT2	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	4.25E-05	8.591	-17.0644	HLA-DQB1	FEV1_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	-6.1	-8.9744	RNF5	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs389884	6	2.40E-06	4.84	-5.8866	HLA-DQB1	FEV1FVC_cis	G_A	23263863	Hematology traits	2.00E-08	0.03
rs9357152	6	1.31E-04	-7.753	-14.047	HLA-DQB1	FEV1FVC_cis	A_G	21896673	HPV seropositivity	1.00E-14	NR
rs9357152	6	1.31E-04	-4.037	-4.2665	AGPAT1	FEV1FVC_cis	A_G	21896673	HPV seropositivity	1.00E-14	NR
rs9357152	6	1.31E-04	-7.545	-13.3446	HLA-DQB2	FEV1FVC_cis	A_G	21896673	HPV seropositivity	1.00E-14	NR
rs9357152	6	1.31E-04	-8.544	-16.8872	HLA-DQB2	FEV1FVC_cis	A_G	21896673	HPV seropositivity	1.00E-14	NR
rs9357152	6	1.31E-04	-5.925	-8.5054	AGPAT1	FEV1FVC_cis	A_G	21896673	HPV seropositivity	1.00E-14	NR
rs9357152	6	1.31E-04	5.015	-6.2754	HLA-DRB6	FEV1FVC_cis	A_G	21896673	HPV seropositivity	1.00E-14	NR
rs9357152	6	1.31E-04	-6.316	-9.5712	HLA-DRB1	FEV1FVC_cis	A_G	21896673	HPV seropositivity	1.00E-14	NR
rs9469220	6	8.12E-05	9.494	-20.653	HLA-DQB1	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	-7.309	-12.57	HLA-DRB1	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	9.341	-20.0203	HLA-DQB1	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	9.005	-18.6662	HLA-DRB3	FEV1FVC_trans	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	5.183	-6.6609	HLA-DOB	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	6.017	-8.7504	TAP2	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	7.011	-11.6259	HLA-DRB5	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	-5.175	-6.6422	HLA-DQA2	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	4.708	-5.6018	HLA-DRB1	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	-8.299	-15.9788	HLA-C	FEV1FVC_trans	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	9.51	-20.7197	HLA-DQB1	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	11.67	-30.7413	HLA-DQB1	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	-5.892	-8.4184	TAP2	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	11.979	-32.3393	HLA-DQB2	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	4.885	-5.9854	AGPAT1	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	-5.639	-7.7669		FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	6.179	-9.1904	ZFP57	FEV1FVC_trans	A_G	23146381	IgE levels	2.00E-07	0.09
rs9469220	6	8.12E-05	13.302	-39.6471	HLA-DQB2	FEV1FVC_cis	A_G	23146381	IgE levels	2.00E-07	0.09
rs2571391	6	3.18E-04	11.925	-32.0571	HCG4P6	FEV1FVC_cis	A_C	22075330	IgE levels	1.00E-15	0.06
rs2571391	6	3.18E-04	4.697	-5.5784		FEV1FVC_cis	A_C	22075330	IgE levels	1.00E-15	0.06
rs2571391	6	3.18E-04	-4.6	-5.3742		FEV1FVC_cis	A_C	22075330	IgE levels	1.00E-15	0.06
rs2571391	6	3.18E-04	-7.419	-12.9281	ZFP57	FEV1FVC_cis	A_C	22075330	IgE levels	1.00E-15	0.06
rs2571391	6	3.18E-04	10.176	-23.5955	HLA-G	FEV1FVC_cis	A_C	22075330	IgE levels	1.00E-15	0.06
rs2571391	6	3.18E-04	-4.403	-4.9716	HCG18	FEV1FVC_cis	A_C	22075330	IgE levels	1.00E-15	0.06
rs2571391	6	3.18E-04	6.03	-8.7853	RP3-	FEV1FVC_cis	A_C	22075330	IgE levels	1.00E-15	0.06

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rs2571391	6	3.18E-04	5.34	-7.0318	HCG18	FEV1FVC_cis	A_C	22075330	IgE levels			1.00E-15	0.06	
rs2571391	6	3.18E-04	13.561	-41.1662	HCG2P7	FEV1FVC_cis	A_C	22075330	IgE levels			1.00E-15	0.06	
rs2571391	6	3.18E-04	6.405	-9.8228		FEV1FVC_cis	A_C	22075330	IgE levels			1.00E-15	0.06	
rs2571391	6	3.18E-04	-6.552	-10.2459	RP3-377H14.5	FEV1FVC_cis	A_C	22075330	IgE levels			1.00E-15	0.06	
rs2571391	6	3.18E-04	8.946	-18.4334	HLA-G	FEV1FVC_cis	A_C	22075330	IgE levels			1.00E-15	0.06	
rs2571391	6	3.18E-04	4.35	-4.866	RNF39	FEV1FVC_cis	A_C	22075330	IgE levels			1.00E-15	0.06	
rs2571391	6	3.18E-04	12.039	-32.6544	HCG2P7	FEV1FVC_cis	A_C	22075330	IgE levels			1.00E-15	0.06	
rs2571391	6	3.18E-04	-9.615	-21.1605	HLA-F	FEV1FVC_cis	A_C	22075330	IgE levels			1.00E-15	0.06	
rs2571391	6	3.18E-04	-4.152	-4.482		FEV1FVC_cis	A_C	22075330	IgE levels			1.00E-15	0.06	
rs2571391	6	3.18E-04	11.202	-28.3994	HLA-A	FEV1FVC_cis	A_C	22075330	IgE levels			1.00E-15	0.06	
rs592229	6	2.47E-04	-5.727	-7.9905	HLA-DQB2	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	-4.612	-5.3992	AGPAT1	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	4.864	-5.9392		FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	7.217	-12.2745		FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	5.517	-7.4624	HLA-DRB6	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	7.858	-14.4086	PSORS1C1	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	6.414	-9.8485	HLA-DRB4	FEV1FVC_trans	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	4.346	-4.8581		FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	4.143	-4.465	HLA-C	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	-4.258	-4.6856		FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	11.623	-30.5019	HLA-C	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	-8.107	-15.285	HLA-DRB5	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	-5.154	-6.5935	HLA-DQB2	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	-5.851	-8.311	AGPAT1	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	-4.913	-6.0472		FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	4.27	-4.7089	HLA-B	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	-4.621	-5.4181	CDSN	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	-4.885	-5.9854		FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs592229	6	2.47E-04	5.395	-7.1642	HLA-DQA2	FEV1FVC_cis	G_T	23382691	IgG glycosylation			9.00E-06	0.15	
rs722599	14	5.33E-04	6.973	-11.5083	RPS6KL1	FEV1FVC_cis	C_T	23382691	IgG glycosylation			8.00E-06	0.14	
rs722599	14	5.33E-04	-7.188	-12.1821	MLH3	FEV1FVC_cis	C_T	23382691	IgG glycosylation			8.00E-06	0.14	
rs722599	14	5.33E-04	11.186	-28.321	KIAA0317	FEV1FVC_cis	C_T	23382691	IgG glycosylation			8.00E-06	0.14	
rs722599	14	5.33E-04	13.638	-41.6234	KIAA0317	FEV1FVC_cis	C_T	23382691	IgG glycosylation			8.00E-06	0.14	
rs722599	14	5.33E-04	6.53	-10.182	MLH3	FEV1FVC_cis	C_T	23382691	IgG glycosylation			8.00E-06	0.14	
rs722599	14	5.33E-04	-6.585	-10.3421	MLH3	FEV1FVC_cis	C_T	23382691	IgG glycosylation			8.00E-06	0.14	
rs722599	14	5.33E-04	4.282	-4.7323	YLPM1	FEV1FVC_cis	C_T	23382691	IgG glycosylation			8.00E-06	0.14	
rs722599	14	5.33E-04	7.47	-13.0959	MLH3	FEV1FVC_cis	C_T	23382691	IgG glycosylation			8.00E-06	0.14	
rs592229	6	2.47E-04	-5.727	-7.9905	HLA-DQB2	FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	-4.612	-5.3992	AGPAT1	FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	4.864	-5.9392		FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	7.217	-12.2745		FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	5.517	-7.4624	HLA-DRB6	FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	7.858	-14.4086	PSORS1C1	FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	6.414	-9.8485	HLA-DRB4	FEV1FVC_trans	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	4.346	-4.8581		FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	4.143	-4.465	HLA-C	FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	-4.258	-4.6856		FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	11.623	-30.5019	HLA-C	FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	-8.107	-15.285	HLA-DRB5	FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	-5.154	-6.5935	HLA-DQB2	FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	
rs592229	6	2.47E-04	-5.851	-8.311	AGPAT1	FEV1FVC_cis	G_T	23382691	IgG glycosylation			4.00E-06	0.15	

rs592229	6	2.47E-04	-4.913	-6.0472		FEV1FVC_cis	G_T	23382691	IgG glycosylation	4.00E-06	0.15
rs592229	6	2.47E-04	4.27	-4.7089	HLA-B	FEV1FVC_cis	G_T	23382691	IgG glycosylation	4.00E-06	0.15
rs592229	6	2.47E-04	-4.621	-5.4181	CDSN	FEV1FVC_cis	G_T	23382691	IgG glycosylation	4.00E-06	0.15
rs592229	6	2.47E-04	-4.885	-5.9854		FEV1FVC_cis	G_T	23382691	IgG glycosylation	4.00E-06	0.15
rs592229	6	2.47E-04	5.395	-7.1642	HLA-DQA2	FEV1FVC_cis	G_T	23382691	IgG glycosylation	4.00E-06	0.15
rs2187668	6	2.05E-06	-6.623	-10.4535	RNF5	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	9.985	-22.7513	HLA-DQB1	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	5.044	-6.3411	HLA-DQB2	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	8.741	-17.6363	HLA-C	FEV1FVC_trans	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	4.389	-4.9436	NOTCH4	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	-8.762	-17.7171	ZFP57	FEV1FVC_trans	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	5.791	-8.1551	HLA-DQB1	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	-5.404	-7.1859	HLA-DPB1	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	9.954	-22.6157	HLA-DQB1	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	-5.688	-7.891	HLA-DRB1	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	4.661	-5.5021	HLA-DPA1	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	9.973	-22.6988	HLA-DQB1	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	-7.936	-14.6803		FEV1FVC_trans	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	5.539	-7.5168	HLA-DQA2	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	6.721	-10.7436	APOM	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	15.376	-52.625	HLA-DRB3	FEV1FVC_trans	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	7.801	-14.2117	HLA-A	FEV1FVC_trans	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	5.14	-6.5611	AGPAT1	FEV1FVC_cis	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	-6.471	-10.0116	HCG4P6	FEV1FVC_trans	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2187668	6	2.05E-06	6.599	-10.3831	BTN3A2	FEV1FVC_trans	T_C	20694011	Immunoglobulin A	2.00E-33	2.53
rs2609255	4	8.99E-07	6.866	-11.1803	FAM13A1	FEV1FVC_cis	G_T	23583980	Interstitial lung disease	2.00E-11	1.29
rs2609255	4	8.99E-07	6.488	-10.0606		FEV1FVC_cis	G_T	23583980	Interstitial lung disease	2.00E-11	1.29
rs2609255	4	8.99E-07	6.12	-9.0288	FAM13A1	FEV1FVC_cis	G_T	23583980	Interstitial lung disease	2.00E-11	1.29
rs1981997	17	6.72E-05	-4.627	-5.4306	LRRC37A	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	30.372	201.8903	KIAA1267	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	22.175	108.2228		FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	35.722	278.7445		FEV1_trans	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	10.545	-25.2711	MAPT	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	34.359	257.9857		FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	22.085	-107.356	MAPT	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	43.159	406.2134	LRRC37A4	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	19.509	-84.0359		FEV1_trans	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	7.959	-14.7609	KIAA1267	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	-8.305	-16.0008		FEV1_trans	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	12.586	-35.5984	PLEKHM1	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	40.603	359.6966		FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41
rs1981997	17	6.72E-05	-	-	MAPT	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41

			21.678	103.4802								
rs1981997	17	6.72E-05	40.802	363.2164		FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41	
rs1981997	17	6.72E-05	17.126	-65.0224		FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41	
rs1981997	17	6.72E-05	22.303	109.4615	MAPT	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41	
rs1981997	17	6.72E-05	-9.764	-21.794	WNT3	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41	
rs1981997	17	6.72E-05	35.653	277.6743	LRRC37A4	FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41	
rs1981997	17	6.72E-05	31.574	218.0757		FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41	
rs1981997	17	6.72E-05	-27.27	163.0165		FEV1_cis	A_G	23583980	Interstitial lung disease	9.00E-14	1.41	
rs9303525	17	4.02E-05	21.526	102.0512	MAPT	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	30.311	201.0856	KIAA1267	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	34.606	261.6877	LRRC37A4	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	16.971	-63.8709		FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	4.663	-5.5064		FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	10.586	-25.4608	MAPT	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	22.122	107.7119	MAPT	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	31.102	211.6453		FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	39.986	348.8927		FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	-8.412	-16.3946		FEV1_trans	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	41.484	375.4097	LRRC37A4	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	22.052	107.0391	MAPT	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	34.966	267.1309		FEV1_trans	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	-4.532	-5.2334	LRRC37A	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	-9.852	-22.1727	WNT3	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	27.016	160.0183		FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	33.912	251.3533		FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	19.331	-82.5307		FEV1_trans	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	21.949	106.0529		FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	40.164	351.9926		FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	7.815	-14.2599	KIAA1267	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs9303525	17	4.02E-05	12.392	-34.5395	PLEKHM1	FEV1_cis	G_A	22504418	Intracranial volume	8.00E-15	14.9	
rs602875	6	9.65E-04	-9.325	-19.9547	HLA-DQB1	FEV1FVC_cis	A_G	20018961	Leprosy	5.00E-27	1.61	
rs602875	6	9.65E-04	-6.66	-10.5625	HLA-DRB6	FEV1FVC_cis	A_G	20018961	Leprosy	5.00E-27	1.61	
rs602875	6	9.65E-04	-9.327	-19.9629	HLA-DQB1	FEV1FVC_cis	A_G	20018961	Leprosy	5.00E-27	1.61	
rs602875	6	9.65E-04	-6.88	-11.2229	AGPAT1	FEV1FVC_cis	A_G	20018961	Leprosy	5.00E-27	1.61	
rs602875	6	9.65E-04	-5.944	-8.5557	HLA-DRB5	FEV1FVC_cis	A_G	20018961	Leprosy	5.00E-27	1.61	
rs602875	6	9.65E-04	-7.947	-14.7188	HLA-	FEV1FVC_cis	A_G	20018961	Leprosy	5.00E-27	1.61	

					DQB1							
rs602875	6	9.65E-04	9.958	-22.6332	HLA-DRB1	FEV1FVC_cis	A_G	20018961	Leprosy		5.00E-27	1.61
rs602875	6	9.65E-04	-4.023	-4.2406	AGPAT1	FEV1FVC_cis	A_G	20018961	Leprosy		5.00E-27	1.61
rs602875	6	9.65E-04	11.621	-30.4917	HLA-DQA2	FEV1FVC_cis	A_G	20018961	Leprosy		5.00E-27	1.61
rs602875	6	9.65E-04	10.569	-25.3821	HLA-DRB4	FEV1FVC_trans	A_G	20018961	Leprosy		5.00E-27	1.61
rs602875	6	9.65E-04	20.758	-94.9838	HLA-DRB3	FEV1FVC_trans	A_G	20018961	Leprosy		5.00E-27	1.61
rs602875	6	9.65E-04	10.161	-23.5287	HLA-DQB2	FEV1FVC_cis	A_G	20018961	Leprosy		5.00E-27	1.61
rs602875	6	9.65E-04	-4.678	-5.5381	APOM	FEV1FVC_cis	A_G	20018961	Leprosy		5.00E-27	1.61
rs602875	6	9.65E-04	-9.282	-19.779	HLA-DQB1	FEV1FVC_cis	A_G	20018961	Leprosy		5.00E-27	1.61
rs4324798	6	6.53E-04	-4.262	-4.6933	ZNF323	FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	14.937	-49.7228	BTN3A2	FEV1_trans	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	12.242	-33.7319	HLA-A	FEV1_trans	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	-4.799	-5.7973		FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	4.551	-5.2725	ZNF187	FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	-6.397	-9.8001	C6orf12	FEV1_trans	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	-4.289	-4.746	RP3-377H14.5	FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	-6.878	-11.2168		FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	6.909	-11.3115	HLA-C	FEV1_trans	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	-7.079	-11.838	HLA-DRB3	FEV1_trans	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	5.472	-7.3517		FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	-4.283	-4.7343	ZNF323	FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	-5.304	-6.9458	HLA-F	FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	6.188	-9.2152	ZNF389	FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	-12.64	-35.896	ZFP57	FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	11.058	-27.6978		FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	-6.743	-10.8093	HCG4P6	FEV1_trans	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs4324798	6	6.53E-04	4.833	-5.8713		FEV1_cis	A_G	19836008	Lung adenocarcinoma		2.00E-08	1.16
rs3117582	6	4.03E-06	8.327	-16.0814		FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-7.885	-14.5023	HLA-DQB1	FEV1_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-4.83	-5.8648	NOTCH4	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	10.358	-24.4146	HLA-C	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	10.224	-23.8102	ZFP57	FEV1_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	8.361	-16.2063		FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-4.883	-5.981	AGPAT1	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	8.704	-17.4943		FEV1FVC_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-5.191	-6.6795	BAT2	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	6.944	-11.4189	HCG4P6	FEV1FVC_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-7.833	-14.3221	HLA-DQB1	FEV1FVC_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	8.361	-16.2063		FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	8.327	-16.0814		FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-4.913	-6.0472		FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-7.521	-13.2647	APOM	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	13.186	-38.9762	HLA-DRB3	FEV1FVC_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-7.81	-14.2427	HLA-DQB1	FEV1FVC_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-5.977	-8.6434	PSORS1C1	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	4.599	-5.3721	MICB	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	6.314	-9.5656	TUBB	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-5.191	-6.6795	BAT2	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-7.885	-14.5023	HLA-	FEV1FVC_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22

					DQB1							
rs3117582	6	1.09E-05	-7.833	-14.3221	HLA-DQB1	FEV1_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	6.944	-11.4189	HCG4P6	FEV1_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	13.186	-38.9762	HLA-DRB3	FEV1_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-4.913	-6.0472		FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-8.688	-17.4331	HLA-A	FEV1_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	10.358	-24.4146	HLA-C	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-5.977	-8.6434	PSORS1C1	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	8.704	-17.4943		FEV1_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-5.232	-6.7755	CDSN	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	5.551	-7.5466	RNF5	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	4.599	-5.3721	MICB	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	5.551	-7.5466	RNF5	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-8.039	-15.043	BTN3A2	FEV1_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-8.688	-17.4331	HLA-A	FEV1FVC_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-7.521	-13.2647	APOM	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-5.232	-6.7755	CDSN	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	6.314	-9.5656	TUBB	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	-8.039	-15.043	BTN3A2	FEV1FVC_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	10.224	-23.8102	ZFP57	FEV1FVC_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-7.81	-14.2427	HLA-DQB1	FEV1_trans	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	5.211	-6.7262	SFTA2	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-4.883	-5.981	AGPAT1	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	1.09E-05	-4.83	-5.8648	NOTCH4	FEV1_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs3117582	6	4.03E-06	5.211	-6.7262	SFTA2	FEV1FVC_cis	T_G	19836008	Lung adenocarcinoma		5.00E-12	1.22
rs1051730	15	2.22E-05	6.88	-11.2229	PSMA4	FEV1_cis	G_A	19836008	Lung adenocarcinoma		2.00E-51	1.31
rs1051730	15	1.46E-05	5.825	-8.2433		FEV1FVC_cis	G_A	19836008	Lung adenocarcinoma		2.00E-51	1.31
rs1051730	15	2.22E-05	15.029	-50.3241		FEV1_cis	G_A	19836008	Lung adenocarcinoma		2.00E-51	1.31
rs1051730	15	1.46E-05	-10.13	-23.3908	CHRNA5	FEV1FVC_cis	G_A	19836008	Lung adenocarcinoma		2.00E-51	1.31
rs1051730	15	2.22E-05	-10.13	-23.3908	CHRNA5	FEV1_cis	G_A	19836008	Lung adenocarcinoma		2.00E-51	1.31
rs1051730	15	1.46E-05	6.88	-11.2229	PSMA4	FEV1FVC_cis	G_A	19836008	Lung adenocarcinoma		2.00E-51	1.31
rs1051730	15	2.22E-05	5.825	-8.2433		FEV1_cis	G_A	19836008	Lung adenocarcinoma		2.00E-51	1.31
rs1051730	15	1.46E-05	15.029	-50.3241		FEV1FVC_cis	G_A	19836008	Lung adenocarcinoma		2.00E-51	1.31
rs8034191	15	9.65E-06	16.228	-58.4952		FEV1FVC_cis	C_T	18780872	Lung cancer		1.00E-08	1.38
rs8034191	15	2.07E-05	-6.679	-10.6187	PSMA4	FEV1_cis	C_T	18780872	Lung cancer		1.00E-08	1.38
rs8034191	15	9.65E-06	-5.697	-7.9139		FEV1FVC_cis	C_T	18780872	Lung cancer		1.00E-08	1.38
rs8034191	15	9.65E-06	-6.679	-10.6187	PSMA4	FEV1FVC_cis	C_T	18780872	Lung cancer		1.00E-08	1.38
rs8034191	15	2.07E-05	10.413	-24.665	CHRNA5	FEV1_cis	C_T	18780872	Lung cancer		1.00E-08	1.38
rs8034191	15	9.65E-06	10.413	-24.665	CHRNA5	FEV1FVC_cis	C_T	18780872	Lung cancer		1.00E-08	1.38
rs8034191	15	2.07E-05	-5.697	-7.9139		FEV1_cis	C_T	18780872	Lung cancer		1.00E-08	1.38
rs8034191	15	2.07E-05	16.228	-58.4952		FEV1_cis	C_T	18780872	Lung cancer		1.00E-08	1.38
rs3117582	6	4.03E-06	8.327	-16.0814		FEV1FVC_cis	T_G	18978787	Lung cancer		5.00E-10	1.24
rs3117582	6	1.09E-05	-7.885	-14.5023	HLA-DQB1	FEV1_trans	T_G	18978787	Lung cancer		5.00E-10	1.24
rs3117582	6	4.03E-06	-4.83	-5.8648	NOTCH4	FEV1FVC_cis	T_G	18978787	Lung cancer		5.00E-10	1.24
rs3117582	6	4.03E-06	10.358	-24.4146	HLA-C	FEV1FVC_cis	T_G	18978787	Lung cancer		5.00E-10	1.24
rs3117582	6	1.09E-05	10.224	-23.8102	ZFP57	FEV1_trans	T_G	18978787	Lung cancer		5.00E-10	1.24
rs3117582	6	4.03E-06	8.361	-16.2063		FEV1FVC_cis	T_G	18978787	Lung cancer		5.00E-10	1.24
rs3117582	6	4.03E-06	-4.883	-5.981	AGPAT1	FEV1FVC_cis	T_G	18978787	Lung cancer		5.00E-10	1.24
rs3117582	6	4.03E-06	8.704	-17.4943		FEV1FVC_trans	T_G	18978787	Lung cancer		5.00E-10	1.24
rs3117582	6	1.09E-05	-5.191	-6.6795	BAT2	FEV1_cis	T_G	18978787	Lung cancer		5.00E-10	1.24
rs3117582	6	4.03E-06	6.944	-11.4189	HCG4P6	FEV1FVC_trans	T_G	18978787	Lung cancer		5.00E-10	1.24
rs3117582	6	4.03E-06	-7.833	-14.3221	HLA-	FEV1FVC_trans	T_G	18978787	Lung cancer		5.00E-10	1.24

rs3117582	6	1.09E-05	8.361	-16.2063	DQB1	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	8.327	-16.0814		FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	-4.913	-6.0472		FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	-7.521	-13.2647	APOM	FEV1FVC_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	13.186	-38.9762	HLA-DRB3	FEV1FVC_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	-7.81	-14.2427	HLA-DQB1	FEV1FVC_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	-5.977	-8.6434	PSORS1C1	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	4.599	-5.3721	MICB	FEV1FVC_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	6.314	-9.5656	TUBB	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	-5.191	-6.6795	BAT2	FEV1FVC_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	-7.885	-14.5023	HLA-DQB1	FEV1FVC_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	-7.833	-14.3221	HLA-DQB1	FEV1_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	6.944	-11.4189	HCG4P6	FEV1_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	13.186	-38.9762	HLA-DRB3	FEV1_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	-4.913	-6.0472		FEV1FVC_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	-8.688	-17.4331	HLA-A	FEV1_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	10.358	-24.4146	HLA-C	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	-5.977	-8.6434	PSORS1C1	FEV1FVC_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	8.704	-17.4943		FEV1_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	-5.232	-6.7755	CDSN	FEV1FVC_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	5.551	-7.5466	RNF5	FEV1FVC_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	4.599	-5.3721	MICB	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	5.551	-7.5466	RNF5	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	-8.039	-15.043	BTN3A2	FEV1_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	-8.688	-17.4331	HLA-A	FEV1FVC_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	-7.521	-13.2647	APOM	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	-5.232	-6.7755	CDSN	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	6.314	-9.5656	TUBB	FEV1FVC_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	-8.039	-15.043	BTN3A2	FEV1FVC_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	10.224	-23.8102	ZFP57	FEV1FVC_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	-7.81	-14.2427	HLA-DQB1	FEV1_trans	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	5.211	-6.7262	SFTA2	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	-4.883	-5.981	AGPAT1	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	1.09E-05	-4.83	-5.8648	NOTCH4	FEV1_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	5.211	-6.7262	SFTA2	FEV1FVC_cis	T_G	18978787	Lung cancer	5.00E-10	1.24
rs3117582	6	4.03E-06	8.327	-16.0814		FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-7.885	-14.5023	HLA-DQB1	FEV1_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-4.83	-5.8648	NOTCH4	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	10.358	-24.4146	HLA-C	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	10.224	-23.8102	ZFP57	FEV1_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	8.361	-16.2063		FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-4.883	-5.981	AGPAT1	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	8.704	-17.4943		FEV1FVC_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-5.191	-6.6795	BAT2	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	6.944	-11.4189	HCG4P6	FEV1FVC_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-7.833	-14.3221	HLA-DQB1	FEV1FVC_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	8.361	-16.2063		FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	8.327	-16.0814		FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-4.913	-6.0472		FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-7.521	-13.2647	APOM	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24

rs3117582	6	4.03E-06	13.186	-38.9762	HLA-DRB3	FEV1FVC_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-7.81	-14.2427	HLA-DQB1	FEV1FVC_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-5.977	-8.6434	PSORS1C1	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	4.599	-5.3721	MICB	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	6.314	-9.5656	TUBB	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-5.191	-6.6795	BAT2	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-7.885	-14.5023	HLA-DQB1	FEV1FVC_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-7.833	-14.3221	HLA-DQB1	FEV1_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	6.944	-11.4189	HCG4P6	FEV1_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	13.186	-38.9762	HLA-DRB3	FEV1_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-4.913	-6.0472		FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-8.688	-17.4331	HLA-A	FEV1_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	10.358	-24.4146	HLA-C	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-5.977	-8.6434	PSORS1C1	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	8.704	-17.4943		FEV1_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-5.232	-6.7755	CDSN	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	5.551	-7.5466	RNF5	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	4.599	-5.3721	MICB	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	5.551	-7.5466	RNF5	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-8.039	-15.043	BTN3A2	FEV1_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-8.688	-17.4331	HLA-A	FEV1FVC_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-7.521	-13.2647	APOM	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-5.232	-6.7755	CDSN	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	6.314	-9.5656	TUBB	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	-8.039	-15.043	BTN3A2	FEV1FVC_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	10.224	-23.8102	ZFP57	FEV1FVC_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-7.81	-14.2427	HLA-DQB1	FEV1_trans	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	5.211	-6.7262	SFTA2	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-4.883	-5.981	AGPAT1	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	1.09E-05	-4.83	-5.8648	NOTCH4	FEV1_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs3117582	6	4.03E-06	5.211	-6.7262	SFTA2	FEV1FVC_cis	T_G	19654303	Lung cancer	4.00E-10	1.24
rs1051730	15	2.22E-05	6.88	-11.2229	PSMA4	FEV1_cis	G_A	18978790	Lung cancer	1.00E-15	1.35
rs1051730	15	1.46E-05	5.825	-8.2433		FEV1FVC_cis	G_A	18978790	Lung cancer	1.00E-15	1.35
rs1051730	15	2.22E-05	15.029	-50.3241		FEV1_cis	G_A	18978790	Lung cancer	1.00E-15	1.35
rs1051730	15	1.46E-05	-10.13	-23.3908	CHRNA5	FEV1FVC_cis	G_A	18978790	Lung cancer	1.00E-15	1.35
rs1051730	15	2.22E-05	-10.13	-23.3908	CHRNA5	FEV1_cis	G_A	18978790	Lung cancer	1.00E-15	1.35
rs1051730	15	1.46E-05	6.88	-11.2229	PSMA4	FEV1FVC_cis	G_A	18978790	Lung cancer	1.00E-15	1.35
rs1051730	15	2.22E-05	5.825	-8.2433		FEV1_cis	G_A	18978790	Lung cancer	1.00E-15	1.35
rs1051730	15	1.46E-05	15.029	-50.3241		FEV1FVC_cis	G_A	18978790	Lung cancer	1.00E-15	1.35
rs8034191	15	9.65E-06	16.228	-58.4952		FEV1FVC_cis	C_T	18385676	Lung cancer	3.00E-18	1.3
rs8034191	15	2.07E-05	-6.679	-10.6187	PSMA4	FEV1_cis	C_T	18385676	Lung cancer	3.00E-18	1.3
rs8034191	15	9.65E-06	-5.697	-7.9139		FEV1FVC_cis	C_T	18385676	Lung cancer	3.00E-18	1.3
rs8034191	15	9.65E-06	-6.679	-10.6187	PSMA4	FEV1FVC_cis	C_T	18385676	Lung cancer	3.00E-18	1.3
rs8034191	15	2.07E-05	10.413	-24.665	CHRNA5	FEV1_cis	C_T	18385676	Lung cancer	3.00E-18	1.3
rs8034191	15	9.65E-06	10.413	-24.665	CHRNA5	FEV1FVC_cis	C_T	18385676	Lung cancer	3.00E-18	1.3
rs8034191	15	2.07E-05	-5.697	-7.9139		FEV1_cis	C_T	18385676	Lung cancer	3.00E-18	1.3
rs8034191	15	2.07E-05	16.228	-58.4952		FEV1_cis	C_T	18385676	Lung cancer	3.00E-18	1.3
rs8034191	15	9.65E-06	16.228	-58.4952		FEV1FVC_cis	C_T	18385738	Lung cancer	5.00E-20	1.3
rs8034191	15	2.07E-05	-6.679	-10.6187	PSMA4	FEV1_cis	C_T	18385738	Lung cancer	5.00E-20	1.3
rs8034191	15	9.65E-06	-5.697	-7.9139		FEV1FVC_cis	C_T	18385738	Lung cancer	5.00E-20	1.3
rs8034191	15	9.65E-06	-6.679	-10.6187	PSMA4	FEV1FVC_cis	C_T	18385738	Lung cancer	5.00E-20	1.3
rs8034191	15	2.07E-05	10.413	-24.665	CHRNA5	FEV1_cis	C_T	18385738	Lung cancer	5.00E-20	1.3

