

**Leverage drug perturbation to reveal genetic regulators of hepatic gene expression in
African Americans**

Yizhen Zhong¹, Tanima De¹, Juan Avitia¹, Cristina Alarcon¹, Minoli A. Perera^{1*}

¹Department of Pharmacology, Northwestern University Feinberg School of Medicine, Chicago,
IL 60611, USA

*Send correspondence to:

Minoli A. Perera, PharmD, PhD <minoli.perera@northwestern.edu>:

Abstract

Background: Expression quantitative loci (eQTL) studies have paved the way in identifying genetic variation impacting gene expression levels. African Americans (AAs) are disproportionately underrepresented in eQTL studies, resulting in a lack of power to identify population-specific regulatory variations especially related to drug response. Specific drugs are known to affect the biosynthesis of drug metabolism enzymes as well as other genes. We used drug perturbation in cultured primary hepatocytes derived from AAs to determine the effect of drug treatment on eQTL mapping and to identify the drug response eQTLs (reQTLs) that show altered effect size following drug treatment. **Methods:** Whole-genome genotyping (Illumina MEGA array) and RNA-sequencing were performed on 60 primary hepatocyte cultures after treatment with 6 drugs (Rifampin, Phenytoin, Carbamazepine, Dexamethasone, Phenobarbital, and Omeprazole) and at baseline (no treatment). eQTLs were mapped by treatment and jointly using Meta Tissue. **Results:** We found varying transcriptional changes across different drug treatments and identified Nrf2 as a potential general transcriptional regulator. We jointly mapped eQTL with gene expression data for across all drug treatments and baseline which increased our power to detect eQTLs by 2.7-fold. We also identified 2,988 reQTLs (eQTLs with altered effect size after drug treatment), which were more likely to overlap transcription factor binding sites and uncovered a novel reQTL, rs61017966 that increases *CYP3A5* gene expression, a major drug metabolizing enzyme responsible for both drug response and adverse events across several drug classes. **Conclusions:** Our results provide novel insights into the genetic regulation of gene expression in hepatocytes through drug perturbation and provide insight into SNPs that effect the liver's ability to respond to transcription upregulation.

Introduction

Mapping expression quantitative trait loci (eQTL) has revealed important regulatory variants of gene expression and has helped implicate the biological mechanism underlying GWAS associations.(Cookson et al., 2009) These regulatory effects are largely context-specific and can change

with stimulation. As an example, genetic regulation of the transcriptional response to bacterial infection in immune cells (Barreiro et al., 2012, Nédélec et al., 2016, Kim-Hellmuth et al., 2017), statins treatment in LCLs (Mangravite et al., 2013), and doxorubicin treatment in iPSC-derived cardiomyocytes (Knowles et al., 2018) have been studied and provide insights into the interindividual variability to stimulus response and disease susceptibility. However, the genetic regulation of liver enzyme after drug exposure is not clearly understood, especially in populations that are largely underrepresented in current genetic studies.

The maintenance of the proper drug concentration is critical to drug efficacy and to avoiding adverse events. Proper concentrations of drug within the body are driven by the conversion of medications to metabolites through Phase I and Phase II enzymes. Hepatic enzymes are responsible for much of this conversion. This process involves two classes of drug metabolizing enzymes (DMEs): Phase I DME reactions which include oxidation, reduction, and hydrolysis through the cytochrome P450 (CYP450) proteins, and Phase II DME reactions which include glucuronidation, sulfation, and acetylation and occur through conjugation enzymes such as uridine 5'-diphosphoglucuronosyltransferases (UGTs), sulfotransferases (SULTs), N-acetyltransferases (NATs), and glutathione S-transferases (GSTs). (Jancova et al., 2010) There are more than 50 CYP enzymes found in human tissues with the CYP1, 2, and 3 families metabolize 70%-80% of drugs currently in clinical use. (Zanger and Schwab, 2013). The expression level of drug metabolism enzymes and their regulatory proteins vary greatly between individuals and populations. (Zanger and Schwab, 2013, Zhang et al., 2021) Differences in the activity and expression of these important genes have already been associated to several severe adverse drug events (ADE) such as opioid toxicity and adverse cardiovascular outcomes in individuals taking the antiplatelet drugs, just to name a few.(de Leon et al., 2003, Biswas et al., 2022) Importantly, most studies of these genes have focused on coding variants and have been conducted in mainly European and East Asian populations. Knowledge of regulatory genetic variants that result in variability to drug metabolism enzymes is an unexplored area in understudied populations like African Americans. (Relling and Klein, 2011)(Perera et al., 2013)

The expression of DMEs can be affected by drug perturbation. It is well known that specific drugs upregulate the transcription of DMEs leading to greater enzyme activity in the liver. During drug enzyme induction, drug molecules bind and activate several nuclear receptors such as the pregnane X receptor (PXR), Constitutive androstane receptor (CAR), Glucocorticoid receptor (GR), and Aryl hydrocarbon receptor (AhR) resulting in increased transcription. (Prakash et al., 2015) The genetic basis underlying interindividual variability in transcriptional response upon drug enzyme induction is largely unknown and is important to inform on the ability of individuals to respond to drug exposure with clinical relevance in multi-drug dosing. It should be noted that African Americans suffer from a higher rate of ADEs and death due to ADE than other populations. (Shepherd et al., 2012)

Lastly paired transcriptomic and genomics data in under-represented populations is scarce, limiting the ability to conduct well-powered eQTL mapping studies. Approximately 13% of GTEx subject self-identify as African American, however, there are only 15 African ancestry subjects with both genotype and gene expression data in liver – leaving discovery of population-specific eQTLs woefully underpowered. Moreover, as we and others have shown, population specific regulatory variation may uncover the biological underpinning of GWAS associated loci. (Zhong et al., 2020, Gay et al., 2020)

Here we investigated the transcription and genetic regulation changes in response to multiple drug perturbations in hepatocytes, a highly clinically relevant cell type, that are derived from African American donors. Our analysis addresses the three questions 1) what are the commonalities and specificity of the transcriptional response across different drug inducer exposures. 2) what are the potential genetic regulators of drug-induced transcriptional changes, and 3) what are the regulatory variants underlying response to drug perturbation. Together, we comprehensively characterize the genetic regulation in hepatocytes after drug perturbation and leveraging gene induction to identify novel genetic variants that affect drug response in African Americans.

Results

Drug metabolizing enzymes are differentially expressed (DE) after treatment with enzyme inducers

To investigate the perturbation effect of drugs on the transcriptome, we compared the expression profiles of drug-treated conditions with the baseline gene expression (**Figure 1B**). DMEs were among the most differentially expressed genes (**Figure 1B**), including phase1 DME genes *CYP3A4* and *CYP2B6*, phase 2 DME genes *UGT1A4* and *UGT1A5* and the transporter gene, *SLC5A12*. The average number of up-regulated genes was 332 and the average number of down-regulated genes was 289 across 6 drug treatment conditions (FDR<0.01, log(FC)>=0.5). Phenobarbital (458 up-regulated genes and 832 down-regulated genes) and Omeprazole treatment (597 up-regulated gene and 673 down-regulated gene) had the largest number of DE genes, suggesting these two drugs induced a stronger transcriptional response compared to other treatments. Carbamazepine treatment (80 up-regulated genes and 20 down-regulated genes) had the least number of DE genes. We observed the same pattern when using a less stringent threshold to identify DE genes (FDR<0.01 with no log(FC) threshold, **Sup Figure 1**).

We further sought to identify the commonalities across different drug treatments which may implicate the common mechanism of regulation. Using a threshold of FDR<0.01, we identified 200 commonly up-regulated DE genes and 196 commonly down-regulated genes across all drug treatments. Commonly upregulated genes include: *CYP3A5*, *CYP2B6*, *UGT1A1*, *UGT1A4* and *UGT1A5* (Supplementary file1). Gene ontology (GO) analysis showed commonly up-regulated genes were strongly enriched in metabolic process, xenobiotic stimulus and drug metabolic process (**Figure 1D**). Commonly up-regulated genes were also enriched for genes with Nrf2 transcription factor binding sites (TFBS) (**Figure 1E**). The enrichment remains when using a less stringent threshold to identify DE genes (FDR<0.05). Nrf2 is the key regulatory of anti-oxidative response and its role in the coordinated regulation of drug metabolism is gaining attention(Shen and Kong, 2009a). Nrf2 is also upregulated in most drug treatment conditions with the exception of Dexamethasone (Log fold change: Omeprazole=0.44, FDR=4.04e-31, Phenobarbital=0.41, FDR=3.46e-28 Dexamethasone=-0.03, FDR=0.39, Carbamazepine=0.16, FDR=6.77e-6, Phenytoin=0.27, FDR=3.05e-14, Rifampicin=0.53,

FDR=3.92e-42). Commonly down-regulated genes have fewer specific functions than commonly up-regulated genes with the top enriched GO terms being nucleotide biosynthetic process and developmental process (Supplementary File 2, Sup Figure 2).

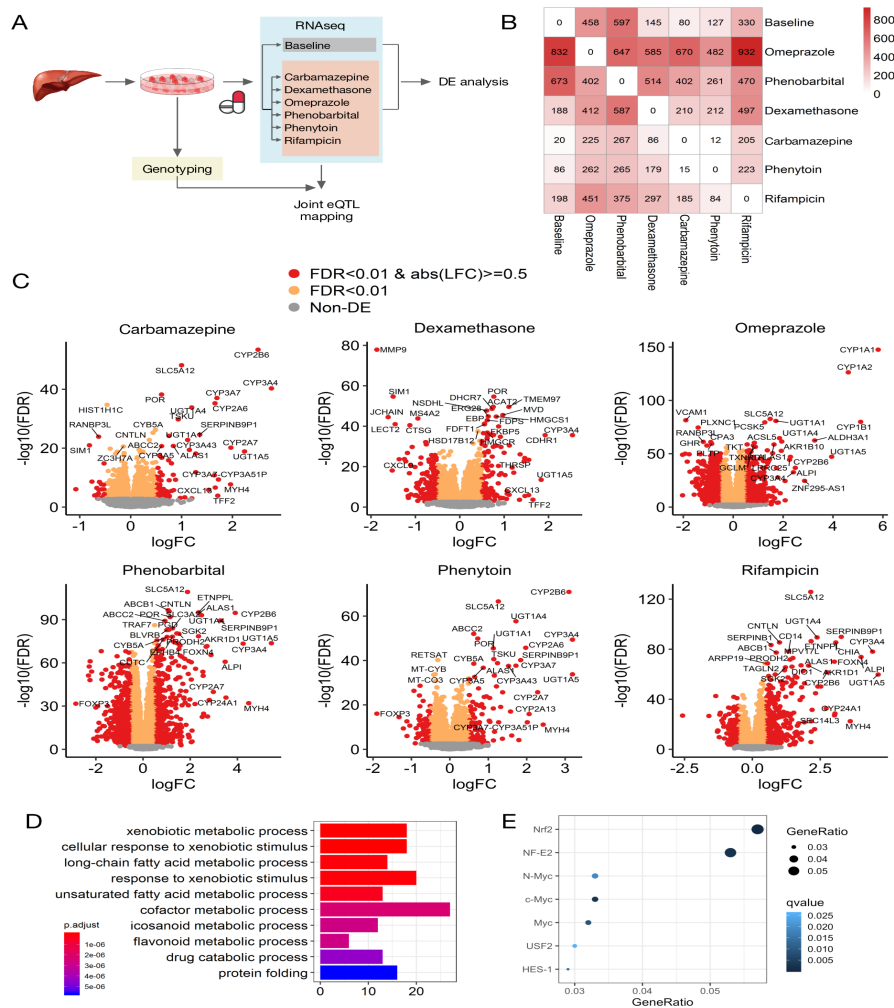


Figure 1: Transcriptional response to drug treatments

A) 60 livers from African American donors were obtained and cultured primary hepatocytes extracted. Genome-wide genotyping and RNA sequencing at baseline (no treatment) and after treatment with 6 drugs known to induce drug metabolizing enzymes were obtained to measure gene expression. The transcriptional change with drug treatments were assessed with differential gene expression analysis and the genetic regulation change by jointly mapping eQTLs across all conditions. **B)** Number of DE genes with $FDR < 0.01$ and $abs[Log(FC)] \geq 0.5$. The values above the diagonal show the number of up-regulated genes and the values below the diagonal show the number of down-regulated genes. **C)** Volcano plots show the DE genes of each drug treatment comparing with baseline. Drug metabolizing enzymes including *CYP2B6*, *CYP3A4*, *UGT1A5* and *UGT1A4* were some of the top DE genes. **D)** Pathways represented by commonly upregulated genes (genes that were significantly upregulated in all conditions at $FDR < 0.01$) The x-axis shows the number of genes in each ontology category with the color scale representing the adjusted p-value of the enrichment. **E)** Enrichment of transcriptional binding sites in commonly upregulated genes. The x-axis shows the GeneRatio for each significant transcriptional binding factor (number of commonly upregulated genes in each category divided by the total number of genes in each category).

Inter-individual variability is the major source of transcriptome variability

We used a linear mixed model to investigate the sources of variation in gene expressions (**Fig 2A**). The largest variance was attributed to inter-individual differences (mean \pm sd = 0.612 \pm 0.162) which may be due to genetics, epigenetics, physiological conditions, pathological factors and environmental influences. Genes with large inter-individual variance were enriched in immune response pathways. The inter-treatment difference (labeled drug in **Figure 2A**) was the second largest tested factor contributing to the transcriptome variability (mean \pm sd = 0.041 \pm 0.041, **Figure 2B**). Genes with high inter-treatment differences include *CYP1B1*, *CYP1A1* and *CYP1A2* which were significantly upregulated only with Omeprazole treatment (**Figure 1C**). These genes belong to the "Ahr gene battery" and are induced through the activation of the Ahr nuclear receptor. This may suggest the drug-specific transcriptional response is mostly due to the selective binding to nuclear receptors.

Genes with large proportions of variability explained by other factors can also provide interesting insights. Genes with large contribution from sex were sex chromosome-linked such as *EIF1AY*, *UTY* and *KDM5D* as expected. The majority of the variability in *ZNF518B* (71.0%), *TSPYL5* (69.6%), *ZIC1* (65.2%) were explained by age. Notably, these genes were previously found to be associated with age in other tissue types (Martella et al., 2014, Mimura, 2019, Bacos et al., 2016). This suggests that this age-dependent expression pattern remains in African American hepatocytes and our method was robust in identifying contributing factors of gene expression.

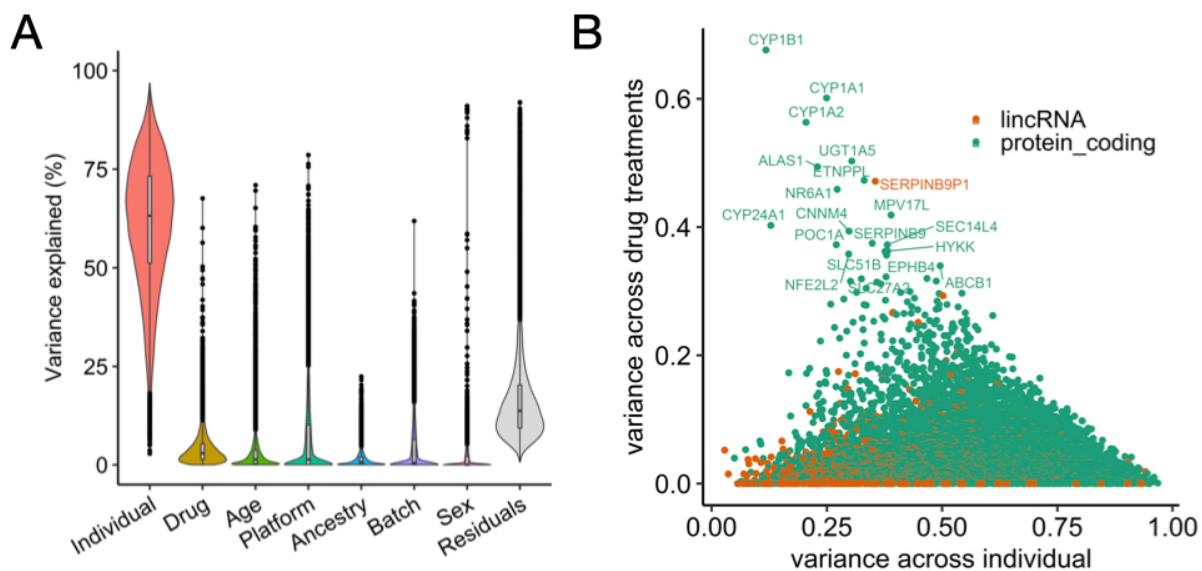


Figure 2: Factors contributing to the variability in cross-drug gene expression

We used a linear mixed model to partition variability in expression data across multiple drug treatment conditions. **A)** Distribution of the percentage of variability explained by each factor. The most variability is attributed to inter-individual variability and then inter-condition variability (labeled “Drug”). **B)** Comparison of inter-individual variability with inter-condition variability of each gene. *CYP1B1*, *CYP1A1* and *CYP1A2* have high inter-condition variability.

Joint-mapping of eQTLs across drug treatments increases detection power

We first performed eQTL mapping separately in each drug treatment condition (TBT, Treatment-By-Treatment). We consistently detected more eGenes with drug treatment as compared with baseline. The enrichment of TBT eQTLs in functional annotations did not differ between drug treatments and baseline (**Sup Figure 3**).

To leverage the repeated measurements of gene expression of each primary hepatocyte cell culture in different conditions, we used a linear mixed model to jointly map eQTLs while accounting for the correlation of expression in different drug treatment conditions implemented in Meta-Tissue (Sul et al., 2013). Meta-Tissue estimates the intercept and coefficient of genotype on gene expression for each condition and performs meta-analysis after uncorrelation of coefficient estimates. Meta-Tissue also estimates the posterior probability that the effect is present in each condition (represented as an m-value).

With the Meta-Tissue fixed effect (FE) and random effect (RE) meta-analysis of uncorrelated coefficients, we increased the number of identified eGenes (Meta-Tissue eGene) and eQTLs (Meta-Tissue eQTLs) compared with that of baseline TBT eQTL analysis (**Table 1**). The number of unique eGenes (n=665) combined across all TBT conditions was still less than that of Meta-Tissue FE model (n=818) or RE model (734). The fixed effect model assumes the eQTL effect is the same across different conditions, while the random effect model allows the eQTL effects to vary from condition to condition. 694 eQTLs are unique to the RE analysis and 6,042 eQTLs are unique to the FE analysis, suggesting eQTLs have both fixed effect or random effect across drug treatment conditions.

Table 1: eGene and eQTL discovery with different mapping methods.

	TBT baseline (eGenes/eQTLs)	TBT all conditions (eGenes/eQTLs)	Meta-Tissue fixed effect (eGenes/eQTLs)	Meta-Tissue random effect (eGenes/eQTLs)
FDR < 0.05	299/24,799	665/48,027	818/53,487	734/48,134

The number of eGenes (genes with at least one significant eQTL) and eQTLs identified with each method using an adjusted p-value threshold of less than 0.05. **TBT baseline:** Significant eGenes and eQTLs in hepatocytes after multi-testing correction on nominal p-values calculated from the Meta-Tissue linear regression in the baseline condition only. **TBT all conditions:** We applied multi-testing correction on nominal p values calculated from the Meta-Tissue linear regression in each condition separately (6 drug treatment conditions and baseline) and identified the intersection of unique eGenes and eQTLs that are significant in any conditions. **Meta-Tissue fixed effect:** Significant eGenes and eQTLs in the fixed effect model. **Meta-Tissue random effect:** Significant eGenes and eQTLs in the random effect model.

The Meta-Tissue FE eGenes are significantly enriched in the glutathione derivative metabolic process (q value = 0.00358) and xenobiotic catabolic process (q value = 0.03) within the biological process ontologies while the baseline eGenes were not (**Figure 3B**). This demonstrates that drug treatment with enzyme inducers uncovered important genetic regulation of drug metabolism that was undetectable at baseline. We also increased the replication with eGenes found in GTEx liver (n=153). The number of overlapping eGenes between Meta-Tissue FE model and GTEx liver was 501 compared with 220 of baseline eGenes mapped through a TBT approach (**Figure 3A**).

Genetic regulation change upon drug response

We examined the heterogeneity of eQTLs effects across conditions with I^2 statistics which estimates the percentage of variation in eQTL effect size explained by heterogeneity. We found TBT eQTLs had more extreme I^2 than the meta-tissue FE model and the meta-tissue RE model eQTLs (**Sup Figure 4**), suggesting that the TBT model might be more powerful in identifying drug-specific eQTLs than meta-analysis based methods. Therefore, we combined the Meta-Tissue FE eQTLs and TBT eQTLs (n=59169) to identify if any of these eQTLs were drug response specific (reQTL). Note that heterogeneity measured by I^2 captures the variance across all conditions instead of the difference between drug treatment and baseline .

We defined reQTLs as eQTLs with altered effect size after drug treatment. We used the Z-score method (Kim-Hellmuth et al., 2017) to test if the eQTL effect size after drug treatment was significantly different from the effect size at baseline while accounting for the correlation of beta estimates from linear mixed model. The magnitude of changes in the eQTL effect size is measured as a z score. We computed the significance of z score by comparing it with null z scores calculated from random permutations. We identified 2,988 reQTLs for 194 genes using q value < 0.05 across 6 drug treatment conditions [Supplementary File 3]. The remaining Meta-Tissue FE eQTLs and TBT eQTLs were classified as non-reQTL.

The z scores were mostly correlated between drug treatment conditions for reQTLs, suggesting the shared genetic regulation changes across drug treatments (**Sup Figure 5**). Interestingly, the highest

correlation of z scores was for Carbamazepine and Phenytoin (Pearson correlation=0.880, p-value<2.2e-16) which is consistent with the high similarity of their transcriptome profiles. In particular, the highest z scores were found for *UGT1A5*, *UGT1A4* and *CYP3A5* eQTLs across all drug treatment conditions (**Figure 3D**). We also identified reQTLs that were specific to one drug treatment (N = 2,541). For example, regulatory variants for *VRK3* were only seen after omeprazole treatment (**Figure 3D; Sup Figure 6**). *VRK3* belongs to the vaccinia-related kinases family and affects cell cycle progression as a serine/threonine kinase (Lee et al., 2017). Omeprazole has also been shown to restrict cell proliferation and induce cell cycle arrest (Hou et al., 2018, Paz et al., 2020). This suggests genetic regulation of *VRK3* might play a role in the response to Omeprazole treatment by regulating the cell cycle.

The enrichment of reQTL and non-reQTL in TFBS showed that while both groups were enriched for several TFBS, reQTLs have a larger OR for overlap with GABPA (also known as Nrf2), REST, ERG1, ZBTB33, RXRA and HNF4A binding peaks as compared to non-reQTLs (**Figure 3C**). As described previously, Nrf2 was enriched in commonly up-regulated genes across 6 drug treatments as previously stated. The enrichment of reQTLs in Nrf2 binding peaks further highlights the role of Nrf2 in modulating drug response. These results suggest the importance of these TFBS in the appropriate transcriptional response to drug exposure, such as upregulating drug clearance mechanisms to prevent toxicity. This response may be blunted or enhanced by reQTLs.

We compared the population differentiation in allele frequency between reQTLs and non-reQTLs. We used Wright's fixation index (*F_{st}*) to measure the extent of variation in allele frequency between Africans and Europeans. The reQTLs have higher *F_{st}* than non-reQTLs (**Sup Figure 7**, Wilcoxon rank sum one-sided test p=3.62e-10, median *F_{st}* of reQTL = 0.118; median *F_{st}* of non-reQTL: 0.111). This finding suggests allele frequency differences in regulatory variants link to transcriptional response may underly population differences in drug response or ADEs, though functional assays are needed validate these findings.

We then investigated the mechanism underlying the reQTLs with drug treatment. For each eGene, we compared the log fold change with the largest absolute z score among its eQTLs for each drug

treatment (**Figure 3D**). There was an independent relationship between the differential expression of each gene after drug treatment and the change of eQTL effect size. For example, *PLEKHA7* is an adherens junction protein and has been associated with blood pressure in previous GWAS (Lin et al., 2011). Here we found *PLEKHA7* was not differently expressed with drug treatments (LFC; Omeprazole=-0.31, Phenobarbital= -0.10, Dexamethasone=-0.05, Carbamazepine=-0.06, Phenytoin=-0.07, Rifampicin=-0.06), but had large difference in eQTL beta estimates (maximum z score: Omeprazole=-3.04, Phenobarbital= 2.37, Dexamethasone=4.02, Carbamazepin=3.14, Phenytoin=1.67, Rifampicin=2.67) as shown in **Sup Fig 8**. We also identified lfc QTL where we tested the association between genotype with gene expression log fold change. There is a low correlation between lfc eQTL z score and reQTL z score, which further suggests the independence between gene expression change and regulatory effect change (**Sup Fig 9**).

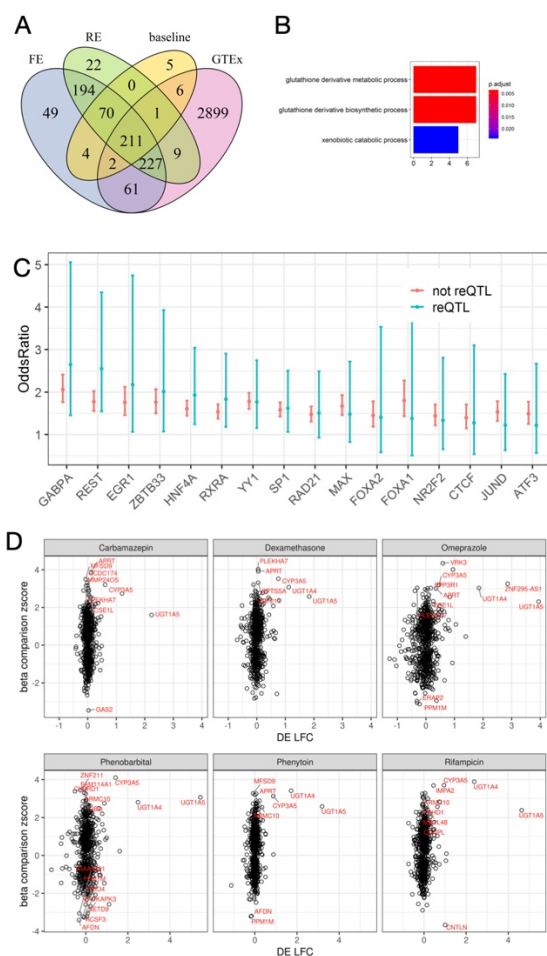


Figure 3 Identification of reQTLs.

A) The Venn Diagram comparing the eGenes identified in the Meta-Tissue FE model, Meta-Tissue RE model, baseline TBT and the GTEx liver dataset. Using Meta-Tissue increased the replication in GTEx liver as compared with TBT baseline results. **B)** Enrichment analysis of Meta-Tissue FE eGenes. The x axis is the number of eGenes in each category with the color of each bar representing the adjusted enrichment p-value. The baseline eGenes were not enriched in metabolic processes while the FE eGenes showed enrichment in glutathione derivative metabolic process. **C)** Enrichment of reQTLs and non-reQTLs within TFBS annotations. reQTLs show larger OR for overlap with GABPA, REST, ERG1 ZBTB33, RXRA and HNF4A binding peaks than non-reQTLs. **D)** Comparison of log fold change of eGenes expression (DE LFC) and the highest absolute z score among eQTLs for each eGene. This analysis showed independence between the differential gene expression and the effect size of eQTLs for those genes that are differentially expressed between treatment and baseline.

Analysis of *CYP3A5* expression regulation through rs61017966.

Among the eGenes with reQTLs, we found one DME, *CYP3A5*, which had 59 reQTLs. *CYP3A5* is labeled as a Very Important Pharmacogene (VIP gene) within PharmGKB(Gong et al., 2021), and metabolizes ~37% of commonly used drugs together with other *CYP3A* family genes. *CYP3A5* genotypes have been linked to interindividual variability in response to the lipid-lowering drugs, statins, and diseases such as blood pressure/hypertension (Lamba et al., 2012). *CYP3A5* expression is highly differentiated across populations with low expression in Europeans (due to the presence of a splice variant in *CYP3A5* in this populations) but significantly higher expression in African populations.

When comparing the m-values of all *cis* SNPs of *CYP3A5*, we found that reQTLs were not statistically significant in baseline, suggesting that drug perturbation enhances the discovery of these regulatory variants. One of the drug-specific eQTLs, rs61017966 (Indel: CCA>A), showed that the A allele was positively associated with *CYP3A5* expression (**Fig 4A**) in all treatments. Previous eQTL mapping efforts, both in GTEx and in our baseline data, show no significant eQTLs for this gene. The effect size of rs61017966 for *CYP3A5* increased from 0.38 in baseline to 0.77-0.96 with drug treatments, with the largest effect size (0.96) seen with phenobarbital treatment (**Fig 4B**). rs61017966 is 15kb upstream of *CYP3A5* and is located in a strong enhancer region (based on ENCODE ChromHMM prediction) (**Fig 4C**). This SNP is positioned under multiple active histone marker peaks (H3K27ac, H3K9ac, H3K4me1 and H3K4me3) mapped in ENCODE liver ChIP-seq data. Moreover, this SNP overlaps many ChIP-seq peaks for TFBS, such as JUND, ERG1 and SP1. This SNP is also highly differentiated across human populations with the allele frequency of the alternative allele at 69% in Africans and 7% in Europeans. Based on these results, this SNP may be a key regulator of *CYP3A5* gene expression, though further functional validation and fine mapping is needed.

Notably, *CYP3A5* activity is known to be regulated by a splicing variant, rs776746 (C/T), which is also highly differentiated between Africans and Europeans (T: 82% in AFR and 6% in EUR). We found moderate LD between rs776747 and rs61017966 in African ancestry populations (R^2 : AA hepatocyte: 0.59718, ASW: 0.608969, YRI: 0.508190.). We fitted a baseline model of *CYP3A5* expression with

rs776746 and a full model of *CYP3A5* expression with rs776746 and rs61017966 together. We performed likelihood ratio test showing that the addition of rs61017966 significantly increased the model goodness-of-fit in the phenytoin and rifampicin treatment conditions (Baseline: $p=0.866$, Omeprazole: $p=0.192$, Phenobarbital: $p=0.083$, Dexamethasone: $p=0.053$, Carbamazepine: $p=0.536$, Phenytoin: $p=0.045$, Rifampicin: $p=0.027$). The finding of significance in two drug treatment conditions as oppose to all, may be due to the different degrees of upregulation of *CYP3A5* by the different drug treatments. Given the small sample size of our cohort, the larger the transcriptional difference the more power we have to detect the association. Therefore, rs61017966 may confer a non-coding regulatory effect in addition to the effect of the splicing variant on *CYP3A5* gene expression.

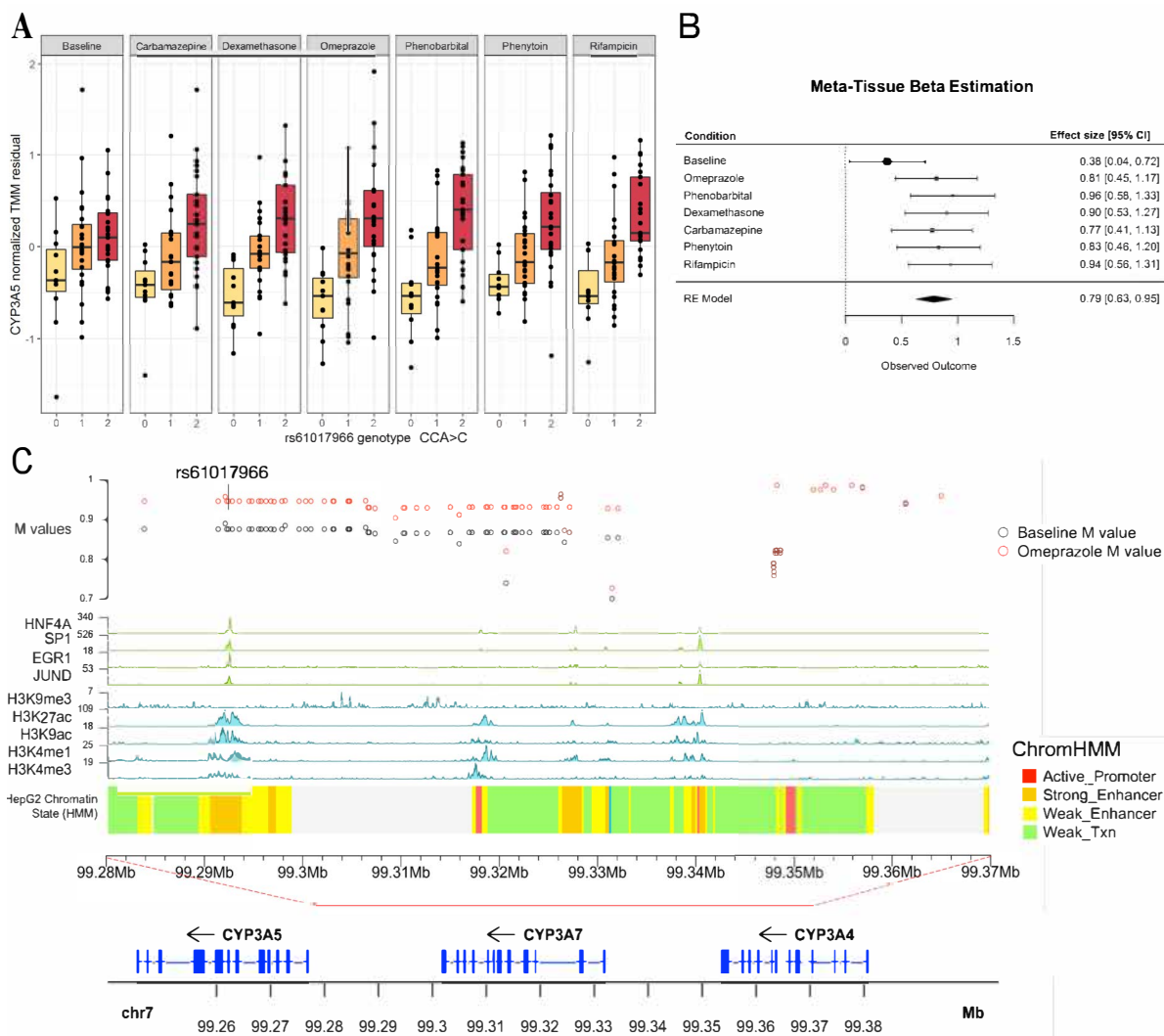


Figure 4: Regulation of *CYP3A5* gene expression through the reQTL, rs61017966

A) Boxplots of rs61017966 genotype and *CYP3A5* gene expression in all drug treatment and baseline. The y-axis is the normalized TMM value after regressing covariates B) Forrest plot of rs61017966 effect size and standard error estimates from Meta-Tissue linear mixed model in each drug condition. C) Genomic context of rs61017966 (annotation shown are from just upstream of the *CYP3A5* TSS to within *CYP3A4*). rs61017966 has different m-values between baseline (black points in the top panel) and after Omeprazole treatment (red points in the top panel). rs61017966 overlaps with TF binding sites (green tracks) and active histone markers (blue tracks). This SNP is 15kb upstream of *CYP3A5* and locates in the strong enhancer region based on ENCODE ChromHMM prediction.

Discussion

Understanding how genetic variation affects genes that are important for drug response promises to help deliver safe and effective drug treatment and therapeutics. Unfortunately, the variation resulting from drug exposure and the underlying genetic regulatory mechanisms are less understood. Furthermore, minority populations such as African Americans are largely underrepresented in current genetic studies even though they have repeatedly shown differences in drug response to a wide variety of medications. (Mehanna et al., 2017, Gong et al., 2016, Liu et al., 2021, Kranzler et al., 2021, Samedy-Bates et al., 2019) Studies also showed African Americans are disproportionately underrepresented in clinical trials which raises concern on the safety and efficacy of new therapies. (2018) Here, we present the first comprehensive evaluation of transcriptional response and its genetic regulation across 6 drug treatments in hepatocytes derived exclusively from African American donors.

We evaluated expression profiles with drug exposure and found varying transcriptional changes with different drugs. We found commonly upregulated genes are enriched in Nrf2 binding and eQTLs discovered with both TBT and joint modelling were more likely to overlap with Nrf2 binding sites. Nrf2 plays a central role in regulating the response to antioxidative stress which is a common effect of drug treatment (Deavall et al., 2012) and there is also evidence of the crosstalk between Nrf2 and drug-activated nuclear receptors (Gong et al., 2006, Klotz and Steinbrenner, 2017, Shen and Kong, 2009a). Animal studies have shown that Nrf2 may regulate Phase I and II enzymes. (Shen and Kong, 2009b, Aleksunes and Klaassen, 2012) Here, we further strengthen the role of Nrf2 as the master regulator of gene expression in human. Meanwhile, we found a distinct expression profile of Omeprazole treatment through the activation of its unique nuclear receptor. The mechanism of the crosstalk and coordination of shared and drug-specific transcriptional responses warrants future investigation.

We showed that inter-individual variability explains the most variance in the drug-induced transcriptome data. However, we found limited genetic regulation for most DMEs which were differentially expressed. For example, we did not find eQTLs for *CYP2B6* or *CYP3A4* which are

important DMEs. This suggests other factors besides genetics may play an important role in the dynamic response to drug treatment and are left to be discovered or we lack the power to detect these smaller signals. There is a growing interest in using multi-omics approaches to decipher the variability in phenotypic traits.(Hasin et al., 2017) This might also apply to molecular traits, gene expression in our case, where the integration of genetics and epigenetics could better explain and predict inter-individual variation in transcriptional response.

In our analysis, we identified significantly more eQTLs with joint modeling across multiple drug treatment conditions. This is important as tissues from minority populations, in our case African Americans, are rare in biomedical research, leading to much smaller cohort sizes than seen with other populations. Hence the ability to increase the power to detect associations in minority populations is crucial to bring equity to precision medicine. We demonstrated that we can increase the ability to detect eQTLs by introducing additional variation into the transcriptome, leveraging drug perturbation thus maximizing the information we can gather from a relatively small cohort. This learned lesson encourages inclusion of minority population samples with a relatively small sample size. Many times, non-European samples are removed from large scale multi-omic studies due to limited power, further limiting the transferability of many genomic discoveries.

Drug treatment also reveals novel regulators of important DMEs, such as *CYP3A5* and *UGT1A4*, which do not have any eQTLs identified in the baseline condition or within GTEx liver. In general, we found these eQTLs have increased effect sizes after drug treatments. This first suggests that using eQTLs mapped in the baseline condition may miss important regulatory variation. Second, the increased effect size indicates an enlarged difference in gene expression among individuals with different genotypes after drug exposure. In other words, individuals carrying a certain genotype have greater induced gene expression compared to individuals with the alternative genotype. Given the common occurrence of multiple medications to treat co-morbid conditions, drug exposures may amplify the regulatory effect of some genetic variants. We showed that reQTLs showed higher ORs for overlap with several TFBS, such as GABPA and REST, as compared to non-reQTLs. This suggests one of the potential mechanisms

underlying differential gene induction is through recruitment of transcription factor binding. More analysis and types of molecular profiling are needed to examine other potential mechanisms such as histone modification, enhancer activity and DNA methylation (Pai et al., 2015).

In our analysis, we identified a putative regulatory variant of *CYP3A5*. The CYP3A enzymes are thought to metabolize approximate 50% of drugs on the market. The amount of CYP3A5 protein varies in human liver, and the low or absent levels of this enzyme in most European ancestry populations. Because of the overall lack of *CYP3A5* expression in European populations, the impact of CYP3A5 has not been comprehensively studied. CYP3A5 is the main metabolizing enzyme of tacrolimus, which is the drug used to suppress the immune system after solid organ transplantation. Because of the drug's narrow therapeutic index and high between-patient variability, it is important to individualize initial tacrolimus dose based on CYP3A5 genotypes. The current known *CYP3A5* variants, *CYP3A5*3* (a splice variant which results in a non-functional enzyme) has been shown to explain only 45% of the variability of tacrolimus dose (Birdwell et al., 2015). African Americans require a higher dose of tacrolimus mostly due to the lower frequency of the *CYP3A5*3* allele in African populations. (Liu et al., 2019). We found a novel variant, rs61017966, located within an enhancer region which also overlaps with active histone markers and various TFBS. Adding rs61017966 to the known splice variant explain significantly more variability in *CYP3A5* expression, suggesting that this variant might improve genotype-guided tacrolimus dosing, but may have broader implication as few studies have explored how increase expression of CYP3A5 may impact drug dosing and adverse events. This is especially relevant to African Ancestry populations that express more CYP3A5 enzyme.(Lamba et al., 2002)

Our study has some limitations. First, we did not provide experimental validation of the regulatory effect of identified reQTLs. More functional analysis is needed to confirm the causal effect of rs61017966 within a relevant cellular or animal model. Second, we were restricted to a limited sample size of hepatocytes due to the rarity of livers from African American donors. It should be noted that this study quadrupled the amount of matched genotype and gene expression data available in African ancestry individuals as compared to large databases such as GTEx (15AA in GTEx). Regulatory variants of other

important DMEs might be revealed with larger sample size. Finally, we used cultured primary hepatocytes. This *in vitro* model may not represent gene expression of hepatocytes *in vivo*.

In summary, our study comprehensively characterized the biological response to drug treatment at transcriptional and genetic regulatory levels across different enzyme inducers in African Americans. Leveraging drug treatments provides an advantage to identify novel regulatory variants of important DMEs. We uncovered putative regulatory variants that might improve drug dosing with population differentiated response. Our work enhances the understanding of genetic regulation of gene expression and contributes to increasing equality in personalized genomic medicine.

Methods

Drug treatment of primary hepatocyte cultures:

The procurement of 62 hepatocyte cultures was described in Zhong *et al* (Zhong et al., 2020). Hepatocyte suspensions (0.6×10^6 cells in 0.5 mL of CP medium) were added to collagen-coated wells of a 24-well plate followed by incubation at 37° C for 4-5 hours to allow cells to adhere. The CP medium was replaced with 0.5 mL of 0.25 mg/mL matrigel solution in HI medium, and plates were incubated overnight at 37° C. The following day, matrigel-medium was replaced with 0.5 mL of induction drug in HI medium with antibiotics and the step was repeated for the next two consecutive days after every 24 hours. We performed the induction experiments using the following six drugs: Omeprazole (50 μ M), Phenobarbital sodium (1 mM), Dexamethasone (50 μ M), Carbamazepine (50 μ M), Phenytoin (75 μ M), Rifampicin (25 μ M). Baseline hepatocytes were treated with DMSO.

Differential gene expression (DGE) analysis:

Gene expression and genotyping data were prepared as described in Zhong *et al* (Zhong et al., 2020). Here we used expression data for baseline and six unique drug treatments. We calculated transcript per million (TPM) by first normalizing the counts by gene length (HGCR38) and then normalizing by read depth (Wagner et al., 2012). Samples were clustered through PCA to determine outliers and 2 samples were removed after this QC step. Gene expression values were filtered to retain genes with > 0.1 TPM in at least 10% of samples and ≥ 6 read counts in at least 10% of samples across seven conditions.

We retained only protein coding genes and long non-coding RNAs, resulting in a total of 15,579 genes that were used in the subsequent analyses.

We used weighted trimmed mean of M-values algorithm (TMM) implemented in edgeR (Robinson et al., 2010) to estimate the RNA sequencing library size. Then we calculated the counts per million (CPM) and performed log transformation with voom function implemented in Limma which accounts for estimated library sizes (Smyth et al., 2011). The estimated mean-variance trend was incorporated as precision weights in the model fitting by lmFit in Limma. To identify differentially expressed (DE) genes, we used a paired sample design to compare the expression before and after drug treatments for each individual. We used the empirical Bayes method implemented in Limma to test for DE between all pairs of conditions, with significance prespecified as by $FDR < 0.01$ and log fold change ≤ 0.5 .

Gene set enrichment analysis:

Enrichment of DE genes in biological process ontologies was performed using clusterProfiler (Yu et al., 2012) using all expressed genes in all conditions ($N = 15,579$) as background. We used the FDR method for multiple test correction. We used gProfileR (Raudvere et al., 2019) to test whether regions surrounding the DE genes are enriched for specific TF binding.

Variance partition analysis:

We combined all 7 gene expression datasets and utilized a linear mixed model to partition the variation in gene expression to various contributing factors using the normalized gene expression data after voom transformation. We modeled the effects of the condition, individual, sex, and potential confounding factors (batch and sequencing platform) as random effects and age and ancestry as fixed effects. This analysis was performed using the VariancePartition R package (Hoffman and Schadt, 2016).

Cross-treatment eQTL analysis:

We used Meta-Tissue developed by Sul *et al.* to jointly estimate eQTLs across conditions by integrating the mixed model and meta-analysis (Sul et al., 2013). Because of our experimental design, expression data was measured for the same hepatocyte culture under different conditions. Therefore,

expression measurements are correlated across conditions which violates the assumption of independence of studies in meta-analysis. Meta-Tissue removes this correlation between estimates of effect size before meta-analysis. First, Meta-Tissue estimates the effect size of each SNP in each condition using a linear mixed method to account for the sample sharing.

$$Y_g = \mathbf{1}\alpha + X_i\beta + \mathbf{u} + \mathbf{e}$$

Here Y_g is the expression vector of dimension $NT \times 1$ where N is the number of samples and T is the number of conditions, $\alpha \in R^T$ is the intercept vector, X_i is the genotype for variant i , $\beta \in R^T$ is the coefficient vector, $\mathbf{u} \sim \mathcal{N}(0, \sigma_v^2 \mathbf{D})$ is the random effect of dimension $NT \times NT$ where \mathbf{D} corresponds to the sample sharing and $\mathbf{e} \sim \mathcal{N}(0, \sigma_e^2 \mathbf{I})$ is the random error of dimension $NT \times NT$. Meta-Tissue uses the generalized least square to estimate β and $\text{var}(\beta)$. Next, the $\Omega = \text{var}(\hat{\beta})$ is replaced by $\text{var}_{new}(\hat{\beta}) = \text{diag}(\Omega^{-1}\mathbf{e})^{-1}$ to “uncorrelated” the $\hat{\beta}$ where \mathbf{e} is a vector of ones. Third, the “uncorrelated” $\hat{\beta}$ are used in the regular meta-analysis.

Meta-Tissue uses Metasoft (Han and Eskin, 2011) for meta-analysis which can perform with both fixed effect (FE) and random effects (RE) models. Fixed effect model assumes that there is one true effect size that underlies all the studies in the analysis. Random effect model assumes the effect sizes can vary by studies. We performed both analysis since we hypothesized eQTLs may have either fixed or random effect. Metasoft provides betas and standard error estimates. Meta-Tissue estimates the heterogeneity with I^2 , where $I^2 = 100\% \times (Q - \text{df}) / Q$ where Q is the chi-squared statistics and df is the degrees of freedom. Finally, Meta-Tissue computes an m -value which estimates the posterior probability of an eQTL being present in each condition by taking information across conditions to explicitly reveal the sharing pattern of eQTLs.

For each treatment condition, we filtered gene expression to retain genes with > 0.1 TPM in at least 20% of samples and ≥ 6 reads in at least 20% of samples. We normalized expression values across samples by TMM implemented in edgeR. After TMM normalization, we performed the inverse normal transformation for each gene expression profile. We estimated probabilistic estimation of expression

residuals (PEER) variables on normalized expression in order to remove any potential confounding factors. (Stegle et al., 2012)

We performed eQTL mapping on 60 hepatocyte cultures that passed both genotype and RNA-sequencing QCs. The genotype data was processed as described in Zhong et al. with 7,180,502 SNPs in total. (Zhong et al., 2020) There were 415 expression profiles across all conditions including baseline. Five gene expression profiles were not included in the analysis due to insufficient hepatocytes to conduct all drug treatments or inadequate/poor quality mRNA to conduct sequencing. We used 17,949 genes that were expressed in any conditions. We first regressed the top 10 PEER variables from the gene expression profiles leaving the expression residual. The number of PEER variables was chosen to optimize the number of detected eGenes in the baseline condition as described in Zhong et al. (Zhong et al., 2020) We then used Meta-Tissue linear mixed model to obtain the estimates of effects and standard error for each gene residual-cis SNP pair (restricted to SNP with 1Mb for the gene start position). We included additional covariates: sex, platform, batch and the first principal component calculated from genotype data to correct for potential known confounding effects following Zhong et al.

Treatment-by-treatment eQTL analysis:

We also performed treatment-by-treatment (TBT) analysis - which was conducted to find eQTLs in each condition separately. The p values were calculated from fitting multivariate linear regression of gene residual \sim genotype + sex + platform + batch + PC1. We used a hierarchical correction method to adjust the nominal p values and to call the eGenes and eQTLs as described in Zhong *et al.* Firstly, p values of all cis SNPs are adjusted for multiple testing for each gene using Benjamini and Yekutieli (BY) method as the locally adjusted p values. Secondly, the minimum BY-adjusted p values for all genes are corrected using Benjamini and Hochberg method (BH) as the globally adjusted p values (BY-BH p values). Lastly, for a chosen threshold (here we use, 0.05), we found the largest BY-BH p values under that threshold and the corresponding BY-adjusted p value. This BY-adjusted p-value is used as the threshold to call significant eQTLs. These results were compared to those found in the Cross-treatment eQTL analysis.

Identification of response QTLs (reQTLs):

We used a beta-comparison approach to identify reQTLs which are eQTLs with altered effect size after drug treatment. We used the beta estimates (β), standard deviation of beta estimates ($\text{var}(\beta)$) and correlation of beta estimates ($\text{cor}(\beta)$) that were computed in the Meta-Tissue linear mixed model to compare the beta estimates in drug treatment conditions with the baseline condition. We compared the beta estimates in two conditions using a z test similar to Kim-Hellmuth et al. Here β_2 , sd_2 are the estimates with drug treatment; β_1 , sd_1 are the estimates in the baseline condition; and cor_{12} is the correlation of β_1 and β_2 estimates from $\text{var}(\beta)$ of Meta-Tissue. We then calculated the Z statistics as:

$$Z \text{ statistics} = \frac{(\beta_2 - \beta_1)}{\sqrt{\text{sd}_1^2 + \text{sd}_2^2 - 2 * \text{cor}_{12} * \sqrt{(\text{sd}_1^2 * \text{sd}_2^2)}}}$$

We calculated the Z statistics for all eQTLs mapped in the Meta-Tissue fix effect model, random effect model and TBT analysis. To identify significant reQTLs, we randomly permute the expression across different conditions for each individual. This method maintains the relationship between genotype and expression. However, the effect size of the genotype is now randomly assigned with respect to each condition. We then compute the null z statistics after each permutation. We repeat the permutation 100 times and for each eQTL association test and calculate the empirical p value based on the null z statistics distribution using the qvalue R package (Dabney et al., 2010). We then calculate the q value across all empirical p values and used q value < 0.05 as the cutoff to select significant reQTLs. We performed the multiple-testing correction separately for each drug treatment condition.

Mapping (log fold change QTL) lfc_eQTL:

Here we used the log(CPM) values calculated with limma voom. We first adjusted the effects of batch and the sequencing platform in the data. We estimated any remaining confounding factors with SVA and regressed out these surrogate variables from the log(CPM) values. (Leek et al., 2012) We then calculated the difference of log(CPM) between drug each treatment and baseline representing the log fold-change (lfc) of gene expression and performed inverse normal transformation. We used normalized

lfc as the gene expression phenotype in eQTL analysis. We used Matrix eQTL to map lfc_eQTL after adjusting for the first genotype PCs and sex as covariates. We used hierarchical multiple test correction as described previously in the TBT eQTL analysis.

Enrichment of eQTLs in transcription factor binding sites (TFBS):

Using ENCODE transcription factor ChIP-Seq data from human liver tissue, we identified the number of eQTLs that overlap with the ChIP-Seq narrow peaks (representing transcription factor binding). We randomly sampled 1000 sets of null SNPs that were matched for LD score, minor allele frequency and distance to the nearest gene for each of the eQTL. We then calculated the average overlap between these null SNPs and ChIP-Seq narrow peaks across 1000 different null sets. We used the Fisher exact test to compute the odds ratio and p-value comparing the overlap of eQTLs with the overlap of null SNPs.

Fixation index (Fst) analysis:

We calculated the Fst for eQTLs using 1000 Genomes Yoruba people of Ibadan, Nigeria (YRI) and Utah Residents (CEPH) with Northern and Western European Ancestry (CEU) populations with the GCTA software (Yang et al., 2011). Fst measures the population differences in of SNP allele frequency, with higher values denoting large differences in frequency. We compared the Fst of reQTLs to the Fst of non-reQTLs with Wilcoxon rank sum test.

Acknowledgements

We would like to thank Drs. Alfred L. George, Jr, Eric Gamazon and Barbara Stranger for many useful discussions and comments. This work was supported by the National Institute of Health (NIH)/National Institute on Minority Health and Health Disparities (NIMHD) grant R01 MD009217 and U54 MD010723.

Competing Interest

There are no competing interest for the any author.

Author Contributions

M.A.P. and Y.Z. conceived this study and wrote the paper. Y.Z. performed the analysis. T.D., M.A.P, J.A. and C.A. curated the data.

Declaration of Interests

The authors declare that they have no competing interest.

References:

2018. Diversifying clinical trials. *Nature Medicine*, 24, 1779-1779.
- ALEKSUNES, L. M. & KLAASSEN, C. D. 2012. Coordinated regulation of hepatic phase I and II drug-metabolizing genes and transporters using AhR-, CAR-, PXR-, PPARalpha-, and Nrf2-null mice. *Drug Metab Dispos*, 40, 1366-79.
- BACOS, K., GILLBERG, L., VOLKOV, P., OLSSON, A. H., HANSEN, T., PEDERSEN, O., GJESING, A. P., EIBERG, H., TUOMI, T. & ALMGREN, P. 2016. Blood-based biomarkers of age-associated epigenetic changes in human islets associate with insulin secretion and diabetes. *Nature communications*, 7, 1-13.
- BARREIRO, L. B., TAILLEUX, L., PAI, A. A., GICQUEL, B., MARIONI, J. C. & GILAD, Y. 2012. Deciphering the genetic architecture of variation in the immune response to Mycobacterium tuberculosis infection. *Proceedings of the National Academy of Sciences*, 109, 1204-1209.
- BIRDWELL, K. A., DECKER, B., BARBARINO, J. M., PETERSON, J. F., STEIN, C. M., SADEE, W., WANG, D., VINKS, A. A., HE, Y. & SWEN, J. J. 2015. Clinical Pharmacogenetics Implementation Consortium (CPIC) guidelines for CYP3A5 genotype and tacrolimus dosing. *Clinical Pharmacology & Therapeutics*, 98, 19-24.
- BISWAS, M., SUKASEM, C., KHATUN KALI, M. S. & IBRAHIM, B. 2022. Effects of the CYP2C19 LoF allele on major adverse cardiovascular events associated with clopidogrel in acute coronary syndrome patients undergoing percutaneous coronary intervention: a meta-analysis. *Pharmacogenomics*, 23, 207-220.
- COOKSON, W., LIANG, L., ABECASIS, G., MOFFATT, M. & LATHROP, M. 2009. Mapping complex disease traits with global gene expression. *Nature Reviews Genetics*, 10, 184-194.
- DABNEY, A., STOREY, J. D. & WARNES, G. 2010. qvalue: Q-value estimation for false discovery rate control. *R package version*, 1.
- DE LEON, J., DINSMORE, L. & WEDLUND, P. 2003. Adverse drug reactions to oxycodone and hydrocodone in CYP2D6 ultrarapid metabolizers. *J Clin Psychopharmacol*, 23, 420-1.
- DEAVALL, D. G., MARTIN, E. A., HORNER, J. M. & ROBERTS, R. 2012. Drug-induced oxidative stress and toxicity. *Journal of toxicology*, 2012.
- GAY, N. R., GLOUDEMANS, M., ANTONIO, M. L., ABELL, N. S., BALLIU, B., PARK, Y., MARTIN, A. R., MUSHAROFF, S., RAO, A. S., AGUET, F., BARBEIRA, A. N., BONAZZOLA, R., HORMOZDIARI, F., CONSORTIUM, G. T., ARDLIE, K. G., BROWN, C. D., IM, H. K., LAPPALAINEN, T., WEN, X. & MONTGOMERY, S. B. 2020. Impact of admixture and ancestry on eQTL analysis and GWAS colocalization in GTEx. *Genome Biol*, 21, 233.
- GONG, H., SINGH, S. V., SINGH, S. P., MU, Y., LEE, J. H., SAINI, S. P., TOMA, D., REN, S., KAGAN, V. E. & DAY, B. W. 2006. Orphan nuclear receptor pregnane X receptor sensitizes oxidative stress responses in transgenic mice and cancerous cells. *Molecular endocrinology*, 20, 279-290.
- GONG, L., WHIRL-CARRILLO, M. & KLEIN, T. E. 2021. PharmGKB, an Integrated Resource of Pharmacogenomic Knowledge. *Curr Protoc*, 1, e226.
- GONG, Y., WANG, Z., BEITELSHEES, A. L., MCDONOUGH, C. W., LANGAEE, T. Y., HALL, K., SCHMIDT, S. O., CURRY, R. W., JR., GUMS, J. G., BAILEY, K. R., BOERWINKLE, E., CHAPMAN, A. B., TURNER, S. T., COOPER-DEHOFF, R. M. & JOHNSON, J. A. 2016. Pharmacogenomic Genome-Wide Meta-Analysis of Blood Pressure Response to beta-Blockers in Hypertensive African Americans. *Hypertension*, 67, 556-63.
- HAN, B. & ESKIN, E. 2011. Random-effects model aimed at discovering associations in meta-analysis of genome-wide association studies. *Am J Hum Genet*, 88, 586-98.
- HASIN, Y., SELDIN, M. & LUSIS, A. 2017. Multi-omics approaches to disease. *Genome biology*, 18, 1-15.

- HOFFMAN, G. E. & SCHADT, E. E. 2016. variancePartition: interpreting drivers of variation in complex gene expression studies. *BMC bioinformatics*, 17, 483.
- HOU, Y., HU, Q., HUANG, J. & XIONG, H. 2018. Omeprazole inhibits cell proliferation and induces G0/G1 cell cycle arrest through up-regulating miR-203a-3p expression in Barrett's esophagus cells. *Frontiers in Pharmacology*, 8, 968.
- JANCOVA, P., ANZENBACHER, P. & ANZENBACHEROVA, E. 2010. Phase II drug metabolizing enzymes. *Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub*, 154, 103-16.
- KIM-HELLMUTH, S., BECHHEIM, M., PÜTZ, B., MOHAMMADI, P., NÉDÉLEC, Y., GIANGRECO, N., BECKER, J., KAISER, V., FRICKER, N. & BEIER, E. 2017. Genetic regulatory effects modified by immune activation contribute to autoimmune disease associations. *Nature communications*, 8, 1-10.
- KLOTZ, L.-O. & STEINBRENNER, H. 2017. Cellular adaptation to xenobiotics: Interplay between xenosensors, reactive oxygen species and FOXO transcription factors. *Redox biology*, 13, 646-654.
- KNOWLES, D. A., BURROWS, C. K., BLISCHAK, J. D., PATTERSON, K. M., SERIE, D. J., NORTON, N., OBER, C., PRITCHARD, J. K. & GILAD, Y. 2018. Determining the genetic basis of anthracycline-cardiotoxicity by molecular response QTL mapping in induced cardiomyocytes. *Elife*, 7, e33480.
- KRANZLER, H. R., LYNCH, K. G., CRIST, R. C., HARTWELL, E., LE MOIGNE, A., LAFFONT, C. M. & ANDORN, A. C. 2021. A Delta-Opioid Receptor Gene Polymorphism Moderates the Therapeutic Response to Extended-Release Buprenorphine in Opioid Use Disorder. *Int J Neuropsychopharmacol*, 24, 89-96.
- LAMBA, J., HEBERT, J. M., SCHUETZ, E. G., KLEIN, T. E. & ALTMAN, R. B. 2012. PharmGKB summary: very important pharmacogene information for CYP3A5. *Pharmacogenetics and genomics*, 22, 555.
- LAMBA, J. K., LIN, Y. S., SCHUETZ, E. G. & THUMMEL, K. E. 2002. Genetic contribution to variable human CYP3A-mediated metabolism. *Adv Drug Deliv Rev*, 54, 1271-94.
- LEE, N., KIM, D.-K., HAN, S. H., RYU, H. G., PARK, S. J., KIM, K.-T. & CHOI, K. Y. 2017. Comparative Interactomes of VRK1 and VRK3 with their distinct roles in the cell cycle of liver cancer. *Molecules and cells*, 40, 621.
- LEEK, J. T., JOHNSON, W. E., PARKER, H. S., JAFFE, A. E. & STOREY, J. D. 2012. The sva package for removing batch effects and other unwanted variation in high-throughput experiments. *Bioinformatics*, 28, 882-3.
- LIN, Y., LAI, X., CHEN, B., XU, Y., HUANG, B., CHEN, Z., ZHU, S., YAO, J., JIANG, Q. & HUANG, H. 2011. Genetic variations in CYP17A1, CACNB2 and PLEKHA7 are associated with blood pressure and/or hypertension in She ethnic minority of China. *Atherosclerosis*, 219, 709-714.
- LIU, J., LU, Y. F., CORTON, J. C. & KLAASSEN, C. D. 2021. Expression of cytochrome P450 isozyme transcripts and activities in human livers. *Xenobiotica*, 51, 279-286.
- LIU, Y., ZHANG, C., LI, L., OU, B., YUAN, L., ZHANG, T., FAN, J. & PENG, Z. 2019. Genome-Wide Association Study of Tacrolimus Pharmacokinetics Identifies Novel Single Nucleotide Polymorphisms in the Convalescence and Stabilization Periods of Post-transplant Liver Function. *Frontiers in Genetics*, 10, 528.
- MANGRAVITE, L. M., ENGELHARDT, B. E., MEDINA, M. W., SMITH, J. D., BROWN, C. D., CHASMAN, D. I., MECHAM, B. H., HOWIE, B., SHIM, H. & NAIDOO, D. 2013. A statin-dependent QTL for GATM expression is associated with statin-induced myopathy. *Nature*, 502, 377-380.
- MARTELLA, E., BELLOTTI, C., DOZZA, B., PERRONE, S., DONATI, D. & LUCARELLI, E. 2014. Secreted adiponectin as a marker to evaluate in vitro the adipogenic differentiation of human mesenchymal stromal cells. *Cytotherapy*, 16, 1476-1485.
- MEHANNA, M., GONG, Y., MCDONOUGH, C. W., BEITELSHEES, A. L., GUMS, J. G., CHAPMAN, A. B., SCHWARTZ, G. L., JOHNSON, J. A., TURNER, S. T. & COOPER-DEHOFF, R. M. 2017. Blood pressure response to metoprolol and chlorthalidone in European and African Americans with hypertension. *J Clin Hypertens (Greenwich)*, 19, 1301-1308.
- MIMURA, I. 2019. Kidney aging: an irresistible slope. *Kidney international*, 95, 492-494.