rs8034191	15	9.65E-06	10.413	-24.665	CHRNA5	FEV1FVC_cis	C_T	18385738	Lung cancer	5.00E-20	1.3
rs8034191	15	2.07E-05	-5.697	-7.9139		FEV1_cis	C_T	18385738	Lung cancer	5.00E-20	1.3
rs8034191	15	2.07E-05	16.228	-58.4952		FEV1FVC_cis	C_T	18385738	Lung cancer	5.00E-20	1.3
rs8034191	15	9.65E-06	16.228	-58.4952		FEV1FVC_cis	C_T	19654303	Lung cancer	3.00E-26	1.29
rs8034191	15	2.07E-05	-6.679	-10.6187	PSMA4	FEV1_cis	C_T	19654303	Lung cancer	3.00E-26	1.29
rs8034191	15	9.65E-06	-5.697	-7.9139		FEV1FVC_cis	C_T	19654303	Lung cancer	3.00E-26	1.29
rs8034191	15	9.65E-06	-6.679	-10.6187	PSMA4	FEV1FVC_cis	C_T	19654303	Lung cancer	3.00E-26	1.29
rs8034191	15	2.07E-05	10.413	-24.665	CHRNA5	FEV1_cis	C_T	19654303	Lung cancer	3.00E-26	1.29
rs8034191	15	9.65E-06	10.413	-24.665	CHRNA5	FEV1FVC_cis	C_T	19654303	Lung cancer	3.00E-26	1.29
rs8034191	15	2.07E-05	-5.697	-7.9139		FEV1_cis	C_T	19654303	Lung cancer	3.00E-26	1.29
rs8034191	15	2.07E-05	16.228	-58.4952		FEV1_cis	C_T	19654303	Lung cancer	3.00E-26	1.29
rs12373124	17	5.83E-04	16.361	-59.44		FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	7.134	-12.011	KIAA1267	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	-4.397	-4.9596	LRRC37A	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	10.278	-24.0528	MAPT	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	37.281	303.4769		FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	20.758	-94.9838	MAPT	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	30.235	200.0853		FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	34.355	257.9259		FEV1_trans	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	20.908	-96.3441		FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	-8.449	-16.5319		FEV1_trans	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	12.111	-33.0345	PLEKHM1	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	21.094	-98.0443	MAPT	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	37.482	306.7424		FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	-21.4	100.8742	MAPT	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	32.658	233.2098		FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	39.525	340.9282	LRRC37A4	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	29.109	185.5588	KIAA1267	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	19.003	-79.793		FEV1_trans	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	-9.177	-19.3533	WNT3	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	-25.79	-145.94		FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs12373124	17	5.83E-04	33.013	238.2768	LRRC37A4	FEV1_cis	C_T	22693459	Male-pattern baldness	5.00E-10	1.33
rs7617480	3	8.21E-04	8.861	-18.1007	AMT	FEV1_cis	A_C	21102462	Menarche (age at onset)	3.00E-08	2.4
rs7617480	3	8.21E-04	-7.094	-11.8851	RHOA	FEV1_cis	A_C	21102462	Menarche (age at onset)	3.00E-08	2.4
rs7617480	3	8.21E-04	24.479	131.6069		FEV1_trans	A_C	21102462	Menarche (age at onset)	3.00E-08	2.4
rs7617480	3	8.21E-04	-4.784	-5.7649	CCDC51	FEV1_cis	A_C	21102462	Menarche (age at onset)	3.00E-08	2.4
rs7617480	3	8.21E-04	-4.056	-4.3017	USP4	FEV1_cis	A_C	21102462	Menarche (age at onset)	3.00E-08	2.4
rs7617480	3	8.21E-04	5.919	-8.4896	ARIH2	FEV1_cis	A_C	21102462	Menarche (age at onset)	3.00E-08	2.4
rs7617480	3	8.21E-04	-9.965	-22.6638		FEV1_cis	A_C	21102462	Menarche (age at onset)	3.00E-08	2.4
rs7617480	3	8.21E-04	-5.061	-6.3798	NICN1	FEV1_cis	A_C	21102462	Menarche (age at onset)	3.00E-08	2.4
rs7617480	3	8.21E-04	-4.469	-5.1047	USP4	FEV1_cis	A_C	21102462	Menarche (age at onset)	3.00E-08	2.4
rs7617480	3	8.21E-04	6.695	-10.6662		FEV1_cis	A_C	21102462	Menarche (age at onset)	3.00E-08	2.4
rs494620	6	7.08E-04	-4.541	-5.2519		FEV1FVC_cis	A_G	19448619	Menopause (age at onset)	5.00E-07	0.3

rs494620	6	7.08E-04	-4.741	-5.6723		FEV1FVC_cis	A_G	19448619	Menopause (age at onset)	5.00E-07	0.3
rs494620	6	7.08E-04	-8.473	-16.6213	HLA-C	FEV1FVC_cis	A_G	19448619	Menopause (age at onset)	5.00E-07	0.3
rs494620	6	7.08E-04	-6.645	-10.5182	PSORS1C1	FEV1FVC_cis	A_G	19448619	Menopause (age at onset)	5.00E-07	0.3
rs494620	6	7.08E-04	-4.833	-5.8713	HLA-DRB6	FEV1FVC_cis	A_G	19448619	Menopause (age at onset)	5.00E-07	0.3
rs494620	6	7.08E-04	-4.848	-5.9041	VAR2	FEV1FVC_cis	A_G	19448619	Menopause (age at onset)	5.00E-07	0.3
rs494620	6	7.08E-04	-4.058	-4.3054	ATP6V1G2	FEV1FVC_cis	A_G	19448619	Menopause (age at onset)	5.00E-07	0.3
rs494620	6	7.08E-04	4.377	-4.9196	AGPAT1	FEV1FVC_cis	A_G	19448619	Menopause (age at onset)	5.00E-07	0.3
rs1046089	6	9.82E-04	4.373	-4.9117	HLA-C	FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	-5.049	-6.3525	TUBB	FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	-7.153	-12.0711	HLA-DRB3	FEV1_trans	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	5.125	-6.5265	ATP6V1G2	FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	-5.407	-7.1932		FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	7.007	-11.6135	LY6G5C	FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	4.19	-4.5545	APOM	FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	4.464	-5.0945	BAT4	FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	-5.481	-7.3737		FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	-5.205	-6.7122	MICB	FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	5.833	-8.2641	HLA-DRB5	FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	5.4	-7.1763		FEV1_cis	A_G	23307926	Menopause (age at onset)	4.00E-11	0.19
rs1046089	6	9.82E-04	4.373	-4.9117	HLA-C	FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	-5.049	-6.3525	TUBB	FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	-7.153	-12.0711	HLA-DRB3	FEV1_trans	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	5.125	-6.5265	ATP6V1G2	FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	-5.407	-7.1932		FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	7.007	-11.6135	LY6G5C	FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	4.19	-4.5545	APOM	FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	4.464	-5.0945	BAT4	FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	-5.481	-7.3737		FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	-5.205	-6.7122	MICB	FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	5.833	-8.2641	HLA-DRB5	FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs1046089	6	9.82E-04	5.4	-7.1763		FEV1_cis	A_G	22267201	Menopause (age at onset)	2.00E-16	0.21
rs3099844	6	5.81E-06	4.02	-4.2351	NOTCH4	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	6.856	-11.1499	HLA-DQB1	FEV1FVC_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	-7.979	-14.8311		FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	4.181	-4.5373	AGPAT1	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	-5.801	-8.181	MICB	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	6.917	-11.336	HLA-DQB1	FEV1FVC_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	4.02	-4.2351	NOTCH4	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	-5.827	-8.2485	RNF5	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	5.9	-8.4395	CDSN	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	9.177	-19.3533	HLA-A	FEV1FVC_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	10.947	-27.1631	ZFP57	FEV1_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	-7.274	-12.4572	HCG4P6	FEV1_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	6.784	-10.9322	APOM	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	4.651	-5.4811		FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	12.634	-35.8629	HLA-DRB3	FEV1_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	4.651	-5.4811		FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	-7.979	-14.8311		FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	-8.39	-16.3132		FEV1_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	10.947	-27.1631	ZFP57	FEV1FVC_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	6.917	-11.336	HLA-DQB1	FEV1_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	4.165	-4.5067	PSORS1C3	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15

rs3099844	6	5.81E-06	-5.491	-7.3983	SFTA2	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	4.181	-4.5373	AGPAT1	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	4.165	-4.5067	PSORS1C3	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	5.9	-8.4395	CDSN	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	7.797	-14.1979	BTN3A2	FEV1FVC_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	-7.37	-12.7679	TUBB	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	4.753	-5.6981	BAT2	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	-5.801	-8.181	MICB	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	-5.491	-7.3983	SFTA2	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	10.097	-23.2444	HLA-C	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	-8.037	-15.0359		FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	4.965	-6.163	PSORS1C1	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	4.753	-5.6981	BAT2	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	6.862	-11.1681	HLA-DQB1	FEV1_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	5.083	-6.43		FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	10.097	-23.2444	HLA-C	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	4.965	-6.163	PSORS1C1	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	9.177	-19.3533	HLA-A	FEV1_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	6.862	-11.1681	HLA-DQB1	FEV1FVC_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	-5.827	-8.2485	RNF5	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	5.083	-6.43		FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	12.634	-35.8629	HLA-DRB3	FEV1FVC_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	-7.37	-12.7679	TUBB	FEV1FVC_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	7.797	-14.1979	BTN3A2	FEV1_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	6.856	-11.1499	HLA-DQB1	FEV1_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	-8.39	-16.3132		FEV1FVC_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	6.784	-10.9322	APOM	FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	1.92E-07	-8.037	-15.0359		FEV1_cis	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs3099844	6	5.81E-06	-7.274	-12.4572	HCG4P6	FEV1FVC_trans	A_C	22399527	Metabolic syndrome	2.00E-08	0.15
rs11172113	12	1.36E-06	-6.632	-10.48	STAT6	FEV1FVC_cis	C_T	22683712	Migraine	3.00E-08	1.16
rs11172113	12	1.36E-06	5.705	-7.9343	STAT6	FEV1FVC_cis	C_T	22683712	Migraine	3.00E-08	1.16
rs11172113	12	1.36E-06	-6.632	-10.48	STAT6	FEV1FVC_cis	C_T	21666692	Migraine	4.00E-09	1.11
rs11172113	12	1.36E-06	5.705	-7.9343	STAT6	FEV1FVC_cis	C_T	21666692	Migraine	4.00E-09	1.11
rs11172113	12	1.36E-06	-6.632	-10.48	STAT6	FEV1FVC_cis	C_T	23793025	Migraine	4.00E-19	1.11
rs11172113	12	1.36E-06	5.705	-7.9343	STAT6	FEV1FVC_cis	C_T	23793025	Migraine	4.00E-19	1.11
rs11172113	12	1.36E-06	-6.632	-10.48	STAT6	FEV1FVC_cis	C_T	23793025	Migraine - clinic-based	1.00E-06	1.12
rs11172113	12	1.36E-06	5.705	-7.9343	STAT6	FEV1FVC_cis	C_T	23793025	Migraine - clinic-based	1.00E-06	1.12
rs11172113	12	1.36E-06	-6.632	-10.48	STAT6	FEV1FVC_cis	C_T	23793025	Migraine without aura	1.00E-10	1.15
rs11172113	12	1.36E-06	5.705	-7.9343	STAT6	FEV1FVC_cis	C_T	23793025	Migraine without aura	1.00E-10	1.15
rs11755724	6	1.44E-04	-5.526	-7.4846	RREB1	FEV1FVC_cis	A_G	21833088	Multiple sclerosis	3.00E-06	1.08
rs2040406	6	1.30E-05	5.721	-7.9751	APOM	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	9.561	-20.9332	HLA-DQB1	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	7.114	-11.948	HLA-DQB1	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	8.143	-15.4139	HLA-C	FEV1FVC_trans	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	9.555	-20.908	HLA-DQB1	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	7.107	-11.9259	HLA-DQA2	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	-7.146	-12.0489	HLA-DRB1	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	4.154	-4.4858	HLA-DRB5	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	6.488	-10.0606	HLA-DRB4	FEV1FVC_trans	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	6.61	-10.4153	HLA-DQB2	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05

rs2040406	6	1.30E-05	17.824	-70.337	HLA-DRB3	FEV1FVC_trans	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	-7.138	-12.0237	ZFP57	FEV1FVC_trans	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	4.198	-4.5698	NOTCH4	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	-6.362	-9.7008	RNF5	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	9.556	-20.9122	HLA-DQB1	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	4.474	-5.1148	HLA-DRB6	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs2040406	6	1.30E-05	5.819	-8.2277	AGPAT1	FEV1FVC_cis	G_A	20453840	Multiple sclerosis	1.00E-20	2.05
rs3130544	6	1.04E-04	4.446	-5.0581	PSORS1C3	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	6.758	-10.8542	HCG18	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	-8.778	-17.7788		FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	-4.411	-4.9876	MICB	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	-12.63	-35.8408	HLA-DRB3	FEV1FVC_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	6.319	-9.5796	APOM	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	5.3	-6.9363	VAR2	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	-12.63	-35.8408	HLA-DRB3	FEV1_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	8.421	-16.428	BTN3A2	FEV1FVC_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	4.068	-4.3241		FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	4.068	-4.3241		FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	6.711	-10.7138	PSORS1C1	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	4.523	-5.2149	BAT2	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	4.446	-5.0581	PSORS1C3	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	6.758	-10.8542	HCG18	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	-9.011	-18.69		FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	-6.178	-9.1876	C6orf12	FEV1_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	10.696	-25.9736	ZFP57	FEV1FVC_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	6.319	-9.5796	APOM	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	-9.845	-22.1424		FEV1FVC_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	-6.453	-9.96	SFTA2	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	6.988	-11.5547	CDSN	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	8.313	-16.0301	HLA-A	FEV1FVC_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	-6.936	-11.3943	TUBB	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	4.523	-5.2149	BAT2	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	6.454	-9.9628	HCG18	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	-9.011	-18.69		FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	-9.845	-22.1424		FEV1_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	6.454	-9.9628	HCG18	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	-6.657	-10.5537	HLA-A	FEV1_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	8.313	-16.0301	HLA-A	FEV1_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	5.738	-8.0186		FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	-6.936	-11.3943	TUBB	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	11.246	-28.6156	HLA-C	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	-6.657	-10.5537	HLA-A	FEV1FVC_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	10.696	-25.9736	ZFP57	FEV1_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	5.3	-6.9363	VAR2	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	-6.831	-11.074	HCG4P6	FEV1FVC_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	-6.453	-9.96	SFTA2	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	5.738	-8.0186		FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	11.246	-28.6156	HLA-C	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	8.421	-16.428	BTN3A2	FEV1_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	-6.831	-11.074	HCG4P6	FEV1_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	6.711	-10.7138	PSORS1C1	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.07E-04	-8.778	-17.7788		FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	-6.178	-9.1876	C6orf12	FEV1FVC_trans	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3130544	6	1.04E-04	-4.411	-4.9876	MICB	FEV1FVC_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64

rs3130544	6	1.07E-04	6.988	-11.5547	CDSN	FEV1_cis	A_C	23055271	Myasthenia gravis	2.00E-90	5.64
rs3099844	6	5.81E-06	4.02	-4.2351	NOTCH4	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	6.856	-11.1499	HLA-DQB1	FEV1FVC_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	-7.979	-14.8311		FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	4.181	-4.5373	AGPAT1	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	-5.801	-8.181	MICB	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	6.917	-11.336	HLA-DQB1	FEV1FVC_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	4.02	-4.2351	NOTCH4	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	-5.827	-8.2485	RNF5	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	5.9	-8.4395	CDSN	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	9.177	-19.3533	HLA-A	FEV1FVC_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	10.947	-27.1631	ZFP57	FEV1_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	-7.274	-12.4572	HCG4P6	FEV1_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	6.784	-10.9322	APOM	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	4.651	-5.4811		FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	12.634	-35.8629	HLA-DRB3	FEV1_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	4.651	-5.4811		FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	-7.979	-14.8311		FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	-8.39	-16.3132		FEV1_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	10.947	-27.1631	ZFP57	FEV1FVC_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	6.917	-11.336	HLA-DQB1	FEV1_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	4.165	-4.5067	PSORS1C3	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	-5.491	-7.3983	SFTA2	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	4.181	-4.5373	AGPAT1	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	4.165	-4.5067	PSORS1C3	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	5.9	-8.4395	CDSN	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	7.797	-14.1979	BTN3A2	FEV1FVC_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	-7.37	-12.7679	TUBB	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	4.753	-5.6981	BAT2	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	-5.801	-8.181	MICB	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	-5.491	-7.3983	SFTA2	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	10.097	-23.2444	HLA-C	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	-8.037	-15.0359		FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	4.965	-6.163	PSORS1C1	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	4.753	-5.6981	BAT2	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	6.862	-11.1681	HLA-DQB1	FEV1_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	5.083	-6.43		FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	10.097	-23.2444	HLA-C	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	4.965	-6.163	PSORS1C1	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	9.177	-19.3533	HLA-A	FEV1_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	6.862	-11.1681	HLA-DQB1	FEV1FVC_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	-5.827	-8.2485	RNF5	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	5.083	-6.43		FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	12.634	-35.8629	HLA-DRB3	FEV1FVC_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	-7.37	-12.7679	TUBB	FEV1FVC_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	7.797	-14.1979	BTN3A2	FEV1_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	6.856	-11.1499	HLA-DQB1	FEV1_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	-8.39	-16.3132		FEV1FVC_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	1.92E-07	6.784	-10.9322	APOM	FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34

rs3099844	6	1.92E-07	-8.037	-15.0359		FEV1_cis	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs3099844	6	5.81E-06	-7.274	-12.4572	HCG4P6	FEV1FVC_trans	A_C	20662065	Neonatal lupus	5.00E-10	3.34
rs2187668	6	2.05E-06	-6.623	-10.4535	RNF5	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	9.985	-22.7513	HLA-DQB1	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	5.044	-6.3411	HLA-DQB2	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	8.741	-17.6363	HLA-C	FEV1FVC_trans	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	4.389	-4.9436	NOTCH4	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	-8.762	-17.7171	ZFP57	FEV1FVC_trans	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	5.791	-8.1551	HLA-DQB1	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	-5.404	-7.1859	HLA-DPB1	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	9.954	-22.6157	HLA-DQB1	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	-5.688	-7.891	HLA-DRB1	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	4.661	-5.5021	HLA-DPA1	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	9.973	-22.6988	HLA-DQB1	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	-7.936	-14.6803		FEV1FVC_trans	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	5.539	-7.5168	HLA-DQA2	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	6.721	-10.7436	APOM	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	15.376	-52.625	HLA-DRB3	FEV1FVC_trans	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	7.801	-14.2117	HLA-A	FEV1FVC_trans	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	5.14	-6.5611	AGPAT1	FEV1FVC_cis	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	-6.471	-10.0116	HCG4P6	FEV1FVC_trans	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs2187668	6	2.05E-06	6.599	-10.3831	BTN3A2	FEV1FVC_trans	T_C	21323541	Nephropathy (idiopathic membranous)	8.00E-93	4.32
rs1051730	15	2.22E-05	6.88	-11.2229	PSMA4	FEV1_cis	G_A	18385739	Nicotine dependence	6.00E-20	0.1
rs1051730	15	1.46E-05	5.825	-8.2433		FEV1FVC_cis	G_A	18385739	Nicotine dependence	6.00E-20	0.1
rs1051730	15	2.22E-05	15.029	-50.3241		FEV1_cis	G_A	18385739	Nicotine dependence	6.00E-20	0.1
rs1051730	15	1.46E-05	-10.13	-23.3908	CHRNA5	FEV1FVC_cis	G_A	18385739	Nicotine dependence	6.00E-20	0.1
rs1051730	15	2.22E-05	-10.13	-23.3908	CHRNA5	FEV1_cis	G_A	18385739	Nicotine dependence	6.00E-20	0.1
rs1051730	15	1.46E-05	6.88	-11.2229	PSMA4	FEV1FVC_cis	G_A	18385739	Nicotine dependence	6.00E-20	0.1
rs1051730	15	2.22E-05	5.825	-8.2433		FEV1_cis	G_A	18385739	Nicotine dependence	6.00E-20	0.1
rs1051730	15	1.46E-05	15.029	-50.3241		FEV1FVC_cis	G_A	18385739	Nicotine dependence	6.00E-20	0.1
rs1048466	12	6.98E-04	5.795	-8.1654	CCDC77	FEV1FVC_cis	A_G	23563609	Obesity (early onset extreme)	8.00E-08	1.22
rs1048466	12	6.98E-04	8.157	-15.4641	JARID1A	FEV1FVC_cis	A_G	23563609	Obesity (early onset extreme)	8.00E-08	1.22
rs8040868	15	2.98E-06	-5.501	-7.4229	PSMA4	FEV1_cis	C_T	23251661	Obesity-related traits	6.00E-08	0.05
rs8040868	15	1.14E-06	8.376	-16.2616	CHRNA5	FEV1FVC_cis	C_T	23251661	Obesity-related traits	6.00E-08	0.05
rs8040868	15	1.14E-06	-5.501	-7.4229	PSMA4	FEV1FVC_cis	C_T	23251661	Obesity-related traits	6.00E-08	0.05
rs8040868	15	2.98E-06	14.535	-47.1384		FEV1_cis	C_T	23251661	Obesity-related traits	6.00E-08	0.05
rs8040868	15	2.98E-06	8.376	-16.2616	CHRNA5	FEV1_cis	C_T	23251661	Obesity-related traits	6.00E-08	0.05
rs8040868	15	1.14E-06	14.535	-47.1384		FEV1FVC_cis	C_T	23251661	Obesity-related traits	6.00E-08	0.05
rs17631303	17	6.08E-05	-9.59	-21.0551	MAPT	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	-9.59	-21.0551	MAPT	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	-7.178	-12.1503		FEV1_trans	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	-7.178	-12.1503		FEV1_trans	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	7.389	-12.8299	KIAA1267	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	7.389	-12.8299	KIAA1267	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	-	-		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation	1.00E-08	NR

			27.148	161.5729					carriers		
rs17631303	17	6.08E-05	-	-		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	32.548	231.6508		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	32.548	231.6508		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	14.571	-47.367		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	14.571	-47.367		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	-4.153	-4.4839	ARL17P1	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	-4.153	-4.4839	ARL17P1	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	29.514	190.7204		FEV1_trans	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	29.514	190.7204		FEV1_trans	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	-23.35	119.8607		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	-23.35	119.8607		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	19.296	-82.2363	MAPT	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	19.296	-82.2363	MAPT	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	19.616	-84.9473	MAPT	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	19.616	-84.9473	MAPT	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	-8.745	-17.6517	WNT3	FEV1_trans	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	-8.745	-17.6517	WNT3	FEV1_trans	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	26.051	148.8825	KIAA1267	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	26.051	148.8825	KIAA1267	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	19.622	-84.9986		FEV1_trans	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	19.622	-84.9986		FEV1_trans	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	28.944	183.4764		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	28.944	183.4764		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	17.042	-64.3971		FEV1_trans	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	17.042	-64.3971		FEV1_trans	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	30.255	200.3483	LRRC37A4	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	30.255	200.3483	LRRC37A4	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	32.499	-230.958		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	32.499	-230.958		FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	18.418	-75.0259	MAPT	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	-	-75.0259	MAPT	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation	1.00E-08	1.27

			18.418						carriers		
rs17631303	17	6.08E-05	13.109	-38.534	PLEKHM1	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	13.109	-38.534	PLEKHM1	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs17631303	17	6.08E-05	35.221	271.0205	LRRC37A4	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	NR
rs17631303	17	6.08E-05	35.221	271.0205	LRRC37A4	FEV1_cis	G_A	23544013	Ovarian cancer in BRCA1 mutation carriers	1.00E-08	1.27
rs199533	17	2.23E-04	32.542	231.5659		FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	29.536	191.0028		FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	19.764	-86.2162	MAPT	FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	-4.367	-4.8998		FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	-7.239	-12.3449	KIAA1267	FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	9.693	-21.4909	MAPT	FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	37.117	300.8256		FEV1_trans	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	39.445	339.5555		FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	19.981	-88.0937		FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	31.515	217.2666	KIAA1267	FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	6.433	-9.9027	BRWD1	FEV1_trans	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	37.073	300.1162		FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	16.19	-58.2267		FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	39.625	-342.648		FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	11.494	-29.8495	PLEKHM1	FEV1_trans	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	30.536	204.0617	LRRC37A4	FEV1_trans	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	10.72	-26.0862	WNT3	FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	4.428	-5.0218	LRRC37A	FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	19.474	-83.7389	MAPT	FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	8.823	-17.953		FEV1_trans	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	20.195	-89.9653		FEV1_trans	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	19.836	-86.8369	MAPT	FEV1_cis	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs199533	17	2.23E-04	35.534	275.8333	LRRC37A4	FEV1_trans	G_A	20711177	Parkinson's disease	1.00E-06	1.35
rs415430	17	3.59E-04	18.352	-74.4973	MAPT	FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	34.659	262.4856		FEV1_trans	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	27.917	170.7801	LRRC37A4	FEV1_trans	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	10.861	-26.7525	WNT3	FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	11.347	-29.1149	PLEKHM1	FEV1_trans	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	-4.438	-5.0419		FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	17.98	-71.5536	MAPT	FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	14.439	-46.5315		FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	18.764	-77.8275		FEV1_trans	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	-7.02	-11.6539	KIAA1267	FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	8.599	-17.0947	MAPT	FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	18.442	-75.2185	MAPT	FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	37.019	299.2468		FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	29.78	194.1492		FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	29.213	186.8775	KIAA1267	FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR

rs415430	17	3.59E-04	32.664	233.2949	LRRC37A4	FEV1_trans	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	18.89	-78.8606		FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	36.635	293.1006		FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	4.553	-5.2767	LRRC37A	FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	34.177	255.2748		FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	28.215	-174.417		FEV1_cis	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs415430	17	3.59E-04	8.401	-16.3539		FEV1_trans	T_C	21812969	Parkinson's disease	7.00E-07	NR
rs11012	17	5.47E-05	-18.48	-75.5241	MAPT	FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	19.329	-82.5139	MAPT	FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	-19.6	-84.8107	MAPT	FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	17.023	-64.2561		FEV1_trans	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	29.461	190.0409		FEV1_trans	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	-4.164	-4.5048	ARL17P1	FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	14.601	-47.5579		FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	-7.191	-12.1917		FEV1_trans	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	19.617	-84.9559		FEV1_trans	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	-8.657	-17.3148	WNT3	FEV1_trans	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	35.133	-269.675	LRRC37A4	FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	32.471	230.5626		FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	23.321	119.5663		FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	30.215	199.8225	LRRC37A4	FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	32.522	-231.283		FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	26.064	149.0298	KIAA1267	FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	-9.626	-21.2069	MAPT	FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	-28.88	182.6718		FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	27.124	161.2897		FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	7.383	-12.8103	KIAA1267	FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11012	17	5.47E-05	13.103	-38.4996	PLEKHM1	FEV1_cis	T_C	20070850	Parkinson's disease	6.00E-08	1.43
rs11868035	17	9.61E-04	5.71	-7.947		FEV1FVC_cis	A_G	21738487	Parkinson's disease	6.00E-08	1.18
rs11868035	17	9.61E-04	-9.945	-22.5765	SREBF1	FEV1FVC_cis	A_G	21738487	Parkinson's disease	6.00E-08	1.18
rs11868035	17	9.61E-04	4.574	-5.3201	TOM1L2	FEV1FVC_cis	A_G	21738487	Parkinson's disease	6.00E-08	1.18
rs11868035	17	9.61E-04	5.491	-7.3983	TOM1L2	FEV1FVC_cis	A_G	21738487	Parkinson's disease	6.00E-08	1.18
rs8070723	17	5.13E-05	16.887	-63.2512		FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3
rs8070723	17	5.13E-05	31.365	215.2164		FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3
rs8070723	17	5.13E-05	-8.014	-14.9545	KIAA1267	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3
rs8070723	17	5.13E-05	9.878	-22.2852	WNT3	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3
rs8070723	17	5.13E-05	35.125	269.5528	LRRC37A4	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3
rs8070723	17	5.13E-05	8.336	-16.1144		FEV1_trans	A_G	21044948	Parkinson's disease	7.00E-12	1.3
rs8070723	17	5.13E-05	19.423	-83.307		FEV1_trans	A_G	21044948	Parkinson's disease	7.00E-12	1.3
rs8070723	17	5.13E-05	27.223	162.4596		FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3
rs8070723	17	5.13E-05	21.594	-	MAPT	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3