- NÉDÉLEC, Y., SANZ, J., BAHARIAN, G., SZPIECH, Z. A., PACIS, A., DUMAINE, A., GRENIER, J.-C., FREIMAN, A., SAMS, A. J. & HEBERT, S. 2016. Genetic ancestry and natural selection drive population differences in immune responses to pathogens. *Cell*, 167, 657-669. e21.
- PAI, A. A., PRITCHARD, J. K. & GILAD, Y. 2015. The genetic and mechanistic basis for variation in gene regulation. *PLoS Genet*, 11, e1004857.
- PAZ, M. F. C. J., DE ALENCAR, M. V. O. B., DE LIMA, R. M. P., SOBRAL, A. L. P., DO NASCIMENTO, G. T. M., DOS REIS, C. A., COELHO, M. D. P. S. D. S., DO NASCIMENTO, M. L. L. B., GOMES JÚNIOR, A. L. & MACHADO, K. D. C. 2020. Pharmacological Effects and Toxicogenetic Impacts of Omeprazole: Genomic Instability and Cancer. *Oxidative Medicine and Cellular Longevity*, 2020.
- PERERA, M. A., CAVALLARI, L. H., LIMDI, N. A., GAMAZON, E. R., KONKASHBAEV, A., DANESHJOU, R., PLUZHNIKOV, A., CRAWFORD, D. C., WANG, J. & LIU, N. 2013. Genetic variants associated with warfarin dose in African-American individuals: a genome-wide association study. *The Lancet*, 382, 790-796.
- PRAKASH, C., ZUNIGA, B., SONG, C. S., JIANG, S., CROPPER, J., PARK, S. & CHATTERJEE, B. 2015. Nuclear receptors in drug metabolism, drug response and drug interactions. *Nuclear receptor research*, 2.
- RAUDVERE, U., KOLBERG, L., KUZMIN, I., ARAK, T., ADLER, P., PETERSON, H. & VILO, J. 2019. g: Profiler: a web server for functional enrichment analysis and conversions of gene lists (2019 update). *Nucleic acids research*, 47, W191-W198.
- RELLING, M. & KLEIN, T. 2011. CPIC: clinical pharmacogenetics implementation consortium of the pharmacogenomics research network. *Clinical Pharmacology & Therapeutics*, 89, 464-467.
- ROBINSON, M. D., MCCARTHY, D. J. & SMYTH, G. K. 2010. edgeR: a Bioconductor package for differential expression analysis of digital gene expression data. *Bioinformatics*, 26, 139-140.
- SAMEDY-BATES, L. A., OH, S. S., NUCKTON, T. J., ELHAWARY, J. R., WHITE, M., ELLIOT, T., ZEIGER, A. M., ENG, C., SALAZAR, S., LENOIR, M. A., MEADE, K., FARBER, H. J., SEREBRISKY, D., BRIGINO-BUENAVENTURA, E., RODRIGUEZ-CINTRON, W., BIBBINS-DOMINGO, K., KUMAR, R., THYNE, S., BORRELL, L. N., RODRIGUEZ-SANTANA, J. R., PINO-YANES, M. & BURCHARD, E. G. 2019. Racial/Ethnic-Specific Differences in the Effects of Inhaled Corticosteroid Use on Bronchodilator Response in Patients With Asthma. *Clin Pharmacol Ther*, 106, 1133-1140.
- SHEN, G. & KONG, A. N. 2009a. Nrf2 plays an important role in coordinated regulation of Phase II drug metabolism enzymes and Phase III drug transporters. *Biopharmaceutics & drug disposition*, 30, 345-355.
- SHEN, G. & KONG, A. N. 2009b. Nrf2 plays an important role in coordinated regulation of Phase II drug metabolism enzymes and Phase III drug transporters. *Biopharm Drug Dispos*, 30, 345-55.
- SHEPHERD, G., MOHORN, P., YACOUB, K. & MAY, D. W. 2012. Adverse drug reaction deaths reported in United States vital statistics, 1999-2006. *Ann Pharmacother*, 46, 169-75.
- SMYTH, G., RITCHIE, M. & THORNE, N. 2011. Linear models for microarray data user's guide. *Bioinformatics*, 20, 3705-3706.
- STEGLE, O., PARTS, L., PIIPARI, M., WINN, J. & DURBIN, R. 2012. Using probabilistic estimation of expression residuals (PEER) to obtain increased power and interpretability of gene expression analyses. *Nat Protoc*, 7, 500-7.
- SUL, J. H., HAN, B., YE, C., CHOI, T. & ESKIN, E. 2013. Effectively identifying eQTLs from multiple tissues by combining mixed model and meta-analytic approaches. *PLoS Genet*, 9, e1003491.
- WAGNER, G. P., KIN, K. & LYNCH, V. J. 2012. Measurement of mRNA abundance using RNA-seq data: RPKM measure is inconsistent among samples. *Theory in biosciences*, 131, 281-285.
- YANG, J., LEE, S. H., GODDARD, M. E. & VISSCHER, P. M. 2011. GCTA: a tool for genome-wide complex trait analysis. *The American Journal of Human Genetics*, 88, 76-82.
- YU, G., WANG, L.-G., HAN, Y. & HE, Q.-Y. 2012. clusterProfiler: an R package for comparing biological themes among gene clusters. *Omics: a journal of integrative biology*, 16, 284-287.

- ZANGER, U. M. & SCHWAB, M. 2013. Cytochrome P450 enzymes in drug metabolism: regulation of gene expression, enzyme activities, and impact of genetic variation. *Pharmacology & therapeutics*, 138, 103-141.
- ZHANG, H. F., ZHU, L. L., YANG, X. B., GAO, N., FANG, Y., WEN, Q. & QIAO, H. L. 2021. Variation in the expression of cytochrome P450-related miRNAs and transcriptional factors in human livers: Correlation with cytochrome P450 gene phenotypes. *Toxicol Appl Pharmacol*, 412, 115389.
- ZHONG, Y., DE, T., ALARCON, C., PARK, C. S., LEC, B. & PERERA, M. A. 2020. Discovery of novel hepatocyte eQTLs in African Americans. *PLoS genetics*, 16, e1008662.

Gene.stable.ID	Chromosome.scaffold.name	Gene.start..bp.	Gene.end..bp.	Gene.type	HGNC.symbol	length	Omeprazole-Baseline_lfc	Omeprazole-Baseline_p	Omeprazole-Baseline_FDR
ENSG00000004455	1	33007940	33080996	protein_coding	AK2	73056	0.1676122879403391	9.3929129689118e-18	1.95169374123176e-17
							0.2734398449179712	4.1208985773302e-40	1.16340395955488e-38
							0.0969634847242125	1.3638458163027e-07	1.92632402286308e-06
							0.0751646352263267	4.18299393948564e-05	0.000572141023557917
							0.1204673556707241	3.1126005001599e-10	4.19468589716615e-09
							0.0973385800965145	1.23558227935807e-07	9.35786890137062e-07
ENSG00000004478	12	2794953	2805423	protein_coding	FKBP4	10470	0.3738289273736135	4.3577143738173e-44	9.40932035810777e-42
							0.3450807412790775	4.5199127782827e-39	2.38585876733951e-37
							0.1325861860530062	2.4986985291266e-08	4.30232874463615e-07
							0.1095248176560633	3.95960695865888e-06	8.35039299550075e-05
							0.1389606322383037	6.1336298382306e-09	1.60281867466188e-07
							0.2376196120157461	1.06308095158184e-21	4.65217363614987e-20
ENSG00000004864	7	96120220	96322147	protein_coding	SLC25A13	201927	0.1101045534845775	3.9727998828515e-06	
							1.48322852244654e-05	0.4408691629479932	5.111350024406e-54
							3.52441191018217e-52	0.1328529524888044	2.7050521184712e-08
							6.894321315582e-07	0.1570589133790581	5.7186140665254e-10
							1.8982968104062e-08	0.17527412246849	1.64854777930248e-12
							8.2847502754043e-11	0.3049204836393391	9.8565276975257e-31
							1.98297977563945e-29		
ENSG00000005022	X	119468400	119471319	protein_coding	SLC25A5	2919	0.0995561723171887	2.21339029957173e-06	
							6.37972386253988e-06	0.4837845874505832	0.4964931705938e-74
							1.33047861293617e-71	0.0794547280090194	0.000135557100004385
							0.000843509624362648	0.1642884798796762	5.8617288105779e-14
							8.05799746279986e-12	0.2420497502828038	0.05698063189818e-27
							3.58627717898119e-24	0.3192595821681145	5.7284442354964e-42
							1.15759124365973e-39		
ENSG00000005486	7	75842602	75888926	protein_coding	RHBDD2	46324	0.2149604420125182	9.845747596422e-20	3.63823866826806e-19
							0.21592488847886	2.05398312109947e-20	2.07920747521824e-19
							0.1713561259827844	4.96054143255385e-14	2.5887565671769e-12
							0.0902721871041834	4.86905184985879e-05	0.000650885715873647
							0.1662903717607293	7.9476600177697e-13	2.25261598223634e-11
							0.16842719857102	1.25544491754005e-13	2.21752566557328e-12
ENSG00000007923	1	6634168	6701924	protein_coding	DNAJC11	67756	0.1927491561409974	1.1761725223604e-37	2.96983144317524e-35
							0.1720230845469164	3.951324922517e-31	1.02656325482443e-29
							0.0730899599257979	5.8762505656478e-08	1.42117612517814e-06
							0.0474832743990277	0.000486154800030612	0.00406975047269044
							0.1022495533947083	6.3107672577725e-13	2.1757132427263e-11
							0.0590262786471927	1.45620827965021e-05	7.40171901751081e-05

ENSG00000015475	22	17734138	17774770	protein_coding	BID
40632	0.2326920944374887	9.6572594297006e-14	5.10481466332911e-13		
0.4822036046115651	4.6100487202589e-44	9.85324454601354e-43			
0.1421742271436392	6.7437355662248e-06	2.77575387332589e-05			
0.1528943455199855	5.32286074612491e-07	1.6298792745778e-05			
0.1106290174285010	0.000271309967036835	0.00157011068962364			
0.3874435206111145	5.08914941602968e-32	5.46785232774665e-30			
ENSG00000021461	7	99828013	99866102	protein_coding	CYP3A43
38089	0.5138643418543391	4.9927553212523e-06	4.42120263391613e-06		
1.59464517838854	2.4465681037867e-41	1.29203676233536e-39			
0.9319103420436571	7.74874344749867e-17	1.61205172595158e-15			
1.11971145900383	1.61663149333402e-23	1.57409387716567e-20			
1.52450142793536	2.88746348815431e-38	2.99891957879707e-35			
1.81386264046515	2.82829449100245e-50	9.17958330735984e-48			
ENSG00000023330	3	52198086	52214327	protein_coding	ALAS1
16241	1.63433938941389	2.03472681205645e-59	1.86464758853103e-56		
2.37309891300395	7.17307790683018e-95	1.86248967850846e-91			
0.7461211296948677	5.2705788662895e-18	7.4217743554299e-16			
0.8390894470326461	1.77021011084901e-21	1.53211685093982e-18			
1.23919600564185	1.58648539901314e-39	2.05965466926881e-36			
1.7941901255082	7.58538921406728e-68	6.95133991564437e-65			
ENSG00000023839	10	99782732	99852192	protein_coding	ABCC2
69460	0.3597782095425656	6.05824763581213e-23	9.63075917533848e-22		
0.9291272317107857	7.45175818359265e-90	1.1609094074219e-86			
0.3105901246524373	6.362016228722e-18	3.90678517811903e-16			
0.3653207672504951	1.61124402189697e-23	1.57409387716567e-20			
0.6203135847177179	7.78466796194043e-53	3.81088355447675e-49			
0.6093406061488123	3.39379653704958e-52	1.28955990855355e-49			
ENSG00000023909	1	93885205	93909456	protein_coding	GCLM
24251	0.8061372284410411	1.6565355527856e-58	1.43373152093594e-55		
0.6324987154402933	5.996469627748e-41	1.86308637983617e-39			
0.2763435907860397	1.2668102587714e-11	2.11587107699582e-09			
0.2030783628224931	3.5372844759465e-06	3.43481033958909e-05			
0.3667941815212414	3.889104399364e-17	5.46998685950153e-15			
0.2135520445833633	3.49866231875845e-07	2.4452965573772e-06			
ENSG00000044459	9	17134982	17503923	protein_coding	CNTLN
368941	0.2949839460490811	1.51072915357924e-13			
9.42557047801803e-13	1.10569975062811	1.92939297881897e-96			
1.00193377390069e-92	0.2612978279709143	5.411590083431e-11			
1.11675538848132e-09	0.4376761518918115	7.1030588753324e-26			
8.08735049289821e-23	0.5025379458382543	5.9088045373296e-32			
2.43227506907417e-29	1.00120189725381	3.98891837162092e-86			
1.03572265519137e-82					
ENSG00000058600	16	22297375	22335103	protein_coding	POLR3E
37728	0.2847384415413085	9.3016067533627e-32	2.45055631726959e-30		
0.2716590545807961	1.08749486235492e-29	2.27410502827212e-28			
0.0854767379315655	0.000108758686181555	0.000701984442711925			
0.1200357952052728	3.6246182567088e-08	3.64926590426125e-06			
0.0699360874344110	0.00164067721114153	0.00726345844625571			
0.1037060359070513	0.00636913522913e-06	1.74177109549032e-05			
ENSG00000060762	6	166364919	166383013	protein_coding	MPC1
18094	0.1644377194329711	1.14424228998838e-06	3.41824556773328e-06		
0.4617966902382741	1.24217118830412e-35	4.18869803952163e-34			
0.2446421445101639	9.51103894842097e-13	4.02642597221332e-11			

	0.1198710169162260	.000352793342808358		0.00317041755860019
	0.1636604817796311	.41749276051737e-06		1.62615020000737e-05
	0.4156611098601992	.31388582833932e-30		2.1457159118868e-28
ENSG00000065054	16	2025356	2039026	protein_coding SLC9A3R2
	13670	0.5175415713987878	.61630082563268e-33	3.8908217554357e-31
	0.3333384153480434	.85318708795208e-16		3.47143258233266e-15
	0.2222104661714012	.5473988250452e-08		4.37069672856599e-07
	0.2519838025112644	.0722398311983e-10		4.20141882981711e-08
	0.2141295347623611	.00443647800919e-07		1.57267496391007e-06
	0.1297432363036060	.000976336659079457		0.00325494303697814
ENSG00000065057	16	2039815	2047866	protein_coding NTHL1 8051
	0.3047400147813531	.54292642241284e-08		5.75466859822113e-08
	0.5807906717825759	.95500251532457e-25		1.44403151011398e-23
	0.2164848011899434	.54104330362015e-05		0.000329193996018211
	0.28574484018114	1.0513759666791e-07		4.42600769020917e-06
	0.2541236462332842	.26664719505507e-06		2.4711054339932e-05
	0.22782636304394	1.84637242429504e-05		9.23126957576778e-05
ENSG00000065833	6	83210389	83431071	protein_coding ME1
	220682	0.5365939395106741	.70000472873793e-29	
	5.55227959517992e-28	0.6293809819934777	.44623020635025e-38	
	3.01544406188472e-36	0.3463580305309331	.60304628642901e-14	
	9.14793336859983e-13	0.25444646365071	1.07528041215143e-08	
	6.83746675139066e-07	0.1977060862803278	.15950236443832e-06	
	7.5217093097979e-05	0.7517430981768861	.01905826191036e-49	
	3.23998135965337e-47			
ENSG00000069345	16	46955362	46973788	protein_coding DNAJA2
	18426	0.2653057188442933	.62278791913802e-39	3.48391438223773e-37
	0.2221337173511291	.06450787581582e-29		2.22902798351272e-28
	0.1242010323885711	.5714264712921e-11		5.26777852583356e-10
	0.0792705593772434	1.29103194778839e-05	0.000221611603297693	
	0.1004467741511554	.75568450938211e-08		8.04438751049553e-07
	0.1690772147705113	.4687112396376e-19		1.13527421013265e-17
ENSG00000074410	15	63321378	63382161	protein_coding CA12
	60783	1.10078704977037	2.80537301688933e-31	1.09536105839897e-29
	1.7737938310828	1.75571480690453e-63		4.79864578539749e-61
	0.4234870520722871	.20215372788799e-06		1.36404609808937e-05
	0.5505138263478084	.97328548255172e-10		5.03109185277099e-08
	0.9513979987797721	.43127380071322e-24		5.06768512302527e-22
	1.5709668101864	7.0070926995442e-54		3.03231936572775e-51
ENSG00000075240	22	46576012	46679790	protein_coding GRAMD4
	103778	0.3178356691745611	.8997295505153e-20	
	2.35636040346162e-19	0.43078832152649	1.98487999624749e-33	
	5.71579398549715e-32	0.2691167541713251	.18450873097842e-15	
	8.0582801396999e-14	0.1712864506449881	.96204616214034e-07	
	7.33014799999623e-06	0.1459209408754999	.21960680020576e-06	
	8.34586021733908e-05	0.2395992825504116	.72748170105721e-13	
	1.09174413979969e-11			
ENSG00000079999	19	10486120	10503741	protein_coding KEAP1
	17621	0.3581860079261012	.3284258258774e-37	1.73562420771981e-35
	0.2960547589626951	.07855337793332e-27		1.94702005502007e-26
	0.13526416347358	9.59918154459435e-08		1.42153659014482e-06
	0.1093069813076671	.56419098233441e-05		0.000257595468433274
	0.1180063844805993	.60878886794509e-06		3.7012061733849e-05
	0.27275174968364	2.06010219989934e-24		1.22031681263239e-22

ENSG00000080824	14	102080738	102139699	protein_coding	HSP90AA1
58961	0.28118042107981	1.74607539600275e-26	4.13405905688858e-25		
0.1987099703850395	.71905074545289e-15	3.74926009278464e-14			
0.0840989680995499	0.000579904705819743	0.00290399723946184			
0.1050499139502412	.05858651636621e-05	0.000321672210014737			
0.1714226697949061	.21155728768742e-11	4.91532577731312e-10			
0.2194070685744578	.20824643069955e-18	2.32925812648212e-16			
ENSG00000085563	7	87503633	87713323	protein_coding	ABCB1
209690	0.30039007609087	3.15943327168772e-15			
2.3039235838842e-14	1.06510033550032	2.72757250380914e-97			
2.12464260184213e-93	0.17111114565408	3.42281359510773e-06			
3.43804081226198e-05	0.2595648075090365	.79049579214995e-12			
1.03689809133223e-09	0.3739838512491121	.13429320940624e-21			
2.76111779833434e-19	0.8800545948549215	.36490965116489e-78			
8.35799274554978e-75					
ENSG00000086696	16	82035004	82098534	protein_coding	HSD17B2
63530	0.5988134235296781	.69049646190423e-29	5.53282444958109e-28		
0.6171788758826915	.84412709994524e-31	1.35484607276855e-29			
0.1629724489842120	.000823529749678892	0.00392227758185492			
0.1779524974871640	.000283030881148337	0.00268207913467758			
0.2016412752622694	.41678881619869e-05	0.000328758494828282			
0.5700925758193731	.82810798821965e-27	1.36983226097669e-25			
ENSG00000087842	X	15384799	15493564	protein_coding	PIR
108765	0.7567956472559581	.2370943057589e-33			
6.06059502811884e-32	0.8737936530896724	.98165295606785e-42			
2.76189222073242e-40	0.27425503610183	1.6385678613278e-06			
1.78014286691952e-05	0.3103691211508617	.5061972872151e-08			
3.31272089341428e-06	0.3235313667506372	.47758504677553e-08			
4.55168601930613e-07	0.3958823905641431	.0032356648609e-11			
1.37825471101128e-10					
ENSG00000090013	19	40447789	40465840	protein_coding	BLVRB
18051	0.7114608750272351	.04300166870288e-52	5.60307689542146e-50		
1.00684146606792	1.77116953970353e-83	1.97093216136009e-80			
0.3221924104304223	.17556886392426e-15	2.01106452565349e-13			
0.3088896477970234	.34992450795012e-14	1.27863158319538e-11			
0.37625212373907	2.28409970744693e-19	4.04363515253588e-17			
0.3246938326072282	.04086619112938e-15	4.43705015318506e-14			
ENSG00000090273	1	26900238	26946862	protein_coding	NUDC
46624	0.2123048725844183	.5658530302573e-15	2.58383369108737e-14		
0.2297781148023672	.60834457714895e-17	2.04300654436418e-16			
0.1230201430796552	.47497979219147e-06	2.58776578406382e-05			
0.0944056498713257	0.000294168826598265	0.00275909461142346			
0.1065793099466684	.92482959424736e-05	0.000361393877761562			
0.1440407816802734	.1835163804815e-08	3.42845879492485e-07			
ENSG00000095539	10	100969518	100985871	protein_coding	SEMA4G
16353	0.2364274279747441	.7519268762478e-07	5.78645962788047e-07		
0.44222083095506	7.88344606787902e-21	8.27045160212035e-20			
0.19237342583377	1.72779592074035e-05	0.000141224200677932			
0.1594461138610810	.000371981634025982	0.00331148678656616			
0.2733888256162772	.29517751938585e-09	5.56955927951903e-08			
0.5059601389480663	.66861580307077e-26	2.49578015703229e-24			
ENSG00000096384	6	44246166	44253888	protein_coding	HSP90AB1
7722	0.3929687393933981	.3964142000507e-53	9.06447367607908e-51		
0.2099333510891843	.22525414391474e-20	3.21473028202481e-19			

	0.1010650306896113	.12814770859028e-06	3.16656355764314e-05		
	0.11204769023303	2.93241489136616e-07	1.00184411387266e-05		
	0.1625199792294693	.80279866055689e-13	2.25261598223634e-11		
	0.2583024346291941	.3781192839691e-28	1.13596403835738e-26		
ENSG00000099817	19	1086579	1095380	protein_coding	POLR2E
	8801	0.1528491535929317	.48334778234998e-16	5.84083542591334e-15	
	0.2253630877105437	.03828939562224e-30	1.49794413243714e-28		
	0.0881020295766621	1.52080171888167e-06	1.66597888749611e-05		
	0.1056921527653831	.17108300600757e-08	7.38635714598863e-07		
	0.10240406491112	3.63151083949842e-08	6.3639265881379e-07		
	0.0695018710933990	.000135656353484662	0.00055469562491799		
ENSG00000100116	22	37807905	37817176	protein_coding	GCAT 9271
	0.2814939909369045	.1461255898394e-08	1.8020114759296e-07		
	0.9112063522882619	.32658998737192e-53	1.14408618435643e-50		
	0.2204941317352191	.57787320626014e-05	0.000130199611654273		
	0.1938014076625640	.000152973390725848	0.0016444181595384		
	0.3216232420197917	.13027529246302e-10	1.96606298727932e-08		
	0.3711792994681591	.16302996985772e-12	1.79572288408458e-11		
ENSG00000100242	22	38734725	38794143	protein_coding	SUN2
	59418	0.2217866885924714	.95791085458588e-21	6.4689525296142e-20	
	0.2894819356286842	.67418933838345e-32	6.90898767871903e-31		
	0.1915846356241721	.18803755164186e-16	9.49150616257878e-15		
	0.0746544529413624	0.000823113738055366	0.00617394748443166		
	0.1035495088642554	.5331672566952e-06	4.53578758458925e-05		
	0.16041644284602	2.03597678269433e-12	3.04985406707644e-11		
ENSG00000100292	22	35380361	35394214	protein_coding	HMOX1
	13853	0.6644434266754214	.80457849599441e-24	8.64324808188186e-23	
	0.7353257466296792	.25789183451853e-28	4.31074716788777e-27		
	0.2334240231812930	.000149568699392386	0.000917374318044872		
	0.1981950988292690	.00131251651681252	0.00890967094353908		
	0.2183000845703430	.000432613727582094	0.0023408432963123		
	0.3091034035869866	.28938275114732e-07	4.19984114359726e-06		
ENSG00000100325	22	29788608	29838304	protein_coding	ASCC2
	49696	0.1153256538800046	.06956061101518e-15	4.28833037455807e-14	
	0.19871817250306	4.07386889845156e-36	1.43590053323477e-34		
	0.0679129031090868	2.11849087615972e-06	2.24822679561936e-05		
	0.0482923876368053	0.000720195659965786	0.0055626813022345		
	0.0662236121738093	4.52863516944884e-06	4.53416499388454e-05		
	0.0691788106282134	1.39451539953751e-06	8.68311567122096e-06		
ENSG00000100418	22	41598028	41621096	protein_coding	DESI1
	23068	0.0823898144148298	1.45711459745828e-07		
	4.83810492621539e-07	0.2542836903098532	.70254725283501e-46		
	2.10514918259583e-44	0.1016564418041431	.08198125828984e-10		
	3.07594635454333e-09	0.0796785918446341	3.55826211038873e-07		
	1.17694618721329e-05	0.0816191479541866	2.14636386527445e-07		
	3.08387172927688e-06	0.1190650731470737	.15074196129432e-14		
	1.30141832961453e-12				
ENSG00000100439	14	22598237	22613215	protein_coding	ABHD4
	14978	0.42953086848989	4.50500240307694e-37	3.21942350630898e-35	
	0.47821127132763	1.15236539712853e-43	7.29784574059567e-42		
	0.1754351138197331	.04742834263349e-08	1.98514430047289e-07		
	0.1891513101516019	.26116386997319e-10	8.53725869410132e-08		
	0.2234696830007539	.84402697433367e-13	5.27010639976441e-11		
	0.3119874149141672	.04893907977269e-22	9.64363200114162e-21		

ENSG00000100591	14	77457870	77469474	protein_coding	AHSA1
11604	0.2786117329785019	.92111581738932e-35	5.52003797568244e-33		
0.1657654316451715	.93438223608363e-15	3.8796366284493e-14			
0.1317717917495642	.56122210476795e-10	6.71738706568686e-09			
0.0657620742065586	0.00134582155753817	0.00906263588249948			
0.1048398665998184	.77338687111788e-07	6.17646130109181e-06			
0.1317776614846012	.59909958373404e-10	2.93415742137627e-09			
ENSG00000101049	20	43558968	43588237	protein_coding	SGK2
29269	0.6535021458431516	.26036831095759e-26	1.37949473714863e-24		
1.43222596373988	3.67746269641587e-81	3.81941275649753e-78			
0.6113579995962421	.90605209033264e-23	3.95925140203896e-21			
0.4386043341391071	.9202182618605e-13	4.90411152484011e-11			
0.5946022233367864	.53936274751709e-22	1.12251955942173e-19			
1.21802682975977	3.06638672499783e-66	2.38856193943706e-63			
ENSG00000101084	20	36605734	36612557	protein_coding	C20orf24
6823	0.3677013697883352	.35086486188306e-15	1.7423465120493e-14		
0.4871232727236771	.88313093030179e-24	2.67188495110852e-23			
0.1964643092412531	.1877302411778e-05	0.000101780249875187			
0.1925138465911111	.91595222423637e-05	0.000303648216697643			
0.1667419021328060	.000217150138310575	0.00129665849165981			
0.1630447293589270	.000265889136260416	0.00101377553935414			
ENSG00000103197	16	2047465	2088720	protein_coding	TSC2
41255	0.0584554028811590	.000514865096246605	0.00108569075993853		
0.1240899590867557	.26095190552164e-13	3.9524238202698e-12			
0.0662184690592742	8.03047167408453e-05	0.000537169249508642			
0.0826513844077531	.10825771151192e-06	2.93631749789867e-05			
0.10648987441123	6.26664506512967e-10	1.74335827624384e-08			
0.0672037896278335	6.33559252680597e-05	0.000281122745585617			
ENSG00000103423	16	4425805	4456775	protein_coding	DNAJA3
30970	0.2543565270259011	.08839737571791e-37	8.65109322260683e-36		
0.3134673734381991	.90452702420489e-51	2.046250104144e-49			
0.1474549520946319	.47927847466204e-16	6.50562464126696e-14			
0.0852652971740673	1.92897537350261e-06	4.5810224609447e-05			
0.1725639136916014	.18389038765723e-20	8.25073776573569e-18			
0.0578826265667498	0.00106344623083022	0.00351228086285859			
ENSG00000104131	15	44537057	44563029	protein_coding	EIF3J
25972	0.2860263068405891	.23314561904276e-32	5.42688576244836e-31		
0.3267086546927634	.03060015890009e-40	1.90859330928585e-38			
0.1192605293389626	.75976737341747e-08	1.04371076224451e-06			
0.12556532585533	1.6456138798376e-08	9.82261250344446e-07			
0.1187269790063099	.99062342636733e-08	1.56583422896757e-06			
0.1693832760812575	.57187734053816e-14	1.02848669535834e-12			
ENSG00000104419	8	133237171	133302022	protein_coding	NDRG1
64851	0.9000629750912342	.66904550524181e-31	1.04475024940106e-29		
0.1988348283112720	.00482751901308241	0.00880757919016405			
0.4249436504560872	.91197118702949e-09	6.21446563325102e-08			
0.2243907987853260	.00149421795136491	0.00981797615534119			
0.2741235837031660	.000119601604778923	0.000780919279484843			
0.2725706166398410	.00011919188840461	0.000467085261022104			
ENSG00000104687	8	30678061	30727926	protein_coding	GSR
49865	0.29991342717856	1.59750075730028e-37	1.20819093357468e-35		
0.3464882334841161	.28736083419649e-46	1.01806063126635e-44			
0.1301628581989639	.72552167514826e-10	2.28912706874694e-08			
0.0723260956528442	0.000577702358861251	0.0046704852354434			