				102.6893								
rs8070723	17	5.13E-05	10.574	-25.4052	MAPT	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	22.1	107.5002	MAPT	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	40.54	358.5859		FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	42.207	388.5565	LRRC37A4	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	12.647	-35.9347	PLEKHM1	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	4.588	-5.3492	LRRC37A	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	22.085	-107.356	MAPT	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	40.708	361.5517		FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	35.43	274.2294		FEV1_trans	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	21.98	106.3492		FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	30.297	200.9012	KIAA1267	FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs8070723	17	5.13E-05	34.112	254.3101		FEV1_cis	A_G	21044948	Parkinson's disease	7.00E-12	1.3	
rs12185268	17	2.66E-05	4.541	-5.2519	LRRC37A	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	10.583	-25.4469	MAPT	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	22.014	106.6747	MAPT	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	8.317	-16.0447		FEV1_trans	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	31.818	221.4378		FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	-7.841	-14.3497	KIAA1267	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	9.733	-21.6614	WNT3	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	30.336	201.4152	KIAA1267	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	27.225	162.4833		FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	43.403	410.8022	LRRC37A4	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	21.505	101.8545	MAPT	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	34.511	260.2607		FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	19.656	-85.2893		FEV1_trans	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	35.913	281.7179		FEV1_trans	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	35.744	279.0862	LRRC37A4	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	17.18	-65.4261		FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	22.105	107.5483		FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	40.796	-363.11		FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	40.5	357.8815		FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	12.707	-36.2671	PLEKHM1	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs12185268	17	2.66E-05	22.257	109.0155	MAPT	FEV1_cis	A_G	21738487	Parkinson's disease	3.00E-14	1.3	
rs199533	17	2.23E-04	32.542	231.5659		FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28	
rs199533	17	2.23E-04	29.536	191.0028		FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28	
rs199533	17	2.23E-04	19.764	-86.2162	MAPT	FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28	
rs199533	17	2.23E-04	-4.367	-4.8998		FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28	
rs199533	17	2.23E-04	-7.239	-12.3449	KIAA1267	FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28	

rs199533	17	2.23E-04	9.693	-21.4909	MAPT	FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	37.117	300.8256		FEV1_trans	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	39.445	339.5555		FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	19.981	-88.0937		FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	31.515	217.2666	KIAA1267	FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	6.433	-9.9027	BRWD1	FEV1_trans	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	37.073	300.1162		FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	16.19	-58.2267		FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	39.625	-342.648		FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	11.494	-29.8495	PLEKHM1	FEV1_trans	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	30.536	204.0617	LRRC37A4	FEV1_trans	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	10.72	-26.0862	WNT3	FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	4.428	-5.0218	LRRC37A	FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	19.474	-83.7389	MAPT	FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	8.823	-17.953		FEV1_trans	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	20.195	-89.9653		FEV1_trans	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	19.836	-86.8369	MAPT	FEV1_cis	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs199533	17	2.23E-04	35.534	275.8333	LRRC37A4	FEV1_trans	G_A	19915575	Parkinson's disease	1.00E-14	1.28
rs393152	17	1.03E-04	34.747	263.8129		FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	-7.806	-14.2289	KIAA1267	FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	22.377	110.1809		FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	9.664	-21.3678	WNT3	FEV1_trans	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	31.875	222.2269		FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	17.505	-67.882		FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	30.612	205.0719	KIAA1267	FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	19.791	-86.4487		FEV1_trans	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	35.981	282.7803	LRRC37A4	FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	12.679	-36.1118	PLEKHM1	FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	36.12	284.9582		FEV1_trans	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	8.454	-16.5505		FEV1_trans	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	10.636	-25.6933	MAPT	FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	27.448	165.1343		FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	21.621	102.9432	MAPT	FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	43.605	414.6207	LRRC37A4	FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	40.769	362.6315		FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	22.087	107.3752	MAPT	FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	4.595	-5.3638	LRRC37A	FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	22.262	109.0639	MAPT	FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs393152	17	1.03E-04	40.981	366.3972		FEV1_cis	A_G	19915575	Parkinson's disease	2.00E-16	1.3
rs199515	17	3.22E-04	37.269	303.2825		FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32

rs199515	17	3.22E-04	34.902	266.1591		FEV1_trans	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	18.068	-72.2446	MAPT	FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	18.816	-78.253		FEV1_trans	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	34.372	258.1798		FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	-8.359	-16.1989		FEV1_trans	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	-4.503	-5.1739	LRRC37A	FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	6.94	-11.4066	KIAA1267	FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	4.433	-5.0318		FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	14.344	-45.9349		FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	28.268	175.0679		FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	18.536	-75.9755	MAPT	FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	28.362	176.2252	LRRC37A4	FEV1_trans	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	29.928	196.0702		FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	36.878	296.9825		FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	11.284	-28.8029	PLEKHM1	FEV1_trans	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	-18.49	-75.6046	MAPT	FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	-8.686	-17.4255	MAPT	FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	-6.215	-9.2897	BRWD1	FEV1_trans	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	18.895	-78.9017		FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	33.148	240.2181	LRRC37A4	FEV1_trans	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	10.819	-26.5531	WNT3	FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs199515	17	3.22E-04	29.201	186.7251	KIAA1267	FEV1_cis	G_C	22451204	Parkinson's disease	3.00E-17	1.32
rs2942168	17	1.01E-04	22.077	107.2791	MAPT	FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	21.624	102.9714	MAPT	FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	35.981	282.7803	LRRC37A4	FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	41.013	366.9673		FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	7.812	-14.2496	KIAA1267	FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	31.887	222.3932		FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	36.135	285.1938		FEV1_trans	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	19.797	-86.5004		FEV1_trans	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	40.804	363.2519		FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	10.634	-25.684	MAPT	FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	43.602	414.5639	LRRC37A4	FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	17.497	-67.821		FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	-8.464	-16.5878		FEV1_trans	A_G	21292315	Parkinson's disease	1.00E-28	1.27

rs2942168	17	1.01E-04	22.262	109.0639	MAPT	FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	34.777	264.2662		FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	-9.665	-21.372	WNT3	FEV1_trans	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	27.455	165.2179		FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	-4.582	-5.3367	LRRRC37A	FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	12.683	-36.1339	PLEKHM1	FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	30.645	205.5113	KIAA1267	FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs2942168	17	1.01E-04	22.377	110.1809		FEV1_cis	A_G	21292315	Parkinson's disease	1.00E-28	1.27
rs10043775	5	1.64E-04	11.686	-30.823	FBXO38	FEV1_cis	C_T	22699663	Periodontal microbiota	2.00E-06	2.06
rs10043775	5	1.64E-04	-4.162	-4.501		FEV1_cis	C_T	22699663	Periodontal microbiota	2.00E-06	2.06
rs10043775	5	1.64E-04	6.395	-9.7944	FBXO38	FEV1_cis	C_T	22699663	Periodontal microbiota	2.00E-06	2.06
rs10043775	5	4.96E-04	6.395	-9.7944	FBXO38	FEV1FVC_cis	C_T	22699663	Periodontal microbiota	2.00E-06	2.06
rs10043775	5	4.96E-04	-4.162	-4.501		FEV1FVC_cis	C_T	22699663	Periodontal microbiota	2.00E-06	2.06
rs10043775	5	4.96E-04	11.686	-30.823	FBXO38	FEV1FVC_cis	C_T	22699663	Periodontal microbiota	2.00E-06	2.06
rs2070729	5	9.49E-04	4.937	-6.1005	SLC22A5	FEV1FVC_cis	C_A	22139419	Platelet counts	1.00E-10	2.39
rs2070729	5	9.49E-04	6.585	-10.3421	RAD50	FEV1FVC_cis	C_A	22139419	Platelet counts	1.00E-10	2.39
rs2070729	5	9.49E-04	4.824	-5.8517		FEV1FVC_cis	C_A	22139419	Platelet counts	1.00E-10	2.39
rs2070729	5	9.49E-04	-4.56	-5.2911	SLC22A5	FEV1FVC_cis	C_A	22139419	Platelet counts	1.00E-10	2.39
rs2070729	5	9.49E-04	4.058	-4.3054	RAD50	FEV1FVC_cis	C_A	22139419	Platelet counts	1.00E-10	2.39
rs2070729	5	9.49E-04	4.407	-4.9796		FEV1FVC_cis	C_A	22139419	Platelet counts	1.00E-10	2.39
rs2070729	5	9.49E-04	5.227	-6.7638		FEV1FVC_cis	C_A	22139419	Platelet counts	1.00E-10	2.39
rs2070729	5	9.49E-04	5.012	-6.2687		FEV1FVC_cis	C_A	22139419	Platelet counts	1.00E-10	2.39
rs997154	14	9.46E-04	4.854	-5.9172	JUB	FEV1FVC_cis	A_G	23704328	Primary tooth development (number of teeth)	3.00E-08	0.15
rs997154	14	9.46E-04	-8.957	-18.4767	C14orf94	FEV1FVC_cis	A_G	23704328	Primary tooth development (number of teeth)	3.00E-08	0.15
rs997154	14	9.46E-04	4.854	-5.9172	JUB	FEV1FVC_cis	A_G	23704328	Primary tooth development (time to first tooth eruption)	7.00E-06	0.14
rs997154	14	9.46E-04	-8.957	-18.4767	C14orf94	FEV1FVC_cis	A_G	23704328	Primary tooth development (time to first tooth eruption)	7.00E-06	0.14
rs8070723	17	5.13E-05	16.887	-63.2512		FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	31.365	215.2164		FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	-8.014	-14.9545	KIAA1267	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	9.878	-22.2852	WNT3	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	35.125	269.5528	LRRRC37A4	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	8.336	-16.1144		FEV1_trans	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	19.423	-83.307		FEV1_trans	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	27.223	162.4596		FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	21.594	102.6893	MAPT	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	10.574	-25.4052	MAPT	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	22.1	107.5002	MAPT	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	40.54	358.5859		FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	42.207	388.5565	LRRRC37A4	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	12.647	-35.9347	PLEKHM1	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	4.588	-5.3492	LRRRC37A	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11

rs8070723	17	5.13E-05	22.085	-107.356	MAPT	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	40.708	361.5517		FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	35.43	274.2294		FEV1_trans	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	21.98	106.3492		FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	30.297	200.9012	KIAA1267	FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs8070723	17	5.13E-05	34.112	254.3101		FEV1_cis	A_G	21685912	Progressive supranuclear palsy	2.00E-118	5.11
rs3134792	6	3.42E-04	6.308	-9.5487	HCG4P6	FEV1_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	-6.673	-10.601	PSORS1C1	FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	-4.445	-5.0561	NOTCH4	FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	-4.836	-5.8779		FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	8.592	-17.0682		FEV1FVC_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	-8.056	-15.1033	BTN3A2	FEV1FVC_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	-8.071	-15.1566	HLA-A	FEV1FVC_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	6.347	-9.6585	TUBB	FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	6.454	-9.9628	C6orf12	FEV1FVC_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	4.332	-4.8304	RNF5	FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	4.332	-4.8304	RNF5	FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	-5.732	-8.0033	APOM	FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	-5.461	-7.3247	CDSN	FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	5.122	-6.5195	SFTA2	FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	-5.732	-8.0033	APOM	FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	-12.3	-34.043	HLA-C	FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	6.347	-9.6585	TUBB	FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	-4.836	-5.8779		FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	-4.152	-4.482	HLA-C	FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	6.454	-9.9628	C6orf12	FEV1_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	-5.461	-7.3247	CDSN	FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	12.331	-34.2099	HLA-DRB3	FEV1FVC_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	5.325	-6.9959	MICB	FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	5.325	-6.9959	MICB	FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	11.003	-27.4322	ZFP57	FEV1FVC_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	8.592	-17.0682		FEV1_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	6.308	-9.5487	HCG4P6	FEV1FVC_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	8.782	-17.7943		FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	12.331	-34.2099	HLA-DRB3	FEV1_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	-6.673	-10.601	PSORS1C1	FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	-4.445	-5.0561	NOTCH4	FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	-4.152	-4.482	HLA-C	FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	11.003	-27.4322	ZFP57	FEV1_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	-12.3	-34.043	HLA-C	FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	8.782	-17.7943		FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	-8.071	-15.1566	HLA-A	FEV1_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	5.122	-6.5195	SFTA2	FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	8.67	-17.3644		FEV1_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.42E-04	-8.056	-15.1033	BTN3A2	FEV1_trans	T_G	18364390	Psoriasis	1.00E-09	NR
rs3134792	6	3.27E-05	8.67	-17.3644		FEV1FVC_cis	T_G	18364390	Psoriasis	1.00E-09	NR
rs1150668	6	2.82E-04	15.469	-53.2505	ZNF323	FEV1_cis	T_G	23449627	Pubertal anthropometrics	2.00E-07	0.06
rs1150668	6	2.82E-04	5.27	-6.8651	PGBD1	FEV1_cis	T_G	23449627	Pubertal anthropometrics	2.00E-07	0.06
rs1150668	6	2.82E-04	4.81	-5.8212	ZNF165	FEV1_cis	T_G	23449627	Pubertal anthropometrics	2.00E-07	0.06
rs1150668	6	2.82E-04	4.256	-4.6817		FEV1_cis	T_G	23449627	Pubertal anthropometrics	2.00E-07	0.06
rs1150668	6	2.82E-04	11.046	-27.6398		FEV1_cis	T_G	23449627	Pubertal anthropometrics	2.00E-07	0.06
rs1150668	6	2.82E-04	14.969	-49.9316	ZNF323	FEV1_cis	T_G	23449627	Pubertal anthropometrics	2.00E-07	0.06
rs1150668	6	2.82E-04	-5.527	-7.4871	ZNF187	FEV1_cis	T_G	23449627	Pubertal anthropometrics	2.00E-07	0.06

rs1150668	6	2.82E-04	8.706	-17.502		FEV1_cis	T_G	23449627	Pubertal anthropometrics	2.00E-07	0.06
rs1150668	6	2.82E-04	-6.071	-8.8958		FEV1_cis	T_G	23449627	Pubertal anthropometrics	2.00E-07	0.06
rs2637266	10	9.57E-06	-6.109	-8.9989		FEV1_cis	G_A	23932459	Pulmonary function	2.00E-06	NR
rs13147758	4	2.68E-19	-4.981	-6.1989		FEV1FVC_cis	A_G	19300500	Pulmonary function	8.00E-11	0.1
rs13147758	4	5.99E-09	-4.981	-6.1989		FEV1_cis	A_G	19300500	Pulmonary function	8.00E-11	0.1
rs11172113	12	1.36E-06	-6.632	-10.48	STAT6	FEV1FVC_cis	C_T	23284291	Pulmonary function (interaction)	8.00E-06	NR
rs11172113	12	1.36E-06	5.705	-7.9343	STAT6	FEV1FVC_cis	C_T	23284291	Pulmonary function (interaction)	8.00E-06	NR
rs1036429	12	1.24E-08	8.119	-15.3279	SNRPF	FEV1FVC_cis	C_T	23284291	Pulmonary function (interaction)	1.00E-07	NR
rs1036429	12	1.24E-08	7.845	-14.3636		FEV1FVC_cis	C_T	23284291	Pulmonary function (interaction)	1.00E-07	NR
rs2857595	6	7.86E-08	7.759	-14.0675	ZFP57	FEV1FVC_trans	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	-4.328	-4.8226		FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	-4.35	-4.866	HLA-DRB6	FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	7.261	-12.4154		FEV1_trans	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	-7.587	-13.4849	PSORS1C1	FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	7.105	-11.9197		FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	-4.328	-4.8226		FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	-7.587	-13.4849	PSORS1C1	FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	13.925	-43.3501	HLA-DRB3	FEV1FVC_trans	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	-4.837	-5.88	ATP6V1G2	FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	7.759	-14.0675	ZFP57	FEV1_trans	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	4.257	-4.6836		FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	13.925	-43.3501	HLA-DRB3	FEV1_trans	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	-4.471	-5.1087	APOM	FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	-5.227	-6.7638		FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	4.691	-5.5656	HLA-DRB1	FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	-9.134	-19.1804	HLA-C	FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	-4.471	-5.1087	APOM	FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	7.261	-12.4154		FEV1FVC_trans	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	-6.682	-10.6276	BTN3A2	FEV1_trans	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	-9.134	-19.1804	HLA-C	FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	4.257	-4.6836		FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	7.097	-11.8945		FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	7.097	-11.8945		FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	4.691	-5.5656	HLA-DRB1	FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	-4.866	-5.9436	CDSN	FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	-4.35	-4.866	HLA-DRB6	FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	-4.866	-5.9436	CDSN	FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	-6.682	-10.6276	BTN3A2	FEV1FVC_trans	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	7.105	-11.9197		FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	5.545	-7.5317	TUBB	FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	-5.227	-6.7638		FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	1.46E-05	5.545	-7.5317	TUBB	FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs2857595	6	7.86E-08	-4.837	-5.88	ATP6V1G2	FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-08	NR
rs11001819	10	1.42E-08	5.722	-7.9777	C10orf11	FEV1_cis	A_G	23284291	Pulmonary function (interaction)	5.00E-08	NR
rs11001819	10	1.42E-08	5.764	-8.0854		FEV1_cis	A_G	23284291	Pulmonary function (interaction)	5.00E-08	NR
rs2571445	2	9.83E-11	-4.271	-4.7109	TNS1	FEV1_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-09	NR
rs2571445	2	4.46E-06	-4.271	-4.7109	TNS1	FEV1FVC_cis	G_A	23284291	Pulmonary function (interaction)	8.00E-09	NR
rs7764819	6	8.79E-05	5.046	-6.3457	HLA-DQB1	FEV1FVC_cis	G_T	23284291	Pulmonary function (interaction)	4.00E-09	0
rs7764819	6	8.79E-05	5.046	-6.3457	HLA-DQB1	FEV1FVC_cis	G_T	23284291	Pulmonary function (interaction)	4.00E-09	0
rs7764819	6	8.79E-05	-7.347	-12.6931	HLA-DQA2	FEV1FVC_cis	G_T	23284291	Pulmonary function (interaction)	4.00E-09	0
rs7764819	6	8.79E-05	-7.347	-12.6931	HLA-DQA2	FEV1FVC_cis	G_T	23284291	Pulmonary function (interaction)	4.00E-09	0
rs7764819	6	8.79E-05	-4.069	-4.3259	HLA-DPA1	FEV1FVC_cis	G_T	23284291	Pulmonary function (interaction)	4.00E-09	0
rs7764819	6	8.79E-05	-4.069	-4.3259	HLA-DPA1	FEV1FVC_cis	G_T	23284291	Pulmonary function (interaction)	4.00E-09	0
rs7764819	6	8.79E-05	-5.468	-7.3419	HLA-DRB6	FEV1FVC_cis	G_T	23284291	Pulmonary function (interaction)	4.00E-09	0

rs7764819	6	8.79E-05	-5.468	-7.3419	HLA-DRB6	FEV1FVC_cis	G_T	23284291	Pulmonary function (interaction)	4.00E-09	0
rs2869967	4	2.08E-11	-4.782	-5.7606	FAM13A1	FEV1FVC_cis	C_T	23284291	Pulmonary function (interaction)	5.00E-11	NR
rs2277027	5	3.10E-04	4.591	-5.3554	ADAM19	FEV1_cis	A_C	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs2277027	5	6.65E-09	4.591	-5.3554	ADAM19	FEV1FVC_cis	A_C	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs2284746	1	2.47E-09	5.216	-6.738	MFAP2	FEV1FVC_cis	C_G	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs2284746	1	2.47E-09	6.339	-9.6359	PADI2	FEV1FVC_cis	C_G	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs2284746	1	2.47E-09	-6.004	-8.7155		FEV1FVC_cis	C_G	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs7068966	10	1.19E-08	-8.578	-17.0153	CAMK1D	FEV1_cis	C_T	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs7068966	10	1.19E-08	-6.539	-10.2081	CAMK1D	FEV1_cis	C_T	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs7068966	10	1.28E-10	-7.687	-13.8221	CAMK1D	FEV1FVC_cis	C_T	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs7068966	10	1.28E-10	-8.578	-17.0153	CAMK1D	FEV1FVC_cis	C_T	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs7068966	10	1.19E-08	-7.687	-13.8221	CAMK1D	FEV1_cis	C_T	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs7068966	10	1.28E-10	-6.539	-10.2081	CAMK1D	FEV1FVC_cis	C_T	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs7068966	10	1.28E-10	-4.896	-6.0096	CDC123	FEV1FVC_cis	C_T	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs7068966	10	1.19E-08	-4.896	-6.0096	CDC123	FEV1_cis	C_T	23284291	Pulmonary function (interaction)	2.00E-11	NR
rs17331332	4	5.30E-05	4.502	-5.1719	NPNT	FEV1FVC_cis	A_G	23284291	Pulmonary function (interaction)	1.00E-16	NR
rs17331332	4	1.11E-12	4.502	-5.1719	NPNT	FEV1_cis	A_G	23284291	Pulmonary function (interaction)	1.00E-16	NR
rs1980057	4	4.07E-09	-5.04	-6.3321		FEV1_cis	C_T	23284291	Pulmonary function (interaction)	5.00E-18	NR
rs1980057	4	1.06E-19	-5.04	-6.3321		FEV1FVC_cis	C_T	23284291	Pulmonary function (interaction)	5.00E-18	NR
rs2070600	6	9.07E-15	-6.854	-11.1438	HLA-DQA2	FEV1FVC_cis	T_C	23284291	Pulmonary function (interaction)	1.00E-21	NR
rs2070600	6	9.07E-15	4.733	-5.6552	HLA-DRB1	FEV1FVC_cis	T_C	23284291	Pulmonary function (interaction)	1.00E-21	NR
rs2070600	6	9.07E-15	4.36	-4.8858	AGER	FEV1FVC_cis	T_C	23284291	Pulmonary function (interaction)	1.00E-21	NR
rs2070600	6	9.07E-15	-7.616	-13.5823	HLA-DRB6	FEV1FVC_cis	T_C	23284291	Pulmonary function (interaction)	1.00E-21	NR
rs2070600	6	9.07E-15	-9.585	-21.0341	HLA-DRB4	FEV1FVC_trans	T_C	23284291	Pulmonary function (interaction)	1.00E-21	NR
rs2070600	6	9.07E-15	-4.867	-5.9458		FEV1FVC_cis	T_C	23284291	Pulmonary function (interaction)	1.00E-21	NR
rs2070600	6	9.07E-15	4.607	-5.3888	AGER	FEV1FVC_cis	T_C	23284291	Pulmonary function (interaction)	1.00E-21	NR
rs6457617	6	6.99E-04	-6.78	-10.9202	HLA-DQB2	FEV1FVC_cis	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs6457617	6	6.99E-04	6.367	-9.715	HLA-DRB4	FEV1FVC_trans	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs6457617	6	6.99E-04	-6.804	-10.9925	HLA-DQB2	FEV1FVC_cis	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs6457617	6	6.99E-04	-9.9	-22.3806	HLA-DQB1	FEV1FVC_cis	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs6457617	6	6.99E-04	10.077	-23.156	HLA-DQB1	FEV1FVC_cis	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs6457617	6	6.99E-04	-9.377	-20.1683	HLA-DRB5	FEV1FVC_cis	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs6457617	6	6.99E-04	7.243	-12.3577	HLA-DRB6	FEV1FVC_cis	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs6457617	6	6.99E-04	10.042	-23.0016	HLA-DQB1	FEV1FVC_cis	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs6457617	6	6.99E-04	11.217	-28.473	HLA-DQB1	FEV1FVC_cis	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs6457617	6	6.99E-04	-9.658	-21.3423	HLA-DRB3	FEV1FVC_trans	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs6457617	6	6.99E-04	6.159	-9.1355	HLA-DQA2	FEV1FVC_cis	C_T	18668548	Rheumatoid arthritis	1.00E-09	NR
rs7765379	6	8.99E-05	-5.464	-7.3321	HLA-DRB6	FEV1FVC_cis	G_T	21452313	Rheumatoid arthritis	5.00E-23	2.51
rs7765379	6	8.99E-05	-5.464	-7.3321	HLA-DRB6	FEV1FVC_cis	G_T	21452313	Rheumatoid arthritis	5.00E-23	2.51
rs7765379	6	8.99E-05	-7.342	-12.6769	HLA-DQA2	FEV1FVC_cis	G_T	21452313	Rheumatoid arthritis	5.00E-23	2.51
rs7765379	6	8.99E-05	-7.342	-12.6769	HLA-DQA2	FEV1FVC_cis	G_T	21452313	Rheumatoid arthritis	5.00E-23	2.51
rs7765379	6	8.99E-05	-4.069	-4.3259	HLA-DPA1	FEV1FVC_cis	G_T	21452313	Rheumatoid arthritis	5.00E-23	2.51
rs7765379	6	8.99E-05	-4.069	-4.3259	HLA-DPA1	FEV1FVC_cis	G_T	21452313	Rheumatoid arthritis	5.00E-23	2.51
rs7765379	6	8.99E-05	5.044	-6.3411	HLA-DQB1	FEV1FVC_cis	G_T	21452313	Rheumatoid arthritis	5.00E-23	2.51
rs7765379	6	8.99E-05	5.044	-6.3411	HLA-DQB1	FEV1FVC_cis	G_T	21452313	Rheumatoid arthritis	5.00E-23	2.51
rs6457617	6	6.99E-04	-6.78	-10.9202	HLA-DQB2	FEV1FVC_cis	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36

rs6457617	6	6.99E-04	6.367	-9.715	HLA-DRB4	FEV1FVC_trans	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36
rs6457617	6	6.99E-04	-6.804	-10.9925	HLA-DQB2	FEV1FVC_cis	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36
rs6457617	6	6.99E-04	-9.9	-22.3806	HLA-DQB1	FEV1FVC_cis	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36
rs6457617	6	6.99E-04	10.077	-23.156	HLA-DQB1	FEV1FVC_cis	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36
rs6457617	6	6.99E-04	-9.377	-20.1683	HLA-DRB5	FEV1FVC_cis	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36
rs6457617	6	6.99E-04	7.243	-12.3577	HLA-DRB6	FEV1FVC_cis	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36
rs6457617	6	6.99E-04	10.042	-23.0016	HLA-DQB1	FEV1FVC_cis	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36
rs6457617	6	6.99E-04	11.217	-28.473	HLA-DQB1	FEV1FVC_cis	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36
rs6457617	6	6.99E-04	-9.658	-21.3423	HLA-DRB3	FEV1FVC_trans	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36
rs6457617	6	6.99E-04	6.159	-9.1355	HLA-DQA2	FEV1FVC_cis	C_T	17554300	Rheumatoid arthritis	5.00E-75	2.36
rs6457620	6	2.92E-04	10.123	-23.3597	HLA-DQB1	FEV1FVC_cis	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs6457620	6	2.92E-04	-6.836	-11.0892	HLA-DQB2	FEV1FVC_cis	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs6457620	6	2.92E-04	11.236	-28.5664	HLA-DQB1	FEV1FVC_cis	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs6457620	6	2.92E-04	-9.973	-22.6988	HLA-DQB1	FEV1FVC_cis	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs6457620	6	2.92E-04	6.208	-9.2703	HLA-DQA2	FEV1FVC_cis	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs6457620	6	2.92E-04	-9.376	-20.1642	HLA-DRB5	FEV1FVC_cis	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs6457620	6	2.92E-04	10.152	-23.4886	HLA-DQB1	FEV1FVC_cis	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs6457620	6	2.92E-04	-6.796	-10.9683	HLA-DQB2	FEV1FVC_cis	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs6457620	6	2.92E-04	-9.645	-21.2873	HLA-DRB3	FEV1FVC_trans	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs6457620	6	2.92E-04	7.348	-12.6964	HLA-DRB6	FEV1FVC_cis	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs6457620	6	2.92E-04	6.447	-9.9428	HLA-DRB4	FEV1FVC_trans	G_C	18794853	Rheumatoid arthritis	4.00E-186	2.55
rs1046089	6	9.82E-04	4.373	-4.9117	HLA-C	FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	-5.049	-6.3525	TUBB	FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	-7.153	-12.0711	HLA-DRB3	FEV1_trans	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	5.125	-6.5265	ATP6V1G2	FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	-5.407	-7.1932		FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	7.007	-11.6135	LY6G5C	FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	4.19	-4.5545	APOM	FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	4.464	-5.0945	BAT4	FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	-5.481	-7.3737		FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	-5.205	-6.7122	MICB	FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	5.833	-8.2641	HLA-DRB5	FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs1046089	6	9.82E-04	5.4	-7.1763		FEV1_cis	A_G	23894747	Schizophrenia	4.00E-06	1.3
rs10911902	1	4.28E-04	-4.955	-6.1407	PRG4	FEV1FVC_cis	C_T	18347602	Schizophrenia	2.00E-06	1.79
rs13132935	6	3.75E-04	7.838	-14.3393	RNF5	FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs13132935	6	3.75E-04	-8.684	-17.4178	HLA-DQB1	FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs13132935	6	3.75E-04	-7.489	-13.1586	AGPAT1	FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs13132935	6	3.75E-04	-4.891	-5.9986	HLA-DRB5	FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs13132935	6	3.75E-04	6.827	-11.0619		FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs13132935	6	3.75E-04	-5.362	-7.0846	APOM	FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs13132935	6	3.75E-04	-8.74	-17.6324	HLA-DQB1	FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs13132935	6	3.75E-04	8.218	-15.6842	ZFP57	FEV1FVC_trans	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs13132935	6	3.75E-04	-5.459	-7.3198	HLA-DQB1	FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs13132935	6	3.75E-04	10.529	-25.1972	HLA-DRB3	FEV1FVC_trans	A_G	23894747	Schizophrenia	5.00E-07	1.25

rs3132935	6	3.75E-04	6.525	-10.1675		FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs3132935	6	3.75E-04	-5.933	-8.5266	AGPAT1	FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs3132935	6	3.75E-04	-8.848	-18.0501	HLA-DQB1	FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs3132935	6	3.75E-04	7.125	-11.9826		FEV1FVC_trans	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs3132935	6	3.75E-04	-5.408	-7.1956	NOTCH4	FEV1FVC_cis	A_G	23894747	Schizophrenia	5.00E-07	1.25
rs3132935	6	3.75E-04	7.838	-14.3393	RNF5	FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	-8.684	-17.4178	HLA-DQB1	FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	-7.489	-13.1586	AGPAT1	FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	-4.891	-5.9986	HLA-DRB5	FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	6.827	-11.0619		FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	-5.362	-7.0846	APOM	FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	-8.74	-17.6324	HLA-DQB1	FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	8.218	-15.6842	ZFP57	FEV1FVC_trans	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	-5.459	-7.3198	HLA-DQB1	FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	10.529	-25.1972	HLA-DRB3	FEV1FVC_trans	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	6.525	-10.1675		FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	-5.933	-8.5266	AGPAT1	FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	-8.848	-18.0501	HLA-DQB1	FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	7.125	-11.9826		FEV1FVC_trans	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3132935	6	3.75E-04	-5.408	-7.1956	NOTCH4	FEV1FVC_cis	A_G	23894747	Schizophrenia	3.00E-07	1.25
rs3131296	6	5.10E-05	4.74	-5.6702	NOTCH4	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	8.56	-16.9474	HLA-DQB1	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	5.143	-6.568	HLA-DQB2	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	-5.574	-7.6039	HLA-DPB1	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	5.143	-6.568	HLA-DQB2	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	10.659	-25.8005	HLA-DRB3	FEV1_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	5.121	-6.5172	HLA-DPA1	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	5.257	-6.8344	AGPAT1	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	-7.997	-14.8945		FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	7.851	-14.3843	HLA-C	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-6.456	-9.9686	TUBB	FEV1FVC_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	6.271	-9.4452	HLA-DQB1	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-8.285	-15.9277	ZFP57	FEV1FVC_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	4.925	-6.0739		FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	4.925	-6.0739		FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	-6.778	-10.9142	HCG4P6	FEV1_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	-8.285	-15.9277	ZFP57	FEV1_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	8.088	-15.2172	BTN3A2	FEV1_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	5.121	-6.5172	HLA-DPA1	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	-6.456	-9.9686	TUBB	FEV1_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	6.271	-9.4452	HLA-DQB1	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	-4.241	-4.6526		FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	8.56	-16.9474	HLA-DQB1	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	8.486	-16.6698	HLA-DQB1	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-7.997	-14.8945		FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	8.56	-16.9474	HLA-	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19

rs3131296	6	5.10E-05	-7.757	-14.0607	DQB1	FEV1_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	7.397	-12.8561	HLA-A	FEV1_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	10.659	-25.8005	HLA-DRB3	FEV1FVC_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	-6.875	-11.2077	RNF5	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	-4.207	-4.5871		FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	6.374	-9.7348	APOM	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-4.911	-6.0428	MICB	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-7.896	-14.5406		FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	-4.911	-6.0428	MICB	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-5.574	-7.6039	HLA-DPB1	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	4.74	-5.6702	NOTCH4	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-4.207	-4.5871		FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	8.56	-16.9474	HLA-DQB1	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	-7.896	-14.5406		FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	5.257	-6.8344	AGPAT1	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-7.757	-14.0607		FEV1FVC_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	6.374	-9.7348	APOM	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	5.10E-05	7.851	-14.3843	HLA-C	FEV1_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	8.088	-15.2172	BTN3A2	FEV1FVC_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-4.241	-4.6526		FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	7.397	-12.8561	HLA-A	FEV1FVC_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	8.486	-16.6698	HLA-DQB1	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-6.778	-10.9142	HCG4P6	FEV1FVC_trans	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs3131296	6	2.43E-06	-6.875	-11.2077	RNF5	FEV1FVC_cis	T_C	19571808	Schizophrenia	2.00E-10	1.19
rs17693963	6	3.38E-04	16.884	-63.2291	BTN3A2	FEV1_trans	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	11.075	-27.7802	HLA-A	FEV1_trans	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	5.089	-6.4437		FEV1_cis	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	-4.742	-5.6744	ZNF323	FEV1_cis	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	-7	-11.5918	HCG4P6	FEV1_trans	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	6.167	-9.1574	ZNF389	FEV1_cis	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	10.735	-26.1566	ZFP57	FEV1_trans	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	-9.848	-22.1554		FEV1_trans	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	-6.567	-10.2896	C6orf12	FEV1_trans	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	-6.637	-10.4947	HLA-DRB3	FEV1_trans	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	6.727	-10.7615	HLA-C	FEV1_trans	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs17693963	6	3.38E-04	-4.826	-5.856	ZNF323	FEV1_cis	C_A	22688191	Schizophrenia	3.00E-11	1.24
rs2021722	6	8.30E-04	8.098	-15.2528	BTN3A2	FEV1_trans	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-6.243	-9.3673		FEV1_trans	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-5.741	-8.0263	RP3-377H14.5	FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	7.986	-14.8558		FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	5.632	-7.7493	VARS2	FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-8.291	-15.9496		FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-4.559	-5.2891	SFTA2	FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-6.859	-11.159	HLA-DRB3	FEV1_trans	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-5.559	-7.5665	HCG18	FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-7.299	-12.5377		FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-6.046	-8.8283	TUBB	FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-5.535	-7.5069	HCG18	FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-6.821	-11.0438	ZFP57	FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	8.616	-17.1591	HLA-A	FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	-7.685	-13.8153	HCG4P6	FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15
rs2021722	6	8.30E-04	5.038	-6.3275	HLA-G	FEV1_cis	T_C	21926974	Schizophrenia	2.00E-12	1.15