	0.18461329517965	4.81046070702365e-17	5.94779105989852e-15	
	0.1089438601908232	.52225630184982e-07	1.79836297146537e-06	
ENSG00000104953	19	2977446	2995184	protein_coding TLE6
	17738	1.03289888409969	1.80622264235978e-16	1.49121052174472e-15
	1.81911262916619	4.20609082515025e-41	2.1413950642162e-39	
	0.45937895144699	0.000141179475954865	0.000873138172251228	
	0.7562251655849897	7.79236745261097e-10	7.40227393562355e-08	
	0.7284087155871493	4.4182416241325e-09	7.9202627217483e-08	
	1.38550561179542	6.59271666505318e-27	4.66854240567561e-25	
ENSG00000105220	19	34359480	34402156	protein_coding GPI
	42676	0.1843154296412383	.8209020302269e-12	2.0784159472383e-11
	0.2347370719001424	.30339344831853e-18	3.60056748288692e-17	
	0.0811540200685563	0.0015999704891335	0.00681968269499613	
	0.1179112138681445	.91248562743909e-06	0.000117638076104564	
	0.0975758222976868	0.000179684232050455	0.00110078672871177	
	0.1295154099402796	.1461521596247e-07	4.10771791054454e-06	
ENSG00000105398	19	47870466	47886397	protein_coding SULT2A1
	15931	0.4880253972503431	.59255420494192e-09	6.60729745906529e-09
	0.8215969289658552	.22618680170243e-22	2.63940366694994e-21	
	0.67310287607423	2.81644686031041e-16	2.15085419788117e-14	
	0.3060134142987	0.000121297139561348	0.00136834767358887	
	0.3298597150655243	.87177517688338e-05	0.000293806066637438	
	0.9910310760954651	.51949795229743e-30	1.42603967462901e-28	
ENSG00000105699	19	35248330	35267964	protein_coding LSR
	19634	0.1817407077892991	.56750838751793e-11	7.95187664250792e-11
	0.3680319532847142	.52488483951162e-36	9.02183048503476e-35	
	0.2077850156280491	.69703616333213e-14	9.61386414129134e-13	
	0.1713426025170961	.80023497377625e-10	2.1087113275534e-08	
	0.1552194708315147	.55060965970686e-09	1.59175842880343e-07	
	0.2919488208597372	.31526198265717e-25	1.46623847267545e-23	
ENSG00000106258	7	99648194	99679998	protein_coding CYP3A5
	31804	0.4561630086121322	.6297404173911e-13	1.60598690562665e-12
	1.41151319378472	1.35808274537606e-74	9.19894395226677e-72	
	0.7552581674103231	.52607833927338e-30	5.94369361188498e-28	
	0.6091320246504671	.9898388130182e-21	1.63156309831634e-18	
	0.8696825349815041	.87005558339023e-37	1.82084974585228e-34	
	0.9483540947577222	.16654653188767e-43	5.03770573436985e-41	
ENSG00000106305	7	6009245	6023834	protein_coding AIMP2
	14589	0.3148179935458496	.00797057344206e-16	4.72718048301282e-15
	0.5755910478014694	.45386583636566e-42	2.48698121378999e-40	
	0.2212454227784635	.33946453830931e-09	1.08311872450939e-07	
	0.1705333438716946	.19949589688158e-06	0.000122565922052688	
	0.2255597119649993	.74575686722329e-09	8.53145412784674e-08	
	0.1849007140032779	.26469937876848e-07	5.97164880520621e-06	
ENSG00000106853	9	111549722	111599855	protein_coding PTGR1
	50133	0.5307251511413561	.41802899020811e-34	7.75139425910603e-33
	0.6620776239135023	.3083468601615e-48	2.89554695137393e-46	
	0.1627574562401583	.18463875102426e-05	0.000242370006357992	
	0.1551769154063037	.75614332521643e-05	0.000950692028824129	
	0.2936702875098324	.23383264194326e-13	2.47003872795503e-11	
	0.2801505277117192	.48591427648614e-12	3.69895496784887e-11	
ENSG00000108671	17	32444261	32483318	protein_coding PSMD11
	39057	0.3143298968046761	.60230006694105e-52	8.05233314286279e-50
	0.2784169076292735	.35591489531205e-44	3.47665825641943e-42	

	0.0869622346874177	8.1625827588656e-07	9.60459794564707e-06		
	0.0591728699503919	0.000752065440261808	0.00573772159345676		
	0.1008070082720231	.77012878296915e-08	3.37406432117729e-07		
	0.2047813393460481	.65933431324122e-27	1.25489171194102e-25		
ENSG00000109084	17	28319095	28328685	protein_coding	TMEM97
	9590	0.1790789702606230	.00504242280024323	0.00908160749190628	
	0.8987569947063111	.34245721332744e-36	4.89792527551011e-35		
	1.10644585206117	2.66820078149638e-50	8.31357999498642e-47		
	0.33700580805025	1.90055414905858e-07	7.11748391542876e-06		
	0.3592293384168883	.51954004902578e-08	6.18859079275086e-07		
	0.7319092498192351	.169558679793e-26	8.1341761930782e-25		
ENSG00000109814	4	39498755	39528311	protein_coding	UGDH
	29556	0.63482373058091	1.960824799607e-46	4.69964454662729e-44	
	0.7539565179901972	.89808476317575e-59	5.78836699045064e-57		
	0.2829528810331247	.47218747875204e-13	3.21572399810713e-11		
	0.2874201901032164	.38402164064404e-13	1.03482838090293e-10		
	0.4829261674805532	.63247840055676e-30	1.64045524009095e-27		
	0.6208524887746522	.70645730546705e-45	6.85003015604018e-43		
ENSG00000110244	11	116820700	116823306	protein_coding	APOA4 2606
	0.3822964437692466	.10335491424154e-07	1.88397396887198e-06		
	0.3360634708363	1.06677780521272e-05	2.80069622976222e-05		
	0.3477729113347844	.8404854848249e-06	4.63775666470401e-05		
	0.31360103936026	3.88611941816709e-05	0.000538149817027778		
	0.2373973561326790	.00183803245286874	0.00798513875717851		
	0.2739741797531680	.000295676398724743	0.00111804432420698		
ENSG00000110958	12	56663341	56688408	protein_coding	PTGES3
	25067	0.2953972083625835	.05108484927402e-48	1.43074274303345e-45	
	0.1702067505852873	.31913305504056e-20	3.30196512544552e-19		
	0.1364063484575393	.96516312118813e-14	2.08693500895236e-12		
	0.0768593264028938	1.32583550922896e-05	0.000225739796702491		
	0.0715404332155742	5.30124361119588e-05	0.000386286595972032		
	0.13362652926143	1.17078670999515e-13	2.07269160852438e-12		
ENSG00000111726	12	22046174	22065674	protein_coding	CMAS
	19500	0.28480440405634	8.24725904018217e-27	2.03180296603326e-25	
	0.3672514022163875	.3538939219761e-40	2.50475415647044e-38		
	0.1246105191310875	.19955500142715e-07	6.38831761571243e-06		
	0.1055946053626662	.10297982799205e-05	0.000326969288825232		
	0.1419613295958631	.70515903560284e-08	3.26347329430671e-07		
	0.2867926241235522	.689212093809e-27	1.95772127146964e-25		
ENSG00000112208	6	57172326	57189833	protein_coding	BAG2
	17507	0.4652224861018081	.40192214317467e-39	1.43687796503409e-37	
	0.5314683339895522	.39882100493461e-48	2.12336547931115e-46		
	0.1805289884486921	.40399877949928e-08	2.58239633834939e-07		
	0.1436234998296385	.9519171483906e-06	0.000118271578131093		
	0.20340179859177	2.93908643483953e-10	8.7049482069135e-09		
	0.27574216792248	3.4961529403819e-17	9.23162146749316e-16		
ENSG00000113013	5	138554882	138575444	protein_coding	HSPA9
	20562	0.1845179911107473	.79358858445248e-21	5.02126733705906e-20	
	0.4057837171332233	.22426251118499e-69	1.35836362300422e-66		
	0.0625288040625627	0.000687265217245673	0.00336272136289897		
	0.1278017303889511	.5550585908846e-11	2.47206712116237e-09		
	0.2029407925405811	.71384416364798e-24	5.9333284945493e-22		
	0.0981840364504905	1.34428392678159e-07	1.01269822511269e-06		

ENSG00000114480	3	81489699	81762161	protein_coding	GBE1
272462	0.3337056212291397	4.8554263079369e-22			
1.06499788717018e-20	0.21573796227937	1.21125437457263e-10			
5.31104190865946e-10	0.2592388219220221	5.9094670954827e-14			
9.11226426031342e-13	0.1192565350142920	0.000281324321870126			
0.00267078099354948	0.1772038239130661	0.0788304798984e-07			
1.67234826331714e-06	0.3100215419614031	5.5999577035888e-19			
5.30636989223165e-18					
ENSG00000114686	3	131462212	131502983	protein_coding	MRPL3
40771	0.3023788438128214	8.1460303914818e-41	5.76974621129919e-39		
0.2551185795655221	4.0686253941765e-31	3.4086332039794e-30			
0.0831045890367408	3.18140566198775e-05	0.000242243982444316			
0.1091187772733616	9.2281728091948e-08	3.06393665964331e-06			
0.11936436596288	4.84915387551197e-09	1.07155983300143e-07			
0.0768949276157338	0.000116535633235382	0.000484393978168094			
ENSG00000115053	2	231453531	231483641	protein_coding	NCL
30110	0.2863035552426933	6.2129356763279e-40	4.00114414823768e-38		
0.1953668723789126	7.4083669719408e-22	7.72740948532646e-21			
0.0860777664924068	7.33280514877146e-06	6.66498082921299e-05			
0.0765948192257699	6.81509995806854e-05	0.00085969588863765			
0.1135087960615456	6.65634049496062e-09	1.42248461688603e-07			
0.1394547959244841	1.13078180021082e-12	1.75462646070561e-11			
ENSG00000115484	2	61868089	61888804	protein_coding	CCT4
20715	0.2244562528483831	1.59189971222059e-35	1.00813843970262e-33		
0.1701248839017758	0.08348469245246e-23	9.93943236177718e-22			
0.0495856408880782	0.00219540002072362	0.00890912657537206			
0.0609846182746940	0.000186343514941165	0.0019289339662913			
0.1045093933150193	8.0639337242017e-10	1.10840752054082e-08			
0.0725403360835859	8.66018722026952e-06	4.59840002401428e-05			
ENSG00000115541	2	197499994	197503457	protein_coding	HSPE1 3463
0.2045924761935755	5.6733583598799e-11	2.68441736270061e-10			
0.2785635856809492	5.357461308476e-18	2.15753080133668e-17			
0.1073452082137720	0.000419321017320115	0.00220952397531619			
0.1394111946701675	7.4560242359501e-06	0.00011549772923508			
0.1657496127687739	9.25685031031158e-08	1.46408599984106e-06			
0.1594532904076812	1.16169240826688e-07	1.5685610632692e-06			
ENSG00000115866	2	135906677	135986100	protein_coding	DARS
79423	0.1964656380943891	4.1069429293895e-18	1.44491823732386e-17		
0.1623375336031511	1.47511998184294e-13	8.53673632880056e-13			
0.0753862823845370	0.000387639368427439	0.00207170968121134			
0.1154182971942328	8.9125812725506e-08	3.84769195456963e-06			
0.1199111572772273	3.2704087727499e-08	5.87664056996225e-07			
0.1403832101582769	6.1417785946697e-11	1.14773392239568e-09			
ENSG00000116120	2	222570536	222656337	protein_coding	FARSB
85801	0.3623174321582357	6.8408280015442e-31	2.84347567562009e-29		
0.3223421789411081	3.33351759905789e-25	2.05691788868543e-24			
0.0934250228115276	0.00111335576957114	0.00505562618453061			
0.0971079596638127	0.000747914838844173	0.00570885118782624			
0.1995693924709091	5.909814400447e-11	6.30684474668103e-10			
0.1115060070291750	0.000105810725916912	0.00044419975722435			
ENSG00000117155	1	84643707	84690803	protein_coding	SSX2IP
47096	0.1681513764704332	6.7902716335425e-08	9.75153368642428e-08		
0.5134548148522738	1.9426069775922e-50	8.02882939687993e-48			
0.1841772446884431	1.09626312753365e-09	2.55668911135429e-08			

	0.13884132130362	3.7939414705157e-06	8.07456477720821e-05	
	0.2434227146101824	.21823004280314e-15	3.73385260436535e-13	
	0.2080638767631518	.24956679446282e-12	1.1475000097405e-10	
ENSG00000117450	1	45511036	45523047	protein_coding PRDX1
	12011	0.1990766511252481	.37274943495591e-21	1.89424831241613e-20
	0.24778123759079	1.05113003370888e-30	2.38016784813236e-29	
	0.0826395522996412	.7468253611955e-05	0.000212793596728318	
	0.0762175366513667	0.000115024473518802	0.00130896002406823	
	0.1663753900614986	.34420713910854e-16	6.63331563893771e-14	
	0.3203531550644766	.11006769323841e-46	1.69979901058859e-43	
ENSG00000119929	10	99702558	99756134	protein_coding CUTC
	53576	0.5158903297002461	.24479941361449e-37	9.79430811348493e-36
	0.8550187816468447	.40799661218219e-77	5.77045896105932e-74	
	0.2620341049673321	.2982088300748e-12	5.37893493716365e-11	
	0.2338611223737732	.20753432264992e-10	2.52876303033552e-08	
	0.2735193425047722	.43483834973616e-13	1.54196531099755e-11	
	0.3334459687268778	.95985977010814e-19	2.79730772261552e-17	
ENSG00000120438	6	159778498	159789749	protein_coding TCP1
	11251	0.1597581558945433	.52152044539355e-23	5.75070933110966e-22
	0.1089634173495232	.49402212873067e-12	1.29342112994324e-11	
	0.0629726191318589	3.20143435196621e-05	0.000243174103499498	
	0.0581582474266247	0.000128376227914595	0.00142855232477248	
	0.0565926967309816	0.000206790820589561	0.00124098389598027	
	0.0965503171917973	.39809059408669e-10	3.78134666894832e-09	
ENSG00000121060	17	56887909	56914038	protein_coding TRIM25
	26129	0.2999985120010431	.16773987997966e-21	1.61852487457324e-20
	0.5894772456104769	.26429301168348e-61	2.0917162438988e-58	
	0.1051277729155540	.000372977738654683	0.00200258268871957	
	0.2099789335769795	.07323007794083e-12	9.19021527723724e-10	
	0.2824811553205591	.81898162344214e-19	3.30182298365282e-17	
	0.3508379051203853	.87860016505583e-28	3.05175312986893e-26	
ENSG00000122787	7	138002324	138117986	protein_coding AKR1D1
	115662	0.85380087317783	2.94877863175081e-17	
	2.62508698880262e-16	2.34986097740146	3.45461170320131e-79	
	3.16584680730431e-76	0.5245439737664178	1.7953075988746e-08	
	1.23477625686324e-06	0.8026898150980451	1.40380137566239e-15	
	4.85996036254321e-13	0.8366443940479	1.46355952594213e-16	
	1.68894769293722e-14	2.0695465353293	1.20770407476823e-67	
	1.0452678767119e-64			
ENSG00000124588	6	2987987	3028869	protein_coding NQO2
	40882	0.4884457697306951	.12403005017745e-35	7.2062815439154e-34
	0.7366784539833787	.63338585977909e-65	2.16219124199088e-62	
	0.1842536027553962	.24201226026455e-07	3.01106112091909e-06	
	0.2009507306386542	.10540800796701e-08	1.16726517281559e-06	
	0.2282891172587682	.98184756985627e-10	8.79814456264979e-09	
	0.4185424047698823	.72200664142757e-28	2.95842558504082e-26	
ENSG00000124615	6	39899578	39934551	protein_coding MOCS1
	34973	0.1046062913925880	.000276657135978249	0.00060838141710922
	0.5022023194926426	.23385645401591e-51	6.56197633088608e-49	
	0.1488737331630362	.56377751868138e-07	3.38770907239502e-06	
	0.18462331591607	2.90501553936245e-10	3.10767618024227e-08	
	0.1913092335361148	.44040023916915e-11	2.78586854504271e-09	
	0.3035248132276131	.91326058134991e-23	1.02781677920173e-21	

ENSG00000125630	2	112541915	112577150	protein_coding	POLR1B
35235	0.2450528589698931	38543915206444e-19	1.58238684384251e-18		
0.3420381636474911	2.9755227578143e-33	3.79260167061892e-32			
0.1380864148101311	0.03892815722089e-07	1.52681824283005e-06			
0.1138183716833141	1.12619457330831e-05	0.0001989227353466			
0.1461934784852812	5.2589921818589e-08	4.62952752001388e-07			
0.1569316138342161	1.87098384571368e-09	1.86966371599573e-08			
ENSG00000125912	19	3185563	3209575	protein_coding	NCLN
24012	0.56343797978211	1.7834716543722e-53	1.09196083323189e-50		
0.4514788177321761	4.6151171618602e-38	6.2210084771754e-37			
0.2162991972345469	1.4489983255964e-12	3.23791805662379e-10			
0.2040227988055841	3.1382100447804e-10	1.61165491565066e-08			
0.1789264457579871	6.4105997215962e-08	3.15084427940602e-07			
0.1885070970559912	1.7204436034306e-09	2.14437763560105e-08			
ENSG00000126067	1	35599544	35641844	protein_coding	PSMB2
42300	0.1764103043767075	7.1555046410344e-25	1.14303672246813e-23		
0.2443763699259471	2.0760028387186e-41	6.57804364420967e-40			
0.0624227332444054	9.10945610401924e-05	0.000598802601875594			
0.0518278841653341	0.00117688518840569	0.0081623582615269			
0.0783916172817705	1.29916381881182e-06	1.50369042594869e-05			
0.0973915312476015	1.76807641206941e-09	1.77823514678046e-08			
ENSG00000126953	X	101345661	101349196	protein_coding	TIMM8A
3535	0.2820932059622784	3.3297968935958e-12	2.3455000201714e-11		
0.44982834755085	3.84272001259862e-26	6.14637937128068e-25			
0.1649157187849333	2.8460949085053e-05	0.000248282053653374			
0.1476729849616	0.000207463904275868	0.00208521300949274			
0.2699122782952013	6.4790242266265e-11	1.33719227865086e-09			
0.1414313679157870	0.00035956257372886	0.00132865876093973			
ENSG00000127220	19	17292131	17310236	protein_coding	ABHD8
18105	0.2701809598898142	3.6698070517379e-09	9.62547439464955e-09		
0.7385284928667932	5.0997475033826e-47	2.10049346633866e-45			
0.2535772947584881	6.5850696379954e-08	3.00790221059755e-07			
0.2313534464954812	6.8221741719706e-07	9.47534356973084e-06			
0.1779732218712267	2.2533671061262e-05	0.000503639913264582			
0.2348592765572871	6.1607346145814e-07	1.19946681543861e-06			
ENSG00000127948	7	75899200	75986855	protein_coding	POR
87655	0.5951757874145617	3.1948595003377e-38	5.93907664664459e-36		
1.14983654653915	1.72531835035559e-92	3.35984182252371e-89			
0.7671542258683512	2.0047658944417e-55	1.18096013760054e-51			
0.6064429692715185	8.5504836878522e-39	2.28039496343262e-35			
0.7272095233706861	3.4584844722639e-50	4.19339459186798e-47			
0.6726243437746157	1.3361432795191e-46	1.94972943184496e-43			
ENSG00000128242	22	30554635	30574587	protein_coding	GAL3ST1
19952	0.5871985472301438	7.9738662346076e-16	6.80508868951813e-15		
1.10894013891448	6.00324949566966e-44	3.86465387987759e-42			
0.2394425490873150	0.000649305146235255	0.00319909072523689			
0.3494722057064718	8.5478768650247e-07	2.4546038677584e-05			
0.4222603864570254	1.6748242103401e-09	9.38225558342324e-08			
0.8322118737925183	5.3331934817018e-28	2.8374011404713e-26			
ENSG00000128989	15	52547045	52569883	protein_coding	ARPP19
22838	0.2251000214545473	8.9350271243666e-23	6.31842487052612e-22		
0.4616740009706866	4.1737933032851e-68	2.325031455516e-65			
0.1375962083379932	2.9399853263349e-10	6.09866947779814e-09			
0.1170022505154066	4.0452643545098e-08	2.87539243048677e-06			

	0.1860485100530338	.98355803501412e-17	1.06026401990519e-14	
	0.4667941781288832	.02127917048593e-69	2.09930054646668e-66	
ENSG00000130348	6	106629578	106668417	protein_coding QRSL1
	38839	0.1434087434979694	.35231254644418e-13	2.60235852886066e-12
	0.29996501553476	4.9546102779084e-43	2.98022677681602e-41	
	0.11073451443539	1.2111669889102e-08	2.26515852583817e-07	
	0.0822988875836437	2.07250765188216e-05	0.000323199166252974	
	0.1132910764229287	.72062777498276e-09	1.62320728888605e-07	
	0.1255941043560341	.37664206925864e-10	1.59930699455484e-09	
ENSG00000130402	19	38647649	38731583	protein_coding ACTN4
	83934	0.1011718632814446	.2093261722018e-10	2.69232096957227e-09
	0.0776493963084821	1.62284096635432e-06	4.68536683002852e-06	
	0.0597404313057357	0.000189408088861833	0.00112751516403773	
	0.0635224309362705	7.95966781108706e-05	0.000970294716971247	
	0.0891408816104775	4.92463649087913e-08	8.29415263690875e-07	
	0.0727690062778615	.93549961537153e-06	3.24795042177285e-05	
ENSG00000130764	1	3778558	3796504	protein_coding LRRC47
	17946	0.1586551262064887	.14832846506033e-20	8.43280483778178e-19
	0.20587137595654	2.33354500397756e-30	5.13478779900656e-29	
	0.1306920429185251	.55794684094508e-14	8.95618222696807e-13	
	0.0709025849782687	1.97688911963521e-05	0.000311405011069737	
	0.0549437466750602	0.000937861894227568	0.00451512683874267	
	0.0536297539127215	0.00112380113703045	0.00369049281488141	
ENSG00000131653	16	2155698	2178129	protein_coding TRAF7
	22431	0.2881243769416467	.62041114908278e-42	9.89319877429671e-40
	0.49273989594767	7.57395107208168e-87	1.07267803410873e-83	
	0.15111174012673	5.93102535418199e-15	3.63777338554335e-13	
	0.1573193728896397	.36937017312014e-16	2.80018092504972e-13	
	0.2022008827159348	.85052935763676e-24	2.55337771967821e-21	
	0.3384717911749832	.35408196774722e-53	9.65111657250891e-51	
ENSG00000132002	19	14514770	14529770	protein_coding DNAJB1
	15000	0.2436608481346148	.00457897120844e-20	9.36914619026719e-19
	0.18471935748598	1.51549309021764e-12	8.0196558602244e-12	
	0.0905476626433250	.000351702142658693	0.00190845269260877	
	0.0978443185350661	0.000123731783509174	0.00138378855368947	
	0.1893298964350755	.8279038034823e-13	3.27772250377078e-11	
	0.1794365853873634	.82047826375887e-12	6.91512254798338e-11	
ENSG00000132286	11	6481447	6484679	protein_coding TIMM10B
	3232	0.0767893189680304	8.11223885672431e-05	
	0.000191427702437001	0.1560039147318627	.79006247815652e-15	
	5.03156647376453e-14	0.18436310560005	1.11958037790713e-19	
	1.40660828285606e-17	0.0921600167186476	2.48650474542528e-06	
	5.67163359135878e-05	0.10483551755081	1.08522417230875e-07	
	1.68026625867305e-06	0.0781636661091358	5.68960661730118e-05	
	0.000255928393669603			
ENSG00000132676	1	155687960	155739010	protein_coding DAP3
	51050	0.1733342520374069	.49838177105625e-24	1.64052427506968e-22
	0.2001088233028156	.16451363835449e-30	1.31918898313083e-28	
	0.0570027720987811	0.000411526445040611	0.0021754904944987	
	0.0545680985111288	0.000755791494865406	0.00575768982812135	
	0.0847599625784561	2.56576849006796e-07	3.60109074835755e-06	
	0.1152578440689433	.28337436055926e-12	4.79846990273477e-11	
ENSG00000132768	1	43970000	43973369	protein_coding DPH2 3369
	0.3232340764939152	.03423293781773e-22	3.07384238004486e-21	

	0.3518037766569028	.89436966696323e-26	1.38843071183988e-24		
	0.1227934851624838	.58732783202562e-05	0.000569527374606757		
	0.1013580335505630	.00120606722730701	0.00831385899744065		
	0.1669149391204	1.53642090027862e-07	2.28423484347018e-06		
	0.0995381774621009	0.00141334238717652	0.00453241273154035		
ENSG00000133019	1	239386565	239915452	protein_coding	CHRM3
	528887	0.3714158965381290	.00015573417452967		
	0.000354601389213349	0.5349211674768216	.45534248717337e-08		
	2.16551891166977e-07	0.3039482512925210	.00184677968405995		
	0.00771527342896246	0.3388076334812110	.000558586624838076		
	0.00454186901271001	0.29815450016005	0.00240295221929093		
	0.00998282469982224	0.4258483950530111	.41763867463944e-05		
	7.22689558645545e-05				
ENSG00000133488	22	30488913	30505711	protein_coding	SEC14L4
	16798	1.22709843239062	1.3158459964308e-33	6.42619585529639e-32	
	1.75903045082305	1.2994878357376e-57	2.22469461461056e-55		
	0.5285184048715351	.64221532216231e-08	2.98530600979774e-07		
	0.5278008906367441	.98148780477385e-08	1.10788869333392e-06		
	0.6462460108998661	.18367711200862e-11	4.82735752041422e-10		
	1.8791140569142	2.14303727318152e-63	1.51756262176795e-60		
ENSG00000134077	3	9362842	9386791	protein_coding	THUMPD3
	23949	0.1485597593891063	.13098041834323e-15	2.28466247950207e-14	
	0.1887562248005191	.20470386653136e-22	1.45263788983684e-21		
	0.0666211774350209	0.000238538315475399	0.00137128723866835		
	0.0692391766334364	0.000145452692939176	0.00157799965410823		
	0.1103312618967142	.82286740499337e-09	6.66325019733207e-08		
	0.0680281335469139	0.000178654590608776	0.000709653204256533		
ENSG00000134216	1	111290862	111320566	protein_coding	CHIA
	29704	0.7668542340593284	.4125039264656e-10	1.94132727112137e-09	
	2.673452283333559	6.75836307318972e-72	3.39640446184589e-69		
	0.8674238631170851	.80731484998671e-12	7.23808690178484e-11		
	0.8375530179602541	.08920870988203e-11	1.80518962672895e-09		
	1.12916293147985	3.88538830734721e-19	6.65169938902882e-17		
	3.07552880884444	3.89181295163351e-86	1.03572265519137e-82		
ENSG00000134375	1	201955491	201970661	protein_coding	TIMM17A
	15170	0.2244700310598534	.97785471090063e-22	7.16066468523739e-21	
	0.2552753422262353	.67033246427638e-27	6.3462940578204e-26		
	0.1189366519700747	.70471898285009e-08	1.16876160695055e-06		
	0.1036493852005372	.81651439230965e-06	6.30437898244139e-05		
	0.1548284890178677	.67427306531942e-12	3.27492662643557e-10		
	0.2134834215574811	.94838676250024e-20	7.1930328346129e-19		
ENSG00000134684	1	32775237	32818153	protein_coding	YARS
	42916	0.3119546490640632	.20281297800285e-30	7.85300306277035e-29	
	0.5910111403041672	.64296994087028e-76	1.96070612899134e-73		
	0.0884354870775557	0.000385244737069168	0.00205961831118757		
	0.1808528995703381	.90488369284077e-12	3.7095228813458e-10		
	0.3064363030007382	.63191448061381e-29	1.51861465531417e-26		
	0.2963798060818233	.20100803459753e-28	2.58386031974067e-26		
ENSG00000134824	11	61792980	61867354	protein_coding	FADS2
	74374	0.2198677198681363	.9495253315648e-05	9.71878931297552e-05	
	0.4908539470640461	.59574027490787e-18	1.37881518262838e-17		
	0.7456274403330491	.48107384137549e-36	1.00320214672994e-33		
	0.2264397482450582	.34207851105483e-05	0.000355973084133885		

	0.2432722870766216	.39734496110078e-06	6.14074166044295e-05
	0.6324042969863373	.01975062086996e-28	2.45024452721527e-26
ENSG00000136478	17	64147227	64263301
	protein_coding	TEX2	
	116074	0.1749911175466523	.37907639332981e-17
	2.98936008697814e-16	0.2993279882536731	.18352486423705e-40
	5.85337582855524e-39	0.1333584907937934	.56494448283423e-11
	1.41386222858995e-09	0.0653607541004755	0.00101937418506561
	0.00732510628650238	0.0917472257955083	5.17052886453298e-06
	5.08212423852109e-05	0.3316745382908281	.07013025478106e-47
	3.03119258895165e-45		
ENSG00000138074	2	27199587	27212958
	protein_coding	SLC5A6	
	13371	0.2530253038466066	.19044555072313e-22
	8.85591838702623e-21	0.2514087338546819	.78829331900816e-22
	1.10903142994057e-20	0.1023707631634753	.72069913268313e-05
	0.000277343405684548	0.0956436981551105	0.000122422590909265
	0.00137544767649813	0.1028644775904794	.00173848995413e-05
	0.000302049825266451	0.1488662872601323	.23313453137101e-09
	3.12075606345904e-08	ENSG00000138109	10
	94938658	94989390	protein_coding
	CYP2C9	50732	0.20331767578905
	0.000523985257670888	0.00110417507497021	1.04122707242463
	1.10437364056139e-51	1.21162232016239e-49	0.4809295154757311
	1.93484543466076e-15	1.27724394180424e-13	0.4936854281254995
	4.2587288005539e-16	2.11324183995957e-13	0.5340404886859764
	7.5410690010695e-18	6.98719164120435e-16	0.81472153779313
	3.30422209315889e-36	4.8562713197474e-34	ENSG00000138115
	10	95036772	95069497
	protein_coding	CYP2C8	32725
	0.7706046738411492	.34946410567857e-10	1.06340212964458e-09
	2.04631396510802	3.89105260238862e-49	3.67386112076438e-47
	3.67386112076438e-47	1.01983065981974	1.50704423926128e-16
	1.18576980825513e-14	1.15460931154534	3.90027425478084e-20
	2.53176552563461e-17	1.37200178957462	2.03417502426511e-26
	8.56497640622327e-24	1.84279411744726	1.67155784425814e-42
	3.61683328551355e-40	ENSG00000138356	2
	200585868	200677064	protein_coding
	AOX1	91196	0.1851245169099465
	1.6565626626215e-06	1.42384570014328e-05	0.4208366466774761
	1.01869063459152e-22	1.23792366585814e-21	0.2363641212153386
	8.5669822233526e-09	1.34874370714345e-07	0.1563843196815440
	0.00110572962722204	0.00126942976142167	0.1679185037740723
	0.72233307147252e-05	0.000283848394128587	0.3980747650811715
	2.9858164237498e-21	2.35487459761612e-19	ENSG00000138413
	2	208236227	208266074
	protein_coding	IDH1	29847
	0.3489128920136817	.15900334002683e-20	8.4364684594764e-19
	4.1882140218708e-60	0.7389792983052571	.63990663928441e-62
	4.1882140218708e-60	0.4142738338096431	.7143379627949e-26
	4.85594020406941e-24	0.2068667554315181	.98408720354428e-08
	1.10788869333392e-06	0.3138011561752451	.54172164433626e-16
	1.76606481596431e-14	0.6170623553450255	.92754916352013e-49
	1.79347064861497e-46	ENSG00000140284	15
	50182196	50236395	protein_coding
	SLC27A2	54199	0.2552858563306051
	1.15569653713157e-05	3.04646300371789e-05	0.9971154622772941
	1.26057104584569e-49	1.21977865361677e-47	0.3636597475568025
	8.5075935400624e-10	1.43768107217765e-08	0.2804789002940421
	5.3829543081988e-06	3.79795634179762e-05	0.3404114570110488
	1.8144258018618e-09	1.7062743501569e-07	1.06800470165914
	3.94550548699809e-55	1.8626372721801e-52	ENSG00000140961
	16	83948282	83966332
	protein_coding	OSGIN1	18050
	0.8025119394743144	.66930415878682e-46	1.05424767376435e-43