rs2021722	6	8.30E-04	5.922	-8.4975	CDSN	FEV1_cis	T_C	21926974	Schizophrenia		2.00E-12	1.15
rs2523722	6	4.95E-04	-6.95	-11.4374	ZFP57	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	-7.106	-11.9228		FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	-8.366	-16.2247		FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	-4.635	-5.4474	SFTA2	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	-6.07	-8.8931	TUBB	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	-6.765	-10.8751	HLA-DRB3	FEV1_trans	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	4.937	-6.1005	HLA-G	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	5.899	-8.4369	CDSN	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	7.746	-14.023		FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	-4.924	-6.0716	HCG18	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	8.399	-16.3465	BTN3A2	FEV1_trans	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	5.675	-7.858	VAR52	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	-4.979	-6.1944	HCG18	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	8.305	-16.0008	HLA-A	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	-5.214	-6.7333	RP3-377H14.5	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs2523722	6	4.95E-04	-7.923	-14.6348	HCG4P6	FEV1_cis	T_C	22883433	Schizophrenia		1.00E-16	1.25
rs12914385	15	2.95E-06	14.428	-46.4623		FEV1_cis	C_T	23022100	Serum albumin level		6.00E-07	0.01
rs12914385	15	2.95E-06	6.149	-9.1081	PSMA4	FEV1_cis	C_T	23022100	Serum albumin level		6.00E-07	0.01
rs12914385	15	2.28E-05	4.482	-5.1311		FEV1FVC_cis	C_T	23022100	Serum albumin level		6.00E-07	0.01
rs12914385	15	2.28E-05	6.149	-9.1081	PSMA4	FEV1FVC_cis	C_T	23022100	Serum albumin level		6.00E-07	0.01
rs12914385	15	2.95E-06	-8.686	-17.4255	CHRNA5	FEV1_cis	C_T	23022100	Serum albumin level		6.00E-07	0.01
rs12914385	15	2.28E-05	-8.686	-17.4255	CHRNA5	FEV1FVC_cis	C_T	23022100	Serum albumin level		6.00E-07	0.01
rs12914385	15	2.95E-06	4.482	-5.1311		FEV1_cis	C_T	23022100	Serum albumin level		6.00E-07	0.01
rs12914385	15	2.28E-05	14.428	-46.4623		FEV1FVC_cis	C_T	23022100	Serum albumin level		6.00E-07	0.01
rs2036527	15	2.40E-06	5.597	-7.6614		FEV1_cis	G_A	22832964	Smoking behavior		2.00E-08	0.04
rs2036527	15	2.40E-06	-15.89	-56.1289		FEV1_cis	G_A	22832964	Smoking behavior		2.00E-08	0.04
rs2036527	15	1.19E-05	-15.89	-56.1289		FEV1FVC_cis	G_A	22832964	Smoking behavior		2.00E-08	0.04
rs2036527	15	1.19E-05	-10.34	-24.333	CHRNA5	FEV1FVC_cis	G_A	22832964	Smoking behavior		2.00E-08	0.04
rs2036527	15	1.19E-05	6.946	-11.4251	PSMA4	FEV1FVC_cis	G_A	22832964	Smoking behavior		2.00E-08	0.04
rs2036527	15	2.40E-06	-10.34	-24.333	CHRNA5	FEV1_cis	G_A	22832964	Smoking behavior		2.00E-08	0.04
rs2036527	15	2.40E-06	6.946	-11.4251	PSMA4	FEV1_cis	G_A	22832964	Smoking behavior		2.00E-08	0.04
rs2036527	15	1.19E-05	5.597	-7.6614		FEV1FVC_cis	G_A	22832964	Smoking behavior		2.00E-08	0.04
rs1051730	15	2.22E-05	6.88	-11.2229	PSMA4	FEV1_cis	G_A	20418889	Smoking behavior		2.00E-66	0.08
rs1051730	15	1.46E-05	5.825	-8.2433		FEV1FVC_cis	G_A	20418889	Smoking behavior		2.00E-66	0.08
rs1051730	15	2.22E-05	15.029	-50.3241		FEV1_cis	G_A	20418889	Smoking behavior		2.00E-66	0.08
rs1051730	15	1.46E-05	-10.13	-23.3908	CHRNA5	FEV1FVC_cis	G_A	20418889	Smoking behavior		2.00E-66	0.08
rs1051730	15	2.22E-05	-10.13	-23.3908	CHRNA5	FEV1_cis	G_A	20418889	Smoking behavior		2.00E-66	0.08
rs1051730	15	1.46E-05	6.88	-11.2229	PSMA4	FEV1FVC_cis	G_A	20418889	Smoking behavior		2.00E-66	0.08
rs1051730	15	2.22E-05	5.825	-8.2433		FEV1_cis	G_A	20418889	Smoking behavior		2.00E-66	0.08
rs1051730	15	1.46E-05	15.029	-50.3241		FEV1FVC_cis	G_A	20418889	Smoking behavior		2.00E-66	0.08
rs1051730	15	2.22E-05	6.88	-11.2229	PSMA4	FEV1_cis	G_A	20418888	Smoking behavior		2.00E-69	0.8
rs1051730	15	1.46E-05	5.825	-8.2433		FEV1FVC_cis	G_A	20418888	Smoking behavior		2.00E-69	0.8
rs1051730	15	2.22E-05	15.029	-50.3241		FEV1_cis	G_A	20418888	Smoking behavior		2.00E-69	0.8
rs1051730	15	1.46E-05	-10.13	-23.3908	CHRNA5	FEV1FVC_cis	G_A	20418888	Smoking behavior		2.00E-69	0.8
rs1051730	15	2.22E-05	-10.13	-23.3908	CHRNA5	FEV1_cis	G_A	20418888	Smoking behavior		2.00E-69	0.8
rs1051730	15	1.46E-05	6.88	-11.2229	PSMA4	FEV1FVC_cis	G_A	20418888	Smoking behavior		2.00E-69	0.8
rs1051730	15	2.22E-05	5.825	-8.2433		FEV1_cis	G_A	20418888	Smoking behavior		2.00E-69	0.8
rs1051730	15	1.46E-05	15.029	-50.3241		FEV1FVC_cis	G_A	20418888	Smoking behavior		2.00E-69	0.8
rs1051730	15	2.22E-05	6.88	-11.2229	PSMA4	FEV1_cis	G_A	20418890	Smoking behavior		3.00E-73	1.02
rs1051730	15	1.46E-05	5.825	-8.2433		FEV1FVC_cis	G_A	20418890	Smoking behavior		3.00E-73	1.02
rs1051730	15	2.22E-05	-	-50.3241		FEV1_cis	G_A	20418890	Smoking behavior		3.00E-73	1.02

			15.029									
rs1051730	15	1.46E-05	-10.13	-23.3908	CHRNA5	FEV1FVC_cis	G_A	20418890	Smoking behavior		3.00E-73	1.02
rs1051730	15	2.22E-05	-10.13	-23.3908	CHRNA5	FEV1_cis	G_A	20418890	Smoking behavior		3.00E-73	1.02
rs1051730	15	1.46E-05	6.88	-11.2229	PSMA4	FEV1FVC_cis	G_A	20418890	Smoking behavior		3.00E-73	1.02
rs1051730	15	2.22E-05	5.825	-8.2433		FEV1_cis	G_A	20418890	Smoking behavior		3.00E-73	1.02
rs1051730	15	1.46E-05	15.029	-50.3241		FEV1FVC_cis	G_A	20418890	Smoking behavior		3.00E-73	1.02
rs2734583	6	3.19E-06	-7.131	-12.0016	TUBB	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	3.19E-06	5.3	-6.9363	PSORS1C1	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	-5.775	-8.1138	SFTA2	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	-7.131	-12.0016	TUBB	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	-8.89	-18.2139		FEV1FVC_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	11.077	-27.7899	ZFP57	FEV1FVC_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	3.19E-06	11.077	-27.7899	ZFP57	FEV1_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	3.19E-06	-7.181	-12.1599	HCG4P6	FEV1_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	3.19E-06	-4.087	-4.3595	HLA-DRB1	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	-8.513	-16.7709		FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	-5.412	-7.2053	RNF5	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	3.19E-06	8.181	-15.5505	BTN3A2	FEV1_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	6.616	-10.4329	APOM	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	-5.537	-7.5119	MICB	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	3.19E-06	-5.775	-8.1138	SFTA2	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	8.181	-15.5505	BTN3A2	FEV1FVC_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	-4.087	-4.3595	HLA-DRB1	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	-8.614	-17.1515		FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	3.19E-06	-6.189	-9.2179	C6orf12	FEV1_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	5.783	-8.1344	CDSN	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	3.19E-06	6.525	-10.1675	HLA-DQB1	FEV1_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	-6.189	-9.2179	C6orf12	FEV1FVC_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	6.492	-10.0721	HLA-DQB1	FEV1FVC_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	6.525	-10.1675	HLA-DQB1	FEV1FVC_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	5.38E-06	4.703	-5.5911		FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	3.19E-06	-5.537	-7.5119	MICB	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8
rs2734583	6	3.19E-06	4.703	-5.5911		FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)		2.00E-08	66.8

rs2734583	6	3.19E-06	6.492	-10.0721	HLA-DQB1	FEV1_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	-8.614	-17.1515		FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	4.457	-5.0803	BAT2	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	12.779	-36.6679	HLA-DRB3	FEV1_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	6.616	-10.4329	APOM	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	5.38E-06	9.638	-21.2576	HLA-A	FEV1FVC_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	5.38E-06	4.425	-5.0157	NOTCH4	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	5.38E-06	10.44	-24.7883	HLA-C	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	10.44	-24.7883	HLA-C	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	5.38E-06	4.457	-5.0803	BAT2	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	-5.412	-7.2053	RNF5	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	5.38E-06	-7.181	-12.1599	HCG4P6	FEV1FVC_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	6.493	-10.075	HLA-DQB1	FEV1_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	-8.89	-18.2139		FEV1_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	5.38E-06	5.3	-6.9363	PSORS1C1	FEV1FVC_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	-8.513	-16.7709		FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	5.38E-06	6.493	-10.075	HLA-DQB1	FEV1FVC_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	5.38E-06	12.779	-36.6679	HLA-DRB3	FEV1FVC_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	9.638	-21.2576	HLA-A	FEV1_trans	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	5.783	-8.1344	CDSN	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2734583	6	3.19E-06	4.425	-5.0157	NOTCH4	FEV1_cis	G_A	21912425	Stevens-Johnson syndrome and toxic epidermal necrolysis (SJS-TEN)	2.00E-08	66.8
rs2187668	6	2.05E-06	-6.623	-10.4535	RNF5	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	9.985	-22.7513	HLA-DQB1	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	5.044	-6.3411	HLA-DQB2	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	8.741	-17.6363	HLA-C	FEV1FVC_trans	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	4.389	-4.9436	NOTCH4	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	-8.762	-17.7171	ZFP57	FEV1FVC_trans	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	5.791	-8.1551	HLA-DQB1	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	-5.404	-7.1859	HLA-DPB1	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	9.954	-22.6157	HLA-DQB1	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	-5.688	-7.891	HLA-DRB1	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	4.661	-5.5021	HLA-DPA1	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	9.973	-22.6988	HLA-DQB1	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	-7.936	-14.6803		FEV1FVC_trans	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	5.539	-7.5168	HLA-	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR

rs2187668	6	2.05E-06	6.721	-10.7436	DQA2 APOM	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	15.376	-52.625	HLA-DRB3	FEV1FVC_trans	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	7.801	-14.2117	HLA-A	FEV1FVC_trans	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	5.14	-6.5611	AGPAT1	FEV1FVC_cis	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	-6.471	-10.0116	HCG4P6	FEV1FVC_trans	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	6.599	-10.3831	BTN3A2	FEV1FVC_trans	T_C	18204098	Systemic lupus erythematosus	3.00E-21	NR
rs2187668	6	2.05E-06	-6.623	-10.4535	RNF5	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	9.985	-22.7513	HLA-DQB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	5.044	-6.3411	HLA-DQB2	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	8.741	-17.6363	HLA-C	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	4.389	-4.9436	NOTCH4	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	-8.762	-17.7171	ZFP57	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	5.791	-8.1551	HLA-DQB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	-5.404	-7.1859	HLA-DPB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	9.954	-22.6157	HLA-DQB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	-5.688	-7.891	HLA-DRB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	4.661	-5.5021	HLA-DPA1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	9.973	-22.6988	HLA-DQB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	-7.936	-14.6803		FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	5.539	-7.5168	HLA-DQA2	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	6.721	-10.7436	APOM	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	15.376	-52.625	HLA-DRB3	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	7.801	-14.2117	HLA-A	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	5.14	-6.5611	AGPAT1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	-6.471	-10.0116	HCG4P6	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs2187668	6	2.05E-06	6.599	-10.3831	BTN3A2	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-28	2.23
rs1150754	6	1.81E-04	-5.498	-7.4155	HLA-DPB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	4.105	-4.3933		FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	6.187	-9.2124	BTN3A2	FEV1_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	4.258	-4.6856	CDSN	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	-6.379	-9.749		FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	8.875	-18.1553	HLA-C	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	6.723	-10.7495	HLA-DQB1	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	6.672	-10.598	HLA-DQB1	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	7.436	-12.9839	HLA-A	FEV1_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	-6.581	-10.3304		FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	-5.444	-7.2832	RNF5	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	11.453	-29.6437	HLA-DRB3	FEV1_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	-5.444	-7.2832	RNF5	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	-4.515	-5.1985	MICB	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	-5.498	-7.4155	HLA-DPB1	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	-4.515	-5.1985	MICB	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	4.105	-4.3933		FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	-5.396	-7.1666	HLA-DQB2	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	6.929	-11.3728	APOM	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	6.689	-10.6484	HLA-	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21

rs1150754	6	1.81E-04	6.929	-11.3728	DQB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	-8.104	-15.2742	ZFP57	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	6.187	-9.2124	BTN3A2	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	-7.609	-13.5587		FEV1_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	6.689	-10.6484	HLA-DQB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	4.258	-4.6856	CDSN	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	-6.273	-9.4508	HCG4P6	FEV1_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	5.193	-6.6842	NOTCH4	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	-8.104	-15.2742	ZFP57	FEV1_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	-6.273	-9.4508	HCG4P6	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	6.723	-10.7495	HLA-DQB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	6.672	-10.598	HLA-DQB1	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	-6.379	-9.749		FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	8.875	-18.1553	HLA-C	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	11.453	-29.6437	HLA-DRB3	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	5.193	-6.6842	NOTCH4	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	-6.581	-10.3304		FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.15E-04	4.141	-4.4612	BAT2	FEV1_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	4.141	-4.4612	BAT2	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	7.436	-12.9839	HLA-A	FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	-5.396	-7.1666	HLA-DQB2	FEV1FVC_cis	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs1150754	6	1.81E-04	-7.609	-13.5587		FEV1FVC_trans	T_C	21408207	Systemic lupus erythematosus	6.00E-29	2.21
rs3131379	6	3.07E-05	9.979	-22.725	ZFP57	FEV1_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	8.827	-17.9685		FEV1_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-5.804	-8.1888	PSORS1C1	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-4.462	-5.0905	HLA-DQA2	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	6.677	-10.6128	HCG4P6	FEV1FVC_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-4.462	-5.0905	HLA-DQA2	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-5.067	-6.3935	NOTCH4	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	8.192	-15.5902		FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	13.307	-39.6762	HLA-DRB3	FEV1FVC_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	6.379	-9.749	TUBB	FEV1_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-5.067	-6.3935	NOTCH4	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-8.602	-17.106	HLA-A	FEV1FVC_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-5.224	-6.7567	CDSN	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	10.329	-24.2832	HLA-C	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-8.602	-17.106	HLA-A	FEV1_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	8.107	-15.285		FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	6.677	-10.6128	HCG4P6	FEV1_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-4.488	-5.1433	HLA-DQB1	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-7.996	-14.891	APOM	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-8.201	-15.6227	HLA-DQB1	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	13.307	-39.6762	HLA-DRB3	FEV1_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-7.996	-14.891	APOM	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	4.791	-5.78	MICB	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-4.488	-5.1433	HLA-DQB1	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-5.324	-6.9935	BAT2	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36

rs3131379	6	3.07E-05	-7.808	-14.2358	BTN3A2	FEV1_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-4.757	-5.7067		FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	5.991	-8.6808	RNF5	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	6.379	-9.749	TUBB	FEV1FVC_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	8.192	-15.5902		FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-6.535	-10.1965	HCG18	FEV1FVC_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	8.107	-15.285		FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-7.808	-14.2358	BTN3A2	FEV1FVC_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-5.224	-6.7567	CDSN	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-4.757	-5.7067		FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-8.254	-15.8148	HLA-DQB1	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	6.214	-9.2869	C6orf12	FEV1_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-5.804	-8.1888	PSORS1C1	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	4.735	-5.6594	SFTA2	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-8.201	-15.6227	HLA-DQB1	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-6.535	-10.1965	HCG18	FEV1_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	4.023	-4.2406	HLA-DRB1	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	6.214	-9.2869	C6orf12	FEV1FVC_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-8.184	-15.5613	HLA-DQB1	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-5.108	-6.4873	AGPAT1	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	4.735	-5.6594	SFTA2	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-5.108	-6.4873	AGPAT1	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	9.979	-22.725	ZFP57	FEV1FVC_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	4.791	-5.78	MICB	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	-8.254	-15.8148	HLA-DQB1	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	10.329	-24.2832	HLA-C	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	8.827	-17.9685		FEV1FVC_trans	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-5.324	-6.9935	BAT2	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	5.991	-8.6808	RNF5	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	2.35E-06	-8.184	-15.5613	HLA-DQB1	FEV1FVC_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs3131379	6	3.07E-05	4.023	-4.2406	HLA-DRB1	FEV1_cis	G_A	18204446	Systemic lupus erythematosus	2.00E-52	2.36
rs6457617	6	6.99E-04	-6.78	-10.9202	HLA-DQB2	FEV1FVC_cis	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	6.367	-9.715	HLA-DRB4	FEV1FVC_trans	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	-6.804	-10.9925	HLA-DQB2	FEV1FVC_cis	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	-9.9	-22.3806	HLA-DQB1	FEV1FVC_cis	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	10.077	-23.156	HLA-DQB1	FEV1FVC_cis	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	-9.377	-20.1683	HLA-DRB5	FEV1FVC_cis	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	7.243	-12.3577	HLA-DRB6	FEV1FVC_cis	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	10.042	-23.0016	HLA-DQB1	FEV1FVC_cis	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	11.217	-28.473	HLA-DQB1	FEV1FVC_cis	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	-9.658	-21.3423	HLA-DRB3	FEV1FVC_trans	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	6.159	-9.1355	HLA-DQA2	FEV1FVC_cis	C_T	20383147	Systemic sclerosis	4.00E-17	1.37
rs6457617	6	6.99E-04	-6.78	-10.9202	HLA-DQB2	FEV1FVC_cis	C_T	21750679	Systemic sclerosis	2.00E-37	1.61
rs6457617	6	6.99E-04	6.367	-9.715	HLA-DRB4	FEV1FVC_trans	C_T	21750679	Systemic sclerosis	2.00E-37	1.61
rs6457617	6	6.99E-04	-6.804	-10.9925	HLA-DQB2	FEV1FVC_cis	C_T	21750679	Systemic sclerosis	2.00E-37	1.61

rs6457617	6	6.99E-04	-9.9	-22.3806	HLA-DQB1	FEV1FVC_cis	C_T	21750679	Systemic sclerosis	2.00E-37	1.61
rs6457617	6	6.99E-04	10.077	-23.156	HLA-DQB1	FEV1FVC_cis	C_T	21750679	Systemic sclerosis	2.00E-37	1.61
rs6457617	6	6.99E-04	-9.377	-20.1683	HLA-DRB5	FEV1FVC_cis	C_T	21750679	Systemic sclerosis	2.00E-37	1.61
rs6457617	6	6.99E-04	7.243	-12.3577	HLA-DRB6	FEV1FVC_cis	C_T	21750679	Systemic sclerosis	2.00E-37	1.61
rs6457617	6	6.99E-04	10.042	-23.0016	HLA-DQB1	FEV1FVC_cis	C_T	21750679	Systemic sclerosis	2.00E-37	1.61
rs6457617	6	6.99E-04	11.217	-28.473	HLA-DQB1	FEV1FVC_cis	C_T	21750679	Systemic sclerosis	2.00E-37	1.61
rs6457617	6	6.99E-04	-9.658	-21.3423	HLA-DRB3	FEV1FVC_trans	C_T	21750679	Systemic sclerosis	2.00E-37	1.61
rs6457617	6	6.99E-04	6.159	-9.1355	HLA-DQA2	FEV1FVC_cis	C_T	21750679	Systemic sclerosis	2.00E-37	1.61
rs2736428	6	9.40E-04	4.53	-5.2293		FEV1FVC_cis	T_C	20421499	Telomere length	3.00E-06	0.05
rs2736428	6	9.40E-04	-4.471	-5.1087	VAR52	FEV1FVC_cis	T_C	20421499	Telomere length	3.00E-06	0.05
rs2736428	6	9.40E-04	-4.229	-4.6294	ATF6B	FEV1FVC_cis	T_C	20421499	Telomere length	3.00E-06	0.05
rs2736428	6	9.40E-04	4.632	-5.4411		FEV1FVC_cis	T_C	20421499	Telomere length	3.00E-06	0.05
rs2736428	6	9.40E-04	-5.195	-6.6888	HLA-C	FEV1FVC_cis	T_C	20421499	Telomere length	3.00E-06	0.05
rs2736428	6	9.40E-04	-4.02	-4.2351	PSORS1C1	FEV1FVC_cis	T_C	20421499	Telomere length	3.00E-06	0.05
rs2736428	6	9.40E-04	-4.11	-4.4027		FEV1FVC_cis	T_C	20421499	Telomere length	3.00E-06	0.05
rs2247056	6	9.20E-04	-4.726	-5.6402	HLA-C	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	7.947	-14.7188		FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-9.237	-19.596	HCG27	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-6.324	-9.5937	OR13C3	FEV1FVC_trans	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	12.695	-36.2005	PSORS1C1	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-5.254	-6.8273		FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-8.859	-18.0929	HCG27	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-8.035	-15.0288	PSORS1C3	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	11.546	-30.1116		FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	8.136	-15.3888		FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-7.972	-14.8065	HCG18	FEV1FVC_trans	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-7.061	-11.7817	HLA-G	FEV1FVC_trans	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-5.781	-8.1293	ATP6V1G2	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-4.795	-5.7887	HLA-C	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-6.202	-9.2538	HLA-B	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	7.993	-14.8804		FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-6.646	-10.5212	VAR52	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	6.241	-9.3617	CDSN	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	23.259	-118.938	HLA-C	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-7.629	-13.626	HCG18	FEV1FVC_trans	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	-4.485	-5.1372		FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2247056	6	9.20E-04	4.759	-5.711	SFTA2	FEV1FVC_cis	C_T	20686565	Triglycerides	2.00E-15	2.99
rs2647044	6	2.71E-06	10.435	-24.7654	HLA-DQB1	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	4.656	-5.4916	NOTCH4	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	-8.557	-16.9361	ZFP57	FEV1FVC_trans	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	13.927	-43.3623	HLA-DRB3	FEV1FVC_trans	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	5.088	-6.4415	AGPAT1	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	4.325	-4.8166	HLA-DRB5	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	-5.21	-6.7239	HLA-DPB1	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	7.463	-13.0728	HLA-A	FEV1FVC_trans	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	-6.216	-9.2924		FEV1FVC_trans	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	10.433	-24.7563	HLA-DQB1	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	-4.845	-5.8975	HLA-DRB1	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3

rs2647044	6	2.71E-06	6.271	-9.4452	APOM	FEV1FVC_trans	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	4.341	-4.8482	HLA-DPA1	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	6.196	-9.2372	HLA-DQB1	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	10.416	-24.6786	HLA-DQB1	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	8.408	-16.3798	HLA-C	FEV1FVC_trans	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	-7.491	-13.1653		FEV1FVC_trans	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	6.408	-9.8314	BTN3A2	FEV1FVC_trans	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	4.335	-4.8364	HLA-DQB2	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs2647044	6	2.71E-06	-6.137	-9.0752	RNF5	FEV1FVC_cis	A_G	17632545	Type 1 diabetes	1.00E-16	8.3
rs9272346	6	8.63E-04	10.049	-23.0324	HLA-DQB2	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	16.482	-60.3061	HLA-DRB4	FEV1_trans	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	11.492	-29.8395	AGPAT1	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	10.107	-23.2887	C19orf6	FEV1_trans	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	13.665	-41.7844	HLA-DQB1	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	12.808	-36.83	HLA-DRB5	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	10.924	-27.053	HLA-DRB1	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	-8.603	-17.1098	AGPAT1	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	-5.675	-7.858	TAP2	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	13.463	-40.588	HLA-DQB1	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	20.082	-88.9745	HLA-DQB1	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	-7.449	-13.0266	HLA-DQB2	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	-6.341	-9.6415		FEV1_trans	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	14.33	-45.8473	HLA-DRB6	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	13.484	-40.7116	HLA-DQB1	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	16.468	-60.2055	HLA-DQA2	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	-7.529	-13.2913	CDSN	FEV1_trans	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	-7.577	-13.4514	HLA-DRB1	FEV1_cis	G_A	18978792	Type 1 diabetes	6.00E-129	NR
rs9272346	6	8.63E-04	10.049	-23.0324	HLA-DQB2	FEV1_cis	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	16.482	-60.3061	HLA-DRB4	FEV1_trans	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	11.492	-29.8395	AGPAT1	FEV1_cis	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	10.107	-23.2887	C19orf6	FEV1_trans	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	13.665	-41.7844	HLA-DQB1	FEV1_cis	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	12.808	-36.83	HLA-DRB5	FEV1_cis	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	10.924	-27.053	HLA-DRB1	FEV1_cis	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	-8.603	-17.1098	AGPAT1	FEV1_cis	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	-5.675	-7.858	TAP2	FEV1_cis	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	13.463	-40.588	HLA-DQB1	FEV1_cis	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	20.082	-88.9745	HLA-DQB1	FEV1_cis	G_A	17554300	Type 1 diabetes	5.00E-134	5.49
rs9272346	6	8.63E-04	-7.449	-13.0266	HLA-	FEV1_cis	G_A	17554300	Type 1 diabetes	5.00E-134	5.49

rs9268877	6	7.97E-04	-4.808	-5.8169	HLA-DQB1	FEV1_cis	A_G	18836448	Ulcerative colitis	6.00E-18	1.45
rs9268877	6	7.97E-04	-9.149	-19.2406	HLA-DRB1	FEV1_cis	A_G	18836448	Ulcerative colitis	6.00E-18	1.45
rs9268877	6	7.97E-04	14.985	-50.0361	HLA-DRB6	FEV1_cis	A_G	18836448	Ulcerative colitis	6.00E-18	1.45
rs9268877	6	7.97E-04	10.354	-24.3965	HLA-DRB1	FEV1_cis	A_G	18836448	Ulcerative colitis	6.00E-18	1.45
rs9268877	6	7.97E-04	-4.96	-6.1519	AGPAT1	FEV1_cis	A_G	18836448	Ulcerative colitis	6.00E-18	1.45
rs9268877	6	7.97E-04	4.643	-5.4642	TAP2	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	-9.309	-19.8893	HLA-DRB5	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	-4.44	-5.046	TAP2	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	-5.87	-8.3607	HLA-DQB1	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	-4.696	-5.5763	HLA-DQB1	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	-5.693	-7.9037	AGPAT1	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	-6.472	-10.0145	CDSN	FEV1_trans	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	19.723	-85.8637	HLA-DQA2	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	-4.704	-5.5933	HLA-DQB1	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	19.601	-84.8193	HLA-DRB4	FEV1_trans	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	-4.808	-5.8169	HLA-DQB1	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	-9.149	-19.2406	HLA-DRB1	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	14.985	-50.0361	HLA-DRB6	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	10.354	-24.3965	HLA-DRB1	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs9268877	6	7.97E-04	-4.96	-6.1519	AGPAT1	FEV1_cis	A_G	19915572	Ulcerative colitis	4.00E-23	NR
rs4767364	12	7.59E-04	-5.209	-6.7216	ERP29	FEV1FVC_cis	A_G	21437268	Upper aerodigestive tract cancers	2.00E-08	1.13
rs4767364	12	7.59E-04	-5.776	-8.1164	ERP29	FEV1FVC_cis	A_G	21437268	Upper aerodigestive tract cancers	2.00E-08	1.13
rs4970988	1	7.70E-04	9.453	-20.4825	ARNT	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	-9.503	-20.6905	LASS2	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	7.188	-12.1821	ARNT	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	-7.031	-11.6881	GOLPH3L	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	4.168	-4.5125	MRPS21	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	-8.486	-16.6698	LASS2	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	-7.731	-13.9718	HORMAD1	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	-4.762	-5.7174	GOLPH3L	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	-5.497	-7.4131	ARNT	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	23.972	126.2637	ARNT	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	4.276	-4.7206		FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs4970988	1	7.70E-04	5.832	-8.2615	FAM63A	FEV1_cis	A_G	23263486	Urate levels	1.00E-07	0.03
rs2842895	6	1.86E-04	7.683	-13.8085	RREB1	FEV1FVC_cis	C_G	22589738	Visceral adipose tissue adjusted for BMI	4.00E-06	NR
rs2842895	6	1.86E-04	7.683	-13.8085	RREB1	FEV1FVC_cis	C_G	22589738	Visceral adipose tissue adjusted for BMI	4.00E-06	NR
rs6904029	6	3.67E-04	6.21	-9.2759	ZFP57	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	-7.448	-13.0233	RP3-377H14.5	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	-5.805	-8.1913	HCG18	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	-5.393	-7.1593		FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	-7.597	-13.5185		FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	4.447	-5.0601	TRIM10	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	6.458	-9.9743	HCG18	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	-9.558	-20.9206	HLA-A	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	-8.785	-17.8059	HLA-G	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	6.687	-10.6425	HCG18	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	10.076	-23.1516	HCG2P7	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	-4.594	-5.3617	RNF39	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49

rs6904029	6	3.67E-04	11.383	-29.294	HCG2P7	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	7.915	-14.6069	HLA-F	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	10.796	-26.4443	HCG4P6	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	-8.761	-17.7133	HLA-G	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs6904029	6	3.67E-04	9.005	-18.6662	RP3-377H14.5	FEV1FVC_cis	A_G	20410501	Vitiligo	1.00E-21	1.49
rs3095254	6	9.77E-04	6.649	-10.53		FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07
rs3095254	6	9.77E-04	-7.176	-12.144		FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07
rs3095254	6	9.77E-04	15.903	-56.219	CDSN	FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07
rs3095254	6	9.77E-04	-4.344	-4.8541		FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07
rs3095254	6	9.77E-04	-4.365	-4.8958		FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07
rs3095254	6	9.77E-04	-6.83	-11.071		FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07
rs3095254	6	9.77E-04	-5.781	-8.1293	HCG27	FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07
rs3095254	6	9.77E-04	-6.76	-10.8601	PSORS1C3	FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07
rs3095254	6	9.77E-04	-4.94	-6.1072	HCG27	FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07
rs3095254	6	9.77E-04	-7.232	-12.3225	PSORS1C1	FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07
rs3095254	6	9.77E-04	4.123	-4.4272	AGPAT1	FEV1_cis	G_C	21738478	White blood cell types	6.00E-11	0.07

Supplementary Table 15: ChIP Seq Significance tool results

Table shows a list of transcription factors enriched among *cis* acting lung function eSNP-regulated genes. Transcription binding significance is calculated using a hypergeometric test followed by multiple hypothesis correction using the method of Benjamini and Hochberg FDR method. Factor: transcription factor that is enriched. Q-value: minimum false discovery rate at which a transcription factor can still be considered significant. Only transcription factors with a q-value < .05 are reported. Factor Rank: The rank of enriched transcription factors.