	0.8808235990299269	.7044081878261e-53		1.18113261842299e-50
	0.22844190549116	3.47374041991442e-06		3.48021877825381e-05
	0.3617117350350557	.78002362665692e-13		1.68340261221789e-10
	0.3041912343732711	.37027423727787e-09		3.51688671211729e-08
	0.2843346032442381	.0122907423227e-08		9.13700896561142e-08
ENSG00000141179	17	55750979	55842830	protein_coding PCTP
	91851	0.2241167339854011	.42863612692214e-11	7.2877282977472e-11
	0.6279765722368966	.80169747048995e-59		1.30819314682423e-56
	0.2464980588771071	.19663652378011e-13		5.91822235046677e-12
	0.1902087574756347	.37768821036373e-09		5.01908317158326e-07
	0.2476287609609571	.52474560155434e-13		1.00652592061928e-11
	0.4812203235166393	.3835738233077e-40		6.27532102301317e-38
ENSG00000141401	18	11981025	12030883	protein_coding IMPA2
	49858	0.8331568838113735	.129142119539e-26	1.13989878859198e-24
	0.88040164821	1.77737657898079e-28		3.41848762023971e-27
	0.2390035115363720	.00113152479184011		0.00511979161630279
	0.2738547681480560	.000210747834249833		0.00210849092391258
	0.37354399214597	5.8311995393465e-07		7.36177128229167e-06
	0.4508958815672361	.5979496379832e-09		1.62073290430601e-08
ENSG00000141485	17	6684713	6713567	protein_coding SLC13A5
	28854	1.52579282925711	.16376667253744e-17	1.07407114878323e-16
	2.20335624773516	3.6649410663053e-32		9.3753886489278e-31
	0.5562244051256560	.00111249234857917		0.00505562618453061
	0.8007060638293483	.44677190359527e-06		7.47872694792628e-05
	1.26910038878298	6.54969070849574e-13		3.64420112670197e-11
	2.20031658330881	2.83387696588044e-32		3.17618483823391e-30
ENSG00000142207	21	32311018	32393026	protein_coding URB1
	82008	0.3020542489234691	.43493572764664e-26	3.43920980015493e-25
	0.3517611963062356	.9115512448016e-34		2.0587964979496e-32
	0.1115356910108562	.30589211152343e-05		0.000182630875472412
	0.1086543742004784	.00041289222259e-05		0.000551038306347796
	0.1969793360859224	.68432577164887e-13		2.69288233197482e-11
	0.1923899779488969	.79534889527474e-13		1.54299029766921e-11
ENSG00000142655	1	10472288	10630758	protein_coding PEX14
	158470	0.1721136917490665	.88815301137292e-09	
	2.30023788103282e-08	0.3504234148253388	.25907196689811e-29	
	1.61643319311942e-27	0.1012894105028630	.000479679916412643	
	0.00247284361938867	0.1017938662259340	.000477615609851168	
	0.00401552810894298	0.1871933784670223	.38971308939961e-10	
	9.92637974055573e-09	0.0848106752486508	0.00341021809923986	
	0.009838479216307			
ENSG00000142657	1	10398592	10420144	protein_coding PGD
	21552	0.6250652133643246	.10125906239108e-39	5.72599487548136e-37
	1.08681494564858	1.37686529597378e-83		1.65001418815197e-80
	0.3465728548570113	.6829853482872e-15		2.32296472635491e-13
	0.2783961399356821	.74550347874888e-10		2.07581669430754e-08
	0.3750416074543255	.2494652193304e-17		6.43948178361797e-15
	0.8428996117051131	.57063285040255e-60		1.01953704901755e-57
ENSG00000143653	1	246724047	246768137	protein_coding SCCPDH
	44090	0.3223235025670184	.09842574708933e-29	1.29511916255385e-27
	0.5910967176626191	.02289818856345e-70		4.97991589988436e-68
	0.1826130773614421	.48265985147753e-11		4.99964455111871e-10
	0.2094838075677512	.21940287689642e-14		7.05634233044273e-12

	0.2948616976255094	.94071689707511e-25	1.87735191559837e-22		
	0.3584597183591071	.09673028007797e-34	1.44796279943514e-32		
ENSG00000143819	1	225810092	225845563	protein_coding	EPHX1
	35471	0.6938418583540732	.86714653489714e-25	5.91619547909437e-24	
	1.23989198731284	1.6297535142286e-60	3.57604647861512e-58		
	0.2366955941239230	.000139882618211805	0.000867528387389217		
	0.5686369408359483	.01465197908873e-18	1.42318979340071e-15		
	0.7463868470528723	.64544294257908e-28	1.83201147104644e-25		
	0.9309154085715982	.1237730601031e-40	4.03490981748124e-38		
ENSG00000144224	2	135741619	135785055	protein_coding	UBXN4
	43436	0.1593116647280431	.70455390085605e-21	2.34173238284272e-20	
	0.2057918578753451	.92951188705166e-32	5.06911731675849e-31		
	0.0519030232477116	0.00097678202426363	0.00452356930915668		
	0.0508619334220377	0.0012960843872463	0.00882118771031462		
	0.0547181121365163	0.000581979046459956	0.00301618481862929		
	0.1477992575300673	.67614901341584e-19	1.19813233221769e-17		
ENSG00000144381	2	197486581	197516737	protein_coding	HSPD1
	30156	0.2828922076750065	.27504484722368e-36	3.46750732805476e-34	
	0.4113137999535244	.19720950599152e-62	1.05465043377164e-59		
	0.1507658352209934	.66882732704248e-13	2.08177382067396e-11		
	0.1917681107386522	.80396031705151e-19	1.56010349211948e-16		
	0.2180195810768651	.36568639555498e-23	3.86836879206382e-21		
	0.2174496437826456	.86377026555809e-24	3.86031324791081e-22		
ENSG00000144867	3	133784033	133825772	protein_coding	SRPRB
	41739	0.4695719638392594	.15814653242872e-49	1.40825575714581e-46	
	0.3676618617094996	.11081880734791e-34	1.83077781153218e-32		
	0.1027126438549340	.000179179866059627	0.00107363197436267		
	0.1068960421323450	.000105196945101863	0.00122394563684983		
	0.1050302706959370	.000148033107464944	0.000934822773083245		
	0.1197528331698091	.3475922903521e-05	6.89462735349603e-05		
ENSG00000146731	7	56051630	56063989	protein_coding	CCT6A
	12359	0.2066640334649693	.35204806968098e-26	7.64590876684626e-25	
	0.1300215250857973	.1762363571742e-12	1.62718139455498e-11		
	0.0857526048446831	2.53289855020727e-06	2.63946665643338e-05		
	0.0671344552740383	0.000225746183023981	0.00222447804258735		
	0.0909488080313432	8.01201077907479e-07	9.79741883259075e-06		
	0.0673709247243330	.000200290098691162	0.000785974671916777		
ENSG00000147852	9	2621834	2660053	protein_coding	VLDLR
	38219	0.7034510698582773	.2010013179037e-27	8.21555181740063e-26	
	1.04628586907652	3.72616628321577e-50	3.74515771136894e-48		
	0.3925449586432211	.67423562997345e-10	4.52828418044382e-09		
	0.3912357876708012	.29580448749573e-10	2.5984875401449e-08		
	0.5551823868951212	.4081198473919e-18	3.71446525767509e-16		
	0.7354907215748681	.96177360827347e-29	1.70740061694371e-27		
ENSG00000148248	9	133361449	133376166	protein_coding	SURF4
	14717	0.2761666247808622	.98230566634621e-46	7.03959696606176e-44	
	0.15873717236069	2.7603748941622e-19	2.53560616015053e-18		
	0.0574767563379410	.000602758894994522	0.00299820588286068		
	0.0868671292786676	3.24925034795566e-07	1.0886036810925e-05		
	0.0555735469631902	0.00101506271118222	0.00484190507578317		
	0.1758158325640235	.04580687323191e-23	2.55222809344415e-21		
ENSG00000148942	11	26667019	26723427	protein_coding	SLC5A12
	56408	1.48187598541316	2.0916765673127e-83	1.08620764140549e-79	
	1.88625503426145	5.91876828821771e-110	9.22084911621436e-106		

	0.4832613619104092	.77949984010225e-15		1.77466508233414e-13
	0.9999710985144226	.84793456843976e-49		5.33419863208615e-45
	1.26076049413952	2.51371224541458e-67		1.95805615356569e-63
	2.15208214779736	1.55540508456004e-126		2.42316558123609e-122
ENSG00000149485	11	61799625	61829318	protein_coding FADS1
	29693	0.4581881365421752	.92517107011197e-16	2.36610800110459e-15
	0.6413592942157613	.99456147010117e-28		7.4439321941036e-27
	0.6428895375960461	.7514395610382e-28		6.20129020941229e-26
	0.2238105883187983	.50347361903885e-05		0.00049394222181906
	0.2753479409840574	.76708123768299e-07		6.17342964271515e-06
	0.3873189926690141	.98689430290944e-12		2.98206419508923e-11
ENSG00000149547	11	125569216	125584687	protein_coding EI24
	15471	0.1536713250414699	.0780484400461e-11	4.27400775604346e-10
	0.3407552016148963	.62299949928036e-39		1.60805439314213e-37
	0.0908432009989095	8.77728415179788e-05		0.000580642504462247
	0.0843074903725318	0.000285286904900832		0.00269689605063718
	0.0742388900559270	.00144206026373836		0.00654408879952808
	0.3415975483670351	.29046635879388e-39		2.31082475904021e-37
ENSG00000149925	16	30053090	30070457	protein_coding ALDOA
	17367	0.5242397417598375	.24071242883904e-42	7.03836714904167e-40
	0.2137552939808327	.3646493192469e-10		2.983297309127e-09
	0.1615939414913562	.22864433895124e-06		2.35230692117353e-05
	0.1386790231200624	.94550067075977e-05		0.000657388694110635
	0.1534362355243058	.34462633481421e-06		7.65612094641169e-05
	0.1043312366015710	.00204231777654474		0.00628675531333541
ENSG00000151632	10	4987400	5018031	protein_coding AKR1C2
	30631	0.4467489523019061	.31717690260977e-20	1.65219798436051e-19
	0.8289655344506231	.27415602222911e-53		1.65417305585894e-51
	0.2147362392720962	.51533142185666e-06		2.62600966106531e-05
	0.2432972883231931	.25161254948465e-07		5.1448210840162e-06
	0.5077299035840963	.6111251067685e-25		1.40644295095866e-22
	0.3699067914044023	.15305168668172e-15		6.67410220473024e-14
ENSG00000154174	3	100363431	100401398	protein_coding TOMM70
	37967	0.1776407781844331	.5975822088477e-37	1.20819093357468e-35
	0.1608021019854223	.90262756691161e-32		9.95074220375057e-31
	0.0628276565310832	5.07210128560442e-07		6.24650323544911e-06
	0.0583554228938397	3.23225528436829e-06		7.07237430831089e-05
	0.0695850422723083	3.97031009572517e-08		6.85550081832355e-07
	0.0555347429642445	8.31420899333515e-06		4.43130557328663e-05
ENSG00000155189	8	6708357	6759666	protein_coding AGPAT5
	51309	0.3691440215658662	.84335554922373e-20	3.47424596873384e-19
	0.3983732417346085	.23293197294578e-23		6.55336392335389e-22
	0.2602276103175981	.85814001647613e-11		6.17227362829034e-10
	0.17784597748072	3.42736992457682e-06		7.44700084448847e-05
	0.1864117754062671	.29669098137281e-06		1.50194414861019e-05
	0.1628323410404281	.89407126980448e-05		9.44852267444254e-05
ENSG00000155380	1	112911847	112957013	protein_coding SLC16A1
	45166	0.2846850593081669	.90729505822315e-18	9.18724700667015e-17
	0.3731181663233741	.30878670297683e-27		2.33825550982524e-26
	0.1306454685698383	.90487208589727e-05		0.000288997635278829
	0.1619322825371274	.53927459452531e-07		1.44027207552159e-05
	0.1733150627245288	.20738403689815e-08		1.3181735660911e-06
	0.31018311745899	1.42435495725015e-20		5.33414083629811e-19

ENSG00000156113	10	76869601	77638369	protein_coding	KCNMA1	
768768		0.2317345348106836	.72644498641366e-05			
0.000160648913756459		1.09841921576556	1.22669382420574e-57			
2.12340700970014e-55		0.4712368289295132	.5496330137499e-15			
1.64135259178553e-13		0.3730264747953742	.55699784663816e-10			
2.7919229678556e-08		0.4068458877805948	.15359293532339e-12			
3.44240716366946e-10		0.8689593740202844	.72740412268678e-41			
9.20602860341717e-39						
ENSG00000159228	21	36069941	36073166	protein_coding	CBR1	3225
0.6129019186022225		.92077489598705e-51	2.42736189748901e-48			
0.6758722087157691		.86213001537606e-58	3.49519560355947e-56			
0.2300816615464619		.36665109348588e-11	2.69728387034042e-09			
0.1940801670268		4.18156972706518e-08	2.04215281435575e-06			
0.3167092643801156		.26319566208023e-18	8.95177295592182e-16			
0.1750452705792336		.11232738745718e-07	4.08686473687534e-06			
ENSG00000160181	21	42346357	42351128	protein_coding	TFF2	4771
1.80645839391851		5.83461248416584e-05	0.000140360450727022			
2.08049486160698		3.81510686928531e-06	1.05719583629662e-05			
1.64896625825912		0.000221814178293038	0.00128893811399748			
1.7113416847918		0.000136562247531694	0.00149929757173803			
1.79481190718911		6.84252397476344e-05	0.000480583048542716			
2.15838899236003		1.54774720867841e-06	9.5155302936073e-06			
ENSG00000160460	19	40466241	40576464	protein_coding	SPTBN4	
110223		0.8527619777747133	.1641055583571e-11			
1.55451278756371e-10		1.73490306666217	7.68169983855787e-36			
2.64763720763038e-34		0.4363749786436570	.000495180163260428			
0.00254433105654162		0.42477305317136	0.000733916682638708			
0.00564069462201699		0.5211374644982173	.98094669960992e-05			
0.000300917848778374		0.6912455410484644	.93409129774412e-08			
3.98900925415442e-07						
ENSG00000160796	3	46979683	47009703	protein_coding	NBEAL2	
30020		0.2052412052207831	.87573757226725e-06		5.45697771024303e-06	
0.4859967930884762		.49624918301911e-26	4.0678939353823e-25			
0.1465275230639160		.00057408077791926	0.00287832689108486			
0.1582818251714930		.000217180237940416	0.00215506428463296			
0.2031319458921252		.60548744105795e-06	2.80905805150462e-05			
0.4006144264379362		.79725885375609e-19	9.23273213615806e-18			
ENSG00000160868	7	99756960	99784265	protein_coding	CYP3A4	
27305		2.41381326846621	2.41915205523491e-33		1.14902347160075e-31	
4.24177714648775		4.8776528215668e-74	2.92265205027651e-71			
2.5403679261252		2.52353758577523e-36	1.53484408907196e-33			
2.76660072504546		4.93210160676956e-41	2.56124036439544e-37			
3.18943852682501		4.13180312788389e-50	1.07282268215505e-46			
4.43281409279343		8.64786804135121e-79	1.49694595795789e-75			
ENSG00000160870	7	99705037	99735196	protein_coding	CYP3A7	
30159		0.8956074293203092	.41304036826534e-13		1.47944730016551e-12	
2.22543360421426		1.36357581802323e-56	2.16766812948816e-54			
1.35924909326385		8.39908952443469e-27	2.46885690002204e-24			
1.69488736736011		9.14795918913676e-38	2.85032112415123e-34			
1.72002467870683		2.16081198546023e-38	2.40452070867749e-35			
1.75618797154027		4.05984263746036e-40	7.44097511164647e-38			
ENSG00000161996	16	649311	667833	protein_coding	WDR90	
18522		0.2501982832067162	.06598410108331e-11		1.0369190177441e-10	
0.5338230600053233		.61095914370538e-39	1.60728949999389e-37			

0.2354239420448252	.09153830946162e-10	5.61794402122459e-09	
0.22336307758274	1.76309914345372e-09	1.48472008410084e-07	
0.226206040654976	1.30447907216204e-09	3.35908751491113e-08	
0.127750900218988	0.000447988708716686	0.00162118840722352	
ENSG00000162496	1 12567910 12617731	protein_coding	DHRS3
49821	0.1418482665915814	.80999045678968e-05	0.00011703083137018
0.457759568839164	4.36201509296175e-33	1.21566785569322e-31	
0.135154040848511	9.81558163212556e-05	0.000639017744449996	
0.122723506857281	0.000420588634060719	0.00365236919176809	
0.181145802588721	2.88536634732922e-07	3.98502857491507e-06	
0.345065391414227	3.70576535110215e-21	1.51131200012619e-19	
ENSG00000162927	2 60940222 61018259	protein_coding	PUS10
78037	0.1184203914620190	.000777763793238615	0.00159578323914979
0.493703919318791	1.15945109246269e-36	4.29051985023188e-35	
0.12449371861929	0.000390308540241524	0.00208240299603517	
0.133613938350895	0.000154086266112094	0.00165172940361992	
0.143402950279508	5.37067062119861e-05	0.000390128223141465	
0.367952090553158	5.07899083430957e-23	2.56069897112326e-21	
ENSG00000163002	2 183117513 183161680	protein_coding	NUP35
44167	0.1569320226843295	.30426898156821e-08	1.85488678931203e-07
0.430534055898046	3.79488445320004e-41	1.95763261246369e-39	
0.123884085635638	1.38200981066978e-05	0.000116569197836624	
0.150647132669759	1.68106640486226e-07	6.51475958242517e-06	
0.138098417779924	1.67127296416887e-06	1.8785542214132e-05	
0.282310645209943	4.04244668928281e-21	1.62731981840664e-19	
ENSG00000163132	4 4859666 4863936	protein_coding	MSX1 4270
0.829151802465287	1.03928141357953e-14	7.19918414502247e-14	
2.04724815657361	3.71887608973315e-61	8.52005450028718e-59	
0.51873370239469	6.75856511248048e-07	8.0993604528718e-06	
0.548424365274427	1.82358820239773e-07	6.89555354494036e-06	
0.770317539397808	6.11599902759752e-13	3.42737945506985e-11	
1.20289986668459	1.82890500213847e-27	1.36983226097669e-25	
ENSG00000163295	2 232456123 232460032	protein_coding	ALPI 3909
2.49040180683059	1.66379062502197e-37	1.24616318015467e-35	
3.48135984155578	1.75220057547734e-61	4.13598981293355e-59	
0.805619777213741	5.4873774423972e-06	5.16855218712854e-05	
1.27828650849294	1.45830814663095e-12	2.95051722290436e-10	
1.57810363720559	9.89495075260775e-18	1.37636998013282e-15	
4.00799582553955	1.66541626797067e-74	2.35868363988319e-71	
ENSG00000163710	3 142815922 142889203	protein_coding	PCOLCE2
73281	0.4151513531899163	.90597074978074e-24	7.11708986091628e-23
0.364954017575482	1.43858727775834e-19	1.36076206437141e-18	
0.180570320420934	2.87347896606799e-06	2.95095114122434e-05	
0.166180102629718	1.73934815480128e-05	0.000280801087084448	
0.15535077678427	6.17546560344284e-05	0.000438903187208194	
0.550060299703732	5.49895556925898e-38	9.01770829615638e-36	
ENSG00000163811	2 28894643 28948222	protein_coding	WDR43
53579	0.3400646767355871	.50349423345686e-25	3.18679410381285e-24
0.305740499678214	1.66313346531706e-21	1.8428133894861e-20	
0.115952385876808	0.000131645445836446	0.00082332573291288	
0.101076312732463	0.000882730596390571	0.00650831044068562	
0.14124528535145	4.32417419465642e-06	4.34341133324e-05	
0.156192139991081	3.27778902289141e-07	2.30021059403718e-06	

ENSG00000163931	3	53224707	53256052	protein_coding	TKT
31345	0.5589017679445621	86127322789498e-59	1.812298476086e-56		
0.6261593951320673	2.2610270563941e-69	1.35836362300422e-66			
0.24830244570448	5.13258809534272e-17	4.41771215123449e-15			
0.2132876333011043	9.3933713014252e-13	9.44168202315235e-11			
0.2942027052157783	8.8060431869992e-22	9.7509572066171e-20			
0.3614656273825062	3.9151314015903e-31	2.37308173315526e-29			
ENSG00000163938	3	52681156	52694492	protein_coding	GNL3
13336	0.3230607295371752	3.986354952422e-26	5.56905251570466e-25		
0.3965108943859811	8.2453113189984e-36	6.57971539441379e-35			
0.0965178628768690	0.000622080558370723	0.00307858736304241			
0.0971676419022698	0.000606492811733139	0.00485978916537421			
0.1663397791851178	5.1508985096668e-09	1.76405032963045e-07			
0.1279374020757846	5.839015740555e-06	3.57513428449671e-05			
ENSG00000164087	3	52075253	52154690	protein_coding	POC1A
79437	0.7989293009458185	0.7331338123309e-24	9.0951840237319e-23		
1.14530456711875	1.67591509274847e-42	9.59892692276779e-41			
0.3265052686222381	1.15966388877092e-05	9.97592695922813e-05			
0.4189908197506122	6.9738150067854e-08	1.42933695234935e-06			
0.6122542155880512	2.29265046228321e-15	2.13875458394671e-13			
0.8232391980388812	1.4876575801259e-25	1.37195171082288e-23			
ENSG00000164089	4	108742040	108763054	protein_coding	ETNPPL
21014	0.5858751374880755	8.1345749682951e-12	3.10482873990768e-11		
2.35517573089242	9.36394484816713e-96	3.64702241973989e-92			
0.5214134963272995	8.8760540547772e-10	1.44202464493275e-08			
0.55365989463226	6.67619026131565e-11	9.04420592009013e-09			
0.8276364411356264	7.302391569518e-21	1.09988650486794e-18			
2.16391553502728	3.87280598998675e-87	1.50836111295009e-83			
ENSG00000165841	10	94762624	94853260	protein_coding	CYP2C19
90636	0.6262670398279353	5.8701664334306e-09	1.43692806085476e-08		
1.4111550333733	7.49401924055276e-35	2.38751177399942e-33			
0.3424946397166030	0.00100608534978233	0.00463859238362207			
0.5602545183531031	1.161592422284e-07	4.81288519860701e-06			
0.7603892534104621	1.56900418064811e-12	7.96205737143875e-11			
1.27665232900767	8.33540292088618e-30	7.42041383454204e-28			
ENSG00000166347	18	74250847	74292016	protein_coding	CYB5A
41169	0.51033113096006	4.86420003817725e-29	1.51558744789527e-27		
1.02157171730306	1.04978757706332e-78	8.60770561214179e-76			
0.3989087958559131	1.27318560156389e-19	1.57420305450507e-17			
0.4870551970610386	0.09754957929355e-27	9.49937248958142e-24			
0.6227449183971232	8.1388152593701e-39	3.3721123301979e-36			
0.4648553552143883	2.6976532134847e-25	2.04577003780272e-23			
ENSG00000167721	17	2322503	2337507	protein_coding	TSR1
15004	0.3575387536553041	9.2207721135666e-39	1.95712685462258e-37		
0.2762009262431782	6.6061578850294e-26	4.29976487231195e-25			
0.0946113417668384	9.31408670889914e-05	0.000610194099402606			
0.0878091691354923	0.000299894920592196	0.00279429603343649			
0.0972975216208176	8.8059813281277e-05	0.000482850623022928			
0.0946770830992829	2.8990535391463e-05	0.000395538222215458			
ENSG00000168003	11	62856102	62888875	protein_coding	SLC3A2
32773	0.8119445688800488	9.4789733563958e-48	2.40343607917119e-45		
1.24417333423208	1.31832940491419e-84	1.71152114992985e-81			
0.3206103467258847	3.6438982490941e-11	2.17703660497654e-09			
0.3081849428215234	2.0276322805412e-10	4.30755581117468e-08			

	0.64317782048137	2.55296884295245e-33	1.89393817163601e-30	
	0.1583524785601820	0.00100979771708401	0.00335214971967862	
ENSG00000168710	1	109984686	110023741	protein_coding AHCYL1
	39055	0.1583188054611445	0.04374284669035e-20	6.04899690597298e-19
	0.2915753973261247	7.27515391179041e-52	8.15392969725056e-50	
	0.0650199515827108	7.26554027462147e-05	0.000492558102429625	
	0.0671723703638811	4.56660212402556e-05	0.000616491286743451	
	0.0749825249704728	6.30480470644587e-06	6.06146565047807e-05	
	0.2250439757206841	1.61045435346751e-35	2.28084257933367e-33	
ENSG00000169241	1	155135344	155138857	protein_coding SLC50A1
	3513	0.1989797140725959	6.8976743079111e-07	2.9159143674772e-06
	0.4541909579595516	0.00164921798507e-26	9.43488326609378e-25	
	0.3619945179774675	3.4351460826396e-18	5.47675092645686e-16	
	0.1628513935559335	5.57781209749075e-05	0.000727778347293202	
	0.1552845323688790	0.000128089530939662	0.000826639106258906	
	0.1217563887148170	0.0023784871008112	0.00718806024122944	
ENSG00000170542	6	2887266	2903280	protein_coding SERPINB9
	16014	0.6004453666926452	5.634085250555e-12	1.41614685857587e-11
	1.16979271221604	1.20746183580418e-36	4.45759429857662e-35	
	0.3727815633904828	5.8635035601143e-06	7.67451246106151e-05	
	0.4372521415153	2.303266730075e-07	8.42314375301372e-06	
	0.6167774665710558	5.6086855730823e-13	4.63089483521892e-11	
	1.49234419862872	5.84963207852393e-53	2.33670302952113e-50	
ENSG00000170627	12	54455950	54473602	protein_coding GTSF1
	17652	1.27763187556138	5.45974571042471e-05	0.000131749346999236
	1.57946884896268	6.65506905744205e-07	2.02143343431253e-06	
	1.46945731055209	3.32468628398283e-06	3.34811167538258e-05	
	1.53329393073716	1.38610846516424e-06	3.49049709815658e-05	
	1.36687558265872	1.75345406293955e-05	0.000146629419466104	
	1.54774193896802	9.83477176234663e-07	6.30518145208223e-06	
ENSG00000171490	16	11833850	11851585	protein_coding RSL1D1
	17735	0.2402845639172673	9.619434528659e-28	1.12428264211654e-26
	0.3057378352428675	6.2878318795227e-41	2.85637828290256e-39	
	0.0776852922367164	0.000118056753484248	0.000753155676712163	
	0.1113043565336245	4.8050545835328e-08	2.55631121364328e-06	
	0.1361918261182455	4.9404296750957e-11	1.93209244674563e-09	
	0.1432905534086853	9.8592889093178e-12	5.77644522714663e-11	
ENSG00000171867	20	4686236	4701590	protein_coding PRNP
	15354	0.1128361750964072	1.6208749268914e-07	7.05702096136689e-07
	0.2025841172134652	9.6620616484723e-19	2.71188531937529e-18	
	0.0708770552268829	0.000938318088299766	0.00437666392144373	
	0.0935359658121673	1.5408181128766e-05	0.000254283955301955	
	0.0747263202405968	0.000553314296094275	0.00289264544256802	
	0.1258771355110797	7.33822748312474e-09	6.72483799762355e-08	
ENSG00000171903	19	15912367	15934867	protein_coding CYP4F11
	22500	0.6022382165279428	3.8107264397063e-46	1.81345459333915e-43
	0.7839474088308082	2.0190241085498e-66	7.45726905624123e-64	
	0.1898617436618623	3.0313334723856e-07	4.25637009235976e-06	
	0.2108046450138031	9.0316704311705e-08	1.08209632717958e-06	
	0.3218497642211778	7.6172261261086e-17	1.04999135832204e-14	
	0.3736619629606568	7.3231937627389e-22	3.88688010179917e-20	
ENSG00000172115	7	25120091	25125361	protein_coding CYCS 5270
	0.0911903535476668	5.36885461184548e-06	1.47593763892608e-05	
	0.20162078228677	1.021879661857e-21	1.15612659782645e-20	

	0.13449650862739	3.25569617416059e-11	1.0414885153439e-09	
	0.0877691191145029	1.16500771476709e-05	0.000204349887904461	
	0.1647660385741551	.94339081244473e-15	1.84610277238271e-13	
	0.0587095950204528	0.00301366376930587	0.00884511451808895	
ENSG00000172366	16	636817	648474	protein_coding MCRIP2
	11657	0.2235198870748795	.83321877696112e-09	2.2815896391232e-08
	0.5281837468344562	.14249303503337e-36	7.69076013658636e-35	
	0.2556489882263593	.07446915342343e-11	9.91659522591793e-10	
	0.2369792717964477	.46542085701058e-10	7.13520193443974e-08	
	0.2228977604805187	.38064491103743e-09	1.56439547032724e-07	
	0.1161458352041660	.00201537682304005	0.0062124170016108	
ENSG00000173320	4	183797692	184023526	protein_coding STOX2
	225834	0.4249355466127238	.87639156351271e-15	
	6.18449481967641e-14	0.8020049552120032	.42474665050086e-41	
	1.28486830163785e-39	0.2036402259625250	.000120623579065653	
	0.000766907989890936	0.3421638109980032	.46618996800986e-10	
	2.724877554016e-08	0.2620095400782081	.0804609865376e-06	
	1.27518952342949e-05	0.5434732434291462	.36240011179765e-22	
	1.10191111801484e-20			
ENSG00000173456	11	119334527	119337313	protein_coding RNF26 2786
	0.14618895827917	2.63593277701865e-19	2.92487156219185e-18	
	0.1755943800172814	.31465491968437e-26	6.86598661836188e-25	
	0.0644935674364069	3.17268628693767e-05	0.000241698189067002	
	0.0892138416975499	1.41920975048985e-08	8.63666746206303e-07	
	0.12024178963038	7.12750188381432e-14	5.07029003871887e-12	
	0.10873867263764	6.56323451531264e-12	9.2594522366734e-11	
ENSG00000173548	15	75647906	75662301	protein_coding SNX33
	14395	0.1175954778223542	.0089960543307e-06	5.82182840967595e-06
	0.2527961766842842	.4075061722533e-22	2.85220826293036e-21	
	0.1899374675306154	.96847174777517e-14	2.5887565671769e-12	
	0.0784584132234309	0.00138396454669416	0.0092416560964202	
	0.0830868133089675	0.000754680848302524	0.00376109179005279	
	0.3036098660519883	.29254452571034e-30	3.01732653917891e-28	
ENSG00000173726	1	235109336	235128936	protein_coding TOMM20
	19600	0.1697742222918219	.49721757944252e-29	2.86184047717863e-27
	0.1752148552409843	.03554033646804e-30	6.62334494423467e-29	
	0.0438445416650275	0.00175930454663601	0.00740877650606566	
	0.1242737499244572	.81411319870221e-17	1.21780748673838e-14	
	0.0894201022884697	5.7656495029594e-10	1.61552254688138e-08	
	0.0696336845890908	8.76378005583651e-07	5.68405201872927e-06	
ENSG00000173898	11	66685248	66729226	protein_coding SPTBN2
	43978	0.5314071830500232	.32455178188107e-40	2.62421682680618e-38
	0.64927697877358	3.3661425106002e-54	4.64080833386199e-52	
	0.1548662765841151	.31868179931387e-05	0.000111772272859145	
	0.2347235490408369	.77678895800985e-11	1.24846389489209e-08	
	0.1464787079284854	.32705560833178e-05	0.000324092304433657	
	0.1719566398647211	.42741125842739e-06	8.83848966416544e-06	
ENSG00000177156	11	747329	765024	protein_coding TALDO1
	17695	0.4353627007639232	.78920526494923e-44	4.93784418439136e-42
	0.4721570667319626	.91960996386354e-50	6.82282301436899e-48	
	0.0859312903552487	0.0015722260415861	0.00672904107194229	
	0.1014422667632430	.000211720839064299	0.00211571452968744	
	0.1989447578821951	.76270532902162e-12	8.8299634472115e-11	
	0.1986555829709961	.21593353245087e-12	1.87369223561346e-11	