Transcription factor enrichment among lung function <i>cis</i> eSNP- regulated genes					
FEV₁ <i>cis</i> eSNP-regulated genes			FEV₁/FVC <i>cis</i> eSNP-regulated genes		
Factor	Q-value	Factor Rank	Factor	Q-value	Factor Rank
CmycEstro	1.04E-03	1	Pol2	4.19E-07	1
NfkbTnfa	1.04E-03	1	Ebf1	8.69E-05	2
P300	1.04E-03	1	Sin3a	1.83E-03	3
Pol2	1.04E-03	1	Cmyc	2.41E-03	4
CmycSerumstvd	1.21E-03	5	NfkbTnfa	3.06E-03	5
Mybl2	1.21E-03	5	P300	3.06E-03	5
Nrsf	1.21E-03	5	Pml	3.06E-03	5
Pml	1.21E-03	5	Taf1	3.06E-03	5
Taf1	1.21E-03	5	Yy1	3.06E-03	5
Tbp	1.21E-03	5	Chd2	3.27E-03	10
Yy1	1.21E-03	5	Max	3.27E-03	10
Elf1	1.66E-03	12	Elf1	4.12E-03	12
Hnf4g	1.90E-03	13	Pol2Ifng6h	4.12E-03	12
Maff	1.90E-03	13	Maz	4.48E-03	14
Mxi1	2.25E-03	15	Arid3a	5.46E-03	15
Mta3	2.28E-03	16	Cfos	5.46E-03	15
Sin3a	2.30E-03	17	E2f6	5.46E-03	15
Cebpz	2.85E-03	18	Rfx5	5.46E-03	15
Creb1	2.85E-03	18	Tbp	5.46E-03	15
Phf8	2.85E-03	18	Prdm1	5.66E-03	20
Plu1	2.85E-03	18	Mxi1	5.82E-03	21
Rad21	2.85E-03	18	Pol2Ifng30	6.23E-03	22
Znf143	2.85E-03	18	Pol2Tam	6.23E-03	22
Chd2	3.00E-03	24	Pol2s2	6.23E-03	22
Stat1Ifng30	3.00E-03	24	Ctcf	9.05E-03	25
Usf2	3.47E-03	26	Irf1Ifng6h	9.05E-03	25
Usf1	3.71E-03	27	Tcf12	9.05E-03	25

Foxa2	4.16E-03	28	Ets1	9.54E-03	28
Gabp	4.16E-03	28	Cebpz	9.94E-03	29
Hnf4a	4.16E-03	28	Pou2f2	1.10E-02	30
Pol2Serumstim	4.16E-03	28	Creb1	1.11E-02	31
Pou2f2	4.16E-03	28	Pol2Ifna30	1.11E-02	31
CmycIfng30	4.17E-03	33	Nrsf	1.25E-02	33
CmycSerumstim	4.42E-03	34	Pol2Ifna6h	1.25E-02	33
Foxm1	4.81E-03	35	Ap2gamma	1.28E-02	35
Pol2s2	4.81E-03	35	CmycIfng30	1.31E-02	36
Runx3	4.92E-03	37	Smc3	1.58E-02	37
E2f6	5.22E-03	38	Nfyb	1.76E-02	38
Pol2Tam	5.32E-03	39	Phf8	1.76E-02	38
Cmyc	5.54E-03	40	Pu1	1.76E-02	38
Pol2Etoh01	5.54E-03	40	Hdac2	1.93E-02	41
Pu1	5.54E-03	40	Runx3	1.99E-02	42
Corest	6.11E-03	43	Sp1	2.10E-02	43
Tf3c	6.73E-03	44	Tead4	2.10E-02	43
Arid3a	7.26E-03	45	Rad21	2.14E-02	45
Smc3	7.40E-03	46	Ap2alpha	2.16E-02	46
Ebf1	8.92E-03	47	Pax5	2.16E-02	46
Sp1	8.92E-03	47	Pol2Serumstim	2.43E-02	48
Max	9.79E-03	49	Tblr1	2.43E-02	48
Pol2Ifng6h	9.90E-03	50	Stat1Ifng30	3.04E-02	50
Mafk	1.00E-02	51	E2f4	3.12E-02	51
Pol2Serumstvd	1.00E-02	51	Hnf4a	3.12E-02	51
Srebpl	1.04E-02	53	Ikzf1	3.16E-02	53
Bcl3	1.07E-02	54	Pol2Serumstvd	3.50E-02	54
Tcf12	1.07E-02	54	Bcl3	3.56E-02	55
Cbx3	1.20E-02	56	Rbbp5	3.77E-02	56
Rfx5	1.25E-02	57	Znf143	3.77E-02	56
Hae2f1	1.38E-02	58	Plu1	4.03E-02	58
Tead4	1.38E-02	58	Rxra	4.18E-02	59
Foxa1	1.38E-02	60	Atf1	4.26E-02	60
Atf2	1.40E-02	61	CtcfEstro	4.38E-02	61
Maz	1.40E-02	62	CtcfSerumstvd	4.44E-02	62
Stat1Ifng6h	1.40E-02	62	Gtf2f1	4.82E-02	63
Irf4	1.47E-02	64			

Zbtb33	1.56E-02	65			
Prdm1	1.59E-02	66			
Gtf2f1	1.64E-02	67			
Mbd4	1.64E-02	67			
CmycIfng6h	1.67E-02	69			
Chd1	1.71E-02	70			
Pol2Ifng30	1.74E-02	71			
CmycVeh	1.88E-02	72			
Ikzf1	1.88E-02	72			
Nanog	1.88E-02	72			
Nr2f2	1.88E-02	72			
Pol2Ifna30	1.88E-02	72			
Elk4	1.90E-02	77			
CmycIfna6h	1.90E-02	78			
Elk1	1.90E-02	79			
Brca1	1.99E-02	80			
Whip	2.01E-02	81			
CmycTam14h	2.19E-02	82			
Ctcf	2.49E-02	83			
Gata1	2.80E-02	84			
Irf1Ifng6h	2.80E-02	84			
Mef2c	2.80E-02	84			
E2f4	2.83E-02	87			
Tcf3	2.83E-02	88			
Znf263	2.96E-02	89			
Pax5	3.07E-02	90			
Pgc1a	3.10E-02	91			
Gata3	3.10E-02	92			
Srf	3.10E-02	92			
Stat3	3.10E-02	92			
CmycEtoh01	3.18E-02	95			
Bhlhe40	3.23E-02	96			
Trim28	3.34E-02	97			
Pol2Ifna6h	3.48E-02	98			
Stat2Ifna6h	3.63E-02	99			
Tcf712	3.73E-02	100			
Six5	3.74E-02	101			

Rxra	3.83E-02	102			
Nfya	4.25E-02	103			
Atf1	4.30E-02	104			
Hdac2	4.30E-02	104			
Nfic	4.34E-02	106			
Stat1	4.34E-02	106			
Zeb1	4.34E-02	106			
Eralpha	4.36E-02	109			
Cebpb	4.54E-02	110			
E2f4Tam	4.54E-02	110			
Egr1	4.54E-02	110			
Hdac1	4.54E-02	110			
Pol2b	4.54E-02	110			
Tblr1	4.54E-02	110			
Tr4	4.54E-02	110			
Ets1	4.61E-02	117			
Rbbp5	4.61E-02	117			
Nfatc1	4.78E-02	119			
Irf1Ifng30	4.81E-02	120			
eGFP-Gata2	4.86E-02	121			

Supplementary Table 16: Lung function eSNP regulated probesets regression on COPD

Beta: beta coefficient from the logistic regression of probeset levels on COPD status. SE: standard error. P value: P value for probeset regression on COPD. FDR: False Discovery Rate.

eSNP-regulated genes association results with COPD						
Gene Symbol	Gene Name	probeset	Beta	SE	P value	FDR
ITIH5	inter-alpha (globulin) inhibitor H5	100132638_TGI_at	-1.146	0.296	1.07E-04	0.042761
TTC19	tetratricopeptide repeat domain 19	100132808_TGI_at	-0.659	0.169	9.96E-05	0.042761
AI417595	cDNA clone that maps to EMCN	100130355_TGI_at	-0.603	0.195	1.94E-03	0.173672
AK026718	cDNA clone that maps to SNX2	100145444_TGI_at	-9.052	2.898	1.79E-03	0.173672
AK056784	cDNA clone that maps to SH3PXD2A	100157818_TGI_at	-12.403	3.957	1.72E-03	0.173672
C3orf26	chromosome 3 open reading frame 26	100159492_TGI_at	1.122	0.343	1.09E-03	0.173672
CCBE1	collagen and calcium binding EGF domains 1	100312458_TGI_at	-0.424	0.137	1.96E-03	0.173672
NR3C1	"nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)"	100122984_TGI_at	-0.367	0.115	1.43E-03	0.173672
PABPC4	"poly(A) binding protein, cytoplasmic 4 (inducible form)"	100302787_TGI_at	0.383	0.123	1.79E-03	0.173672
CCBE1	collagen and calcium binding EGF domains 1	100129234_TGI_at	-1.762	0.579	2.35E-03	0.18817
ITIH5	inter-alpha (globulin) inhibitor H5	100159682_TGI_at	-0.388	0.131	3.14E-03	0.209944
TRIM63	tripartite motif-containing 63	100137694_TGI_at	5.472	1.853	3.15E-03	0.209944
ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)	100308316_TGI_at	-1.130	0.388	3.53E-03	0.217168
NR0B2	"nuclear receptor subfamily 0, group B, member 2"	100149978_TGI_at	-1.600	0.553	3.81E-03	0.217757
C3orf26	chromosome 3 open reading frame 26	100304176_TGI_at	1.500	0.530	4.62E-03	0.230572
CLDN23	claudin 23	100135523_TGI_at	-0.399	0.140	4.50E-03	0.230572
CCBE1	collagen and calcium binding EGF domains 1	100129585_TGI_at	-1.826	0.650	4.95E-03	0.232861
NPNT	nephronectin	100129915_TGI_at	-0.098	0.035	5.28E-03	0.23431
BC019888	cDNA clone that maps to ZKSCAN3	100140600_TGI_at	-2.292	0.847	6.83E-03	0.259807
NTN4	netrin 4	100137266_TGI_at	-0.377	0.139	6.77E-03	0.259807
SLC6A4	"solute carrier family 6 (neurotransmitter transporter, serotonin), member 4"	100136626_TGI_at	-0.262	0.096	6.68E-03	0.259807
ATF6	activating transcription factor 6	100155887_TGI_at	0.528	0.197	7.49E-03	0.260405
LTK	leukocyte receptor tyrosine kinase	100154412_TGI_at	-1.177	0.439	7.42E-03	0.260405
NA	FGF receptor activating protein 1	100124148_TGI_at	-0.841	0.317	8.00E-03	0.266384
AGER	advanced glycosylation end product-specific receptor	100313510_TGI_at	-0.058	0.022	8.41E-03	0.268743
AY102072	cDNA clone that maps to ACTR3C	100157804_TGI_at	-1.818	0.705	9.89E-03	0.282271

C21orf82	chromosome 21 open reading frame 82	100128165_TGI_at	7.912	3.046	9.38E-03	0.282271
ZNF436	zinc finger protein 436	100310881_TGI_at	-2.002	0.776	9.89E-03	0.282271
SDK1	"sidekick homolog 1, cell adhesion molecule (chicken)"	100132261_TGI_at	0.714	0.278	1.03E-02	0.283933
SLC35A1	"solute carrier family 35 (CMP-sialic acid transporter), member A1"	100306590_TGI_at	-0.481	0.190	1.14E-02	0.302476
FAM63A	"family with sequence similarity 63, member A"	100313509_TGI_at	-0.438	0.174	1.20E-02	0.310629
NA	NA	100142556_TGI_at	2.195	0.892	1.38E-02	0.345439
BRWD1	bromodomain and WD repeat domain containing 1	100300682_TGI_at	-3.105	1.288	1.59E-02	0.353056
CCNT2	cyclin T2	100306705_TGI_at	-0.495	0.204	1.51E-02	0.353056
PADI2	"peptidyl arginine deiminase, type II"	100143443_TGI_at	0.160	0.066	1.56E-02	0.353056
RPS5	ribosomal protein S5	100139275_TGI_at	0.092	0.038	1.59E-02	0.353056
AZGP1	"alpha-2-glycoprotein 1, zinc-binding"	100151170_TGI_at	0.093	0.039	1.73E-02	0.36202
EPS15	epidermal growth factor receptor pathway substrate 15	100140992_TGI_at	-0.364	0.153	1.77E-02	0.36202
NA	NA	100149604_TGI_at	18.689	7.829	1.70E-02	0.36202
AGER	advanced glycosylation end product-specific receptor	100143779_TGI_at	-0.065	0.028	1.89E-02	0.368955
VEZT	"vezatin, adherens junctions transmembrane protein"	100302084_TGI_at	-2.590	1.102	1.88E-02	0.368955
NR3C1	"nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)"	100129487_TGI_at	-0.334	0.144	2.05E-02	0.390406
BAG5	BCL2-associated athanogene 5	100126588_TGI_at	-0.516	0.227	2.29E-02	0.405396
C10orf58	chromosome 10 open reading frame 58	100161068_TGI_at	0.393	0.176	2.52E-02	0.405396
FBXO38	F-box protein 38	100134215_TGI_at	-0.494	0.217	2.27E-02	0.405396
MCM6	minichromosome maintenance complex component 6	100305043_TGI_at	0.739	0.329	2.48E-02	0.405396
NA	hypothetical protein LOC729082	100309540_TGI_at	1.337	0.590	2.36E-02	0.405396
NA	NA	100129852_TGI_at	-4.085	1.822	2.49E-02	0.405396
NA	"similar to amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein"	100300305_TGI_at	5.415	2.422	2.54E-02	0.405396
TGFB2	"transforming growth factor, beta 2"	100303767_TGI_at	-0.826	0.362	2.27E-02	0.405396
GGT7	gamma-glutamyltransferase 7	100300977_TGI_at	1.351	0.607	2.60E-02	0.407845
RPS5	ribosomal protein S5	100307917_TGI_at	0.079	0.036	2.67E-02	0.410209
NA	NA	100142471_TGI_at	-0.986	0.449	2.82E-02	0.417104
TOM1L2	target of myb1-like 2 (chicken)	100153419_TGI_at	2.296	1.045	2.81E-02	0.417104
ARHGAP27	Rho GTPase activating protein 27	100133349_TGI_at	-1.004	0.464	3.06E-02	0.423096
ARHGEF19	Rho guanine nucleotide exchange factor (GEF) 19	100313238_TGI_at	-1.518	0.703	3.07E-02	0.423096
PID1	phosphotyrosine interaction domain containing 1	100307074_TGI_at	1.614	0.747	3.07E-02	0.423096
PIP4K2B	"phosphatidylinositol-5-phosphate 4-kinase, type II, beta"	100123137_TGI_at	-0.395	0.183	3.11E-02	0.423096
ZRANB3	"zinc finger, RAN-binding domain containing 3"	100133530_TGI_at	7.168	3.328	3.12E-02	0.423096
ARHGEF19	Rho guanine nucleotide exchange factor (GEF) 19	100122367_TGI_at	-2.314	1.096	3.48E-02	0.431674
NA	NA	100304704_TGI_at	1.144	0.537	3.31E-02	0.431674

NA	NA	100128463_TGI_at	-1.397	0.662	3.49E-02	0.431674
SLC22A5	"solute carrier family 22 (organic cation/carnitine transporter), member 5"	100123073_TGI_at	-0.841	0.398	3.46E-02	0.431674
SPINK5	"serine peptidase inhibitor, Kazal type 5"	100305138_TGI_at	0.875	0.409	3.24E-02	0.431674
ZRANB3	"zinc finger, RAN-binding domain containing 3"	100310941_TGI_at	5.020	2.383	3.51E-02	0.431674
PSMB3	"proteasome (prosome, macropain) subunit, beta type, 3"	100134576_TGI_at	0.245	0.117	3.60E-02	0.436223
RPS6KL1	ribosomal protein S6 kinase-like 1	100151794_TGI_at	2.849	1.371	3.77E-02	0.450151
NA	hypothetical LOC646719	100310722_TGI_at	-0.607	0.297	4.08E-02	0.455542
NA	NA	100136516_TGI_at	4.995	2.444	4.10E-02	0.455542
NA	NA	100130789_TGI_at	-2.137	1.046	4.10E-02	0.455542
UBE2Q1	ubiquitin-conjugating enzyme E2Q family member 1	100162507_TGI_at	-2.348	1.140	3.95E-02	0.455542
ZADH2	zinc binding alcohol dehydrogenase domain containing 2	100306063_TGI_at	-0.977	0.476	4.01E-02	0.455542
LONP2	"lon peptidase 2, peroxisomal"	100134381_TGI_at	1.353	0.665	4.18E-02	0.456652
PIP4K2B	"phosphatidylinositol-5-phosphate 4-kinase, type II, beta"	100304243_TGI_at	-0.698	0.344	4.23E-02	0.456652
HLA-DQB1	"major histocompatibility complex, class II, DQ beta 1"	100311704_TGI_at	3.721	1.845	4.38E-02	0.466537
SVEP1	"sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1"	100160095_TGI_at	11.846	5.903	4.48E-02	0.471009
ATF6	activating transcription factor 6	100304092_TGI_at	0.488	0.247	4.80E-02	0.479158
C21orf82	chromosome 21 open reading frame 82	100301107_TGI_at	3.617	1.827	4.77E-02	0.479158
MRPS6	mitochondrial ribosomal protein S6	100145031_TGI_at	0.211	0.106	4.62E-02	0.479158
NA	NA	100307733_TGI_at	-0.583	0.295	4.79E-02	0.479158
NA	hypothetical protein LOC256273	100130569_TGI_at	-1.019	0.518	4.91E-02	0.479158
NA	NA	100313618_TGI_at	7.118	3.622	4.94E-02	0.479158
ZSWIM7	"zinc finger, SWIM-type containing 7"	100125319_TGI_at	-0.693	0.353	4.98E-02	0.479158
EIF2B2	"eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa"	100127661_TGI_at	1.120	0.573	5.05E-02	0.479627
MCM6	minichromosome maintenance complex component 6	100148961_TGI_at	1.025	0.526	5.14E-02	0.479627
NUDT5	nudix (nucleoside diphosphate linked moiety X)-type motif 5	100154198_TGI_at	0.468	0.241	5.16E-02	0.479627
C9orf95	chromosome 9 open reading frame 95	100125670_TGI_at	-0.438	0.226	5.24E-02	0.48007
SNRPF	small nuclear ribonucleoprotein polypeptide F	100310201_TGI_at	0.387	0.200	5.29E-02	0.48007
TMED10	transmembrane emp24-like trafficking protein 10 (yeast)	100152363_TGI_at	-2.839	1.481	5.52E-02	0.495627
CNKSRI	connector enhancer of kinase suppressor of Ras 1	100154120_TGI_at	-0.559	0.294	5.70E-02	0.503127
HOXC12	homeobox C12	100137986_TGI_at	35.637	18.833	5.84E-02	0.503127
PDDC1	Parkinson disease 7 domain containing 1	100132055_TGI_at	-0.236	0.124	5.75E-02	0.503127
S100A14	S100 calcium binding protein A14	100310151_TGI_at	-0.257	0.136	5.85E-02	0.503127
CCBE1	collagen and calcium binding EGF domains 1	100136733_TGI_at	-0.658	0.350	6.03E-02	0.513148
ARNT	aryl hydrocarbon receptor nuclear translocator	100138305_TGI_at	-0.264	0.144	6.61E-02	0.517073

CCDC53	coiled-coil domain containing 53	100151519_TGI_at	-0.360	0.193	6.24E-02	0.517073
CEP192	centrosomal protein 192kDa	100154727_TGI_at	-6.254	3.497	7.37E-02	0.517073
CLEC2D	"C-type lectin domain family 2, member D"	100304233_TGI_at	0.250	0.140	7.37E-02	0.517073
FGD6	"FYVE, RhoGEF and PH domain containing 6"	100151388_TGI_at	-0.589	0.318	6.39E-02	0.517073
HOXC6	homeobox C6	100144365_TGI_at	0.605	0.333	6.92E-02	0.517073
MON1B	MON1 homolog B (yeast)	100307707_TGI_at	-0.605	0.338	7.37E-02	0.517073
NA	NA	100140380_TGI_at	-6.597	3.543	6.27E-02	0.517073
NA	NA	100160039_TGI_at	-6.267	3.394	6.48E-02	0.517073
NA	NA	100145604_TGI_at	-6.384	3.500	6.81E-02	0.517073
NA	hypothetical FLJ44796	100149872_TGI_at	-0.514	0.283	6.95E-02	0.517073
NA	hypothetical FLJ44796	100307273_TGI_at	-0.528	0.292	7.08E-02	0.517073
NA	NA	100151793_TGI_at	8.189	4.539	7.12E-02	0.517073
NA	NA	100306620_TGI_at	-1.449	0.807	7.25E-02	0.517073
NA	NA	100136594_TGI_at	-1.311	0.731	7.27E-02	0.517073
NPHP3	nephronophthisis 3 (adolescent)	100143326_TGI_at	-1.406	0.772	6.83E-02	0.517073
NUDT5	nudix (nucleoside diphosphate linked moiety X)-type motif 5	100303975_TGI_at	0.420	0.228	6.56E-02	0.517073
RHOA	"ras homolog gene family, member A"	100138300_TGI_at	-0.109	0.060	6.71E-02	0.517073
SPTBN5	"spectrin, beta, non-erythrocytic 5"	100134750_TGI_at	3.019	1.649	6.71E-02	0.517073
YLPM1	YLP motif containing 1	100160610_TGI_at	-6.631	3.636	6.82E-02	0.517073
ADAM19	ADAM metallopeptidase domain 19 (meltrin beta)	100132327_TGI_at	0.391	0.222	7.86E-02	0.518998
AMT	aminomethyltransferase	100124708_TGI_at	-0.515	0.296	8.16E-02	0.518998
CLEC2D	"C-type lectin domain family 2, member D"	100309845_TGI_at	0.252	0.145	8.09E-02	0.518998
ERP29	endoplasmic reticulum protein 29	100300653_TGI_at	-9.905	5.636	7.89E-02	0.518998
FGD6	"FYVE, RhoGEF and PH domain containing 6"	100146416_TGI_at	-0.947	0.548	8.42E-02	0.518998
MAPT	microtubule-associated protein tau	100161408_TGI_at	1.688	0.957	7.78E-02	0.518998
NA	NA	100161122_TGI_at	1.001	0.567	7.72E-02	0.518998
NA	NA	100311757_TGI_at	-3.058	1.738	7.85E-02	0.518998
NA	NA	100307519_TGI_at	-0.506	0.289	8.01E-02	0.518998
NA	NA	100132347_TGI_at	1.513	0.870	8.21E-02	0.518998
NA	hypothetical protein LOC285835	100155331_TGI_at	-0.937	0.544	8.51E-02	0.518998
NOTCH4	Notch homolog 4 (Drosophila)	100148822_TGI_at	-0.174	0.098	7.68E-02	0.518998
NUDT14	nudix (nucleoside diphosphate linked moiety X)-type motif 14	100151496_TGI_at	-0.392	0.227	8.45E-02	0.518998
RUNX2	runt-related transcription factor 2	100122981_TGI_at	-1.738	1.003	8.31E-02	0.518998
SIAH1	seven in absentia homolog 1 (Drosophila)	100139154_TGI_at	-0.490	0.282	8.21E-02	0.518998
ZNF323	zinc finger protein 323	100143968_TGI_at	-0.404	0.230	7.96E-02	0.518998
ZNF323	zinc finger protein 323	100301615_TGI_at	-0.355	0.205	8.37E-02	0.518998

GPC5	glypican 5	100129443_TGI_at	-4.158	2.428	8.68E-02	0.521146
ZNF436	zinc finger protein 436	100127649_TGI_at	-1.359	0.795	8.74E-02	0.521146
ZNF639	zinc finger protein 639	100302139_TGI_at	-3.976	2.324	8.71E-02	0.521146
SLC22A5	"solute carrier family 22 (organic cation/carnitine transporter), member 5"	100309997_TGI_at	-4.655	2.737	8.90E-02	0.527209
FLOT1	flotillin 1	100313972_TGI_at	4.419	2.611	9.05E-02	0.531991
CKM	"creatine kinase, muscle"	100148378_TGI_at	9.873	5.859	9.20E-02	0.536589
RBP2	"retinol binding protein 2, cellular"	100309242_TGI_at	-0.560	0.334	9.32E-02	0.539883
HSD17B12	hydroxysteroid (17-beta) dehydrogenase 12	100308139_TGI_at	-0.326	0.197	9.81E-02	0.552667
IQGAP3	IQ motif containing GTPase activating protein 3	100307611_TGI_at	5.484	3.323	9.89E-02	0.552667
NA	NA	100157337_TGI_at	-0.603	0.365	9.86E-02	0.552667
PNPO	pyridoxamine 5';-phosphate oxidase	100129691_TGI_at	0.695	0.420	9.78E-02	0.552667
SEC61A2	Sec61 alpha 2 subunit (S. cerevisiae)	100305260_TGI_at	-1.239	0.747	9.70E-02	0.552667
ATF6B	activating transcription factor 6 beta	100302735_TGI_at	-0.311	0.190	1.02E-01	0.562102
SIAH1	seven in absentia homolog 1 (Drosophila)	100305657_TGI_at	-0.637	0.389	1.02E-01	0.562102
ZFP57	zinc finger protein 57 homolog (mouse)	100303994_TGI_at	1.530	0.939	1.03E-01	0.565819
WWOX	WW domain containing oxidoreductase	100143315_TGI_at	2.818	1.736	1.04E-01	0.567886
DST	dystonin	100138535_TGI_at	-0.364	0.226	1.07E-01	0.570381
NA	NA	100311980_TGI_at	-0.236	0.146	1.07E-01	0.570381
NA	NA	100304001_TGI_at	-0.244	0.151	1.07E-01	0.570381
NA	NA	100155895_TGI_at	15.626	9.764	1.10E-01	0.572148
S100A1	S100 calcium binding protein A1	100126124_TGI_at	1.507	0.941	1.09E-01	0.572148
ZNF322A	zinc finger protein 322A	100148923_TGI_at	-0.469	0.293	1.09E-01	0.572148
NA	NA	100134209_TGI_at	-3.294	2.063	1.10E-01	0.572905
ATP8B3	"ATPase, class I, type 8B, member 3"	100139929_TGI_at	-5.768	3.638	1.13E-01	0.577655
PTCH1	patched homolog 1 (Drosophila)	100141529_TGI_at	-1.686	1.063	1.13E-01	0.577655
TPM1	tropomyosin 1 (alpha)	100304832_TGI_at	0.201	0.127	1.13E-01	0.577655
TMEM163	transmembrane protein 163	100311300_TGI_at	-0.140	0.089	1.15E-01	0.580598
C1orf113	chromosome 1 open reading frame 113	100312774_TGI_at	-40.983	26.582	1.23E-01	0.582349
CEACAM4	carcinoembryonic antigen-related cell adhesion molecule 4	100141551_TGI_at	1.721	1.148	1.34E-01	0.582349
DST	dystonin	100306458_TGI_at	-0.286	0.183	1.19E-01	0.582349
EHHADH	"enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase"	100147399_TGI_at	-0.913	0.587	1.20E-01	0.582349
GRK4	G protein-coupled receptor kinase 4	100134728_TGI_at	3.576	2.334	1.25E-01	0.582349
HORMAD1	HORMA domain containing 1	100135055_TGI_at	11.354	7.520	1.31E-01	0.582349
HSD17B12	hydroxysteroid (17-beta) dehydrogenase 12	100148450_TGI_at	-0.134	0.088	1.27E-01	0.582349
IQGAP3	IQ motif containing GTPase activating protein 3	100131939_TGI_at	8.191	5.342	1.25E-01	0.582349

JUB	"jub, ajuba homolog (Xenopus laevis)"	100301474_TGI_at	-0.502	0.335	1.34E-01	0.582349
KCNE2	"potassium voltage-gated channel, Isk-related family, member 2"	100309078_TGI_at	3.865	2.571	1.33E-01	0.582349
LASS2	"LAG1 homolog, ceramide synthase 2"	100151271_TGI_at	-0.291	0.186	1.18E-01	0.582349
LASS2	"LAG1 homolog, ceramide synthase 2"	100302368_TGI_at	-0.258	0.169	1.27E-01	0.582349
NA	hypothetical LOC553103	100158314_TGI_at	-5.952	3.846	1.22E-01	0.582349
NA	NA	100160204_TGI_at	-0.477	0.312	1.26E-01	0.582349
NA	NA	100139132_TGI_at	-4.063	2.687	1.31E-01	0.582349
NOP16	NOP16 nucleolar protein homolog (yeast)	100141815_TGI_at	0.262	0.174	1.31E-01	0.582349
OR13C3	"olfactory receptor, family 13, subfamily C, member 3"	100122819_TGI_at	12.968	8.649	1.34E-01	0.582349
PCM1	pericentriolar material 1	100312395_TGI_at	-0.194	0.129	1.34E-01	0.582349
PGBD1	piggyBac transposable element derived 1	100161813_TGI_at	-2.966	1.967	1.32E-01	0.582349
SLMO2	slowmo homolog 2 (Drosophila)	100152090_TGI_at	0.752	0.479	1.17E-01	0.582349
SNORA24	"small nucleolar RNA, H/ACA box 24"	100149386_TGI_at	0.778	0.507	1.25E-01	0.582349
STAT6	"signal transducer and activator of transcription 6, interleukin-4 induced"	100305452_TGI_at	-0.243	0.159	1.28E-01	0.582349
TMEM163	transmembrane protein 163	100158135_TGI_at	-0.230	0.148	1.19E-01	0.582349
ZNF25	zinc finger protein 25	100154037_TGI_at	-0.988	0.640	1.23E-01	0.582349
ZNF28	zinc finger protein 28	100302468_TGI_at	-0.919	0.613	1.34E-01	0.582349
ZNRD1	zinc ribbon domain containing 1	100158228_TGI_at	0.982	0.638	1.23E-01	0.582349
NA	NA	100121683_TGI_at	6.682	4.500	1.38E-01	0.594113
RAD50	RAD50 homolog (S. cerevisiae)	100132153_TGI_at	-0.791	0.534	1.38E-01	0.594113
ANAPC4	anaphase promoting complex subunit 4	100130614_TGI_at	-0.226	0.152	1.39E-01	0.594314
NA	ubiquinol-cytochrome c reductase complex (7.2 kD)	100141331_TGI_at	-0.904	0.612	1.40E-01	0.594687
C1QL3	"complement component 1, q subcomponent-like 3"	100123512_TGI_at	-3.272	2.267	1.49E-01	0.59675
C6orf173	chromosome 6 open reading frame 173	100121877_TGI_at	0.491	0.336	1.44E-01	0.59675
CPD	carboxypeptidase D	100139113_TGI_at	0.549	0.378	1.47E-01	0.59675
CTSS	cathepsin S	100125530_TGI_at	0.066	0.046	1.51E-01	0.59675
HLA-DQB2	"major histocompatibility complex, class II, DQ beta 2"	100311684_TGI_at	10.271	7.101	1.48E-01	0.59675
NA	hypothetical LOC554223	100304197_TGI_at	-1.070	0.727	1.41E-01	0.59675
NA	NA	100161388_TGI_at	7.360	5.049	1.45E-01	0.59675
NA	NA	100155522_TGI_at	-0.074	0.051	1.48E-01	0.59675
NA	NA	100305324_TGI_at	-0.215	0.149	1.49E-01	0.59675
NPHP3	nephronophthisis 3 (adolescent)	100311821_TGI_at	-1.993	1.384	1.50E-01	0.59675
RBP2	"retinol binding protein 2, cellular"	100161662_TGI_at	-0.452	0.309	1.43E-01	0.59675
SFTA2	surfactant associated 2	100125489_TGI_at	-0.057	0.039	1.47E-01	0.59675
TRIM4	tripartite motif-containing 4	100301456_TGI_at	-0.991	0.680	1.45E-01	0.59675
XRCC3	X-ray repair complementing defective repair in Chinese	100305763_TGI_at	-0.279	0.194	1.51E-01	0.59675

	hamster cells 3					
SRD5A3	steroid 5 alpha-reductase 3	100130701_TGI_at	0.276	0.193	1.52E-01	0.598514
NPHP3	nephronophthisis 3 (adolescent)	100159303_TGI_at	-0.536	0.377	1.55E-01	0.605303
ROCK2	"Rho-associated, coiled-coil containing protein kinase 2"	100311377_TGI_at	-0.273	0.192	1.55E-01	0.605303
C6orf162	chromosome 6 open reading frame 162	100144708_TGI_at	1.320	0.932	1.57E-01	0.608388
ZNF292	zinc finger protein 292	100139965_TGI_at	-0.280	0.199	1.59E-01	0.614241
B4GALT4	"UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4"	100145663_TGI_at	0.320	0.230	1.65E-01	0.631228
ROCK2	"Rho-associated, coiled-coil containing protein kinase 2"	100306938_TGI_at	-0.949	0.684	1.65E-01	0.631228
FSTL4	follicle-stimulating-like 4	100143365_TGI_at	-0.783	0.567	1.67E-01	0.635531
KCNE2	"potassium voltage-gated channel, Isk-related family, member 2"	100155146_TGI_at	5.383	3.909	1.68E-01	0.635626
NA	NA	100130540_TGI_at	0.423	0.308	1.69E-01	0.635626
PILRB	paired immunoglobulin-like type 2 receptor beta	100300966_TGI_at	-0.064	0.046	1.70E-01	0.638361
HCG8	HLA complex group 8	100138253_TGI_at	-1.644	1.217	1.77E-01	0.640269
MRPS21	mitochondrial ribosomal protein S21	100307575_TGI_at	0.288	0.213	1.76E-01	0.640269
NA	interferon induced transmembrane protein pseudogene	100158197_TGI_at	5.480	4.024	1.73E-01	0.640269
OXCT2	3-oxoacid CoA transferase 2	100148761_TGI_at	2.708	1.996	1.75E-01	0.640269
PADI2	"peptidyl arginine deiminase, type II"	100135390_TGI_at	5.457	4.043	1.77E-01	0.640269
PSORS1C1	psoriasis susceptibility 1 candidate 1	100121628_TGI_at	2.740	2.015	1.74E-01	0.640269
ZNF25	zinc finger protein 25	100304014_TGI_at	-0.982	0.721	1.73E-01	0.640269
ZNF271	zinc finger protein 271	100304878_TGI_at	1.382	1.020	1.75E-01	0.640269
NA	NA	100309227_TGI_at	-0.070	0.052	1.78E-01	0.640393
ASAH1	N-acylsphingosine amidohydrolase (acid ceramidase) 1	100307977_TGI_at	-0.238	0.178	1.82E-01	0.642877
HHIP	hedgehog interacting protein	100311674_TGI_at	0.229	0.171	1.82E-01	0.642877
PPA2	pyrophosphatase (inorganic) 2	100160580_TGI_at	0.957	0.713	1.79E-01	0.642877
SH3PXD2A	SH3 and PX domains 2A	100150425_TGI_at	0.765	0.572	1.81E-01	0.642877
C6orf66	chromosome 6 open reading frame 66	100133695_TGI_at	0.420	0.321	1.90E-01	0.64875
CCDC77	coiled-coil domain containing 77	100134025_TGI_at	-0.581	0.442	1.88E-01	0.64875
CNGA1	cyclic nucleotide gated channel alpha 1	100163169_TGI_at	5.694	4.376	1.93E-01	0.64875
DDR1	discoidin domain receptor tyrosine kinase 1	100161807_TGI_at	-0.109	0.084	1.92E-01	0.64875
FMO2	flavin containing monooxygenase 2 (non-functional)	100162242_TGI_at	-0.219	0.167	1.89E-01	0.64875
LRRC37A4	"leucine rich repeat containing 37, member A4 (pseudogene)"	100308628_TGI_at	-0.233	0.179	1.94E-01	0.64875
NA	NA	100154936_TGI_at	-0.367	0.277	1.85E-01	0.64875
NA	NA	100155944_TGI_at	-10.836	8.324	1.93E-01	0.64875
PCBP2	poly(rC) binding protein 2	100311439_TGI_at	-0.180	0.137	1.90E-01	0.64875
RBM23	RNA binding motif protein 23	100135911_TGI_at	-0.201	0.152	1.87E-01	0.64875