ENSG00000177542	11	790475	798333	protein_coding	SLC25A22
7858	0.5834920261036875	.00831416746758e-33	2.31526784614176e-31		
0.3731104897610325	.62157354270251e-16	4.0081690719342e-15			
0.1812281160570664	.44129829532881e-05	0.000322869744017394			
0.1745705802880398	.91123955243604e-05	0.00106463344315492			
0.2316673995770092	.76662814655121e-07	3.85176942762478e-06			
0.2640758654168534	.25401005714456e-09	4.01899470468496e-08			
ENSG00000178719	8	143990058	143993415	protein_coding	GRINA 3357
0.27409125848124	1.52503628911698e-38	1.33474945776143e-36			
0.2524122523132996	.59095804218809e-34	1.96706006397027e-32			
0.1224845311841671	.63617704274564e-10	4.44076692490144e-09			
0.0914923689457616	1.49912373413088e-06	3.71892494490844e-05			
0.0890730053348321	3.09116144119733e-06	3.25386514137927e-05			
0.0883383287594608	2.95839637994068e-06	1.71653099452871e-05			
ENSG00000178741	15	74919791	74938168	protein_coding	COX5A
18377	0.1822250192705655	.47943604435831e-13	3.24331816622561e-12		
0.3962113573541353	.45401717951679e-45	2.43760816087216e-43			
0.1641011668371565	.12939919917311e-11	1.56688059066506e-09			
0.1302965773279931	.55056782123356e-07	6.16232043035655e-06			
0.13556291532615	5.76308445183885e-08	9.59221075589716e-07			
0.2369936919859583	.34066489046656e-20	1.20752246702038e-18			
ENSG00000178772	3	194339765	194351328	protein_coding	CPN2
11563	0.36828468398504	2.19991705036087e-32	9.46754357115248e-31		
0.5636468364087011	.08077211124563e-60	2.40533553158509e-58			
0.1470647811089592	.49196015815349e-07	3.29840673779722e-06			
0.2434261161313031	.56624162836548e-16	6.42117850744891e-14			
0.2137182378931153	.2220520935361e-13	1.94559494438756e-11			
0.1974499533431128	.41691250388357e-12	1.1686905516756e-10			
ENSG00000179115	19	12922479	12934037	protein_coding	FARSA
11558	0.3615700454148222	.34178304720121e-35	1.44200150562639e-33		
0.3318195098429716	.2009424053794e-31	1.43543063496888e-29			
0.1109625020132492	.52390596587707e-05	0.000197686933345394			
0.1047109699095517	.41972956858709e-05	0.000920318208192821			
0.0982934841595711	0.00020875252933708	0.00125082909790091			
0.0822756625642747	0.00170072473280511	0.00534400778789247			
ENSG00000181638	8	143246821	143262705	protein_coding	ZFP41
15884	0.1369570695377951	.54650956694567e-06	4.55208919042771e-06		
0.3152132123667731	.65328841711877e-25	2.52515492649934e-24			
0.1523236638667658	.81937998561909e-08	1.31409651355357e-06			
0.0902265810176592	0.00141097678178837	0.00937511701842067			
0.1382072346435731	.37374811450672e-06	1.58296019792161e-05			
0.18205306842606	2.33662615768989e-10	2.65322878357513e-09			
ENSG00000182230	5	176060689	176132258	protein_coding	FAM153B
71569	0.7941807047167178	.15620532709868e-05	0.000192377778638714		
0.8686656940328281	.64780457270078e-05	4.20012229026596e-05			
0.6655436617249760	.000883295242107831	0.00415610286221622			
0.75988982929064	0.000161085564345846	0.00171887123763283			
0.7836499380890430	.000109383048088672	0.000721761332559689			
0.8339320888516473	.33964667422109e-05	0.000158429828068484			
ENSG00000182704	11	76782251	76798154	protein_coding	TSKU
15903	1.36551005187217	6.50427010929192e-54	4.40565321881125e-51		
1.579579063744474	9.84648483158955e-66	3.19579973315278e-63			
0.9288488111614481	.91935733388124e-30	7.11944473917518e-28			
0.9347724698708331	.64181354389434e-30	2.8419792444811e-27			

	1.14421620858614	2.42191294655281e-41	4.19233131048292e-38
	1.01714075558444	4.02250960864761e-35	5.46471055368519e-33
ENSG00000184575	12	64404350	64451127
	46777	0.3513274334370822	2.20561136179127e-23
	3.67893141384863e-22		
	0.6486883873487291	1.58055901587645e-59	3.28313718777857e-57
	0.1170681828475730	0.000392480634706528	0.00209255845588398
	0.2321990111547588	2.0777472457234e-12	1.42076580482347e-09
	0.2577500045138116	3.2487806463267e-14	4.6478903475902e-12
	0.1875819185131922	2.07820361412956e-08	1.78480342362318e-07
ENSG00000186529	19	15640897	15662825
	21928	0.2864396606193972	5.1817014492106e-05
	6.36756576655173e-05		
	1.36880577838346	7.76573723119151e-62	1.89035031757394e-59
	0.3425000099695534	7.79906592206132e-07	5.93841525018215e-06
	0.3135100023447014	4.23383049859999e-06	8.81802745156274e-05
	0.5872971068230051	1.19313751189997e-16	1.39758566149546e-14
	0.7105396806305753	3.6563912253302e-23	1.89113138936592e-21
ENSG00000187097	14	73958010	74019399
	61389	0.1532709963124019	6.66993445175596e-05
	0.000226078932622184		
	0.7019912313510572	4.2516191409209e-52	2.88409140913288e-50
	0.1538439934563638	4.45474585611814e-05	0.000562266923876821
	0.2204458528993562	9.3272865909605e-08	1.51790630498529e-06
	0.2823270765570383	3.03136337119093e-12	1.40552410594594e-10
	0.4520013872438245	5.58802285121512e-27	3.99338568803121e-25
ENSG00000196139	10	5035354	5107686
	72332	0.5958239883809914	1.18655971402743e-45
	7.95395290058943e-43		
	0.8195139646103943	3.00037894383736e-70	1.37479128135418e-67
	0.2550574809024851	2.1291213850684e-11	4.16210533167358e-10
	0.3064720278108251	1.22175141897397e-15	4.42643380376641e-13
	0.4846746995308281	1.17806058584176e-32	8.34227539401306e-30
	0.4868189772001511	1.97313184404464e-33	2.36457084602857e-31
ENSG00000197142	10	112374018	112428380
	54362	0.8491774791203515	3.39862757707507e-61
	6.00751564451804e-58		
	0.7098820183383592	5.212932678948e-47	2.10049346633866e-45
	0.25240111444915	4.70925226046257e-09	9.71356322268326e-08
	0.1807766084046792	4.40553186492385e-05	0.000362785875349939
	0.2414868715224572	6.2429226768323e-08	4.78733597637437e-07
	0.4390399255826481	1.71338904404166e-22	8.16296266578747e-21
ENSG00000197170	17	67337916	67366627
	28711	0.2948439481047231	1.76547891589409e-43
	2.80657102354225e-41		
	0.2254515785172081	1.08189675712966e-28	2.09637681334864e-27
	0.1333463207558893	3.30683034213824e-12	1.29439974623547e-10
	0.0604722033568885	0.00124910004238757	0.00856879328945661
	0.0808904227659122	1.92043610515325e-05	0.00015931029862717
	0.1485586198171841	1.38251811060892e-14	2.74822377173661e-13
ENSG00000197408	19	40991299	41018398
	27099	2.29414113064664	7.48169075878743e-48
	2.04486421633595e-45		
	3.90871301803141	2.08115329023983e-95	6.48445742172925e-92
	1.21672569279485	1.0111837350595e-17	9.72421691882222e-16
	2.50343640036369	3.38453185291621e-54	5.27276217365816e-50
	3.09698734047051	1.26457935067319e-71	1.97008817041376e-67
	2.75500068541132	2.6005937193023e-62	1.76150650230481e-59
ENSG00000198146	15	34978341	34988287
	9946	0.2305476918613218	2.29690593466e-20
	9.69673650083032e-19		
	0.4548146040612031	1.03978520130831e-56	1.66998078878166e-54

	0.1968712969595462	.22603219070192e-15		1.45101905853327e-13	
	0.1291698843425741	.1307442180487e-07		4.71012411042265e-06	
	0.2270881794737563	.59874267559184e-19		6.22942357144948e-17	
	0.1871851989837063	.83958472117489e-14		7.28585753607596e-13	
ENSG00000198431	12	104215779	104350305	protein_coding	TXNRD1
	134526	0.8908540192888333	.69208393971002e-57		
	2.87594878483712e-54	0.7309259434033356	.21802641653825e-43		
	3.69735242531486e-41	0.2133904648046255	.17850202419142e-06		
	4.91728931734545e-05	0.2154135234158124	.68494913693704e-06		
	9.66391596685147e-05	0.42403514028522	6.19249819682266e-18		
	8.93267864891669e-16	0.5437279680151622	.26648962040537e-27		
	1.66554914133468e-25				
ENSG00000198682	10	87659613	87747705	protein_coding	PAPSS2
	88092	0.4099383542773031	.52503355595053e-33	7.42453055254792e-32	
	0.3332889626804134	.40525127813312e-24	6.02012365456456e-23		
	0.1316089071548761	.98322897539575e-05	0.000159755554331388		
	0.1043795216997760	.000715112396782219	0.00553989857258587		
	0.1652621505957141	.368070603346e-07	2.0572559777536e-06		
	0.1297014527450852	.57446746261962e-05	0.000124519182242009		
ENSG00000211452	1	53891239	53911086	protein_coding	DIO1
	19847	0.4019964418944499	.08809918344117e-09	3.47785549444436e-08	
	1.56532366496626	1.02742490413811e-72	5.51939744191985e-70		
	0.3413265351430588	.11618936612798e-07	9.56445643985686e-06		
	0.6114146681071711	.7633743549515e-17	7.84903116451128e-15		
	0.6415664814019428	.91393106828235e-19	1.4465638761747e-16		
	1.45941649027362	8.93512327990933e-67	7.32633081987934e-64		
ENSG00000214160	3	184242301	184249548	protein_coding	ALG3 7247
	0.3741145902440854	.89846973063024e-35	2.9464579124899e-33		
	0.4649007947979071	.11690572293542e-48	1.02960202707757e-46		
	0.0880748614677040	.00124323405066479	0.00554172912025944		
	0.1503020464774986	.15566955730161e-08	2.77968626183193e-06		
	0.1687775602444411	.70556348227893e-09	4.26500377053345e-08		
	0.1199314205683441	.25411853423805e-05	6.4439025873663e-05		
ENSG00000226900	10	132511626	132518191	lincRNA	6565
	0.6877863085138276	.15199153128741e-05	0.00014753983384533		
	1.15731800728465	3.36787858349572e-11	1.55691930125459e-10		
	0.6501167471681050	.000141870767091679	0.000875488312058317		
	0.7077142143698	3.80002594661956e-05	0.000528576823414162		
	0.66935847938232	0.000103758085473514	0.000690199493420957		
	1.7053082522426	1.8398689963364e-21	7.74684299835803e-20		
ENSG00000229425	21	15370500	15627342	lincRNA	256842
	1.03534604089525	4.73079237807619e-13	2.82163148767416e-12		
	2.53625316403221	1.58376191081722e-54	2.26361713840564e-52		
	0.7408125499715551	.35944524031814e-07	1.92359649399785e-06		
	0.8818242169055275	.42782788385433e-10	5.45549229693978e-08		
	1.04236653157913	4.40892317073452e-13	2.5534057277648e-11		
	2.41086570701035	6.35009490368132e-51	2.19840285565447e-48		
ENSG00000230438	6	2854657	2881407	lincRNA	SERPINB9P1
	26750	1.73110949607723	2.44366351740743e-37	1.81284923512811e-35	
	3.27753574242468	3.78227914504735e-90	6.54712520007697e-87		
	1.18060502350421	2.85593067456365e-20	3.86891686774149e-18		
	1.35638131031666	2.71156602226803e-25	3.52029058840947e-22		
	1.84332554771494	6.81393109170705e-41	9.65038477070037e-38		
	3.27773438066833	1.41667220877308e-90	1.10351681702379e-86		

ENSG00000231683	6	53561289	53617171	lincRNA	55882
		0.7126729067172381	1.48103153299795e-20	1.84731707386509e-19	
		0.8822000503484433	3.937692590105e-29	7.84466916384218e-28	
		0.33507937417671	4.44240819712492e-06	4.29598245208003e-05	
		0.2937547447314335	5.86355067086537e-05	0.000759968851093274	
		0.3201579622261921	1.34612867183537e-05	0.000115927797559553	
		0.2487730651143180	0.000614706430415358	0.00215489796517086	
ENSG00000240224	2	233712992	233773299	protein_coding	UGT1A5
		60307	3.94540960228678	6.92941920064429e-48	1.92773967369353e-45
		5.44309306201796	2.43178638237377e-74	1.51539200204004e-71	
		1.83462237711554	3.39090257777048e-14	1.82161625031332e-12	
		2.23883869238161	1.25539966514219e-19	7.82314855330007e-17	
		3.19031591536374	1.61646067905709e-34	1.39904671772391e-31	
		4.63626866154666	1.6835623059576e-60	1.04912868658054e-57	
ENSG00000241119	2	233671853	233773300	protein_coding	UGT1A9
		101447	0.2392463490619623	3.90510247901678e-05	
		9.61555105430731e-05	0.68213421269401	9.96475320847336e-28	
		1.80933438502105e-26	0.3283743170041321	1.95228966871791e-08	
		3.45621826692686e-07	0.2942558218285594	9.033033933428e-07	
		1.52761421654402e-05	0.4852595294953339	9.46546537532352e-16	
		9.51370871497839e-14	0.2162119888252730	0.00018265507708464	
		0.000723698740056358			
ENSG00000241635	2	233760248	233773299	protein_coding	UGT1A1
		13051	1.70947661572156	1.70394604274946e-81	5.30915507999878e-78
		1.52116752174572	2.72987790950198e-70	1.28875054400398e-67	
		0.6344873586635816	7.7633298413398e-19	7.81988826369061e-17	
		0.7549644582513766	6.50548243159405e-25	7.79607006167721e-22	
		1.12907785785035	3.44707370257935e-46	6.71274515156047e-43	
		1.31316081670995	3.74110954007871e-58	2.00974984568573e-55	
ENSG00000242372	20	35278907	35284985	protein_coding	EIF6 6078
		0.2376488829738824	4.7145896025376e-22	6.47405754105886e-21	
		0.2751142954060435	5.25132546302002e-28	9.69317528298446e-27	
		0.0698358963087378	0.00248488081448802	0.00989063827514277	
		0.0741678210072703	0.00139544802101603	0.00929841091505937	
		0.1404272576298283	2.1725445568608e-09	7.45857249481152e-08	
		0.1072119364765544	1.13843481858657e-06	2.33427501950616e-05	
ENSG00000243135	2	233729108	233773299	protein_coding	UGT1A3
		44191	1.05683223189944	3.99660366174761e-32	1.68278617422611e-30
		1.05247945052235	5.58049974338068e-32	1.40223557261496e-30	
		0.4770715868472589	5.0740086008772e-09	1.81757866239988e-07	
		0.4007858372216741	1.39454829082335e-06	3.49049709815658e-05	
		0.89334915008461	2.57666202470758e-24	8.54081227296158e-22	
		1.58048826901815	4.74977147865697e-59	2.74061814318507e-56	
ENSG00000244474	2	233718778	233773299	protein_coding	UGT1A4
		54521	1.8558642774927	2.58477606762815e-65	4.47424737306433e-62
		2.47944187259668	8.36406158602257e-94	1.86148164926637e-90	
		1.11894224355239	3.47755774767368e-31	1.50491311530578e-28	
		1.19973435224781	1.50111256787408e-34	2.92322908686378e-31	
		1.71814709656505	2.09131777508233e-58	1.08602132060025e-54	
		2.38500777534571	3.58185174718972e-90	1.86005561231562e-86	
ENSG00000248709	5	115755644	115756286	lincRNA	642
		0.26066028900259	0.0029691365106434	0.00556097351518556	
		1.49359702979978	1.19847581168851e-50	1.22835885988785e-48	
		0.566847633383174	1.13505005810574e-10	3.19763921432718e-09	

	0.745591077935554	1.33192997362446e-16	5.60814515110687e-14	
	1.15621020667176	6.29529582494827e-34	4.90372068284346e-31	
	1.64167914300439	3.6862074919343e-58	2.00974984568573e-55	
ENSG00000250799	19	35799988	35813299	protein_coding PRODH2
	13311	0.2998735229075771	1.39160203768839e-06	4.11536980735525e-06
	1.52292225174423	6.62603317147717e-81	6.45168567365268e-78	
	0.3132257228512324	2.3013804221768e-07	5.3404635785826e-06	
	0.44430438847195	2.1232200338724e-12	4.08365986514792e-10	
	0.49687658431022	8.45469720932678e-15	7.00615573532457e-13	
	1.38799149493334	2.03356972580089e-72	2.4369986737117e-69	
ENSG00000254986	11	66480013	66509657	protein_coding DPP3
	29644	0.16292685768545	1.5694129192442e-19	1.78206150647998e-18
	0.1032027918546133	2.1340574202817e-09	1.21538354103076e-08	
	0.0910500771120182	1.36121979756767e-07	1.92435963941078e-06	
	0.0572987573819335	0.000840673462275194	0.00628146372603609	
	0.0890824436727113	3.13264565038584e-07	4.28476616219148e-06	
	0.0862224520995847	5.81943120648256e-07	3.90443233272144e-06	
ENSG00000255974	19	40843538	40850447	protein_coding CYP2A6
	6909	0.9848765152898071	1.61787390516199e-15	1.22116557987009e-14
	2.71177055619925	2.35308876311561e-72	1.22195899468593e-69	
	0.6959621266477927	5.4197096388446e-09	1.47608499555724e-07	
	1.65672419064274	5.70075351548702e-36	1.48020065029621e-32	
	1.97355247134412	1.88699706049433e-46	4.19964674363446e-43	
	1.43163110905536	7.93659105377647e-29	6.71979087102085e-27	
ENSG00000278619	17	36601572	36608971	protein_coding MRM1 7399
	0.41764387198833	1.84896639175057e-11	9.32503963000391e-11	
	0.5946839639616981	1.30741828442916e-20	1.34978591471981e-19	
	0.2143841979469170	0.000401815529908286	0.00213356651003449	
	0.2256624486027750	0.00021186455124634	0.00211579348965816	
	0.1942451805493190	0.00145716567380743	0.00659992243557029	
	0.2951664801772621	1.33013339714145e-06	8.31880698276459e-06	

Gene.stable.ID	Chromosome.scaffold.name	Gene.start..bp.	Gene.end..bp.	Gene.type	HGNC.symbol	length	Omeprazole-Baseline_lfc	Omeprazole-Baseline_p	Omeprazole-Baseline_FDR
ENSG00000003756	3	50088908	50119021	protein_coding	RBM5				
			30113				-0.176621976256151		1.08955300407604e-32
							4.83593910270675e-31		-0.165148252950232.11888683449862e-29
							4.32069869039973e-28		-0.1342128348839 3.64690399903025e-21
							5.85722859803013e-19		-0.0999301801626045 6.70441440634025e-13
							1.51916705057693e-10		-0.118011400072821 7.49064721224776e-17
							9.11693694684436e-15		-0.0488514815673469 0.000290027531811295
							0.00109908511751111		
ENSG00000006607	2	241356243	241494841	protein_coding	FARP2				
			138598				-0.247550821922885		8.65634314201957e-22
							1.22153233523119e-20		-0.339091361395812 4.5515009854804e-36
							1.59702328497295e-34		-0.117389281850598 1.58933211746808e-06
							1.73269454569876e-05		-0.128140428072591.99100782885288e-07
							7.40284271257735e-06		-0.0885138926748397 0.000304720638981036
							0.00173193828335847		-0.0779983370677098 0.00130320976807586
							0.00420955939806216		
ENSG00000013288	4	6575175	6623362	protein_coding	MAN2B2				
			48187				-0.355679347427894		7.32358842974493e-36
							4.75392433945817e-34		-0.362963723955031 4.97622939044261e-37
							1.88624519887361e-35		-0.081091651010551 0.00147874211558574
							0.0063992565051973		-0.107291866962999 3.11172741313421e-05
							0.000447623281340885		-0.181279178008643 6.87632898381762e-12
							2.96748834456772e-10		-0.162747373420058 4.10428571544013e-10
							4.49653074267523e-09		
ENSG00000014914	1	149928651	149936869	protein_coding	MTMR11				
			8218				-0.461633190381831		7.64247751310412e-23
							1.20022335863557e-21		-0.667261709691127 6.534507492029e-41
							3.28390620059096e-39		-0.210903392084765 1.89996266411091e-06
							2.04134609270234e-05		-0.211599787560336 1.95491796298852e-06
							4.6214972603032e-05		-0.309789594114379 9.151539316014e-12
							3.82230109930783e-10		-0.684283333304657 1.22980332339679e-42
							2.69846563030966e-40		
ENSG00000017427	12	102395867	102480645	protein_coding	IGF1				
			84778				-0.611473416465603		9.07779034513153e-21
							1.16015501055623e-19		-0.893639049224858 5.06634257268343e-38
							2.07706712999566e-36		-0.610414691612356 7.02315853811858e-21
							1.04203606538428e-18		-0.233690636449571 0.000164497144860407
							0.00174452077588855		-0.304818339616562 1.17938028452511e-06
							1.38147108666291e-05		-0.585856072885847 1.7234592227965e-19
							5.79908665916774e-18		
ENSG00000032219	14	58298385	58373887	protein_coding	ARID4A				
			75502				-0.437517795965347		2.79052045371823e-33
							1.31737933783262e-31		-0.357933945328033 3.39276708868549e-24
							4.70248385005617e-23		-0.165284994733618 6.53052925854431e-07

	7.85024037954181e-06	-0.171085981780458	3.05236309944271e-07	
	1.03151333462512e-05	-0.221244659276397	.20314050573567e-11	
	2.45553010807125e-09	-0.172464673842258	2.23164050392761e-07	
	1.60957071345779e-06			
ENSG00000043143	5	134524312	134583230	protein_coding JADE2
	58918	-0.451184480093629	2.00151167726181e-28	
	5.81745343657868e-27	-0.411323595761521	1.46013019058409e-24	
	2.0869145173495e-23	-0.119664886752980	0.00138047887444537	
	0.00602929082842288	-0.185416818249161	1.0386600055627e-06	
	2.79953014302099e-05	-0.160404193277409	2.38293304903652e-05	
	0.000191853818971266	-0.145121346157587	0.000112917177292259	
	0.000470609070368138			
ENSG00000044012	1	42153421	42155824	protein_coding GUCA2B
	2403	-0.947073787605651	5.71908075204316e-27	
	1.43013738420675e-25	-1.337431540570229	2.8198190184822e-46	
	6.88590457375683e-44	-0.735767425891555	5.01693664018162e-18	
	5.21059039449263e-16	-0.306803077973274	0.000169246064630035	
	0.00177913929883355	-0.590630287361897	2.18671514543365e-12	
	1.06792586992824e-10	-0.826661967050881	9.08817907193572e-22	
	4.02502300525873e-20			
ENSG00000049768	X	49250436	49264826	protein_coding FOXP3
	14390	-1.565201679023422	4.1832711762747e-12	1.33979794329724e-11
		-2.847144657915732	0.4756872083937e-32	5.37021432692871e-31
				-
	0.8823216939094344	5.0407603812867e-05	0.000326975771658931	-
	1.0769995410366	8.59580790237613e-07	2.39989410951824e-05	-
	1.89896652389897	8.86900167769662e-17	1.05473417661707e-14	-
	2.57336679843601	1.11902285066051e-27	8.58781132533991e-26	
ENSG00000054793	20	51596514	51768634	protein_coding ATP9A
	172120	-0.357215088539026	3.09333339034241e-25	
	6.34928074942613e-24	-0.451582583498155	1.2765404779409e-36	
	4.69038304383049e-35	-0.138374827574648	1.68621375584094e-05	
	0.000138042691025991	-0.109848210619396	0.000635068496778412	
	0.00503241714715711	-0.129299147373807	6.5888513044756e-05	
	0.000464890011197579	-0.309496979575772	4.17403157941149e-20	
	1.49832345566018e-18			
ENSG00000054965	11	73400487	73598189	protein_coding FAM168A
	197702	-0.260578600399621	4.22411024181453e-29	
	1.32944269610563e-27	-0.163927549770112	1.25348411393952e-13	
	7.32209561719678e-13	-0.128054811324166	3.70309552084345e-09	
	7.79601690800271e-08	-0.0756271334717891	0.00043038211325277	
	0.00371875925810588	-0.089809530740272	3.35927898435413e-05	
	0.000260498791922613	-0.112478491570437	1.93789855733639e-07	
	1.41554284457117e-06			
ENSG00000058091	7	90466424	91210590	protein_coding CDK14
	744166	-0.415783230753547	4.1147763278561e-39	
	6.87282202625994e-37	-0.382219324204385	3.69315482995281e-34	
	1.11719726399679e-32	-0.150849052165004	1.38702445334986e-07	
	1.95198319410456e-06	-0.126588568295718	9.67449552910611e-06	
	0.00017794446971422	-0.161832136032376	2.34744576758546e-08	
	4.34333225810142e-07	-0.110829074635287	9.55776414874334e-05	
	0.000405391798729302			
ENSG00000065485	3	123067062	123225227	protein_coding PDIA5
	158165	-0.185371922333923	1.37321397812072e-12	
	7.81347719691112e-12	-0.476032075380993	6.94363280758891e-56	

1.05024131562551e-53	-0.202996553804796	9.61616369680965e-15
5.67462932699233e-13	-0.141864452146437	3.788121354123e-08
1.8794631393593e-06	-0.183642201715619	2.64558230224849e-12
1.24497581817401e-10	-0.100586970202125	7.61298485823642e-05
0.000330645918891734		
ENSG00000067113	5 55424854 55535050	protein_coding PLPP1
110196	-0.424313226331522	3.38846428698135e-34
1.26996194972295e-32	-0.479778201441103	1.6232776020851e-41
8.69039235837933e-40	-0.222114944077054	6.60807786505264e-12
1.72986132673868e-10	-0.228084530805381	1.66748943871299e-12
3.28833138806452e-10	-0.281843590952361	3.31516682549156e-17
1.75119521148145e-15	-0.272830043809482	6.33009830887843e-17
1.61138237833361e-15		
ENSG00000068383	10 132537820 132783480	protein_coding INPP5A
245660	-0.199679778723702	3.13133313436173e-22
4.62837181216521e-21	-0.261560433037162	6.3278745363318e-34
8.02665278672238e-33	-0.0955344133789762	9.63802660420214e-07
1.1092999517812e-05	-0.0794079527495573	4.61998613929834e-05
0.000622619066298692	-0.0649250234730365	0.000871253224025203
0.00425227254921323	-0.118994909071626	1.51240735550184e-09
1.53898067873045e-08		
ENSG00000069869	15 55826922 55993746	protein_coding NEDD4
166824	-0.259608523665332	3.98927673526692e-23
6.4603890081833e-22	-0.283227008700478	1.23122957746964e-26
2.04273967916927e-25	-0.0812296848746756	0.000933782002705983
0.00435942158230642	-0.0830760502451504	0.000756930242305932
0.00576354655175176	-0.126959806438608	3.94489582554336e-07
5.21710798524109e-06	-0.152614403572176	1.02012972316719e-09
1.06233963617792e-08		
ENSG00000070614	5 150485818 150558211	protein_coding NDST1
72393	-0.298735362896906	3.24154746092982e-28
9.3001966655296e-27	-0.381133254943602	2.96316767941999e-41
1.54910031133168e-39	-0.144688588347323	1.1583254986881e-08
2.17482481817131e-07	-0.123256979926804	1.13264612179481e-06
2.99583937715473e-05	-0.221062868200788	4.20413938275512e-17
5.32490141820667e-15	-0.173815763870859	1.10249261887104e-11
1.50371554867263e-10		
ENSG00000070759	1 45343883 45491166	protein_coding TESK2
147283	-0.385719404925291	1.44151992004396e-23
2.43573089309813e-22	-0.2888791506808	1.03942669115102e-14
6.63995120936496e-14	-0.112157889207893	0.00177183376315682
0.00745030990451284	-0.121766375020366	0.000741441715751924
0.00568171199690075	-0.155252106809144	2.0260122056993e-05
0.000166796566629187	-0.163371589269366	6.48194945505763e-06
3.52714951311012e-05		
ENSG00000077684	4 128809623 128875224	protein_coding JADE1
65601	-0.388773571770621	1.95054573490246e-24
3.70128526236851e-23	-0.502389979858447	9.43509596998629e-37
3.50809928678798e-35	-0.165551405257298	3.64825906617084e-06
3.6155361317987e-05	-0.181436273370351	4.7202939661033e-07
1.48798273867612e-05	-0.268177520453255	3.58375448108344e-13
2.15564907570652e-11	-0.267089484903527	2.93257164004643e-13
4.98761283627547e-12		