RPS19	ribosomal protein S19	100127522_TGI_at	0.064	0.049	1.91E-01	0.64875
SETX	senataxin	100310831_TGI_at	-1.983	1.519	1.92E-01	0.64875
SPINK5	"serine peptidase inhibitor, Kazal type 5"	100160780_TGI_at	0.137	0.104	1.87E-01	0.64875
PIGV	"phosphatidylinositol glycan anchor biosynthesis, class V"	100137081_TGI_at	-0.457	0.354	1.96E-01	0.653599
HCG4P6	HLA complex group 4 pseudogene 6	100123483_TGI_at	6.324	4.913	1.98E-01	0.6541
TRIM26	tripartite motif-containing 26	100153401_TGI_at	-3.697	2.872	1.98E-01	0.6541
C18orf10	chromosome 18 open reading frame 10	100308899_TGI_at	-3.084	2.409	2.00E-01	0.657669
LYSMD4	"LysM, putative peptidoglycan-binding, domain containing 4"	100138194_TGI_at	-0.908	0.710	2.01E-01	0.657669
MRPS21	mitochondrial ribosomal protein S21	100156777_TGI_at	1.050	0.824	2.03E-01	0.658705
NA	NA	100157269_TGI_at	-5.274	4.152	2.04E-01	0.658705
PILRB	paired immunoglobulin-like type 2 receptor beta	100133464_TGI_at	-0.057	0.045	2.04E-01	0.658705
RP3-377H14.5	hypothetical protein FLJ35429	100311825_TGI_at	1.428	1.123	2.04E-01	0.658705
TXNDC11	thioredoxin domain containing 11	100140312_TGI_at	-0.133	0.105	2.08E-01	0.668969
RPUSD4	RNA pseudouridylate synthase domain containing 4	100143437_TGI_at	0.473	0.378	2.10E-01	0.670285
RREB1	ras responsive element binding protein 1	100307951_TGI_at	-0.420	0.336	2.10E-01	0.670285
C6orf162	chromosome 6 open reading frame 162	100311360_TGI_at	1.189	0.953	2.12E-01	0.673979
PQLC3	PQ loop repeat containing 3	100124316_TGI_at	-0.171	0.138	2.14E-01	0.676525
HCG18	HLA complex group 18	100131217_TGI_at	0.900	0.729	2.17E-01	0.678677
RAD50	RAD50 homolog (<i>S. cerevisiae</i>)	100304804_TGI_at	-1.932	1.564	2.17E-01	0.678677
ROCK2	"Rho-associated, coiled-coil containing protein kinase 2"	100160466_TGI_at	-0.512	0.415	2.16E-01	0.678677
C15orf57	chromosome 15 open reading frame 57	100307916_TGI_at	1.511	1.229	2.19E-01	0.680532
GIT2	G protein-coupled receptor kinase interacting ArfGAP 2	100309959_TGI_at	0.991	0.811	2.22E-01	0.682204
MRPL43	mitochondrial ribosomal protein L43	100148949_TGI_at	-1.827	1.492	2.21E-01	0.682204
NA	ichthyin protein	100141348_TGI_at	2.529	2.070	2.22E-01	0.682204
SPINK6	"serine peptidase inhibitor, Kazal type 6"	100137671_TGI_at	9.565	7.845	2.23E-01	0.682204
ANXA6	annexin A6	100129059_TGI_at	1.069	0.894	2.32E-01	0.683494
CEP192	centrosomal protein 192kDa	100142718_TGI_at	-0.425	0.351	2.27E-01	0.683494
GOSR1	golgi SNAP receptor complex member 1	100136117_TGI_at	0.456	0.386	2.37E-01	0.683494
HCG22	HLA complex group 22	100129279_TGI_at	7.381	6.166	2.31E-01	0.683494
HLA-C	"major histocompatibility complex, class I, C"	100309484_TGI_at	0.037	0.031	2.32E-01	0.683494
HLA-C	"major histocompatibility complex, class I, C"	100302942_TGI_at	0.040	0.034	2.38E-01	0.683494
HOXC6	homeobox C6	100309835_TGI_at	10.154	8.388	2.26E-01	0.683494
KPNA3	karyopherin alpha 3 (importin alpha 4)	100141096_TGI_at	-1.037	0.868	2.32E-01	0.683494
NA	hypothetical protein LOC644246	100134593_TGI_at	0.099	0.083	2.30E-01	0.683494
NA	NA	100309580_TGI_at	-1.869	1.573	2.35E-01	0.683494
NA	hypothetical protein LOC644246	100310659_TGI_at	0.121	0.102	2.36E-01	0.683494

PIGL	"phosphatidylinositol glycan anchor biosynthesis, class L"	100158126_TGI_at	-2.106	1.783	2.37E-01	0.683494
RBM6	RNA binding motif protein 6	100124865_TGI_at	-0.257	0.214	2.29E-01	0.683494
STAT6	"signal transducer and activator of transcription 6, interleukin-4 induced"	100310285_TGI_at	-0.203	0.171	2.34E-01	0.683494
TIGD2	tigger transposable element derived 2	100148014_TGI_at	-0.814	0.691	2.39E-01	0.683494
TPM1	tropomyosin 1 (alpha)	100156621_TGI_at	0.729	0.619	2.39E-01	0.683494
TUBB	"tubulin, beta"	100300978_TGI_at	0.075	0.062	2.30E-01	0.683494
VTA1	Vps20-associated 1 homolog (<i>S. cerevisiae</i>)	100153205_TGI_at	-0.505	0.421	2.31E-01	0.683494
IREB2	iron-responsive element binding protein 2	100129239_TGI_at	1.830	1.558	2.40E-01	0.684621
NA	NA	100136084_TGI_at	0.991	0.844	2.41E-01	0.684621
NA	hypothetical protein LOC729082	100141553_TGI_at	-0.108	0.093	2.42E-01	0.687262
G3BP1	GTPase activating protein (SH3 domain) binding protein 1	100300564_TGI_at	0.408	0.357	2.53E-01	0.693792
LRRC37A4	"leucine rich repeat containing 37, member A4 (pseudogene)"	100135158_TGI_at	-1.015	0.882	2.50E-01	0.693792
NA	hypothetical LOC554223	100141210_TGI_at	-1.220	1.055	2.48E-01	0.693792
NA	NA	100310523_TGI_at	-0.737	0.639	2.48E-01	0.693792
NA	NA	100144981_TGI_at	4.392	3.814	2.50E-01	0.693792
NA	NA	100136210_TGI_at	11.887	10.376	2.52E-01	0.693792
NICN1	nicolin 1	100129450_TGI_at	-0.524	0.453	2.47E-01	0.693792
NMU	neuromedin U	100137237_TGI_at	0.612	0.533	2.51E-01	0.693792
TMEM108	transmembrane protein 108	100157152_TGI_at	-0.700	0.610	2.52E-01	0.693792
VEZT	"vezatin, adherens junctions transmembrane protein"	100305406_TGI_at	-1.171	1.024	2.53E-01	0.693792
NA	hypothetical protein FLJ32810	100304225_TGI_at	-1.045	0.919	2.55E-01	0.696954
ANXA6	annexin A6	100300070_TGI_at	0.070	0.063	2.71E-01	0.697283
AP3B2	"adaptor-related protein complex 3, beta 2 subunit"	100141670_TGI_at	4.332	3.908	2.68E-01	0.697283
C1GALT1	"core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1"	100154998_TGI_at	0.459	0.412	2.65E-01	0.697283
FAM13A1	"family with sequence similarity 13, member A1"	100312038_TGI_at	0.193	0.170	2.57E-01	0.697283
HOXB7	homeobox B7	100154282_TGI_at	0.759	0.686	2.69E-01	0.697283
HOXC6	homeobox C6	100148000_TGI_at	6.852	6.201	2.69E-01	0.697283
KIAA1267	KIAA1267	100160728_TGI_at	4.269	3.878	2.71E-01	0.697283
MFAP2	microfibrillar-associated protein 2	100133163_TGI_at	0.412	0.371	2.66E-01	0.697283
NA	nuclear DNA-binding protein	100162510_TGI_at	-0.202	0.179	2.58E-01	0.697283
NA	sterile alpha motif and leucine zipper containing kinase AZK	100305328_TGI_at	0.651	0.580	2.62E-01	0.697283
NA	NA	100158666_TGI_at	0.755	0.678	2.65E-01	0.697283
NA	NA	100160114_TGI_at	-2.648	2.381	2.66E-01	0.697283

NA	similar to RIKEN cDNA C630028N24 gene	100132425_TGI_at	-2.492	2.246	2.67E-01	0.697283
NA	NA	100129603_TGI_at	-11.758	10.672	2.71E-01	0.697283
PPA2	pyrophosphatase (inorganic) 2	100307499_TGI_at	0.673	0.597	2.60E-01	0.697283
ZADH2	zinc binding alcohol dehydrogenase domain containing 2	100134955_TGI_at	-1.198	1.063	2.60E-01	0.697283
ZMAT3	"zinc finger, matrin type 3"	100142264_TGI_at	0.201	0.179	2.61E-01	0.697283
ZNF389	zinc finger protein 389	100145476_TGI_at	-5.265	4.740	2.67E-01	0.697283
NA	NA	100135728_TGI_at	0.874	0.798	2.74E-01	0.701053
NA	NA	100157433_TGI_at	1.641	1.507	2.76E-01	0.705101
HLA-A	"major histocompatibility complex, class I, A"	100303756_TGI_at	0.055	0.051	2.79E-01	0.709073
PCGF2	polycomb group ring finger 2	100140755_TGI_at	-0.584	0.540	2.80E-01	0.709073
ROCK2	"Rho-associated, coiled-coil containing protein kinase 2"	100159613_TGI_at	-0.302	0.279	2.80E-01	0.709073
PCM1	pericentriolar material 1	100134179_TGI_at	-0.141	0.131	2.82E-01	0.71192
HLA-DPA1	"major histocompatibility complex, class II, DP alpha 1"	100305836_TGI_at	0.108	0.101	2.85E-01	0.715389
USP4	ubiquitin specific peptidase 4 (proto-oncogene)	100162155_TGI_at	-0.106	0.099	2.85E-01	0.715389
ERP29	endoplasmic reticulum protein 29	100161262_TGI_at	-1.604	1.516	2.90E-01	0.723459
FGFBP3	fibroblast growth factor binding protein 3	100128225_TGI_at	-1.148	1.091	2.92E-01	0.723459
JMJD7- PLA2G4B	JMJD7-PLA2G4B readthrough transcript	100150740_TGI_at	-0.426	0.404	2.92E-01	0.723459
MEST	mesoderm specific transcript homolog (mouse)	100127501_TGI_at	0.099	0.094	2.91E-01	0.723459
RHOBTB3	Rho-related BTB domain containing 3	100126558_TGI_at	-0.217	0.207	2.95E-01	0.728611
hCG_2039148	hypothetical protein LOC100132356	100155226_TGI_at	-0.888	0.852	2.97E-01	0.730062
FBXO38	F-box protein 38	100313079_TGI_at	-0.296	0.286	2.99E-01	0.73023
NA	NA	100148878_TGI_at	3.115	2.995	2.98E-01	0.73023
NA	NA	100137632_TGI_at	0.568	0.549	3.01E-01	0.73023
TDRD10	tudor domain containing 10	100158499_TGI_at	-0.195	0.188	3.00E-01	0.73023
FAM62B	family with sequence similarity 62 (C2 domain containing) member B	100301867_TGI_at	-0.148	0.144	3.02E-01	0.731633
FGD6	"FYVE, RhoGEF and PH domain containing 6"	100306202_TGI_at	3.222	3.136	3.04E-01	0.734605
MRPL43	mitochondrial ribosomal protein L43	100152029_TGI_at	0.247	0.244	3.11E-01	0.747192
NA	NA	100162932_TGI_at	-3.064	3.023	3.11E-01	0.747192
CROCC	"ciliary rootlet coiled-coil, rootletin"	100310898_TGI_at	-0.277	0.278	3.19E-01	0.748105
GPATCH2	G patch domain containing 2	100132932_TGI_at	-0.645	0.647	3.19E-01	0.748105
MPP6	"membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6)"	100136557_TGI_at	0.451	0.455	3.22E-01	0.748105
NA	hypothetical protein MGC16291	100123769_TGI_at	-1.367	1.358	3.14E-01	0.748105
NA	hypothetical LOC648987	100309522_TGI_at	-2.257	2.279	3.22E-01	0.748105
NA	FKSG49	100162323_TGI_at	0.111	0.113	3.23E-01	0.748105
NA	NA	100307218_TGI_at	1.430	1.448	3.23E-01	0.748105

NA	NA	100159186_TGI_at	-9.125	9.246	3.24E-01	0.748105
PCM1	pericentriolar material 1	100303798_TGI_at	-0.153	0.153	3.19E-01	0.748105
RPRD2	regulation of nuclear pre-mRNA domain containing 2	100129463_TGI_at	-0.386	0.387	3.18E-01	0.748105
SEC61A2	Sec61 alpha 2 subunit (<i>S. cerevisiae</i>)	100129724_TGI_at	-1.013	1.009	3.15E-01	0.748105
TPM1	tropomyosin 1 (alpha)	100145725_TGI_at	0.049	0.050	3.24E-01	0.748105
VTA1	Vps20-associated 1 homolog (<i>S. cerevisiae</i>)	100311276_TGI_at	-0.373	0.370	3.13E-01	0.748105
CLOCK	clock homolog (mouse)	100307345_TGI_at	-0.850	0.882	3.35E-01	0.756474
ESR1	estrogen receptor 1	100303655_TGI_at	0.244	0.251	3.30E-01	0.756474
HBS1L	HBS1-like (<i>S. cerevisiae</i>)	100133258_TGI_at	-0.782	0.807	3.32E-01	0.756474
HLA-DQB1	"major histocompatibility complex, class II, DQ beta 1"	100302941_TGI_at	0.020	0.021	3.34E-01	0.756474
MAPT	microtubule-associated protein tau	100306395_TGI_at	6.778	7.025	3.35E-01	0.756474
NA	NA	100151558_TGI_at	0.492	0.505	3.30E-01	0.756474
NA	NA	100307969_TGI_at	-1.515	1.579	3.37E-01	0.756474
NCAPG2	"non-SMC condensin II complex, subunit G2"	100136204_TGI_at	0.319	0.328	3.31E-01	0.756474
PPP1R3B	"protein phosphatase 1, regulatory (inhibitor) subunit 3B"	100136365_TGI_at	0.567	0.589	3.36E-01	0.756474
SNRPC	small nuclear ribonucleoprotein polypeptide C	100159916_TGI_at	-0.194	0.202	3.38E-01	0.756474
TOM1L2	target of myb1-like 2 (chicken)	100301274_TGI_at	6.486	6.754	3.37E-01	0.756474
HIGD2A	"HIG1 domain family, member 2A"	100153252_TGI_at	0.238	0.252	3.44E-01	0.767301
CDC42SE1	CDC42 small effector 1	100140105_TGI_at	-0.371	0.393	3.45E-01	0.768395
JARID1A	"jumonji, AT rich interactive domain 1A"	100313404_TGI_at	-0.581	0.617	3.46E-01	0.768395
NA	NA	100305045_TGI_at	-0.814	0.867	3.47E-01	0.769277
NAPRT1	nicotinate phosphoribosyltransferase domain containing 1	100154661_TGI_at	0.456	0.489	3.51E-01	0.774092
ACP6	"acid phosphatase 6, lysophosphatidic"	100128577_TGI_at	-0.437	0.500	3.82E-01	0.775721
ADAM17	ADAM metallopeptidase domain 17	100307726_TGI_at	-3.062	3.393	3.67E-01	0.775721
ADORA2B	adenosine A2b receptor	100146347_TGI_at	0.427	0.508	4.00E-01	0.775721
AMOTL1	angiomin like 1	100136633_TGI_at	0.248	0.306	4.19E-01	0.775721
ANKRD13B	ankyrin repeat domain 13B	100159312_TGI_at	0.279	0.307	3.64E-01	0.775721
ARID1A	AT rich interactive domain 1A (SWI-like)	100136478_TGI_at	-0.278	0.342	4.16E-01	0.775721
ASAH1	N-acylsphingosine amidohydrolase (acid ceramidase) 1	100308495_TGI_at	-3.420	3.833	3.72E-01	0.775721
BAT2	HLA-B associated transcript 2	100139818_TGI_at	0.417	0.476	3.81E-01	0.775721
BAT4	HLA-B associated transcript 4	100138357_TGI_at	-0.420	0.497	3.99E-01	0.775721
BSCL2	Bernardinelli-Seip congenital lipodystrophy 2 (seipin)	100155082_TGI_at	-0.096	0.115	4.07E-01	0.775721
C16orf63	chromosome 16 open reading frame 63	100148972_TGI_at	-0.199	0.230	3.87E-01	0.775721
C1orf89	chromosome 1 open reading frame 89	100143670_TGI_at	1.840	2.201	4.03E-01	0.775721
C2	complement component 2	100161625_TGI_at	-0.047	0.053	3.82E-01	0.775721
C6orf191	chromosome 6 open reading frame 191	100150758_TGI_at	10.785	12.565	3.91E-01	0.775721
CACNA2D4	"calcium channel, voltage-dependent, alpha 2/delta subunit 4"	100301072_TGI_at	-1.168	1.437	4.16E-01	0.775721

CCBL2	cysteine conjugate-beta lyase 2	100303452_TGI_at	0.190	0.229	4.06E-01	0.775721
CCDC91	coiled-coil domain containing 91	100124630_TGI_at	-0.325	0.386	3.99E-01	0.775721
CDSN	corneodesmosin	100303039_TGI_at	-1.594	1.964	4.17E-01	0.775721
CLEC2D	"C-type lectin domain family 2, member D"	100303868_TGI_at	1.767	1.967	3.69E-01	0.775721
CLOCK	clock homolog (mouse)	100147633_TGI_at	-0.724	0.887	4.15E-01	0.775721
CPD	carboxypeptidase D	100305644_TGI_at	0.360	0.395	3.61E-01	0.775721
CROCCL1	"ciliary rootlet coiled-coil, rootletin-like 1"	100124110_TGI_at	-0.093	0.110	3.95E-01	0.775721
FMO2	flavin containing monooxygenase 2 (non-functional)	100310951_TGI_at	-0.029	0.035	4.17E-01	0.775721
FSTL4	folliculin-like 4	100145132_TGI_at	-5.914	6.652	3.74E-01	0.775721
FZD7	frizzled homolog 7 (Drosophila)	100122090_TGI_at	0.588	0.637	3.56E-01	0.775721
GRB2	growth factor receptor-bound protein 2	100140717_TGI_at	0.207	0.230	3.66E-01	0.775721
HCG27	HLA complex group 27	100128894_TGI_at	-1.082	1.199	3.67E-01	0.775721
HLA-DQB1	"major histocompatibility complex, class II, DQ beta 1"	100300398_TGI_at	0.019	0.021	3.77E-01	0.775721
HLA-DQB1	"major histocompatibility complex, class II, DQ beta 1"	100304009_TGI_at	0.017	0.021	4.02E-01	0.775721
IFNGR2	interferon gamma receptor 2 (interferon gamma transducer 1)	100308980_TGI_at	-4.553	5.266	3.87E-01	0.775721
IFNGR2	interferon gamma receptor 2 (interferon gamma transducer 1)	100310797_TGI_at	-2.120	2.469	3.91E-01	0.775721
KIAA0802	KIAA0802	100300284_TGI_at	-0.530	0.594	3.73E-01	0.775721
KLC1	kinesin light chain 1	100142037_TGI_at	0.628	0.755	4.06E-01	0.775721
KTELC1	KTELC (Lys-Tyr-Glu-Leu) containing 1	100157247_TGI_at	0.411	0.461	3.72E-01	0.775721
LDHC	lactate dehydrogenase C	100142627_TGI_at	3.593	3.959	3.64E-01	0.775721
MAPKBP1	mitogen-activated protein kinase binding protein 1	100306182_TGI_at	-3.578	4.253	4.00E-01	0.775721
MEIG1	meiosis expressed gene 1 homolog (mouse)	100149806_TGI_at	-2.964	3.393	3.82E-01	0.775721
MTMR3	myotubularin related protein 3	100308994_TGI_at	-0.373	0.414	3.67E-01	0.775721
NA	NA	100144443_TGI_at	2.280	2.529	3.67E-01	0.775721
NA	NA	100145578_TGI_at	-0.772	0.871	3.75E-01	0.775721
NA	NA	100151676_TGI_at	-3.016	3.431	3.79E-01	0.775721
NA	peptidylprolyl isomerase E pseudogene	100133670_TGI_at	-0.439	0.505	3.86E-01	0.775721
NA	NA	100133629_TGI_at	0.288	0.336	3.91E-01	0.775721
NA	NA	100129276_TGI_at	-1.665	1.992	4.03E-01	0.775721
NA	FLJ33360 protein	100303540_TGI_at	-2.484	3.028	4.12E-01	0.775721
NA	NA	100307171_TGI_at	-0.231	0.282	4.13E-01	0.775721
NA	sterile alpha motif and leucine zipper containing kinase AZK	100122720_TGI_at	0.952	1.165	4.14E-01	0.775721
NA	hypothetical LOC648987	100123880_TGI_at	-1.421	1.744	4.15E-01	0.775721
NA	FLJ33360 protein	100138705_TGI_at	-2.489	3.066	4.17E-01	0.775721
NA	NA	100130704_TGI_at	-0.395	0.488	4.19E-01	0.775721

NA	hypothetical LOC648987	100129380_TGI_at	-1.353	1.678	4.20E-01	0.775721
PCBP2	poly(rC) binding protein 2	100302664_TGI_at	0.075	0.090	4.08E-01	0.775721
PCGF2	polycomb group ring finger 2	100150055_TGI_at	-0.527	0.617	3.93E-01	0.775721
PIGU	"phosphatidylinositol glycan anchor biosynthesis, class U"	100138660_TGI_at	0.580	0.697	4.05E-01	0.775721
PIP4K2B	"phosphatidylinositol-5-phosphate 4-kinase, type II, beta"	100301317_TGI_at	-1.551	1.708	3.64E-01	0.775721
PLA2G5	"phospholipase A2, group V"	100311695_TGI_at	-0.639	0.695	3.58E-01	0.775721
RBM23	RNA binding motif protein 23	100310197_TGI_at	-0.145	0.175	4.09E-01	0.775721
RP3-377H14.5	hypothetical protein FLJ35429	100141578_TGI_at	4.406	5.330	4.08E-01	0.775721
RPS19	ribosomal protein S19	100314018_TGI_at	0.021	0.024	3.85E-01	0.775721
SGCD	"sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)"	100156891_TGI_at	-0.526	0.617	3.94E-01	0.775721
SGCD	"sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)"	100142964_TGI_at	1.331	1.587	4.02E-01	0.775721
SMPDL3B	"sphingomyelin phosphodiesterase, acid-like 3B"	100145066_TGI_at	0.478	0.538	3.74E-01	0.775721
STRA13	stimulated by retinoic acid 13 homolog (mouse)	100151685_TGI_at	-0.193	0.216	3.72E-01	0.775721
TRIM26	tripartite motif-containing 26	100126192_TGI_at	-0.358	0.444	4.20E-01	0.775721
UBXN6	UBX domain protein 6	100310092_TGI_at	0.133	0.164	4.18E-01	0.775721
VDAC2	voltage-dependent anion channel 2	100153741_TGI_at	0.128	0.155	4.08E-01	0.775721
VEZT	"vezatin, adherens junctions transmembrane protein"	100302085_TGI_at	-0.229	0.274	4.03E-01	0.775721
ZNF165	zinc finger protein 165	100312805_TGI_at	0.885	1.014	3.83E-01	0.775721
ZNF187	zinc finger protein 187	100139670_TGI_at	-0.481	0.596	4.20E-01	0.775721
ZNF271	zinc finger protein 271	100304943_TGI_at	0.323	0.375	3.89E-01	0.775721
ZNF600	zinc finger protein 600	100157946_TGI_at	-0.321	0.352	3.62E-01	0.775721
PGM2L1	phosphoglucomutase 2-like 1	100156557_TGI_at	0.383	0.478	4.23E-01	0.778878
TAP2	"transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)"	100129037_TGI_at	1.454	1.822	4.25E-01	0.780527
C17orf57	chromosome 17 open reading frame 57	100306281_TGI_at	0.743	0.934	4.27E-01	0.782006
SLC27A5	"solute carrier family 27 (fatty acid transporter), member 5"	100150898_TGI_at	0.903	1.139	4.28E-01	0.783017
NA	NA	100313840_TGI_at	-0.998	1.264	4.30E-01	0.784047
NA	NA	100159981_TGI_at	1.606	2.044	4.32E-01	0.786447
NA	NA	100162706_TGI_at	-0.576	0.736	4.34E-01	0.786855
RNF5	ring finger protein 5	100158927_TGI_at	-0.128	0.164	4.33E-01	0.786855
ARNT	aryl hydrocarbon receptor nuclear translocator	100309723_TGI_at	-0.188	0.246	4.46E-01	0.788803
C12orf48	chromosome 12 open reading frame 48	100162004_TGI_at	1.789	2.313	4.39E-01	0.788803
CDK5RAP3	CDK5 regulatory subunit associated protein 3	100139309_TGI_at	-0.087	0.115	4.47E-01	0.788803
DCXR	dicarbonyl/L-xylulose reductase	100124485_TGI_at	0.117	0.152	4.44E-01	0.788803
FLOT1	flotillin 1	100304636_TGI_at	0.803	1.042	4.41E-01	0.788803

NA	hypothetical protein LOC643977	100157324_TGI_at	-0.713	0.920	4.38E-01	0.788803
NA	NA	100139549_TGI_at	-0.794	1.034	4.42E-01	0.788803
NA	NA	100136066_TGI_at	2.702	3.537	4.45E-01	0.788803
PELI2	pellino homolog 2 (Drosophila)	100146392_TGI_at	-4.552	5.962	4.45E-01	0.788803
PIGV	"phosphatidylinositol glycan anchor biosynthesis, class V"	100306509_TGI_at	-0.774	1.018	4.47E-01	0.788803
TRIM66	tripartite motif-containing 66	100145297_TGI_at	-0.766	0.999	4.43E-01	0.788803
YEATS4	YEATS domain containing 4	100125980_TGI_at	-0.595	0.767	4.37E-01	0.788803
TMEM77	transmembrane protein 77	100306966_TGI_at	0.165	0.218	4.48E-01	0.788887
ADORA2B	adenosine A2b receptor	100300365_TGI_at	0.443	0.589	4.53E-01	0.790158
CACNA2D4	"calcium channel, voltage-dependent, alpha 2/delta subunit 4"	100307865_TGI_at	-2.434	3.278	4.58E-01	0.790158
FAM168A	"family with sequence similarity 168, member A"	100305819_TGI_at	-0.375	0.501	4.53E-01	0.790158
HLA-DOB	"major histocompatibility complex, class II, DO beta"	100133511_TGI_at	0.229	0.306	4.55E-01	0.790158
NA	NA	100126167_TGI_at	-1.825	2.425	4.52E-01	0.790158
NA	NA	100127527_TGI_at	-1.640	2.187	4.53E-01	0.790158
NA	NA	100135910_TGI_at	-2.796	3.755	4.56E-01	0.790158
NA	NA	100145206_TGI_at	-2.304	3.099	4.57E-01	0.790158
NA	FLJ45422 protein	100137319_TGI_at	1.573	2.118	4.58E-01	0.790158
MRPL10	mitochondrial ribosomal protein L10	100309376_TGI_at	-0.155	0.209	4.60E-01	0.791675
ANGPT1	angiopoietin 1	100129666_TGI_at	-0.064	0.088	4.62E-01	0.79448
"MARCH5"	membrane-associated ring finger (C3HC4) 5	100148133_TGI_at	-0.183	0.253	4.68E-01	0.795483
BTN3A2	"butyrophilin, subfamily 3, member A2"	100161253_TGI_at	-0.086	0.119	4.68E-01	0.795483
HLA-G	"major histocompatibility complex, class I, G"	100160221_TGI_at	1.523	2.107	4.70E-01	0.795483
ITPKA	"inositol 1,4,5-trisphosphate 3-kinase A"	100124857_TGI_at	3.026	4.160	4.67E-01	0.795483
MLF1	myeloid leukemia factor 1	100301782_TGI_at	0.095	0.130	4.65E-01	0.795483
NA	NA	100130314_TGI_at	0.965	1.319	4.64E-01	0.795483
WDR32	WD repeat domain 32	100146140_TGI_at	-0.592	0.819	4.70E-01	0.795483
GRK4	G protein-coupled receptor kinase 4	100303520_TGI_at	1.710	2.398	4.76E-01	0.796473
HSD17B7P2	hydroxysteroid (17-beta) dehydrogenase 7 pseudogene 2	100300887_TGI_at	-6.632	9.263	4.74E-01	0.796473
LSM11	"LSM11, U7 small nuclear RNA associated"	100149905_TGI_at	2.519	3.521	4.74E-01	0.796473
MMP15	matrix metalloproteinase 15 (membrane-inserted)	100142706_TGI_at	-0.118	0.165	4.75E-01	0.796473
SEMA3A	"sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A"	100158468_TGI_at	2.161	3.041	4.77E-01	0.796473
THSD4	"thrombospondin, type I, domain containing 4"	100310339_TGI_at	-0.232	0.326	4.77E-01	0.796473
WNT3	"wingless-type MMTV integration site family, member 3"	100138516_TGI_at	-0.360	0.505	4.77E-01	0.796473
CLOCK	clock homolog (mouse)	100129781_TGI_at	1.043	1.477	4.80E-01	0.799185
CYP21A2	"cytochrome P450, family 21, subfamily A, polypeptide	100303617_TGI_at	2.388	3.390	4.81E-01	0.799185

	2"					
GOLPH3L	golgi phosphoprotein 3-like	100143466_TGI_at	1.034	1.470	4.82E-01	0.799185
ARL17P1	ADP-ribosylation factor-like 17 pseudogene 1	100312557_TGI_at	11.258	16.178	4.87E-01	0.80105
C5orf35	chromosome 5 open reading frame 35	100131401_TGI_at	0.661	0.954	4.88E-01	0.80105
KCNMB3	"potassium large conductance calcium-activated channel, subfamily M beta member 3"	100313107_TGI_at	-0.637	0.915	4.86E-01	0.80105
NA	NA	100150316_TGI_at	-2.091	2.994	4.85E-01	0.80105
PCBP2	poly(rC) binding protein 2	100137523_TGI_at	0.047	0.068	4.88E-01	0.80105
RHOBTB3	Rho-related BTB domain containing 3	100154919_TGI_at	-0.148	0.213	4.89E-01	0.80105
AGPAT1	"1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha)"	100135327_TGI_at	-1.237	1.808	4.94E-01	0.80512
NA	hypothetical protein BC014011	100146413_TGI_at	1.664	2.432	4.94E-01	0.80512
NA	NA	100313880_TGI_at	0.329	0.482	4.95E-01	0.80512
WDR60	WD repeat domain 60	100129573_TGI_at	-0.151	0.223	4.99E-01	0.810638
FAM71F2	"family with sequence similarity 71, member F2"	100153459_TGI_at	-4.439	6.665	5.05E-01	0.811215
GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)	100150083_TGI_at	0.507	0.757	5.03E-01	0.811215
NA	hypothetical protein LOC285540	100307638_TGI_at	-0.811	1.208	5.02E-01	0.811215
PCBP2	poly(rC) binding protein 2	100131043_TGI_at	0.068	0.102	5.02E-01	0.811215
TYRO3	TYRO3 protein tyrosine kinase	100129019_TGI_at	0.531	0.794	5.04E-01	0.811215
ZNF391	zinc finger protein 391	100150625_TGI_at	-3.255	4.883	5.05E-01	0.811215
THEX1	three prime histone mRNA exonuclease 1	100152809_TGI_at	0.649	0.979	5.08E-01	0.813115
MAP3K12	mitogen-activated protein kinase kinase kinase 12	100302531_TGI_at	-0.105	0.159	5.10E-01	0.815548
MLH3	mutL homolog 3 (E. coli)	100302585_TGI_at	-0.511	0.781	5.13E-01	0.818107
MLH3	mutL homolog 3 (E. coli)	100146446_TGI_at	0.411	0.633	5.17E-01	0.820823
NA	NA	100136812_TGI_at	0.530	0.817	5.16E-01	0.820823
COL21A1	"collagen, type XXI, alpha 1"	100149189_TGI_at	-0.120	0.189	5.25E-01	0.821948
LYZ	lysozyme (renal amyloidosis)	100303765_TGI_at	0.031	0.048	5.23E-01	0.821948
NA	Kazal type serine protease inhibitor 5-like 2	100147290_TGI_at	-7.133	11.090	5.20E-01	0.821948
NA	NA	100123597_TGI_at	-4.800	7.468	5.20E-01	0.821948
NA	hypothetical LOC100131053	100162335_TGI_at	-1.535	2.418	5.25E-01	0.821948
PSMA4	"proteasome (prosome, macropain) subunit, alpha type, 4"	100148404_TGI_at	0.061	0.095	5.22E-01	0.821948
TRIM38	tripartite motif-containing 38	100127556_TGI_at	0.123	0.193	5.24E-01	0.821948
TTC35	tetratricopeptide repeat domain 35	100139300_TGI_at	-0.131	0.204	5.21E-01	0.821948
ATP5O	"ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit"	100136800_TGI_at	0.051	0.082	5.30E-01	0.823392
HLA-G	"major histocompatibility complex, class I, G"	100136412_TGI_at	-0.292	0.465	5.30E-01	0.823392
NA	NA	100153916_TGI_at	0.600	0.952	5.29E-01	0.823392

NA	NA	100132397_TGI_at	-0.284	0.452	5.30E-01	0.823392
HLA-F	"major histocompatibility complex, class I, F"	100311606_TGI_at	0.628	1.004	5.32E-01	0.823939
C10orf55	chromosome 10 open reading frame 55	100160231_TGI_at	-3.240	5.339	5.44E-01	0.823944
C14orf94	chromosome 14 open reading frame 94	100146509_TGI_at	0.101	0.165	5.39E-01	0.823944
CCBL2	cysteine conjugate-beta lyase 2	100135988_TGI_at	0.187	0.300	5.33E-01	0.823944
CNGA1	cyclic nucleotide gated channel alpha 1	100124251_TGI_at	2.266	3.690	5.39E-01	0.823944
GEN1	"Gen homolog 1, endonuclease (Drosophila)"	100136657_TGI_at	0.996	1.643	5.44E-01	0.823944
ITIH4	inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein)	100132374_TGI_at	-0.344	0.553	5.34E-01	0.823944
MON1B	MON1 homolog B (yeast)	100122211_TGI_at	0.341	0.560	5.43E-01	0.823944
NA	NA	100124649_TGI_at	7.741	12.670	5.41E-01	0.823944
NA	NA	100312826_TGI_at	-0.410	0.675	5.44E-01	0.823944
NIPSNAP1	nipsnap homolog 1 (C. elegans)	100131090_TGI_at	0.277	0.454	5.41E-01	0.823944
NPHP3	nephronophthisis 3 (adolescent)	100313479_TGI_at	-0.269	0.437	5.38E-01	0.823944
RHOBTB3	Rho-related BTB domain containing 3	100306800_TGI_at	-0.322	0.530	5.43E-01	0.823944
ABT1	activator of basal transcription 1	100302369_TGI_at	0.808	1.351	5.50E-01	0.827871
IKZF2	IKAROS family zinc finger 2 (Helios)	100306345_TGI_at	-0.132	0.220	5.50E-01	0.827871
NA	NA	100303991_TGI_at	-6.615	11.075	5.50E-01	0.827871
SRD5A3	steroid 5 alpha-reductase 3	100301711_TGI_at	-1.453	2.437	5.51E-01	0.827871
C1orf77	chromosome 1 open reading frame 77	100308400_TGI_at	8.809	14.819	5.52E-01	0.828127
NA	similar to FLJ43276 protein	100155121_TGI_at	-0.319	0.539	5.54E-01	0.828723
CLTB	"clathrin, light chain (Lcb)"	100134693_TGI_at	0.056	0.097	5.61E-01	0.829168
CYFIP2	cytoplasmic FMR1 interacting protein 2	100125704_TGI_at	-0.211	0.362	5.59E-01	0.829168
DARS	aspartyl-tRNA synthetase	100138467_TGI_at	0.085	0.148	5.64E-01	0.829168
ENSA	endosulfine alpha	100161206_TGI_at	-0.052	0.088	5.59E-01	0.829168
HCG18	HLA complex group 18	100139688_TGI_at	-0.180	0.312	5.63E-01	0.829168
MAPRE2	"microtubule-associated protein, RP/EB family, member 2"	100161482_TGI_at	-0.189	0.323	5.58E-01	0.829168
MGA	MAX gene associated	100306577_TGI_at	-0.722	1.229	5.57E-01	0.829168
NA	NA	100136326_TGI_at	-0.690	1.187	5.61E-01	0.829168
NA	NA	100308684_TGI_at	-9.513	16.457	5.63E-01	0.829168
VDAC2	voltage-dependent anion channel 2	100305257_TGI_at	0.115	0.198	5.64E-01	0.829168
CLN5	"ceroid-lipofuscinosis, neuronal 5"	100146692_TGI_at	-0.167	0.292	5.67E-01	0.829988
MEST	mesoderm specific transcript homolog (mouse)	100308753_TGI_at	0.507	0.883	5.66E-01	0.829988
SLC4A8	"solute carrier family 4, sodium bicarbonate cotransporter, member 8"	100130519_TGI_at	1.891	3.314	5.68E-01	0.830346
NA	NA	100150806_TGI_at	0.648	1.148	5.73E-01	0.833085
RHOBTB3	Rho-related BTB domain containing 3	100143194_TGI_at	0.116	0.206	5.72E-01	0.833085

TMEM110	transmembrane protein 110	100133810_TGI_at	0.173	0.306	5.73E-01	0.833085
LRRC37A	leucine rich repeat containing 37A	100304816_TGI_at	17.054	30.362	5.74E-01	0.833188
ITGA2	"integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)"	100135535_TGI_at	-0.113	0.203	5.79E-01	0.838167
C18orf10	chromosome 18 open reading frame 10	100305245_TGI_at	-0.124	0.229	5.87E-01	0.838811
CYP2C9	"cytochrome P450, family 2, subfamily C, polypeptide 9"	100123290_TGI_at	-6.468	11.758	5.82E-01	0.838811
GEN1	"Gen homolog 1, endonuclease (Drosophila)"	100158297_TGI_at	-0.258	0.474	5.86E-01	0.838811
HLA-C	"major histocompatibility complex, class I, C"	100313121_TGI_at	-0.018	0.033	5.88E-01	0.838811
HOXA1	homeobox A1	100300632_TGI_at	-1.743	3.214	5.88E-01	0.838811
NA	NA	100123120_TGI_at	-1.085	2.000	5.87E-01	0.838811
PGBD1	piggyBac transposable element derived 1	100135231_TGI_at	-0.357	0.656	5.86E-01	0.838811
TMEM50B	transmembrane protein 50B	100127382_TGI_at	-0.075	0.136	5.82E-01	0.838811
MUC21	"mucin 21, cell surface associated"	100309111_TGI_at	0.180	0.334	5.90E-01	0.839466
VAR2	"valyl-tRNA synthetase 2, mitochondrial (putative)"	100151371_TGI_at	0.209	0.388	5.90E-01	0.839466
NA	NA	100308581_TGI_at	-0.120	0.228	5.97E-01	0.845812
PDPN	podoplanin	100311884_TGI_at	0.318	0.602	5.97E-01	0.845812
ATP6V1G2	"ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G2"	100142732_TGI_at	0.268	0.522	6.07E-01	0.847528
BCAR1	breast cancer anti-estrogen resistance 1	100307330_TGI_at	1.427	2.857	6.18E-01	0.847528
CYP2C9	"cytochrome P450, family 2, subfamily C, polypeptide 9"	100303586_TGI_at	-1.656	3.229	6.08E-01	0.847528
GOLPH3L	golgi phosphoprotein 3-like	100159164_TGI_at	0.683	1.334	6.09E-01	0.847528
GOLPH3L	golgi phosphoprotein 3-like	100308717_TGI_at	1.014	1.988	6.10E-01	0.847528
MTMR3	myotubularin related protein 3	100160585_TGI_at	-0.268	0.533	6.16E-01	0.847528
NA	hypothetical STGC3	100156808_TGI_at	1.254	2.405	6.02E-01	0.847528
NA	NA	100146746_TGI_at	0.090	0.176	6.08E-01	0.847528
NA	NA	100130228_TGI_at	-0.185	0.365	6.12E-01	0.847528
NA	NA	100150862_TGI_at	-12.532	25.022	6.16E-01	0.847528
NBPF1	"neuroblastoma breakpoint family, member 1"	100158208_TGI_at	0.765	1.477	6.05E-01	0.847528
NCKIPSD	NCK interacting protein with SH3 domain	100130226_TGI_at	0.170	0.332	6.08E-01	0.847528
NIPSNAP1	nipsnap homolog 1 (C. elegans)	100302806_TGI_at	0.175	0.342	6.08E-01	0.847528
RBM23	RNA binding motif protein 23	100306484_TGI_at	-0.164	0.323	6.12E-01	0.847528
SGCD	"sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)"	100154320_TGI_at	-0.351	0.690	6.11E-01	0.847528
SLMO2	slowmo homolog 2 (Drosophila)	100130622_TGI_at	-0.182	0.364	6.18E-01	0.847528
SUPT3H	suppressor of Ty 3 homolog (S. cerevisiae)	100300937_TGI_at	-0.899	1.794	6.17E-01	0.847528
WDR52	WD repeat domain 52	100157274_TGI_at	0.327	0.655	6.18E-01	0.847528
ZFAND2A	"zinc finger, AN1-type domain 2A"	100151722_TGI_at	0.073	0.145	6.16E-01	0.847528
SYTL2	synaptotagmin-like 2	100123986_TGI_at	-0.181	0.365	6.21E-01	0.849928

SMPDL3B	"sphingomyelin phosphodiesterase, acid-like 3B"	100303445_TGI_at	0.342	0.695	6.23E-01	0.851122
GFM1	"G elongation factor, mitochondrial 1"	100301664_TGI_at	-0.131	0.268	6.25E-01	0.852529
NA	similar to hCG2042473	100152956_TGI_at	-2.264	4.653	6.27E-01	0.853208
C14orf153	chromosome 14 open reading frame 153	100306300_TGI_at	0.324	0.694	6.40E-01	0.855812
C7orf46	chromosome 7 open reading frame 46	100305640_TGI_at	-0.619	1.310	6.37E-01	0.855812
FN3K	fructosamine 3 kinase	100139631_TGI_at	2.918	6.156	6.36E-01	0.855812
HLA-DQA2	"major histocompatibility complex, class II, DQ alpha 2"	100313766_TGI_at	0.010	0.021	6.42E-01	0.855812
HLA-F	"major histocompatibility complex, class I, F"	100303129_TGI_at	0.046	0.099	6.41E-01	0.855812
MICB	MHC class I polypeptide-related sequence B	100161520_TGI_at	0.109	0.232	6.40E-01	0.855812
NA	NA	100151492_TGI_at	-0.079	0.166	6.32E-01	0.855812
NA	NA	100305399_TGI_at	0.073	0.153	6.35E-01	0.855812
NDUFA12	"NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12"	100148776_TGI_at	0.051	0.108	6.40E-01	0.855812
PDGFD	platelet derived growth factor D	100132001_TGI_at	0.290	0.610	6.34E-01	0.855812
PLEKHM1	"pleckstrin homology domain containing, family M (with RUN domain) member 1"	100159134_TGI_at	0.165	0.353	6.41E-01	0.855812
RPL27A	ribosomal protein L27a	100162298_TGI_at	0.644	1.377	6.40E-01	0.855812
THSD4	"thrombospondin, type I, domain containing 4"	100142979_TGI_at	-0.171	0.356	6.31E-01	0.855812
CDC123	cell division cycle 123 homolog (S. cerevisiae)	100149333_TGI_at	-0.088	0.192	6.48E-01	0.857199
HIST1H2BL	"histone cluster 1, H2bl"	100302815_TGI_at	21.870	47.827	6.47E-01	0.857199
NA	NA	100147343_TGI_at	-0.231	0.502	6.46E-01	0.857199
TRIM4	tripartite motif-containing 4	100126573_TGI_at	-0.184	0.408	6.51E-01	0.858629
USP4	ubiquitin specific peptidase 4 (proto-oncogene)	100155972_TGI_at	-0.043	0.096	6.51E-01	0.858629
NA	NA	100306708_TGI_at	0.597	1.336	6.55E-01	0.862436
MLH3	mutL homolog 3 (E. coli)	100129848_TGI_at	0.414	0.934	6.58E-01	0.863044
THEX1	three prime histone mRNA exonuclease 1	100122765_TGI_at	0.243	0.547	6.58E-01	0.863044
GRB2	growth factor receptor-bound protein 2	100304907_TGI_at	0.269	0.612	6.60E-01	0.863213
NA	hypothetical LOC65996	100127780_TGI_at	0.118	0.267	6.59E-01	0.863213
FMO2	flavin containing monooxygenase 2 (non-functional)	100132596_TGI_at	-0.016	0.036	6.63E-01	0.865461
ARL6IP1	ADP-ribosylation factor-like 6 interacting protein 1	100149583_TGI_at	2.475	5.964	6.78E-01	0.865954
C6orf12	chromosome 6 open reading frame 12	100125007_TGI_at	-0.647	1.541	6.75E-01	0.865954
CHRNA5	"cholinergic receptor, nicotinic, alpha 5"	100156434_TGI_at	-1.570	3.758	6.76E-01	0.865954
HLA-G	"major histocompatibility complex, class I, G"	100138030_TGI_at	1.212	2.910	6.77E-01	0.865954
INTS5	integrator complex subunit 5	100135147_TGI_at	0.231	0.554	6.77E-01	0.865954
NA	hypothetical protein LOC100133205	100129291_TGI_at	1.171	2.706	6.65E-01	0.865954
NA	NA	100124184_TGI_at	0.589	1.379	6.69E-01	0.865954
NA	mesenchymal stem cell protein DSCD28	100147593_TGI_at	1.201	2.839	6.72E-01	0.865954
NA	NA	100143280_TGI_at	0.130	0.310	6.76E-01	0.865954

NA	hypothetical protein LOC283587	100132831_TGI_at	-0.680	1.638	6.78E-01	0.865954
RNF144B	ring finger 144B	100152113_TGI_at	0.389	0.921	6.73E-01	0.865954
SGCD	"sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)"	100144469_TGI_at	0.495	1.182	6.75E-01	0.865954
SON	SON DNA binding protein	100130835_TGI_at	0.251	0.593	6.72E-01	0.865954
WDR52	WD repeat domain 52	100126013_TGI_at	0.159	0.374	6.70E-01	0.865954
C19orf6	chromosome 19 open reading frame 6	100158347_TGI_at	1.314	3.191	6.80E-01	0.866132
MAP3K12	mitogen-activated protein kinase kinase kinase 12	100306859_TGI_at	-0.174	0.422	6.80E-01	0.866132
DMPK	dystrophia myotonica-protein kinase	100148527_TGI_at	-0.084	0.208	6.87E-01	0.868957
EHHADH	"enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase"	100135841_TGI_at	-1.034	2.558	6.86E-01	0.868957
KCNMB3	"potassium large conductance calcium-activated channel, subfamily M beta member 3"	100133838_TGI_at	-0.483	1.190	6.85E-01	0.868957
MAPT	microtubule-associated protein tau	100136496_TGI_at	0.298	0.740	6.87E-01	0.868957
HCG27	HLA complex group 27	100300925_TGI_at	-0.471	1.186	6.91E-01	0.870406
MAP1LC3A	microtubule-associated protein 1 light chain 3 alpha	100143040_TGI_at	-0.124	0.311	6.91E-01	0.870406
TRIM10	tripartite motif-containing 10	100133405_TGI_at	-1.222	3.061	6.90E-01	0.870406
C16orf5	chromosome 16 open reading frame 5	100159519_TGI_at	0.144	0.371	6.98E-01	0.874863
MBNL1	muscleblind-like (Drosophila)	100305792_TGI_at	0.103	0.266	6.98E-01	0.874863
VDAC2	voltage-dependent anion channel 2	100309207_TGI_at	0.069	0.177	6.96E-01	0.874863
CLUAP1	clusterin associated protein 1	100313559_TGI_at	0.099	0.267	7.11E-01	0.876887
GALC	galactosylceramidase	100307819_TGI_at	-0.099	0.260	7.04E-01	0.876887
HOXB2	homeobox B2	100147773_TGI_at	0.291	0.762	7.03E-01	0.876887
ITPR3	"inositol 1,4,5-triphosphate receptor, type 3"	100131760_TGI_at	-3.217	8.658	7.10E-01	0.876887
KIAA1267	KIAA1267	100148039_TGI_at	-0.037	0.098	7.08E-01	0.876887
NA	NA	100127813_TGI_at	2.795	7.379	7.05E-01	0.876887
NA	NA	100311952_TGI_at	-0.068	0.185	7.11E-01	0.876887
PLA2G5	"phospholipase A2, group V"	100130289_TGI_at	-0.324	0.872	7.10E-01	0.876887
RAB6A	"RAB6A, member RAS oncogene family"	100309263_TGI_at	0.143	0.382	7.07E-01	0.876887
WDR52	WD repeat domain 52	100309898_TGI_at	0.149	0.388	7.01E-01	0.876887
C1orf113	chromosome 1 open reading frame 113	100149702_TGI_at	-1.097	3.005	7.15E-01	0.877853
CAMK1D	calcium/calmodulin-dependent protein kinase ID	100139207_TGI_at	0.084	0.228	7.14E-01	0.877853
NA	hypothetical protein LOC285540	100148345_TGI_at	-0.533	1.455	7.14E-01	0.877853
PDGFD	platelet derived growth factor D	100306816_TGI_at	0.954	2.633	7.17E-01	0.877853
PTER	phosphotriesterase related	100132235_TGI_at	-0.479	1.322	7.17E-01	0.877853
NA	NA	100124262_TGI_at	-0.188	0.527	7.21E-01	0.878801
NA	NA	100161240_TGI_at	0.616	1.727	7.21E-01	0.878801
PM20D1	peptidase M20 domain containing 1	100155586_TGI_at	1.805	5.037	7.20E-01	0.878801

ARIH2	ariadne homolog 2 (Drosophila)	100314021_TGI_at	0.132	0.386	7.32E-01	0.882101
C6orf138	chromosome 6 open reading frame 138	100121858_TGI_at	-1.004	2.904	7.30E-01	0.882101
HCP5	HLA complex P5	100144394_TGI_at	-0.043	0.126	7.33E-01	0.882101
HDAC9	histone deacetylase 9	100146735_TGI_at	-0.878	2.551	7.31E-01	0.882101
HLA-DOA	"major histocompatibility complex, class II, DO alpha"	100126591_TGI_at	-0.013	0.038	7.27E-01	0.882101
HLA-DRB5	"major histocompatibility complex, class II, DR beta 5"	100302940_TGI_at	0.003	0.010	7.29E-01	0.882101
MRPL43	mitochondrial ribosomal protein L43	100134957_TGI_at	-0.075	0.217	7.31E-01	0.882101
RHOBTB3	Rho-related BTB domain containing 3	100153237_TGI_at	-0.095	0.276	7.31E-01	0.882101
C11orf83	chromosome 11 open reading frame 83	100153773_TGI_at	0.392	1.157	7.35E-01	0.882199
NA	NA	100149004_TGI_at	0.049	0.145	7.35E-01	0.882199
AMIGO3	adhesion molecule with Ig-like domain 3	100137568_TGI_at	-0.513	1.653	7.56E-01	0.884324
BTN2A2	"butyrophilin, subfamily 2, member A2"	100141839_TGI_at	-0.092	0.296	7.56E-01	0.884324
C10orf11	chromosome 10 open reading frame 11	100144009_TGI_at	-1.393	4.532	7.59E-01	0.884324
CAMK1D	calcium/calmodulin-dependent protein kinase ID	100142010_TGI_at	0.066	0.208	7.50E-01	0.884324
CCNT2	cyclin T2	100144954_TGI_at	-0.175	0.540	7.46E-01	0.884324
EYA3	eyes absent homolog 3 (Drosophila)	100122866_TGI_at	-0.127	0.388	7.44E-01	0.884324
HLA-DPB1	"major histocompatibility complex, class II, DP beta 1"	100145052_TGI_at	-0.055	0.181	7.61E-01	0.884324
LST1	leukocyte specific transcript 1	100149313_TGI_at	-0.011	0.035	7.44E-01	0.884324
MCART1	mitochondrial carrier triple repeat 1	100155123_TGI_at	0.282	0.899	7.54E-01	0.884324
MUC21	"mucin 21, cell surface associated"	100159175_TGI_at	0.045	0.135	7.41E-01	0.884324
NA	NA	100149241_TGI_at	0.135	0.411	7.42E-01	0.884324
NA	NA	100309243_TGI_at	-0.219	0.680	7.47E-01	0.884324
NA	hypothetical protein FLJ11151	100311790_TGI_at	-0.149	0.468	7.50E-01	0.884324
NA	NA	100151362_TGI_at	0.439	1.391	7.53E-01	0.884324
NA	NA	100150849_TGI_at	3.710	11.912	7.55E-01	0.884324
RABAC1	Rab acceptor 1 (prenylated)	100306969_TGI_at	0.047	0.152	7.56E-01	0.884324
RABEP1	"rabaptin, RAB GTPase binding effector protein 1"	100135777_TGI_at	-0.094	0.309	7.60E-01	0.884324
SNAPIN	SNAP-associated protein	100154603_TGI_at	-0.128	0.414	7.58E-01	0.884324
SPATA1	spermatogenesis associated 1	100151666_TGI_at	-0.366	1.187	7.57E-01	0.884324
TAP2	"transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)"	100161395_TGI_at	0.020	0.059	7.40E-01	0.884324
TSEN54	tRNA splicing endonuclease 54 homolog (S. cerevisiae)	100159529_TGI_at	0.201	0.647	7.56E-01	0.884324
UHRF1BP1	UHRF1 binding protein 1	100149686_TGI_at	0.544	1.786	7.61E-01	0.884324
NA	peptidylprolyl isomerase E pseudogene	100313726_TGI_at	-0.090	0.299	7.62E-01	0.8846
NA	NA	100139086_TGI_at	0.118	0.394	7.64E-01	0.8854
NLRC3	"NLR family, CARD domain containing 3"	100125900_TGI_at	-0.067	0.227	7.69E-01	0.889047
UHRF1BP1	UHRF1 binding protein 1	100128579_TGI_at	0.074	0.254	7.72E-01	0.891366
GFM1	"G elongation factor, mitochondrial 1"	100150755_TGI_at	0.077	0.266	7.74E-01	0.89202

MAPKBP1	mitogen-activated protein kinase binding protein 1	100302252_TGI_at	-0.966	3.390	7.76E-01	0.89202
NA	NA	100161847_TGI_at	0.384	1.346	7.75E-01	0.89202
KLC1	kinesin light chain 1	100310380_TGI_at	0.185	0.662	7.80E-01	0.894471
WWOX	WW domain containing oxidoreductase	100138939_TGI_at	0.166	0.594	7.80E-01	0.894471
HLA-DQA2	"major histocompatibility complex, class II, DQ alpha 2"	100125191_TGI_at	-0.550	2.002	7.84E-01	0.896187
HLA-DRB1	"major histocompatibility complex, class II, DR beta 1"	100125275_TGI_at	0.013	0.046	7.83E-01	0.896187
C3orf70	chromosome 3 open reading frame 70	100155000_TGI_at	-0.089	0.326	7.86E-01	0.897284
NA	hypothetical protein LOC284581	100300216_TGI_at	0.124	0.461	7.87E-01	0.897284
NA	sterile alpha motif and leucine zipper containing kinase AZK	100129209_TGI_at	0.116	0.433	7.89E-01	0.897284
PSMD7	"proteasome (prosome, macropain) 26S subunit, non-ATPase, 7"	100303831_TGI_at	-0.092	0.342	7.88E-01	0.897284
HCG18	HLA complex group 18	100308127_TGI_at	-0.142	0.549	7.96E-01	0.903829
C4BPB	"complement component 4 binding protein, beta"	100159322_TGI_at	-0.143	0.559	7.98E-01	0.904487
ARNT	aryl hydrocarbon receptor nuclear translocator	100310890_TGI_at	0.316	1.296	8.07E-01	0.907694
C18orf10	chromosome 18 open reading frame 10	100135353_TGI_at	-0.226	0.930	8.08E-01	0.907694
C22orf34	chromosome 22 open reading frame 34	100129499_TGI_at	-0.091	0.382	8.11E-01	0.907694
CCDC38	coiled-coil domain containing 38	100140090_TGI_at	3.212	12.927	8.04E-01	0.907694
CFDP1	craniofacial development protein 1	100147953_TGI_at	0.030	0.129	8.20E-01	0.907694
EFCAB5	EF-hand calcium binding domain 5	100305934_TGI_at	3.414	14.543	8.14E-01	0.907694
FAM103A1	"family with sequence similarity 103, member A1"	100301598_TGI_at	-0.077	0.340	8.20E-01	0.907694
HLA-A	"major histocompatibility complex, class I, A"	100129349_TGI_at	0.003	0.015	8.18E-01	0.907694
HLA-DRB3	"major histocompatibility complex, class II, DR beta 3"	100139572_TGI_at	0.003	0.013	8.11E-01	0.907694
NA	NA	100149232_TGI_at	4.396	18.627	8.13E-01	0.907694
NCR3	natural cytotoxicity triggering receptor 3	100125842_TGI_at	-0.224	0.940	8.11E-01	0.907694
NUP85	nucleoporin 85kDa	100143655_TGI_at	-0.069	0.296	8.15E-01	0.907694
PDXDC2	pyridoxal-dependent decarboxylase domain containing 2	100310948_TGI_at	-0.087	0.380	8.20E-01	0.907694
PSORS1C3	psoriasis susceptibility 1 candidate 3	100304000_TGI_at	-0.642	2.814	8.20E-01	0.907694
PTER	phosphotriesterase related	100124216_TGI_at	-0.123	0.512	8.11E-01	0.907694
QSOX2	quiescin Q6 sulfhydryl oxidase 2	100124395_TGI_at	-0.139	0.582	8.12E-01	0.907694
ZSCAN12L1	zinc finger and SCAN domain containing 12-like 1	100148250_TGI_at	-1.475	5.917	8.03E-01	0.907694
"MARCH5"	membrane-associated ring finger (C3HC4) 5	100305748_TGI_at	-0.051	0.247	8.36E-01	0.908959
ARL5C	ADP-ribosylation factor-like 5C	100300166_TGI_at	6.387	31.003	8.37E-01	0.908959
C18orf10	chromosome 18 open reading frame 10	100122767_TGI_at	-0.096	0.458	8.34E-01	0.908959
C4BPA	"complement component 4 binding protein, alpha"	100122178_TGI_at	-0.003	0.015	8.51E-01	0.908959
GATAD2B	GATA zinc finger domain containing 2B	100155432_TGI_at	0.031	0.149	8.35E-01	0.908959
HCG2P7	HLA complex group 2 pseudogene 7	100143227_TGI_at	-0.341	1.799	8.50E-01	0.908959
KIAA0317	KIAA0317	100126667_TGI_at	-0.094	0.493	8.50E-01	0.908959

KIAA0562	KIAA0562	100141567_TGI_at	-0.188	0.947	8.42E-01	0.908959
KPNA3	karyopherin alpha 3 (importin alpha 4)	100162913_TGI_at	-0.142	0.655	8.28E-01	0.908959
MAPKBP1	mitogen-activated protein kinase binding protein 1	100156388_TGI_at	-0.361	1.674	8.29E-01	0.908959
MLF1	myeloid leukemia factor 1	100304858_TGI_at	0.276	1.326	8.35E-01	0.908959
MPP6	"membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6)"	100128819_TGI_at	-0.664	3.113	8.31E-01	0.908959
NA	NA	100138417_TGI_at	-1.248	5.662	8.26E-01	0.908959
NA	fructosamine-3-kinase-related protein	100159829_TGI_at	-0.122	0.575	8.31E-01	0.908959
NA	NA	100151213_TGI_at	-0.923	4.364	8.32E-01	0.908959
NA	nuclear DNA-binding protein	100152575_TGI_at	-0.082	0.414	8.43E-01	0.908959
NA	NA	100123914_TGI_at	-0.049	0.260	8.49E-01	0.908959
NDUFAF1	"NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 1"	100132051_TGI_at	-0.108	0.567	8.49E-01	0.908959
PTER	phosphotriesterase related	100305949_TGI_at	-0.093	0.491	8.50E-01	0.908959
RABAC1	Rab acceptor 1 (prenylated)	100124297_TGI_at	0.041	0.186	8.24E-01	0.908959
RAD1	RAD1 homolog (S. pombe)	100309539_TGI_at	-0.153	0.798	8.47E-01	0.908959
STAT6	"signal transducer and activator of transcription 6, interleukin-4 induced"	100156721_TGI_at	-0.009	0.046	8.49E-01	0.908959
TCP11	t-complex 11 homolog (mouse)	100304633_TGI_at	1.061	5.389	8.44E-01	0.908959
TREM1	triggering receptor expressed on myeloid cells 1	100135979_TGI_at	-0.008	0.041	8.46E-01	0.908959
WWP2	WW domain containing E3 ubiquitin protein ligase 2	100300793_TGI_at	0.091	0.473	8.48E-01	0.908959
ZNF132	zinc finger protein 132	100125493_TGI_at	-0.240	1.104	8.28E-01	0.908959
AGPAT1	"1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha)"	100126665_TGI_at	0.041	0.254	8.72E-01	0.910334
B3GNTL1	"UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like 1"	100312006_TGI_at	-0.106	0.922	9.09E-01	0.910334
C1orf113	chromosome 1 open reading frame 113	100129400_TGI_at	-0.100	0.627	8.73E-01	0.910334
C22orf34	chromosome 22 open reading frame 34	100307496_TGI_at	0.097	0.564	8.63E-01	0.910334
C2CD3	C2 calcium-dependent domain containing 3	100145368_TGI_at	0.076	0.461	8.69E-01	0.910334
C6orf164	chromosome 6 open reading frame 164	100147499_TGI_at	0.926	7.821	9.06E-01	0.910334
CAMK1D	calcium/calmodulin-dependent protein kinase ID	100301887_TGI_at	0.397	2.913	8.92E-01	0.910334
CCNT2	cyclin T2	100304349_TGI_at	-0.064	0.488	8.96E-01	0.910334
CLUAP1	clusterin associated protein 1	100312853_TGI_at	-0.031	0.273	9.10E-01	0.910334
EXOC2	exocyst complex component 2	100139548_TGI_at	-0.080	0.586	8.91E-01	0.910334
FAM13A1	"family with sequence similarity 13, member A1"	100160946_TGI_at	0.023	0.138	8.69E-01	0.910334
GFM1	"G elongation factor, mitochondrial 1"	100141104_TGI_at	0.133	1.027	8.97E-01	0.910334
GTF3C5	"general transcription factor IIIC, polypeptide 5, 63kDa"	100157332_TGI_at	-0.050	0.367	8.91E-01	0.910334
HCG2P7	HLA complex group 2 pseudogene 7	100300348_TGI_at	-0.318	2.553	9.01E-01	0.910334
HLA-DQB2	"major histocompatibility complex, class II, DQ beta 2"	100157567_TGI_at	0.021	0.151	8.90E-01	0.910334