ENSG00000078699	20	33490075	33650036	protein_coding	CBFA2T2
159961	-0.251145826674155		5.2971133630934e-23		
8.48136989554287e-22	-0.125717100346924		1.95790121388171e-07		
6.27616111338749e-07	-0.152141661548313		3.67945101710216e-10		
9.38169679139681e-09	-0.0928502092913579		0.000107646227034762		
0.00124315831799448	-0.112908720629629		3.06878845277619e-06		
3.23468574464143e-05	-0.111944736109624		3.09584285516173e-06		
1.79094451691662e-05					
ENSG00000079557	4	73481683	73504001	protein_coding	AFM
22318	-0.616633875295452		2.7441170908503e-15		
2.01368818456698e-14	-0.630197610563645		7.62462951272609e-16		
5.38215238689442e-15	-0.370373872582704		9.63081723265731e-07		
1.1092999517812e-05	-0.251811266959638		0.000826516255458988		
0.0061935049272706	-0.362557797596665		2.00746587938766e-06		
2.22118685617758e-05	-0.449639060362491		3.54041894528532e-09		
3.38797215900491e-08					
ENSG00000079950	6	132445867	132513198	protein_coding	STX7
67331	-0.233994856252294		2.98691214040175e-32		
1.27838198448678e-30	-0.353566792017993		1.45124844520056e-59		
3.09712322298351e-57	-0.076834016844165		2.09973993610223e-05		
0.000168357429050626	-0.111817683182964		1.1907254434785e-09		
1.03633026167327e-07	-0.094018288326474		2.91688103320465e-07		
4.02498579418027e-06	-0.125981361875278		3.6506574775814e-12		
1.16252773670227e-10					
ENSG00000081051	4	73431138	73456174	protein_coding	AFP
25036	-0.290328262403309		2.6454093908833e-06		
7.55228750239526e-06	-0.583732623797531		1.56819122723628e-19		
1.47797042523376e-18	-0.287205338634983		3.00704407606664e-06		
3.06588610347134e-05	-0.235694619533433		0.000126906483986135		
0.00141522985971367	-0.263862740345385		2.01912830934947e-05		
0.000166345848394264	-0.226147273028152		0.000220481383524065		
0.000857219733945946					
ENSG00000081059	5	134114711	134151865	protein_coding	TCF7
37154	-0.378638543478761		9.04105900722953e-18		
8.43417115410951e-17	-0.408569166966595		3.44136463956501e-20		
3.42137968856307e-19	-0.138035682817633		0.000988343279461632		
0.00456760603700171	-0.145444752769401		0.000557414815987068		
0.00454186901271001	-0.251436954526482		4.98708725840662e-09		
1.09892266476261e-07	-0.291058108345332		1.38783051690357e-11		
1.87357119781982e-10					
ENSG00000088854	20	3249305	3407625	protein_coding	C20orf194
158320	-0.285647411688018		8.89079579609909e-19		
9.27727446131465e-18	-0.352301381158977		1.76191323238805e-26		
2.89335847080761e-25	-0.181189808221335		8.86005799655441e-09		
1.17495294116243e-07	-0.127588067856578		3.65057273936817e-05		
0.000510331827162113	-0.160317805893778		2.8808686217423e-07		
3.98234713914138e-06	-0.102519193255219		0.000826483450949846		
0.00280212963707239					
ENSG00000089041	12	121132819	121188032	protein_coding	P2RX7
55213	-1.026392794383451		4.48846193197534e-38		
-0.926744909803216	4.757432086722298e-33		1.31879064909355e-31		
-0.317045152345962	6.49312867036179e-06		5.99623305012249e-05		
-0.298643612944576	2.28107524173483e-05		0.000348400697950852		

```
-0.277846324590768.45632205655466e-05 0.000579591030880181 -
0.5396158901508938.20042521513029e-14 1.48206988893869e-12
ENSG00000099260 1 99645943 99694541 protein_coding PALMD
48598 -0.735039322682031.62471870821492e-25 3.42974156575613e-24
-0.769159344305191 1.82778876323949e-27 3.23949045989852e-26
-0.541296685541862 1.45424537218021e-15 9.72347152497661e-14
-0.294718458730074 8.2222737768498e-06 0.00015470386856225
-0.483474317303862 1.04740337608675e-12 5.53135498171374e-11
-0.542231716335555 1.32507812849683e-15 2.94484909612726e-14
ENSG00000100097 22 37675608 37679806 protein_coding LGALS1
4198 -0.255907200400789 5.61857953228279e-08
1.95820694705668e-07 -0.910295904147143 1.48211902474743e-59
3.12026111980272e-57 -0.191840171456733 3.69341403201686e-05
0.000275441346121544 -0.208155848554899 8.68757167074577e-06
0.000162282588799219 -0.283572274327308 2.47404712074617e-09
5.92061138158287e-08 -0.318126681386682 1.93489573812872e-11
2.55889140104476e-10
ENSG00000100612 14 60144120 60169856 protein_coding DHRS7
25736 -0.160431155960082 8.50661750253727e-18
7.94988566718825e-17 -0.261972150579161 4.24903155272943e-39
1.87523123399353e-37 -0.0694260079050224 9.95314452850153e-05
0.000646083494206356 -0.0997573883048526 3.62973749581667e-08
1.81825339058932e-06 -0.138409837106684 7.96773860883647e-14
5.64224544486651e-12 -0.131688214544051 6.12176970112352e-13
9.99696542702341e-12
ENSG00000100650 14 69726900 69772005 protein_coding SRSF5
45105 -0.2415151039278 5.23820774244641e-35 3.13869378536818e-33
-0.284938710730708 5.17763685795703e-45 3.58499576044945e-43
-0.108903541075178 1.27054640520263e-09 2.90940774697157e-08
-0.0794900721229244 8.11431396899238e-06 0.000153227754330827
-0.1359269218061 1.25523991177204e-13 8.57692218662135e-12 -
0.0520989345639125 0.00306097573725132 0.00896371071628538
ENSG00000101849 X 9463295 9719743 protein_coding TBL1X
256448 -0.0675640336317418 0.000400101065237941
0.000859037278850866 -0.0772835573415875 5.36435023639722e-05
0.00012845252433574 -0.080546668069001 2.38882940519571e-05
0.000188433282549589 -0.0667317761641124 0.000469860111628298
0.00396745294257846 -0.0937831758511214 1.21559707038176e-06
1.41856080595337e-05 -0.180359655239362 1.5176276285623e-19
5.17354941474225e-18
ENSG00000102901 16 67828157 67847811 protein_coding CENPT
19654 -0.178555613256561 1.22068929236785e-14
8.39978731704889e-14 -0.485095568983763 2.5710557719162e-68
9.76938484650794e-66 -0.0968293814815917 1.52264106600518e-05
0.000126445763151891 -0.170251986150779 1.56042995109445e-13
4.19136865656905e-11 -0.206996761930329 1.47704261855404e-18
2.32432797519731e-16 -0.139441394389553 8.14685728126324e-10
8.57295416151725e-09
ENSG00000103769 15 65726054 65891991 protein_coding RAB11A
165937 -0.0673733693254004 3.44085183382591e-05
8.53583291706591e-05 -0.295495667934537 5.36378567894862e-54
7.14208693096928e-52 -0.0704241530667389 1.39084172438149e-05
0.000117165281842643 -0.060198762305375 0.000207216146275737
0.00208406736141363 -0.0605637331922075 0.000203495217169715
```


	0.00122261935529772	-0.0695400750071462	1.777854219954e-05		
	8.91731838141126e-05				
ENSG00000103966	15	41895939	41972578	protein_coding	EHD4
	76639	-0.243413125766026	2.99461509051953e-14		
	1.99032032829368e-13	-0.321040192997412	1.65467817392052e-22		
	1.98141670034648e-21	-0.100559047709472	0.00111709056388947		
	0.00506937194722809	-0.123031300262881	7.65013899206926e-05		
	0.000940659158306606	-0.117646640182224	0.000164811851640365		
	0.00102458253659427	-0.128688671859366	3.31017110397648e-05		
	0.00015712722616956				
ENSG00000104219	8	17156029	17224799	protein_coding	ZDHC2
	68770	-0.218056998688877	5.64166860342254e-17		
	4.89101586937784e-16	-0.309280088024206	4.92520590936049e-30		
	1.0598036306896e-28	-0.117815248736417	2.56241897444733e-06		
	2.66844419805581e-05	-0.0985083429242515	8.40322075261792e-05		
	0.00101169842430475	-0.141308735418554	2.76146542813254e-08		
	4.98503706893128e-07	-0.116039981326819	3.66514363799549e-06		
	2.08391506336977e-05				
ENSG00000104361	8	98189833	98294393	protein_coding	NIPAL2
	104560	-0.290269337443215	3.0803608834164e-21		
	4.1156897257928e-20	-0.275100655812191	1.74406208561383e-19		
	1.63679176095047e-18	-0.110797779941304	0.000129418254524382		
	0.000811239013755217	-0.110425711430054	0.000146223357607841		
	0.00158305329268419	-0.116502968470507	6.75190555949512e-05		
	0.000475318286088452	-0.120337058698006	3.39494589550019e-05		
	0.000160759459288746				
ENSG00000105697	19	35280716	35285143	protein_coding	HAMP 4427
	-2.031351647326429	4.5557861422519e-50	3.42577812165149e-47	-	
	2.28128997282991	3.74850086898709e-58	6.87034059269999e-56	-	
	1.21658248464693	2.49426183629882e-23	5.11290857206571e-21	-	
	0.56569628630911	9.2811082076284e-07	2.55009496942933e-05	-	
	0.5271204586329494	7.4537482403335e-06	4.69683572958167e-05	-	
	0.7794029097616752	6.4161543668137e-11	3.42947724067159e-10	-	
ENSG00000105852	7	95359944	95396368	protein_coding	PON3
	36424	-0.521937236993055	1.17479574323765e-39		
	1.22014285892663e-37	-0.258924809400708	8.58882516833325e-13		
	4.64279345237556e-12	-0.144000960884085	4.25913484068468e-05		
	0.000311258747434503	-0.150455612804918	2.11600627565026e-05		
	0.000328666617830063	-0.163640892340812	4.36701841628615e-06		
	4.3836198393893e-05	-0.245852557007204	8.05773590416869e-12		
	1.12483393952548e-10				
ENSG00000106025	7	120787320	120858402	protein_coding	TSPAN12
	71082	-0.156506065782342	3.27941251078356e-08		
	1.18209087240854e-07	-0.202995114498986	1.47084316146747e-12		
	7.79396789540875e-12	-0.103942597966228	0.000190084388032576		
	0.0011302765958624	-0.105601648378464	0.000161381665487688		
	0.00172021393977179	-0.217248309645783	6.43544154861164e-14		
	4.70693633266764e-12	-0.101310089158487	0.00027826228222852		
	0.00105681328494347				
ENSG00000106070	7	50590063	50793462	protein_coding	GRB10
	203399	-0.344404893374958	1.62515094213518e-38		
	1.406568140418e-36	-0.345262409365249	1.07397124540975e-38		
	4.59653792094466e-37	-0.116719606798434	9.53004946278701e-07		
	1.10058295463869e-05	-0.132339131153779	3.64965587316453e-08		

	1.82237143743687e-06	-0.168942817279466	4.75611577053708e-12		
	2.12308101974777e-10	-0.249300771580922	3.16806148096131e-23		
	1.66179224955879e-21				
ENSG00000107438	10	95237572	95291024	protein_coding	PDLIM1
	53452	-0.238071629364411	6.62827549129255e-17		
	5.70507756236721e-16	-0.371447691827348	9.63061804094618e-35		
	3.03101815070506e-33	-0.0942268962332786	0.000545580719754184		
	0.00276050731830154	-0.114372489098743	3.16112113006224e-05		
	0.000453055253774053	-0.162097715763757	6.50671533771533e-09		
	1.4001121304733e-07	-0.160039679197766	7.14519949994562e-09		
	6.56726035455179e-08				
ENSG00000107819	10	101031234	101041244	protein_coding	SFXN3
	10010	-0.172228279309643	8.92164641733971e-07		
	2.6977936633489e-06	-0.551986520596809	4.14044943807017e-44		
	2.72169037112638e-42	-0.123785781703955	0.000347543206575063		
	0.00188983442067466	-0.116504718988945	0.000794170778486201		
	0.00599624159494584	-0.196135725330365	2.91732643464765e-08		
	5.23003780499146e-07	-0.283617895630815	2.68864081020116e-15		
	5.74572499068914e-14				
ENSG00000107882	10	102503987	102633535	protein_coding	SUFU
	129548	-0.133496540193812	1.37891267565089e-08		
	5.16272063781908e-08	-0.263083822274949	3.83842872468288e-26		
	6.14582539587199e-25	-0.136760390396419	5.39653870738125e-09		
	1.08902430728358e-07	-0.0901682570664244	0.000104025325716501		
	0.00121303184830641	-0.101788720601905	1.35719930304437e-05		
	0.000116752114534115	-0.0845624233340789	0.000255463551758984		
	0.00097881620089848				
ENSG00000108231	10	93757809	93806272	protein_coding	LGI1
	48463	-0.651698195361309	8.28794906077984e-26		
	1.80584557227817e-24	-0.536972313454294	2.47516622497797e-19		
	2.28034385682624e-18	-0.269870388785522	1.76658033195319e-06		
	1.90989278219977e-05	-0.244849616548757	1.5704000728892e-05		
	0.000258344907450273	-0.392022566221129	1.74911932115248e-11		
	6.84661555382778e-10	-0.262833391420244	4.16928725771159e-06		
	2.34997562184837e-05				
ENSG00000109670	4	152321259	152536101	protein_coding	FBXW7
	214842	-0.144870755772796	1.18497545561166e-10		
	5.51890362420747e-10	-0.235242693569233	1.0606422344863e-23		
	1.40508038869576e-22	-0.1627872976454	5.28866560851871e-13		
	2.33405443385589e-11	-0.104371513736647	2.53896955723936e-06		
	5.76597765775977e-05	-0.0789473751031098	0.000360959576830986		
	0.00200306335800935	-0.123175335812572	3.04049884970909e-08		
	2.54119804611684e-07				
ENSG00000110066	11	68154863	68213828	protein_coding	KMT5B
	58965	-0.245479031169402	1.27187315724189e-31		
	5.0676501065656e-30	-0.403645608242556	1.12457272562713e-65		
	3.57545275358062e-63	-0.0896805112883303	3.12501106818243e-06		
	3.16544521659389e-05	-0.0774664462724566	5.71444143451468e-05		
	0.00074249610599086	-0.186352615603221	4.10475098113709e-20		
	8.19845070963265e-18	-0.0871336935674858	5.87580592880018e-06		
	3.21754588979887e-05				
ENSG00000110514	11	47269161	47330031	protein_coding	MADD
	60870	-0.122583066815544	1.8898538836626e-14		
	1.27234371882367e-13	-0.190935531984767	7.38188821259919e-30		

1.56679068752156e-28	-0.0601508437437452	9.92332950889263e-05
0.000644617668332862	-0.125596752579725	4.80779278817343e-15
1.59362986908413e-12	-0.107314691758916	1.62159231314999e-11
6.41187478339179e-10	-0.0593567686701491	0.000123190374084382
0.000509878543533631		
ENSG00000111057	12 52948871 52952901	protein_coding KRT18 4030
-0.118186141488033	3.09165899719329e-05	7.72989175369512e-05
-0.431235424531128	1.23293475352884e-41	6.69264478230864e-40
-0.122711459403433	1.40986063095557e-05	0.000118341695957203
-0.156945540754595	4.12714787798305e-08	2.02829138142265e-06
-0.177759358410226	7.83909046741161e-10	2.13879492805263e-08
-0.293113853848627	8.11642706789561e-23	4.01415292986494e-21
ENSG00000111700	12 20810702 20916911	protein_coding SLCO1B3
106209	-0.715414979638491	4.71860637985578e-29
1.473169715266e-27	-0.897324640377391	1.97038596853674e-41
1.04766699671788e-39	-0.384274991667354	1.04700426533802e-10
2.98741381862656e-09	-0.309999193606962	1.64731249483397e-07
6.41034721757766e-06	-0.462362644912944	2.79090262004231e-14
2.18489808631353e-12	-0.566408610096424	4.04094026049388e-20
1.45389857547885e-18		
ENSG00000112139	6 37630679 37699306	protein_coding MDGA1
68627	-0.648173821407162	5.34059021899035e-21
6.9449962455468e-20	-1.17285905834944	2.02711526169313e-50
2.06408030470047e-48	-0.687834638972888	4.53424613636451e-23
8.82987756980284e-21	-0.408028287999409	8.03043750087122e-10
7.58219308036805e-08	-0.459146517315514	6.93407662649513e-12
2.98414308740794e-10	-0.255996011736361	7.71587474052691e-05
0.00033446191592284		
ENSG00000112186	6 17393216 17557792	protein_coding CAP2
164576	-0.200131944679668	3.53050297948125e-19
3.86247934812769e-18	-0.233956055931469	8.72349175628971e-25
1.26893817059979e-23	-0.154073782344729	1.51600054207227e-12
6.1988904054971e-11	-0.101061123381436	2.4941291865171e-06
5.68070739718566e-05	-0.127524181662031	4.52558052087709e-09
1.00919373344731e-07	-0.0997920694114773	3.01033874935497e-06
1.74342257904093e-05		
ENSG00000112320	6 107489958 107660167	protein_coding SOBP
170209	-1.146549462353366	1.6816646360454e-35
3.63991914153391e-33	-1.02383667118024	2.00708440966986e-29
4.11425894976931e-28	-0.320490546820595	0.000113081359325958
0.000725873299109639	-0.279749077946053	0.000769432932476068
0.00584731495368032	-0.464520189049433	4.22429903258332e-08
7.20814398999074e-07	-0.985723522729597	9.41110178148551e-28
7.25819577493875e-26		
ENSG00000112773	6 81491439 81752774	protein_coding FAM46A
261335	-0.350323436881479	9.39675832252899e-18
8.74504766467618e-17	-0.375950970911024	5.82860160662728e-20
5.71812244519184e-19	-0.14117937571481	0.000286732441018147
0.00160165102137745	-0.163198445296445	3.17263146255785e-05
0.000454286999588132	-0.252290130461867	2.94800102630067e-10
8.7147832995708e-09	-0.127118194938467	0.00107634978507289
0.00355188589316892		
ENSG00000114248	3 169839179 169869930	protein_coding LRRC31
30751	-0.890726335888467	1.18973488017329e-33

5.86546825893029e-32	-0.701726780668936	3.4896307878576e-23		
4.44521324971657e-22	-0.483081013785462	1.19561491976726e-12		
4.98034353878451e-11	-0.374935714594505	2.5452620151947e-08		
1.37206356175496e-06	-0.694766695603667	1.52450345616235e-22		
3.95837322392553e-20	-0.201035245418450	.00230706742016004		
0.00699130168300645				
ENSG00000114698	3	146192339	146251179	protein_coding PLSCR4
58840	-0.297641985079237	6.05237809876321e-21		
7.85095740221749e-20	-0.513806677580178	3.40184121451445e-49		
3.23154172444638e-47	-0.128229015590138	1.93575951910076e-05		
0.00015633591263904	-0.104252290300697	0.000515769676916932		
0.00425309741493762	-0.163227002185867	8.80007197194291e-08		
1.3989420535806e-06	-0.145585379494702	1.37424252026297e-06		
8.57401851148448e-06				
ENSG00000115306	2	54456285	54671445	protein_coding SPTBN1
215160	-0.238937939160591	6.67834068203938e-14		
4.3152994394646e-13	-0.246684900190886	1.21110528860552e-14		
7.66984117527863e-14	-0.198601677326634	2.47077031001713e-10		
6.50204909793189e-09	-0.107786837827433	0.000494603142544769		
0.00412552017106792	-0.146712519369338	2.7839260665442e-06		
2.97876265045962e-05	-0.299952439137591	.94843048732694e-20		
7.1930328346129e-19				
ENSG00000115423	2	84516455	84819589	protein_coding DNAH6
303134	-0.951390682869507	9.62155153088252e-38		
7.76653633676781e-36	-0.657474337628167	1.6182605199224e-21		
1.7994918372499e-20	-0.583852122738951	1.04562185804607e-17		
9.93277007713396e-16	-0.347145988024278	1.39770730573627e-07		
5.65581353664034e-06	-0.303947080397295	3.80790900282707e-06		
3.87734734346685e-05	-0.467819568830603	2.98790445087124e-12		
4.39552062701822e-11				
ENSG00000115594	2	102064544	102179874	protein_coding IL1R1
115330	-0.333616763623991	3.73295081232305e-31		
1.43240494347736e-29	-0.290431931864699	5.72292717262246e-25		
8.43495576369776e-24	-0.173562146333588	.9396468647616e-11		
2.58387307061449e-09	-0.102184465792117	0.000108039237992456		
0.00124584995461471	-0.135846891708571	3.68229260192806e-07		
4.9326256616885e-06	-0.0785550667336068	0.00268487178338852		
0.00800222259678777				
ENSG00000115738	2	8678845	8684453	protein_coding ID2 5608
-0.666363580237091	5.25385442766876e-34	2.70131346959246e-32		
-0.791435142980143	.10054840122816e-44	2.04675608231922e-42	-	
0.2082277026463312	.81614992116595e-05	0.000216983890192454	-	
0.2726554344836576	.17491108176224e-08	2.78031617753682e-06	-	
0.3960068549087341	.78335404919237e-14	1.42476270422399e-12	-	
0.3138529453820524	.98368105578999e-10	5.39546679417319e-09		
ENSG00000115963	2	150468195	150539011	protein_coding RND3
70816	-0.227592737178956	8.28121152845041e-09		
3.18314814709423e-08	-0.345365320637038	1.71454908013252e-17		
1.3628040877237e-16	-0.170640807372453	1.16326894302102e-05		
0.000100014165912386	-0.142711807495131	0.000247717830589393		
0.00239552829469408	-0.266348913477976	2.70746213564779e-11		
1.01637476171704e-09	-0.198266399601202	4.04760490762348e-07		
2.80630337587299e-06				

ENSG00000118007	3	136336233	136752403	protein_coding	STAG1	
416170		-0.264021574481315	3.16732778011493e-26			
7.23516121501619e-25		-0.3034628002235	9.36468148333322e-33			
2.54611470905494e-31		-0.198122213892995	1.64881317194245e-16			
1.29079700531112e-14		-0.116116164066878	7.1174525750043e-07			
2.06741758962389e-05		-0.170454314125622	1.13692426582891e-12			
5.90404771244952e-11		-0.119783951065101	2.87789549223266e-07			
2.03794244879512e-06						
ENSG00000118298	1	150257159	150265078	protein_coding	CA14	7919
-1.476086473674837		7.29518153063503e-24	1.27269465919108e-22			-
1.57635196063897		1.10958198672534e-26	1.84878906643787e-25			-
0.7066856642948832		3.1475365571567e-07	3.10073492711904e-06			-
0.4639544081845880		0.000621191250292728	0.00494761681406463			-
0.8769829190473563		3.8160578757536e-10	9.9212874886321e-09			-
1.60312332550638		2.25973795104975e-27	1.66554914133468e-25			
ENSG00000119723	14	73949926	73963670	protein_coding	COQ6	
13744		-0.188223898177642	7.25640876824072e-19			
7.64868688771462e-18		-0.278959324934484	1.38916769117869e-35			
4.64417241649633e-34		-0.105364028090221	2.25446253946837e-07			
3.02517415179825e-06		-0.100026079451089	9.51173717216765e-07			
2.59970795447719e-05		-0.113274185268953	3.7321082618537e-08			
6.51091988929661e-07		-0.141512306999397	7.54489944783336e-12			
1.05513454665885e-10						
ENSG00000120708	5	136028895	136063818	protein_coding	TGFBI	
34923		-0.751208046487621	1.34801168438268e-31			
5.35731480382596e-30		-1.067532902905571	1.14783333378948e-53			
1.5026971014375e-51		-0.766767506445785	7.0305642999949e-33			
3.42278628842564e-30		-0.340246957545748	1.21491172719609e-08			
7.6318991120919e-07		-0.527859499335264	1.21633244195665e-17			
1.66221430817918e-15		-0.456709228971614	1.07309180769164e-14			
7.70081277573156e-13						
ENSG00000121210	4	153466346	153636711	protein_coding	TMEM131L	
170365		-0.317232215704812	3.2803831859861e-45			
6.46899869044019e-43		-0.273111797449653	4.57184009508826e-36			
1.60055498519955e-34		-0.090417425216752	4.34052820883482e-06			
4.20790846082375e-05		-0.122226125667959	9.83000221303803e-10			
8.95564938461517e-08		-0.154495540362793	3.39274987162645e-14			
2.59096324755238e-12		-0.159170508856359	3.93627003428803e-15			
8.26457558816351e-14						
ENSG00000122085	2	241072169	241102332	protein_coding	MTERF4	
30163		-0.0965232470935931	6.79032393364528e-07			
2.08118151804564e-06		-0.257453651279326	2.2757185855439e-34			
1.86217546995046e-32		-0.115756869841165	2.83164172817474e-09			
6.07632871669893e-08		-0.0947820467841192	1.0558854050073e-06			
2.83154545659695e-05		-0.116707806727133	2.93066239643248e-09			
6.86568262767243e-08		-0.129804554393153	3.67589419415566e-11			
4.67102411506941e-10						
ENSG00000122786	7	134744252	134970728	protein_coding	CALD1	
226476		-0.215767327439764	2.695483321599e-23			
4.46258604327214e-22		-0.335104796635491	2.31687207018019e-46			
1.81379648147423e-44		-0.115991268701697	1.81427140173854e-08			
3.23763277980353e-07		-0.0736974609701075	0.000312217582440763			
0.00287041362915526		-0.0922313329805231	7.92547960890625e-06			

	7.35822686693388e-05	-0.102971857918348	5.11180842908713e-07		
	3.47304245602915e-06				
ENSG00000123728	X	132203024	132219480	protein_coding	RAP2C
	16456	-0.0758795385785405	4.3328446722864e-06		
	1.20645910901787e-05	-0.149431538038829	3.00088423431038e-18		
	2.54356776312957e-17	-0.0841564211992338	3.34449175754882e-07		
	4.30593722067235e-06	-0.0625021920174156	0.000143213246033693		
	0.00155804410611655	-0.055168199203294	0.000813516482605689		
	0.00401577100206402	-0.0656336919048774	6.1811789976645e-05		
	0.00027466225785686				
ENSG00000124067	16	67943474	67969601	protein_coding	SLC12A4
	26127	-0.229913938000371	1.39649427998336e-26		
	3.36259418668636e-25	-0.350946730728056	5.5820511577076e-51		
	6.85706560393239e-49	-0.0870849053375133	1.4138110442359e-05		
	0.000118609382111745	-0.0767533173372907	0.000133569220098519		
	0.0014789444775514	-0.130927985448499	1.90297964413991e-10		
	5.88224600715391e-09	-0.0734836487040758	0.000235907996065181		
	0.000911058668988462				
ENSG00000126214	14	103561896	103714249	protein_coding	KLC1
	152353	-0.0770877684284903	0.000246354743887858		
	0.000545397265173929	-0.385726979416027	1.69668977616405e-54		
	2.40297545662361e-52	-0.0789110036122818	0.00016423935054342		
	0.00099482303348209	-0.138805564581729	9.70950763532343e-11		
	1.24846389489209e-08	-0.140336561543278	7.44438937552699e-11		
	2.51575145512657e-09	-0.125397454901933	6.7136456123445e-09		
	3.49823782871385e-08				
ENSG00000126773	14	60091911	60169133	protein_coding	PCNX4
	77222	-0.119850448807599	3.0561898933781e-08		
	1.10469564614704e-07	-0.241736531795807	4.86202554073171e-26		
	7.68989806081821e-25	-0.0913949053247016	1.86591593480573e-05		
	0.000151165389226929	-0.0877698229979238	4.20954571221243e-05		
	0.000574310607307125	-0.0898605486631743	3.00997449051347e-05		
	0.0002362337158071	-0.129804546633655	1.9919344605489e-09		
	1.98543486633982e-08				
ENSG00000127990	7	94585230	94656209	protein_coding	SGCE
	70979	-0.540522900619752	5.56933515819942e-37		
	3.9525801085277e-35	-0.676661962595135	1.0272825270679e-51		
	1.13503790703481e-49	-0.350859456994822	9.88475579722575e-19		
	1.11590297510855e-16	-0.258951190076057	2.84464303650368e-11		
	4.22063751101817e-09	-0.312698358939195	2.97790455678911e-15		
	2.74513462072293e-13	-0.260336346251183	2.00008198247552e-11		
	2.63663724529579e-10				
ENSG00000128641	2	191245185	191425389	protein_coding	MYO1B
	180204	-0.437702468069727	9.56240629706022e-41		
	1.11173677389478e-38	-0.298955828097547	3.11080928263885e-22		
	3.66036992554612e-21	-0.113900977382725	8.79012381502436e-05		
	0.000580998468028275	-0.0932007861378281	0.00135197154027625		
	0.00909428524437117	-0.172633888902296	1.733078775442e-09		
	1.33389685747935e-07	-0.139642223145987	1.69806967686776e-06		
	1.03498542628806e-05				
ENSG00000129595	5	112142441	112419316	protein_coding	EPB41L4A
	276875	-0.338781579811634	1.52135265723475e-29		
	5.01081459768713e-28	-0.381476147234817	1.1539240465084e-35		
	3.93369424957426e-34	-0.139998737547346	4.49161417224886e-07		

	5.5979885751572e-06	-0.138958874688998	6.09768321257507e-07		
	1.823336022432e-05	-0.166004562342082	3.80118358425004e-09		
	8.62008737004121e-08	-0.0928096266607925	0.000738081215337018		
	0.00253551648373438				
ENSG00000130396	6	167826922	167972023	protein_coding	AFDN
	145101	-0.316851972015796	1.45479655084985e-35		
	9.25072467987341e-34	-0.323631856597997	9.86723215672649e-37		
	3.66003832784862e-35	-0.0823824609083026	0.000325720591004908		
	0.00178487551433889	-0.126514841028394	5.59534017492998e-08		
	2.58873065733906e-06	-0.163101172394006	5.92020788864828e-12		
	2.60539318353818e-10	-0.070627091315659	0.00200577576128133		
	0.0061852693161128				
ENSG00000130714	9	131502902	131523806	protein_coding	POMT1
	20904	-0.110810902457463	1.04528646108813e-11		
	5.37797812988504e-11	-0.141442244668837	1.5224227507429e-17		
	1.21879876843904e-16	-0.057631793680172	0.000276371908150891		
	0.00155436749353167	-0.0659385800136789	3.62396815249854e-05		
	0.000507714027408047	-0.0960289037356219	3.35101291234534e-09		
	7.73413780169305e-08	-0.0555492350071978	0.000456534431290171		
	0.00164866710826833				
ENSG00000130985	X	47190861	47215128	protein_coding	UBA1
	24267	-0.0490532500015206	2.12396497297139e-05		
	5.43426676201696e-05	-0.135047404456838	1.15537796667418e-27		
	2.0808824673777e-26	-0.108154060770707	1.99837878761408e-19		
	2.4133909404837e-17	-0.0755835281064385	1.15082907706047e-10		
	1.42291795170834e-08	-0.0505974280244512	1.30039049523414e-05		
	0.000112434979580059	-0.0358542693788468	0.00168137238168463		
	0.00529173744126563				
ENSG00000134453	10	6088987	6117457	protein_coding	RBM17
	28470	-0.132314890044178	2.00532486126174e-19		
	2.25241211345326e-18	-0.154563818924995	4.41036126897502e-25		
	6.55620402761086e-24	-0.0530506324874604	0.000141664024786439		
	0.000875439842184818	-0.086712848895302	1.10054757980041e-09		
	9.79057826490815e-08	-0.0906045266910223	2.50398137461113e-10		
	7.53079649325612e-09	-0.0511284806801093	0.000245121558440945		
	0.000944299890937556				
ENSG00000134716	1	59893308	59926790	protein_coding	CYP2J2
	33482	-0.152632382356093	1.36169967555315e-11		
	6.95766456065679e-11	-0.368137242361507	1.51387503581465e-47		
	1.28877919032549e-45	-0.0672256633241881	0.00214859511584117		
	0.00874806268511436	-0.133684186196922	2.44429220272164e-09		
	1.92622318845521e-07	-0.212076385990533	8.30250842023293e-20		
	1.57737534974157e-17	-0.221556441036642	1.32328067604315e-21		
	5.66356858573523e-20				
ENSG00000134760	18	31318089	31357029	protein_coding	DSG1
	38940	-0.581180767547957	9.87041347869829e-10		
	4.2025463674403e-09	-1.114857099839253	.98358054060022e-28		
	7.43235943018094e-27	-0.464365646667462	7.08483179143729e-07		
	8.45134720358358e-06	-0.417890842487067	8.1077167222632e-06		
	0.000153227754330827	-0.561189380276281	3.77225868862065e-09		
	8.57927271679141e-08	-0.625796805019202	4.59650563090199e-11		
	5.76097837681594e-10				
ENSG00000136040	12	94148723	94307675	protein_coding	PLXNC1
	158952	-1.406581905899032	.85381516876039e-75		