HLA-DRB4	"major histocompatibility complex, class II, DR beta 4"	100127159_TGI_at	-0.001	0.010	8.90E-01	0.910334
JMJD7-PLA2G4B	JMJD7-PLA2G4B readthrough transcript	100147021_TGI_at	0.062	0.409	8.80E-01	0.910334
KIAA0317	KIAA0317	100308140_TGI_at	0.110	0.943	9.07E-01	0.910334
LY6G5C	"lymphocyte antigen 6 complex, locus G5C"	100126781_TGI_at	0.111	0.747	8.82E-01	0.910334
MAPT	microtubule-associated protein tau	100123425_TGI_at	0.219	1.835	9.05E-01	0.910334
MLH3	mutL homolog 3 (E. coli)	100151060_TGI_at	-0.284	2.119	8.93E-01	0.910334
NA	NA	100304931_TGI_at	-0.283	1.598	8.60E-01	0.910334
NA	NA	100311514_TGI_at	-0.016	0.099	8.70E-01	0.910334
NA	NA	100123896_TGI_at	0.037	0.232	8.75E-01	0.910334
NA	NA	100304754_TGI_at	-0.535	3.507	8.79E-01	0.910334
NA	NA	100306689_TGI_at	-0.170	1.148	8.82E-01	0.910334
NA	NA	100151178_TGI_at	-0.178	1.215	8.83E-01	0.910334
NA	NA	100313804_TGI_at	-0.266	1.836	8.85E-01	0.910334
NA	NA	100160131_TGI_at	-0.287	2.050	8.89E-01	0.910334
NA	hypothetical protein FLJ11151	100151120_TGI_at	0.050	0.364	8.90E-01	0.910334
NA	NA	100143321_TGI_at	-0.157	1.274	9.02E-01	0.910334
NA	NA	100152779_TGI_at	0.169	1.440	9.06E-01	0.910334
NA	hypothetical LOC648987	100157820_TGI_at	-0.108	0.948	9.09E-01	0.910334
NUP210L	nucleoporin 210kDa-like	100136037_TGI_at	-0.603	5.196	9.08E-01	0.910334
OPN5	opsin 5	100304757_TGI_at	-0.601	3.454	8.62E-01	0.910334
PAAF1	proteasomal ATPase-associated factor 1	100150651_TGI_at	-0.052	0.332	8.76E-01	0.910334
PILRB	paired immunoglobulin-like type 2 receptor beta	100162662_TGI_at	0.088	0.593	8.81E-01	0.910334
PRG4	proteoglycan 4	100302581_TGI_at	0.040	0.350	9.10E-01	0.910334
PRKD3	protein kinase D3	100145697_TGI_at	0.066	0.511	8.97E-01	0.910334
RNF39	ring finger protein 39	100135776_TGI_at	-0.157	1.040	8.80E-01	0.910334
SGCD	"sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)"	100313731_TGI_at	-0.229	1.326	8.63E-01	0.910334
SLC30A10	"solute carrier family 30, member 10"	100159938_TGI_at	0.552	4.432	9.01E-01	0.910334
SREBF1	sterol regulatory element binding transcription factor 1	100136519_TGI_at	0.263	1.696	8.77E-01	0.910334
TCF19	transcription factor 19 (SC1)	100142285_TGI_at	-0.126	0.889	8.87E-01	0.910334
TH1L	TH1-like (Drosophila)	100306923_TGI_at	0.117	0.634	8.54E-01	0.910334
TH1L	TH1-like (Drosophila)	100126253_TGI_at	0.038	0.273	8.91E-01	0.910334
THSD4	"thrombospondin, type I, domain containing 4"	100308491_TGI_at	0.085	0.580	8.84E-01	0.910334
TMEM87A	transmembrane protein 87A	100305514_TGI_at	0.914	6.037	8.80E-01	0.910334
TNS1	tensin 1	100145096_TGI_at	-0.102	0.732	8.89E-01	0.910334
VAMP4	vesicle-associated membrane protein 4	100156028_TGI_at	0.105	0.864	9.04E-01	0.910334
ZNF584	zinc finger protein 584	100127553_TGI_at	-0.085	0.632	8.93E-01	0.910334

BRUNOL4	"bruno-like 4, RNA binding protein (Drosophila)"	100146695_TGI_at	-0.212	2.087	9.19E-01	0.914564
C6orf162	chromosome 6 open reading frame 162	100143632_TGI_at	0.196	1.860	9.16E-01	0.914564
NA	NA	100126219_TGI_at	0.111	1.073	9.18E-01	0.914564
NA	NA	100150988_TGI_at	0.665	6.617	9.20E-01	0.914564
RPAP1	RNA polymerase II associated protein 1	100154811_TGI_at	-0.058	0.554	9.17E-01	0.914564
MLF1	myeloid leukemia factor 1	100123606_TGI_at	0.031	0.311	9.22E-01	0.915047
NA	NA	100129584_TGI_at	1.365	14.288	9.24E-01	0.916261
MN1	meningioma (disrupted in balanced translocation) 1	100307164_TGI_at	0.013	0.134	9.25E-01	0.916356
ANGPTL6	angiopoietin-like 6	100132449_TGI_at	-0.331	4.339	9.39E-01	0.916765
ATF6	activating transcription factor 6	100305118_TGI_at	0.534	6.908	9.38E-01	0.916765
CCDC51	coiled-coil domain containing 51	100313943_TGI_at	0.018	0.204	9.31E-01	0.916765
FGFR1OP2	FGFR1 oncogene partner 2	100311305_TGI_at	-0.020	0.272	9.40E-01	0.916765
FMO2	flavin containing monooxygenase 2 (non-functional)	100129207_TGI_at	0.004	0.050	9.43E-01	0.916765
HLA-DRB1	"major histocompatibility complex, class II, DR beta 1"	100312946_TGI_at	-0.001	0.016	9.27E-01	0.916765
IGSF11	"immunoglobulin superfamily, member 11"	100146385_TGI_at	0.263	3.086	9.32E-01	0.916765
NA	NA	100303672_TGI_at	-0.204	2.331	9.30E-01	0.916765
NA	NA	100155445_TGI_at	-0.022	0.283	9.39E-01	0.916765
NA	NA	100158823_TGI_at	-0.980	13.620	9.43E-01	0.916765
RAB3IP	RAB3A interacting protein (rabin3)	100160044_TGI_at	-0.011	0.148	9.40E-01	0.916765
RELT	RELT tumor necrosis factor receptor	100301195_TGI_at	-0.027	0.355	9.39E-01	0.916765
STK32C	serine/threonine kinase 32C	100158065_TGI_at	0.094	1.140	9.34E-01	0.916765
SYTL2	synaptotagmin-like 2	100301468_TGI_at	0.031	0.338	9.28E-01	0.916765
TNC	tenascin C	100161091_TGI_at	-0.037	0.476	9.38E-01	0.916765
ARNT	aryl hydrocarbon receptor nuclear translocator	100306322_TGI_at	0.037	0.629	9.53E-01	0.916826
BAG5	BCL2-associated athanogene 5	100311425_TGI_at	-0.075	1.309	9.55E-01	0.916826
DCBLD2	"discoidin, CUB and LCCL domain containing 2"	100308435_TGI_at	-0.989	14.875	9.47E-01	0.916826
HLA-B	"major histocompatibility complex, class I, B"	100300038_TGI_at	-0.002	0.028	9.51E-01	0.916826
KATNAL2	katanin p60 subunit A-like 2	100311198_TGI_at	-0.280	4.562	9.51E-01	0.916826
NA	NA	100133899_TGI_at	-0.003	0.041	9.45E-01	0.916826
NA	NA	100144299_TGI_at	-0.064	1.106	9.54E-01	0.916826
NT5C	"5'; 3';-nucleotidase, cytosolic"	100158391_TGI_at	-0.020	0.365	9.55E-01	0.916826
OTUD4	OTU domain containing 4	100302095_TGI_at	0.265	4.375	9.52E-01	0.916826
RPRD2	regulation of nuclear pre-mRNA domain containing 2	100144721_TGI_at	0.024	0.391	9.51E-01	0.916826
TSPAN14	tetraspanin 14	100304251_TGI_at	-0.016	0.240	9.46E-01	0.916826
MLF1	myeloid leukemia factor 1	100312821_TGI_at	-0.312	5.937	9.58E-01	0.918248
LRRRC16A	leucine rich repeat containing 16A	100311443_TGI_at	-0.066	1.317	9.60E-01	0.918994
NA	NA	100155899_TGI_at	-0.072	1.473	9.61E-01	0.918994

CACNA2D4	"calcium channel, voltage-dependent, alpha 2/delta subunit 4"	100131579_TGI_at	-0.136	2.926	9.63E-01	0.919564
ADAM17	ADAM metallopeptidase domain 17	100126288_TGI_at	-0.002	0.237	9.92E-01	0.91973
AIF1	allograft inflammatory factor 1	100151160_TGI_at	0.000	0.038	9.96E-01	0.91973
APOM	apolipoprotein M	100126143_TGI_at	-0.009	1.419	9.95E-01	0.91973
CGN	cingulin	100156369_TGI_at	-0.022	0.521	9.67E-01	0.91973
CLUAP1	clusterin associated protein 1	100152540_TGI_at	-0.006	0.252	9.82E-01	0.91973
EIF3E	"eukaryotic translation initiation factor 3, subunit E"	100152431_TGI_at	-0.025	0.956	9.79E-01	0.91973
FAM177A1	"family with sequence similarity 177, member A1"	100121711_TGI_at	0.010	2.285	9.96E-01	0.91973
GBP3	guanylate binding protein 3	100126116_TGI_at	0.002	0.103	9.87E-01	0.91973
HHIP	hedgehog interacting protein	100148028_TGI_at	0.006	0.362	9.87E-01	0.91973
HLA-DRB6	"major histocompatibility complex, class II, DR beta 6 (pseudogene)"	100160430_TGI_at	-0.033	1.797	9.85E-01	0.91973
ITCH	itchy E3 ubiquitin protein ligase homolog (mouse)	100307620_TGI_at	0.006	0.197	9.74E-01	0.91973
LONP2	"lon peptidase 2, peroxisomal"	100300599_TGI_at	0.011	1.311	9.93E-01	0.91973
NA	NA	100142307_TGI_at	-0.319	7.560	9.66E-01	0.91973
NA	60S ribosomal pseudogene	100304214_TGI_at	-0.027	1.213	9.82E-01	0.91973
NA	NA	100305428_TGI_at	0.013	0.804	9.87E-01	0.91973
NA	NA	100145017_TGI_at	0.104	6.364	9.87E-01	0.91973
P4HA3	"procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide III"	100133960_TGI_at	-0.029	1.476	9.84E-01	0.91973
PDXDC2	pyridoxal-dependent decarboxylase domain containing 2	100122963_TGI_at	0.002	0.041	9.69E-01	0.91973
PID1	phosphotyrosine interaction domain containing 1	100157087_TGI_at	-0.002	0.074	9.80E-01	0.91973
RABEP1	"rabaptin, RAB GTPase binding effector protein 1"	100155542_TGI_at	0.006	0.542	9.91E-01	0.91973
ROM1	retinal outer segment membrane protein 1	100122809_TGI_at	0.031	1.397	9.82E-01	0.91973
RPUSD4	RNA pseudouridylate synthase domain containing 4	100310631_TGI_at	-0.213	9.950	9.83E-01	0.91973
SLITRK5	"SLIT and NTRK-like family, member 5"	100149341_TGI_at	0.013	2.017	9.95E-01	0.91973
SNRPF	small nuclear ribonucleoprotein polypeptide F	100145491_TGI_at	-0.005	0.697	9.94E-01	0.91973
TMEM108	transmembrane protein 108	100139628_TGI_at	0.009	0.274	9.74E-01	0.91973
TRIM66	tripartite motif-containing 66	100136729_TGI_at	-0.049	6.321	9.94E-01	0.91973
TSPAN14	tetraspanin 14	100150788_TGI_at	-0.005	0.224	9.82E-01	0.91973
ZNF131	zinc finger protein 131	100147117_TGI_at	0.040	1.493	9.78E-01	0.91973
ZSWIM7	"zinc finger, SWIM-type containing 7"	100162676_TGI_at	-0.001	0.136	9.91E-01	0.91973
NA	NA	100124335_TGI_at	0.000	0.757	1.00E+00	0.921622

Supplementary Table 17: Connectivity Map results for drugs that could reverse or induce the COPD gene expression signature *in silico*.

Enrichment: The similarity metric between the COPD gene signature and the reference transcriptional profiles. This ranges from -1 to +1 to reflect the similarity or dissimilarity of the expression profiles. P value: An estimate of the likelihood that the enrichment of COPD gene signature would be observed by chance. This value is determined empirically by computing the enrichment of one hundred thousand sets of expression profiles selected at random from the set of all profiles in the result.

Compounds that induce COPD signature				
Rank	Compound	Enrichment	P value	Use/mechanism of action
1	Alsterpaullone	0.995	<2.2e-16	Act as glycogen synthase kinase-3 (GSK3) inhibitor, Cyclin-Dependent Kinase Inhibitor (31)• Also act as Wnt signaling agonist (32), and down-regulates vascular endothelial growth factor (VEGF) and fibroblast growth factor (FGF) (33)• Alsterpaullone has also been studied as an antimanic therapeutic for the acute manic phase of bipolar disorder (34)•
2	H-7	0.969	<2.2e-16	protein kinase A and C (PKA/PKC) inhibitor (35)
3	Vorinostat	0.832	<2.2e-16	Histone Deacetylase (HDAC) inhibitor (36)
4	Trichostatin A	0.514	<2.2e-16	Histone Deacetylase (HDAC) inhibitor (37)
5	Doxorubicin	0.982	0.00004	An anthracycline antibiotic and used in cancer chemotherapy (38)
6	Camptothecin	0.971	0.00004	Cytotoxic quinoline alkaloid which inhibits the DNA enzyme topoisomerase I (topo I) and used in chemotherapy(39)
7	Mitoxantrone	0.965	0.00006	Anthracenedione antineoplastic agent (40), and used in multiple sclerosis (41)•
8	Gw-8510	0.908	0.00008	Inhibitor of cyclin kinase 2 (CDK2) (42)
9	Procaine	0.756	0.00202	Local anesthetic which acts mainly as a sodium channel blocker, and has been used to treat dementia (43)
10	Tiabendazole	0.786	0.00408	Fungicide and parasiticide, used to treat strongyloidiasis (44)
Compounds that reverse COPD gene signature				
1	Adiphenine	-0.74	0.00242	Local anesthetic that act as inhibitor of nicotinic receptors (45, 46)
2	Hexetidine	-0.81	0.00257	Anti-bacterial and anti-fungal agent• Also act as a local anesthetic, astringent and deodorant and has antiplaque effects (47)•
3	Disulfiram	-0.717	0.00401	Acetaldehyde dehydrogenase inhibitor, used to support the treatment of chronic alcoholism (48)• Disulfiram is also being studied as a treatment for cocaine dependence since it inhibits dopamine β-hydroxylase (DβH), which converts dopamine to norepinephrine (49)
4	Metixene	-0.777	0.00511	Discontinued. Muscarinic anticholinergic used as an antiparkinsonian agent (50)

5	Gabazine SR-95531	-0•765	0•00621	Antagonist of gamma-aminobutyric acid class A (GABAA) receptors (51)•
6	Perphenazine	-0•689	0•00661	Perphenazine is a typical antipsychotic drug (52) Acts as inhibitor of dopamine D1 and dopamine D2 receptors (53) and also binds the alpha adrenergic receptor (54)
7	Colchicine	-0•629	0•0081	Drug used to treat gout, work by arresting microtubule assembly and inhibition of neutrophil and endothelial cell adhesion molecules (55)
8	Metaraminol	-0•743	0•00869	Alpha-1 adrenergic receptor agonist, acts through peripheral vasoconstriction used in the prevention and treatment of hypotension (56)
9	Hecogenin	-0•728	0•01112	Hecogenin is the steroidal saponin aglycone (or sapogenin) present in the leaves of species from the <i>Agave</i> genus• It has antioxidant and anti-inflammatory properties (57)
10	Withaferin A	-0•707	0•01516	A steroidal lectone that exhibits anti-inflammatory, immunomodulatory, and anti-angiogenic properties (58, 59)• Withaferin A inhibits both NF- κ B (60) and down regulates VEGF gene expression (61)

References to Supplementary Materials

1. Soler Artigas M, Loth DW, Wain LV, Gharib SA, Obeidat Me, Tang W, et al. Genome-wide association and large-scale follow up identifies 16 new loci influencing lung function. *Nat Genet.* 2011;43(11):1082-90.
2. Hao K, Bossé Y, Nickle DC, Paré PD, Postma DS, Laviolette M, et al. Lung eQTLs to Help Reveal the Molecular Underpinnings of Asthma. *PLoS Genet.* 2012;8(11):e1003029.
3. Irizarry RA, Hobbs B, Collin F, Beazer-Barclay YD, Antonellis KJ, Scherf U, et al. Exploration, normalization, and summaries of high density oligonucleotide array probe level data. *Biostatistics.* 2003;4(2):249-64.
4. Morris AP, Voight BF, Teslovich TM, Ferreira T, Segre AV, Steinthorsdottir V, et al. Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. *Nat Genet.* 2012;44(9):981-90. Epub 2012/08/14.
5. Wang J, Duncan D, Shi Z, Zhang B. WEB-based GEne SeT AnaLysis Toolkit (WebGestalt): update 2013. *Nucleic Acids Research.* 2013;41(W1):W77-W83.
6. Kanehisa M, Goto S, Kawashima S, Okuno Y, Hattori M. The KEGG resource for deciphering the genome. *Nucleic Acids Res.* 2004;32(Database issue):D277-80. Epub 2003/12/19.
7. Ashburner M, Ball CA, Blake JA, Botstein D, Butler H, Cherry JM, et al. Gene ontology: tool for the unification of biology. The Gene Ontology Consortium. *Nat Genet.* 2000;25(1):25-9. Epub 2000/05/10.
8. Falcon S, Gentleman R. Using GOstats to test gene lists for GO term association. *Bioinformatics.* 2007;23(2):257-8.
9. Benjamini Y, Hochberg Y. Controlling the False Discovery Rate: A Practical and Powerful Approach to Multiple Testing. *Journal of the Royal Statistical Society Series B (Methodological).* 1995;57(1):289-300.
10. Lamb J, Crawford ED, Peck D, Modell JW, Blat IC, Wrobel MJ, et al. The Connectivity Map: Using Gene-Expression Signatures to Connect Small Molecules, Genes, and Disease. *Science.* 2006;313(5795):1929-35.
11. Hollander M, Wolfe D. *Nonparametric Statistical Methods* (2nd edition). 2nd ed 1999.
12. Qu XA, Rajpal DK. Applications of Connectivity Map in drug discovery and development. *Drug discovery today.* 2012;17(23-24):1289-98. Epub 2012/08/15.
13. GOLD. Global Initiative for Chronic Obstructive Lung disease 2011.
14. A Catalog of Published Genome-Wide Association Studies [database on the Internet]. 2014 [cited January 2014]. Available from: <http://www.genome.gov/gwastudies/>
15. Auerbach RK, Chen B, Butte AJ. Relating Genes to Function: Identifying Enriched Transcription Factors using the ENCODE ChIP-Seq Significance Tool. *Bioinformatics.* 2013.
16. Ward LD, Kellis M. HaploReg: a resource for exploring chromatin states, conservation, and regulatory motif alterations within sets of genetically linked variants. *Nucleic Acids Research.* 2012;40(D1):D930-D4.
17. Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project. *Nature.* 2007;447(7146):799-816.
18. Bernstein BE, Stamatoyannopoulos JA, Costello JF, Ren B, Milosavljevic A, Meissner A, et al. The NIH Roadmap Epigenomics Mapping Consortium. *Nat Biotech.* 2010;28(10):1045-8.
19. Kho AT, Bhattacharya S, Tantisira KG, Carey VJ, Gaedigk R, Leeder JS, et al. Transcriptomic Analysis of Human Lung Development. *American Journal of Respiratory and Critical Care Medicine.* 2010;181(1):54-63.
20. Westra H-J, Peters MJ, Esko T, Yaghootkar H, Schurmann C, Kettunen J, et al. Systematic identification of trans eQTLs as putative drivers of known disease associations. *Nat Genet.* 2013;45(10):1238-43.
21. Chytil F. Vitamin A and lung development. *Pediatric pulmonology.* 1985;1(3 Suppl):S115-7. Epub 1985/05/01.
22. Zachman RD. Role of vitamin A in lung development. *The Journal of nutrition.* 1995;125(6 Suppl):1634S-8S. Epub 1995/06/01.
23. Kassaye T, Becklake MR, Receveur O, Hanley JA, Johns T. Association between vitamin A status and lung function level in children aged 6–9 years in Wukro wereda, Northern Ethiopia. *International Journal of Epidemiology.* 2001;30(3):457-64.

24. Checkley W, West KP, Jr., Wise RA, Baldwin MR, Wu L, LeClerq SC, et al. Maternal vitamin A supplementation and lung function in offspring. *The New England journal of medicine*. 2010;362(19):1784-94. Epub 2010/05/14.
25. Massaro D, Massaro GD. Lung development, lung function, and retinoids. *The New England journal of medicine*. 2010;362(19):1829-31. Epub 2010/05/14.
26. Massaro GD, Massaro D. Retinoic acid treatment abrogates elastase-induced pulmonary emphysema in rats. *Nature medicine*. 1997;3(6):675-7. Epub 1997/06/01.
27. Paiva SA, Godoy I, Vannucchi H, Fávares RM, Geraldo RR, Campana AO. Assessment of vitamin A status in chronic obstructive pulmonary disease patients and healthy smokers. *The American Journal of Clinical Nutrition*. 1996;64(6):928-34.
28. Mao JT, Goldin JG, Dermand J, Ibrahim G, Brown MS, Emerick A, et al. A Pilot Study of All-trans-Retinoic Acid for the Treatment of Human Emphysema. *American Journal of Respiratory and Critical Care Medicine*. 2002;165(5):718-23.
29. Stolk J, Stockley RA, Stoel BC, Cooper BG, Piitulainen E, Seersholm N, et al. Randomised controlled trial for emphysema with a selective agonist of the γ -type retinoic acid receptor. *European Respiratory Journal*. 2012;40(2):306-12.
30. Zhou X, Baron RM, Hardin M, Cho MH, Zielinski J, Hawrylkiewicz I, et al. Identification of a chronic obstructive pulmonary disease genetic determinant that regulates HHIP. *Human Molecular Genetics*. 2012;21(6):1325-35.
31. Cui C, Wang Y, Wang Y, Zhao M, Peng S. Alsterpaullone, a Cyclin-Dependent Kinase Inhibitor, Mediated Toxicity in HeLa Cells through Apoptosis-Inducing Effect. *Journal of analytical methods in chemistry*. 2013;2013:602091. Epub 2013/04/12.
32. Marlow H, Matus DQ, Martindale MQ. Ectopic activation of the canonical wnt signaling pathway affects ectodermal patterning along the primary axis during larval development in the anthozoan *Nematostella vectensis*. *Developmental Biology*. 2013;380(2):324-34.
33. Krishnapati LS, Ghaskadbi S. Identification and characterization of VEGF and FGF from Hydra. *The International journal of developmental biology*. 2013;57(11-12):897-906. Epub 2013/01/01.
34. Kalinichev M, Dawson LA. Evidence for antimanic efficacy of glycogen synthase kinase-3 (GSK3) inhibitors in a strain-specific model of acute mania. *The international journal of neuropsychopharmacology / official scientific journal of the Collegium Internationale Neuropsychopharmacologicum (CINP)*. 2011;14(8):1051-67. Epub 2011/01/07.
35. Boniece IR, Wagner JA. Growth factors protect PC12 cells against ischemia by a mechanism that is independent of PKA, PKC, and protein synthesis. *The Journal of neuroscience : the official journal of the Society for Neuroscience*. 1993;13(10):4220-8. Epub 1993/10/01.
36. Iwamoto M, Friedman EJ, Sandhu P, Agrawal NG, Rubin EH, Wagner JA. Clinical pharmacology profile of vorinostat, a histone deacetylase inhibitor. *Cancer chemotherapy and pharmacology*. 2013;72(3):493-508. Epub 2013/07/04.
37. Royce SG, Karagiannis TC. Histone deacetylases and their role in asthma. *The Journal of asthma : official journal of the Association for the Care of Asthma*. 2012;49(2):121-8. Epub 2012/01/12.
38. Tacar O, Sriamornsak P, Dass CR. Doxorubicin: an update on anticancer molecular action, toxicity and novel drug delivery systems. *The Journal of pharmacy and pharmacology*. 2013;65(2):157-70. Epub 2013/01/03.
39. Beretta GL, Gatti L, Perego P, Zaffaroni N. Camptothecin resistance in cancer: insights into the molecular mechanisms of a DNA-damaging drug. *Current medicinal chemistry*. 2013;20(12):1541-65. Epub 2013/02/26.
40. Collins R, Trowman R, Norman G, Light K, Birtle A, Fenwick E, et al. A systematic review of the effectiveness of docetaxel and mitoxantrone for the treatment of metastatic hormone-refractory prostate cancer. *British journal of cancer*. 2006;95(4):457-62. Epub 2006/08/02.
41. Marriott JJ, Miyasaki JM, Gronseth G, O'Connor PW. Evidence Report: The efficacy and safety of mitoxantrone (Novantrone) in the treatment of multiple sclerosis: Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. *Neurology*. 2010;74(18):1463-70. Epub 2010/05/05.
42. Johnson K, Liu L, Majdzadeh N, Chavez C, Chin PC, Morrison B, et al. Inhibition of neuronal apoptosis by the cyclin-dependent kinase inhibitor GW8510: identification of 3' substituted indolones as a scaffold for the development of neuroprotective drugs. *Journal of neurochemistry*. 2005;93(3):538-48. Epub 2005/04/20.
43. Szatmari S, Bereczki D. Procaine treatments for cognition and dementia. *The Cochrane database of systematic reviews*. 2008(4):CD005993. Epub 2008/10/10.
44. Igual-Adell R, Oltra-Alcaraz C, Soler-Company E, Sanchez-Sanchez P, Matogo-Oyana J, Rodriguez-Calabuig D. Efficacy and safety of ivermectin and thiabendazole in the treatment of strongyloidiasis. *Expert opinion on pharmacotherapy*. 2004;5(12):2615-9. Epub 2004/12/02.
45. Spitzmaul G, Gumilar F, Dilger JP, Bouzat C. The local anaesthetics proadifen and adifenine inhibit nicotinic receptors by different molecular mechanisms. *British journal of pharmacology*. 2009;157(5):804-17. Epub 2009/05/09.
46. Gentry CL, Lukas RJ. Local anesthetics noncompetitively inhibit function of four distinct nicotinic acetylcholine receptor subtypes. *The Journal of pharmacology and experimental therapeutics*. 2001;299(3):1038-48. Epub 2001/11/21.

47. Afennich F, Slot DE, Hossainian N, Van der Weijden GA. The effect of hexetidine mouthwash on the prevention of plaque and gingival inflammation: a systematic review. *International journal of dental hygiene*. 2011;9(3):182-90. Epub 2011/03/02.
48. Jaurigue MM, Cappell MS. Therapy for alcoholic liver disease. *World journal of gastroenterology : WJG*. 2014;20(9):2143-58. Epub 2014/03/08.
49. Kosten TR, Wu G, Huang W, Harding MJ, Hamon SC, Lappalainen J, et al. Pharmacogenetic Randomized Trial for Cocaine Abuse: Disulfiram and Dopamine β -Hydroxylase. *Biological Psychiatry*. 2013;73(3):219-24.
50. Syvalahti EK, Kunelius R, Lauren L. Effects of antiparkinsonian drugs on muscarinic receptor binding in rat brain, heart and lung. *Pharmacology & toxicology*. 1988;62(2):90-4. Epub 1988/02/01.
51. Iqbal F, Ellwood R, Mortensen M, Smart TG, Baker JR. Synthesis and evaluation of highly potent GABA(A) receptor antagonists based on gabazine (SR-95531). *Bioorganic & medicinal chemistry letters*. 2011;21(14):4252-4. Epub 2011/06/15.
52. Rosenheck R, Lin H. Noninferiority of perphenazine vs. three second-generation antipsychotics in chronic schizophrenia. *The Journal of nervous and mental disease*. 2014;202(1):18-24. Epub 2014/01/01.
53. Ozdemir E, Bagcivan I, Gursoy S. Role of D(1)/D(2) dopamin receptors antagonist perphenazine in morphine analgesia and tolerance in rats. *Bosnian journal of basic medical sciences / Udruzenje basicnih mediciniskih znanosti = Association of Basic Medical Sciences*. 2013;13(2):119-25. Epub 2013/06/04.
54. Hals PA, Hall H, Dahl SG. Phenothiazine drug metabolites: dopamine D2 receptor, alpha 1- and alpha 2-adrenoceptor binding. *Eur J Pharmacol*. 1986;125(3):373-81. Epub 1986/06/24.
55. Molad Y. Update on colchicine and its mechanism of action. *Curr Rheumatol Rep*. 2002;4(3):252-6.
56. Bhardwaj N, Jain K, Arora S, Bharti N. A comparison of three vasopressors for tight control of maternal blood pressure during cesarean section under spinal anesthesia: Effect on maternal and fetal outcome. *Journal of anaesthesiology, clinical pharmacology*. 2013;29(1):26-31. Epub 2013/03/16.
57. Santos Cerqueira G, dos Santos e Silva G, Rios Vasconcelos E, Fragoso de Freitas AP, Arcanjo Moura B, Silveira Macedo D, et al. Effects of hecogenin and its possible mechanism of action on experimental models of gastric ulcer in mice. *European Journal of Pharmacology*. 2012;683(1-3):260-9.
58. Chowdhury K, Neogy RK. Mode of action of Withaferin A and Withanolide D. *Biochemical pharmacology*. 1975;24(8):919-20. Epub 1975/04/15.
59. Mohan R, Hammers HJ, Bargagna-Mohan P, Zhan XH, Herbstritt CJ, Ruiz A, et al. Withaferin A is a potent inhibitor of angiogenesis. *Angiogenesis*. 2004;7(2):115-22. Epub 2004/11/02.
60. Yang H, Wang Y, Cheryan VT, Wu W, Cui CQ, Polin LA, et al. Withaferin A Inhibits the Proteasome Activity in Mesothelioma *In Vitro* and *In Vivo*. *PLoS ONE*. 2012;7(8):e41214.
61. Saha S, Islam M, Shilpi J, Hasan S. Inhibition of VEGF: a novel mechanism to control angiogenesis by *Withania somnifera*'s key metabolite Withaferin A. *In Silico Pharmacol*. 2013;1(1):1-9.