5.55744831426477e-72	-0.960471406559043	7.28476882307373e-45			
4.97760585502919e-43	-0.303719284705514	3.8864904240669e-07			
4.95074687788538e-06	-0.441906116276155	7.1076243999861e-13			
1.32788012019013e-10	-0.486012784357102	4.46415391507702e-15			
3.90713785634747e-13	-0.465203415390222	3.28554066567484e-14			
6.28042184423907e-13					
ENSG00000136828	9	126914774	127223166	protein_coding	RALGPS1
308392	-0.615460606210561	3.17691499047616e-39			
3.0741092320887e-37	-0.628900201031207	1.19049157290552e-40			
5.86919880199213e-39	-0.208360427610715	6.44387739787892e-07			
7.77975206669072e-06	-0.165912805521284	7.14641640995515e-05			
0.000894249166672219	-0.160518440115514	0.000128161748936602			
0.000826762685997235	-0.167078635816213	6.04023259876236e-05			
0.000269319101093091					
ENSG00000137275	6	3063991	3115187	protein_coding	RIPK1
51196	-0.157059068828103	2.63493464368318e-24			
4.91024483420339e-23	-0.249956411000231	6.07674964501248e-50			
6.02991609679296e-48	-0.0517135666283783	0.00033378745021893			
0.00182203037384748	-0.101682702897265	7.07882156285928e-12			
1.25319274008846e-09	-0.104513488692284	2.47250428918305e-12			
1.17079466021832e-10	-0.0556485177961603	0.000116780774206923			
0.00048515404836524					
ENSG00000137343	6	30626842	30646823	protein_coding	ATAT1
19981	-0.170808014491624	2.216104168477e-07			
7.21820757698163e-07	-0.214931774455015	1.05941841420081e-10			
4.67952352561228e-10	-0.151772932128431	3.44776769686353e-06			
3.4586460366669e-05	-0.1098212522036	0.000757346530505462			
0.00576389916890307	-0.188950868922248	1.31349896490569e-08			
2.59353616910846e-07	-0.0954535836564556	0.00324020279699605			
0.00942653956571457					
ENSG00000137942	1	93448131	93554661	protein_coding	FNBP1L
106530	-0.151767851911872	1.1688010314931e-09			
4.92128412692732e-09	-0.316825275441954	3.40295192482158e-32			
8.71950461131504e-31	-0.0881582254948956	0.000305028735709757			
0.00168773469074499	-0.149206618509095	2.13260257040022e-09			
1.75787383302989e-07	-0.198203985613811	7.22200490124731e-15			
6.04901152454473e-13	-0.104195604909523	2.1253092007372e-05			
0.000104845446606348					
ENSG00000137962	1	94148988	94275068	protein_coding	ARHGAP29
126080	-0.457284678407717	1.44518767844674e-40			
1.65548373842071e-38	-0.430734596141689	4.95091390684876e-37			
1.8812265306048e-35	-0.164483213422668	8.21810802712966e-08			
1.23890157874919e-06	-0.141503299284603	3.93109405998706e-06			
8.30970344105e-05	-0.215026498492907	7.08825218443562e-12			
3.03373298849787e-10	-0.120489296694941	7.39490156274973e-05			
0.000322252227821197					
ENSG00000138814	4	101023409	101348278	protein_coding	PPP3CA
324869	-0.191637316491232	2.92411535279213e-20			
3.56732913712989e-19	-0.259349136941596	4.93433659152722e-33			
1.36297925105324e-31	-0.0660102832641813	0.000774744298877426			
0.00372293073171234	-0.0869633193393815	1.16610212688276e-05			
0.000204349887904461	-0.129978266931321	3.3987038815801e-10			
4.27742638875281e-09	-0.0803029961261394	4.65712043061935e-05			
0.000213580450952661					

ENSG00000139190	12	6462237	6470987	protein_coding	VAMP1	8750
		-0.152400051735553	7.90979113356087e-05			0.00018690525719664
		-0.124843611132280	0.00115368784157407			0.00230782009294843
		0.2260103115533276	4.5047584548957e-09			1.2768991511675e-07
		0.1272847879052	0.000938677594124434			0.00684628194703397
		0.22439104818976	1.09056419941614e-08			2.18379173042469e-07
		0.2690894515769168	1.15593865665929e-12			1.13650597792572e-10
ENSG00000139597	13	32400723	32428311	protein_coding	N4BP2L1	
		27588	-0.531613972289331			2.90596067487703e-28
		8.36819988057472e-27	-0.403814474046421			4.00989697439652e-18
		3.35861209484534e-17	-0.134566362079529			0.00232764820954334
		0.00937013732725468	-0.218219526413875			1.15363053792592e-06
		3.03588009296418e-05	-0.231381761000642			9.7837899433475e-07
		4.10180187364208e-06	-0.466375341332447			5.13666065054081e-23
		2.58142052499275e-21				
ENSG00000139613	12	56162983	56189567	protein_coding	SMARCC2	
		26584	-0.279536187486634			2.1657114330103e-28
		6.28298294504049e-27	-0.230681154938761			8.45696107895521e-21
		8.85423364576904e-20	-0.0847802145086831			0.00027503412569693
		0.0015479612154019	-0.117178886232228			6.8739857470391e-07
		2.01675751324147e-05	-0.169184585037949			2.3257259909066e-12
		1.11484569884104e-10	-0.129739186741691			3.81591763108813e-08
		3.15040703628627e-07				
ENSG00000139641	12	56118250	56144671	protein_coding	ESYT1	
		26421	-0.336018250580713			2.60287731589926e-44
		4.66094548326375e-42	-0.376089657410661			3.24864618524242e-52
		3.77691484476804e-50	-0.0828573241032444			8.45620002980546e-05
		0.000562266923876821	-0.139417795757943			1.00961791740381e-10
		1.27876727928731e-08	-0.176780314343086			9.83789441120921e-16
		9.8246510918095e-14	-0.201059865156029			8.44870830886995e-20
		2.95780734255921e-18				
ENSG00000139668	13	51584455	51767707	protein_coding	WDFY2	
		183252	-0.183480406431687			6.777706498169e-12
		3.58783178848028e-11	-0.259541520065504			4.23221840351062e-21
		4.52841555688819e-20	-0.193334690647673			4.53058541834943e-13
		2.04835963524234e-11	-0.118430169123409			6.38823279181296e-06
		0.000125342920231302	-0.0832478022689349			0.00147441044875894
		0.00666952392021357	-0.0920942271462364			0.000393838245387196
		0.00144365770814607				
ENSG00000140807	16	50548330	50649249	protein_coding	NKD1	
		100919	-0.424922854602764			2.22540371492596e-07
		7.24244087629654e-07	-0.350865590933366			1.64499923566964e-05
		4.19365784527856e-05	-0.264536844641706			0.00104152315063226
		0.00478067056545705	-0.272320403421406			0.000783638528194426
		0.00593212081182748	-0.463869109881369			2.03533533923932e-08
		3.8295276871992e-07	-0.362269081894028			3.2897840686008e-06
		4.4376591860627e-05				
ENSG00000141699	17	42579513	42610623	protein_coding	RETREG3	
		31110	-0.174558778962672			3.64677101115915e-19
		3.98407594104049e-18	-0.271167505705646			8.38084167502003e-39
		3.61676267188745e-37	-0.0851985139501901			4.7898232346526e-06
		4.59486799092689e-05	-0.142778660247241			9.53313802076078e-14
		2.65208495045415e-11	-0.0792109225117814			2.42971722255939e-05

	0.000195047626464529	-0.0725838852457343	9.21101568271923e-05		
	0.000392715964206576				
ENSG00000141736	17	39687914	39730426	protein_coding	ERBB2
	42512	-0.682394143819305	3.14235535073085e-45		
	6.29512340121298e-43	-0.686557831423326	1.09618280450138e-45		
	8.01757366728969e-44	-0.250258527773074	.61635283390464e-09		
	9.57631968034626e-08	-0.223010111571815	1.75114520800283e-07		
	6.70297080969928e-06	-0.316564169438339	4.11952922524178e-13		
	2.41271224812187e-11	-0.188652710210442	8.1693109961744e-06		
	4.3570590896748e-05				
ENSG00000142687	1	35433490	35557950	protein_coding	KIAA0319L
	124460	-0.164621432817743	6.28467770951847e-21		
	8.13873599639137e-20	-0.235115668718537	5.05709248808465e-37		
	1.90761365307193e-35	-0.0963848123851712	9.50848327784777e-09		
	1.81757866239988e-07	-0.0729019289357415	1.2874786521973e-05		
	0.000221386643737106	-0.0970272551479097	1.04602198886685e-08		
	2.108147032931e-07	-0.0631205189336743	0.000140998436235892		
	0.000574428514152447				
ENSG00000143178	1	168281040	168314426	protein_coding	TBX19
	33386	-0.334965419455049	8.6684760024694e-11		
	4.09479040759462e-10	-0.423207674361622	7.37431472368793e-16		
	5.2101790966138e-15	-0.212487343719247	2.53039823513374e-05		
	0.000198095849774616	-0.314262294637849	9.96798279199475e-10		
	9.02855836723757e-08	-0.199702354452242	8.49539398379101e-05		
	0.000582012941396131	-0.293995400377018	.7384351403234e-09		
	7.92410250588464e-08				
ENSG00000143224	1	161166410	161178013	protein_coding	PPOX
	11603	-0.200326954592998	8.98706916099187e-12		
	4.67165667197505e-11	-0.327035525277714	2.22775641008978e-26		
	3.63796825081643e-25	-0.126533916268231	1.01638825183318e-05		
	8.88071372703822e-05	-0.103501343486186	0.000306275091387108		
	0.00283172679449243	-0.150219495833217	2.37620924253373e-07		
	3.35925261247123e-06	-0.302017715503732	2.75248165436537e-23		
	1.4535902268935e-21				
ENSG00000143393	1	151291797	151327715	protein_coding	PI4KB
	35918	-0.0878519741353978	8.32168092103047e-08		
	2.84305848834942e-07	-0.168265897071941	.17805479720504e-22		
	1.42160462321126e-21	-0.0765193917618108	2.4511993392983e-06		
	2.56807226004897e-05	-0.0909313154744691	3.01021121210676e-08		
	1.5528503468017e-06	-0.0933004761760134	1.57124187566589e-08		
	3.0288140680648e-07	-0.162276708233011	.7240084482168e-21		
	7.27867957039826e-20				
ENSG00000143418	1	150960583	150975004	protein_coding	CERS2
	14421	-0.159575878552427	1.21741908187474e-18		
	1.25271941060281e-17	-0.262650348784755	2.80300527316184e-41		
	1.47527091724961e-39	-0.114803959613393	6.6518887655887e-11		
	1.99672013639897e-09	-0.115692266041185	5.89021711594281e-11		
	8.19477096569186e-09	-0.101136529714205	9.87773097619363e-09		
	2.00371316247553e-07	-0.181280451754269	3.45641169389785e-23		
	1.80091765147942e-21				
ENSG00000143437	1	150809705	150876768	protein_coding	ARNT
	67063	-0.269721327904319	1.68919550933238e-32		
	7.3508315195221e-31	-0.241203691725982	3.16706682550019e-27		
	5.50666674938252e-26	-0.0866694470364484	2.86741953454121e-05		

0.000220382481147595	-0.117272049411303	2.38375650307536e-08
1.29848050914025e-06	-0.105791101748839	4.85624294698575e-07
6.24735003064335e-06	-0.111540497769793	9.22743096077685e-08
7.1130206302792e-07		
ENSG00000143554	1 153774354 153780157	protein_coding SLC27A3
5803	-0.549811832701931	4.12307006640461e-32
1.73135602599777e-30	-0.555250737314988	1.01137774696803e-32
2.73546075000259e-31	-0.132627765766249	0.00165456969423013
0.00702166746565275	-0.221120408554512	5.0953921663157e-07
9.00832061195928e-06	-0.226503011501252	1.46026762022683e-07
2.18535151349796e-06	-0.558666908969316	4.15079247557517e-33
4.86204481029967e-31		
ENSG00000145349	4 113451032 113761927	protein_coding CAMK2D
310895	-0.229653473187848	2.5713002816383e-22
3.83700067889301e-21	-0.229978598517322	1.9876256549678e-22
2.60887448650985e-21	-0.153931491193811	1.26093777442292e-11
4.30918068783136e-10	-0.125518004962193	2.77730051058651e-08
1.45824599192616e-06	-0.113456625974755	5.24090876458796e-07
6.67605213765461e-06	-0.0919534242660722	3.68248419816601e-05
0.000172487736991065		
ENSG00000145476	4 186191520 186213456	protein_coding CYP4V2
21936	-0.444309162168771	3.38696262956296e-34
1.77661585205257e-32	-0.234164636089406	4.96153455238072e-12
2.48220124571417e-11	-0.196750600074826	3.99223699450732e-09
8.3483302197892e-08	-0.118049279920850	0.000360566169675963
0.00322645626500966	-0.186476879373779	3.04881514231534e-08
5.42828469738636e-07	-0.295503944527679	8.12099750906088e-18
2.30870474805948e-16		
ENSG00000145604	5 36151989 36184319	protein_coding SKP2
32330	-0.481239557663087	1.00982786387896e-23
1.73835450733373e-22	-0.489782407600615	1.88283018807072e-24
2.67188495110852e-23	-0.174937514820041	9.45143053303171e-05
0.000617115826798412	-0.198622852360045	1.09314654303468e-05
0.000194784059870832	-0.294501836723054	1.65253541063631e-10
5.21150792759173e-09	-0.182480487414335	4.80827414965038e-05
0.00021980077164731		
ENSG00000145826	5 135922279 135955034	protein_coding LECT2
32755	-0.323715919200439	0.000538880617185592
0.00113341719118865	-1.076384402065632	8.5201762763549e-26
4.59954271438233e-25	-1.455517362082369	7.3287484790731e-42
1.01085638170365e-38	-0.316626992788629	0.000713157302440512
0.00553216991417471	-0.654854800690452	1.27384369737253e-11
5.10159664816623e-10	-0.685660514067332	1.20965625496808e-12
1.86586483130175e-11		
ENSG00000146147	6 53929982 54266280	protein_coding MLIP
336298	-0.375910975495366	2.0836453418984e-14
1.3973788541298e-13	-0.617684797648638	3.83749567276558e-32
9.80071230918277e-31	-0.478019063254433	1.43468909275241e-21
2.48344681955443e-19	-0.271761472864251	1.58658773225129e-08
9.5434170968119e-07	-0.362110854322947	1.91285174821043e-13
1.23141807377563e-11	-0.411465588281382	7.77179497582619e-17
1.95600636394824e-15		
ENSG00000146285	6 107704104 107824317	protein_coding SCML4
120213	-0.816430847297443	2.11937133276019e-21

2.87610505166123e-20	-0.577485208187787	2.93469305898894e-12			
1.51039257238152e-11	-0.440055126020556	.32076694978323e-08			
9.83728554552178e-07	-0.350075297170815	1.54834173056479e-05			
0.000255255193867395	-0.298220636123439	0.000228422996815791			
0.00134946972845545	-0.490320971781326	2.19901121649145e-09			
2.16825289504558e-08					
ENSG00000146904	7	143390289	143408892	protein_coding	EPHA1
18603	-0.615269508374031	.09354048721145e-21	1.51838389039814e-20		
	-0.462091460012537	1.40837174909803e-13	8.16562094499376e-13		
	-0.201121426880114	0.000853104356837132	0.00403353953722782		
	-0.211610006208528	0.000483456679243331	0.00404933957308164		
	-0.330384391855013	8.41884055956166e-08	1.3479662597884e-06		
	-0.391312986984174	2.24167594776171e-10	2.55659367424449e-09		
ENSG00000149212	11	95165513	95232541	protein_coding	SESN3
67028	-1.321730637162993	.21035138984971e-50	1.21985522688948e-47		
	-1.199710283647351	.24567534256362e-43	7.85683245416946e-42	-	
	0.4861371984684992	.86353634538031e-10	7.46003891717053e-09	-	
	0.4384727733641881	.27093600537374e-08	7.88841116642129e-07	-	
	0.4591872197032733	.26035314523324e-09	7.53605959192711e-08	-	
	0.4351792314664111	.39142740542655e-08	1.23375341770861e-07		
ENSG00000150403	13	113490995	113554590	protein_coding	TMCO3
63595	-0.375680208490142	2.5050602702744e-39			
	2.48575375481559e-37	-0.372886581218618	6.95738385090316e-39		
	3.01080786147834e-37	-0.188937520214416	5.00346258302951e-13		
	2.22076762339079e-11	-0.0830443052710139	0.00114300832834663		
	0.00799233696019398	-0.217109392752513	.88120443298607e-16		
	4.19897804593681e-14	-0.204238903110247	8.04740927221761e-15		
	1.63455787551341e-13				
ENSG00000150540	2	137964020	138016364	protein_coding	HNMT
52344	-0.547813863787594	3.87434317697048e-43			
	5.74841831943078e-41	-0.497946953219752	.41589042806502e-37		
	9.45657210523239e-36	-0.172754481777442	8.86664896188461e-07		
	1.0339335642006e-05	-0.124431273117537	0.000382411354069523		
	0.00337349178088851	-0.202078044282194	1.48054057210941e-08		
	2.87956823631616e-07	-0.105526229919898	0.00242083045818917		
	0.0072968394865036				
ENSG00000150687	11	86791059	86952910	protein_coding	PRSS23
161851	-0.268933826659763	5.14191467042665e-05			
	0.000124465333515502	-1.267920390519961	.02840841478557e-57		
	1.80017693190386e-55	-0.490337372353867	4.6769422763713e-13		
	2.08177382067396e-11	-0.273074948702127	3.94384387649655e-05		
	0.000544208536332504	-0.393635419729083	5.65665378367069e-09		
	1.23079621921516e-07	-0.450206943188892	.44717762921798e-11		
	3.18767393692198e-10				
ENSG00000151090	3	24117160	24495282	protein_coding	THRB
378122	-0.2937035630237	1.96094305705885e-28			
	5.72088612095876e-27	-0.204463079460611	9.87278897357395e-16		
	6.91583540554445e-15	-0.174935662827449	3.01749012518572e-12		
	1.19011338380426e-10	-0.118998967243997	1.5171241845474e-06		
	3.7575958141596e-05	-0.0995113160838539	5.78006722227792e-05		
	0.000417080441203649	-0.150938724906555	1.29778983240009e-09		
	1.33014919730007e-08				
ENSG00000152154	2	39664982	39717963	protein_coding	TMEM178A
52981	-0.481065659901992	1.92546485631213e-09			

7.92518282602027e-09	-0.610037508081399	5.64417973363612e-14
3.39763045093961e-13	-0.269225128545958	0.000573166425280948
0.00287487435268895	-0.297778639795712	0.000154760212183232
0.00165705109663407	-0.270368816137295	0.000608398317581683
0.00313330161639836	-0.357051882783833	5.86685513902727e-06
3.21596281712612e-05		
ENSG00000153179	12 64507001 64697567	protein_coding RASSF3
190566	-0.087308427858158	0.00268680910501171
0.00507798120186551	-0.413680307934144	3.23425166255668e-37
1.2441088061968e-35	-0.193429538676866	.77559411133901e-11
2.02216438047031e-09	-0.150976815946773	2.92927524115143e-07
1.00184411387266e-05	-0.209050269860644	3.41784702145248e-12
1.56607761021201e-10	-0.178047622910889	1.65017107216487e-09
1.66935163202964e-08		
ENSG00000155111	6 110609978 110815958	protein_coding CDK19
205980	-0.312922171961088	6.6007708760876e-23
1.04718339591211e-21	-0.380815943373357	1.86221056973491e-31
4.4978881342481e-30	-0.138756037775498	3.52865395628631e-06
3.52164637956338e-05	-0.140119527588428	3.15669290195372e-06
6.93626498159901e-05	-0.152531372631184	4.6968179770266e-07
6.08749810849396e-06	-0.128741011927991	1.66049445689075e-05
8.36908545580751e-05		
ENSG00000156218	15 83654086 84039842	protein_coding ADAMTSL3
385756	-0.376109084725472	1.68743208504161e-34
9.15975764908127e-33	-0.247005410955396	1.62693944027288e-17
1.29581234867133e-16	-0.224754792366064	.35839949915e-15
2.7268877830224e-13	-0.103908982960094	0.000189166941001945
0.00195167667143662	-0.145964538973622	2.30979813076913e-07
3.27726275767325e-06	-0.117566822459592	2.34850579073609e-05
0.000114693955215917		
ENSG00000157045	16 15037853 15056079	protein_coding NTAN1
18226	-0.339593627406263	4.56506213166521e-29
1.43096786618133e-27	-0.603548934587889	8.55310798937355e-68
3.02838339469206e-65	-0.212376656594403	1.37735991221704e-13
6.70559064763415e-12	-0.265678465491077	1.61877061628693e-19
9.34030645597558e-17	-0.280069569762108	3.90784807110099e-21
9.22429774237611e-19	-0.220632169248853	1.8962673469221e-14
3.70664353797986e-13		
ENSG00000157227	14 22836557 22849027	protein_coding MMP14
12470	-0.151182065202823	1.24167091957536e-06
3.6923060232992e-06	-0.513071032649179	4.56070555203538e-47
3.68141097384244e-45	-0.167584003320862	7.44980569348542e-08
1.13631578313672e-06	-0.135973330554952	1.21566405759437e-05
0.000211556399443247	-0.124333177769881	6.5736883268715e-05
0.000464030314654876	-0.288907738210811	3.90956596398364e-19
1.26889850318544e-17		
ENSG00000157379	14 24290598 24299833	protein_coding DHRS1 9235
-0.393211506968653	4.82977735404865e-22	6.96050891755078e-21
-0.354094726813321	1.34772922712871e-18	1.1723212523416e-17
-0.215677662147495	2.63987290804183e-08	4.49962582433081e-07
-0.150626712266755	9.19086594774762e-05	0.00108720197873926
-0.136919604733809	0.000390760150833044	0.00214505017259619
-0.259142167174983	.65971978456916e-11	4.65426730806554e-10

ENSG00000159335	12	6765516	6770952	protein_coding	PTMS	5436
		-0.124633223994819	1.59060885402631e-05			4.12657707524994e-05
		-0.586757698602236	3.53116859008929e-63			9.16867924416685e-61
		-0.129373250673156	.91246088841911e-06			6.32350136116743e-05
		0.20088924683766	8.85305390298201e-12			1.51562337092919e-09
		0.211794934385054	9.55963172358543e-13			5.13550009040474e-11
		0.303533368008562	1.83809826865451e-23			9.90855810635593e-22
ENSG00000160305	21	46458899	46569852	protein_coding	DIP2A	
		110953	-0.253478758827495			5.04201788510141e-26
		1.12213709474278e-24	-0.303530410249364			1.12056604273595e-34
		3.51253488526828e-33	-0.131724463088783			5.83308307747654e-09
		1.1710515626805e-07	-0.163979054289461			1.02212198114143e-12
		2.12315177922699e-10	-0.161194480435141			2.86604152376196e-12
		1.33682817061939e-10	-0.159063584498186			3.55114756160803e-12
		5.18008687849171e-11				
ENSG00000160310	21	46635167	46665124	protein_coding	PRMT2	
		29957	-0.0972376058667193			2.82061105241813e-07
		9.04534779448787e-07	-0.343089934516393			.16528320469928e-54
		4.40285241482233e-52	-0.164972445583987			2.32620296018499e-17
		2.11929332846327e-15	-0.117578075338526			7.31752872550492e-10
		7.05177830082248e-08	-0.0782895183595764			3.42697687322681e-05
		0.000265271028175886	-0.075287673683146			5.82461863491557e-05
		0.000261052168335298				
ENSG00000161010	5	179835133	179862173	protein_coding	MRNIP	
		27040	-0.215338537685333			5.35067450740578e-13
		3.16951171676329e-12	-0.400177876047692			1.36084719399777e-35
		4.56910311105415e-34	-0.158265613892236			.0216632288018e-08
		9.39053968383416e-07	-0.221179496313352			1.37944161685831e-13
		3.77023174544484e-11	-0.209833925602561			2.24182177178332e-12
		1.08463793113703e-10	-0.183230609465509			4.9141983427822e-10
		5.32394269695437e-09				
ENSG00000162267	3	52794768	52809009	protein_coding	ITIH3	
		14241	-0.352905107506306			4.98251958077297e-23
		8.01059572227678e-22	-0.655978361585236			2.24725051400885e-59
		4.60656786286104e-57	-0.279749894519789			8.05627724778371e-16
		5.60306889478671e-14	-0.159016856625433			2.71045057986729e-06
		6.10203895718968e-05	-0.310243367599437			1.81015559932068e-18
		2.82004140818168e-16	-0.457024186921023			4.03390277728864e-35
		5.46471055368519e-33				
ENSG00000162909	1	223701593	223776018	protein_coding	CAPN2	
		74425	-0.182944687949653			5.22769423987924e-20
		6.24557120882505e-19	-0.338337649080575			3.14445188557934e-52
		3.68326435529628e-50	-0.112450840950326			4.72249054401884e-09
		9.71884810901842e-08	-0.135368291646988			3.67692004044188e-12
		6.73914556588753e-10	-0.118627326605809			1.02415886305646e-09
		2.73208406293777e-08	-0.0571192592153862			0.00246863841916785
		0.00743167496274705				
ENSG00000162929	2	61065871	61138034	protein_coding	KIAA1841	
		72163	-0.126780194452921			0.000309148449378429
		0.000674706273445497	-0.358061986128595			6.24105539730586e-22
		7.18090118424136e-21	-0.106698125823579			0.00222808531505387
		0.00902765698913506	-0.167033227003407			2.36834987890836e-06
		5.43395033335984e-05	-0.236433823218189			5.60277478229779e-11

1.95707686846227e-09	-0.104389792236092	0.00280115574135687		
0.008296426862091				
ENSG00000163069	4	52020706	52038482	protein_coding SGCB
17776	-0.161663139877144	5.48491486843477e-11		
2.64795440766487e-10	-0.453737571509865	2.97864450144223e-56		
4.68730330181499e-54	-0.190212795950204	1.77350163632008e-14		
9.97450613437923e-13	-0.0922518159252474	0.000134758719260102		
0.00148788524971873	-0.152749226156145	6.12560681040667e-10		
1.7102299014216e-08	-0.091801458060135	0.000136318647816015		
0.000557111283925943				
ENSG00000163293	4	47914142	48040173	protein_coding NIPAL1
126031	-0.168576322590428	1.06041549732765e-07		
3.57502987077849e-07	-0.283553150443324	8.6858606867781e-18		
4.05819702321732e-17	-0.215818482754136	1.44449051123529e-11		
4.88150058015933e-10	-0.103259567896187	0.000973825832713625		
0.00705967084590301	-0.107782835915572	0.000614655292878131		
0.00316030191674865	-0.186127585908314	5.4652134349871e-09		
4.28236130655178e-08				
ENSG00000163347	3	190305701	190322475	protein_coding CLDN1
16774	-0.396385948345747	2.71956620648094e-27		
7.01458972363685e-26	-0.604444299805844	6.890601618523e-52		
5.41117542677755e-50	-0.133022360543558	9.00599994108894e-05		
0.000593253585971351	-0.183252816433518	1.0257656756149e-07		
4.3425009403273e-06	-0.311222503393883	2.3425828988386e-18		
4.89189416486415e-16	-0.323506451248388	9.30528933290893e-20		
3.22866598034272e-18				
ENSG00000163631	4	73397114	73421412	protein_coding ALB
24298	-0.859804587730252	7.27623159017637e-34		
3.69239126851328e-32	-0.562057841310953	5.49053519973428e-17		
4.20950038763092e-16	-0.277108764258656	1.71055145733382e-05		
0.000139888090046213	-0.289157069859798	1.5118428687634e-06		
0.000153737651338071	-0.378733806539802	8.30474195272772e-09		
1.7250609984206e-07	-0.528391211903447	1.8583209759463e-15		
4.06612113543082e-14				
ENSG00000164344	4	186208979	186258471	protein_coding KLKB1
49492	-0.639632108766916	2.99598469779584e-31		
1.16686114017403e-29	-0.576447020721928	1.79563202856041e-26		
2.94464751294132e-25	-0.275255911146005	5.89025388209148e-08		
9.2040386388268e-07	-0.182038248942102	0.000306740536408193		
0.00283434805261165	-0.376339101224727	5.00055021342607e-13		
2.85361068772765e-11	-0.354828127730593	5.16915613045639e-12		
7.38132753037398e-11				
ENSG00000164402	5	132750817	132807241	protein_coding SEPT8
56424	-0.140344789020136	6.90679406534229e-11		
3.29457883478162e-10	-0.342437499519605	1.04543668873036e-45		
7.68248027062749e-44	-0.110311979615577	1.91407340506813e-07		
2.62263408773583e-06	-0.0782893494958259	0.000204773806181535		
0.00207019540980021	-0.100987595675083	2.14303653220401e-06		
2.35305515583612e-05	-0.0988208477306145	2.89405653290041e-06		
1.6821716720887e-05				
ENSG00000164764	8	73064540	73124088	protein_coding SBSPON
59548	-1.921481410531018	1.3570295151773e-51	3.16865290704237e-48	
-2.242816373941058	0.03303895397727e-62	1.92533405944634e-59	-	
0.35717509344051	0.000707726240486074	0.00344875417595638	-	

0.4384818828779473	.98207602192877e-05	0.000548997896863968	-		
0.6949477894814561	.78981317784066e-10	5.59909628465454e-09	-		
1.08413467893558	8.17910882902532e-22	3.651069812246e-20			
ENSG00000165948	14	94081282	94103846	protein_coding	IFI27L1
	22564	-0.208829232651402	5.20122061547718e-07		
		1.61962454464359e-06	-0.437627344513539	2.0151326465016e-23	
		2.60745444350901e-22	-0.135995560539923	0.00090928189418126	
		0.00426292585899785	-0.154077723088064	0.000189465519974505	
		0.00195191536768954	-0.237558284184082	1.53887826038867e-08	
		2.9744645680639e-07	-0.193376348735169	2.93638046718271e-06	
		1.70439162810132e-05			
ENSG00000166579	17	8413131	8490411	protein_coding	NDEL1
	77280	-0.0624062509042629	0.00173601128709323		
		0.00338235615828233	-0.244108243162227	1.67055953830523e-29	
		3.44254590572186e-28	-0.0890212785517654	8.27959315449967e-06	
		7.41735375238357e-05	-0.101908264457538	4.21414538836343e-07	
		1.35925819886778e-05	-0.0912691662487495	6.00097203836966e-06	
		5.80317463598764e-05	-0.175750321976968	2.28513794679879e-17	
		6.1379593229618e-16			
ENSG00000167081	9	125747345	125967377	protein_coding	PBX3
	220032	-0.321770448539168	3.12724531510431e-27		
		8.03949748581024e-26	-0.293279327821041	1.70009576809788e-23	
		2.21638426537212e-22	-0.208071535487951	1.98547503966724e-13	
		9.43040111066341e-12	-0.118192159870058	2.01278004970121e-05	
		0.000316099802361846	-0.161687540098142	9.09695865458517e-09	
		1.86475682736556e-07	-0.0862002900746557	0.00169410846172557	
		0.00532644111508025			
ENSG00000167315	18	49782167	49813960	protein_coding	ACAA2
	31793	-0.443534984125673	2.28650095916526e-27		
		5.97674470517376e-26	-0.582411654636148	7.19677016938157e-42	
		3.97583271165942e-40	-0.116936238498397	0.00197922102694032	
		0.00815721808960405	-0.280792284154556	6.72845025289222e-13	
		1.51916705057693e-10	-0.363499322382188	1.312153507143e-19	
		2.43357612949771e-17	-0.519965887784902	1.68536235216384e-35	
		2.36542883642887e-33			
ENSG00000168591	17	44186970	44191731	protein_coding	TMUB2 4761
		-0.109245122645373	5.03374743002505e-12	2.70416383490897e-11	
		-0.126008916336235	3.0169635200275e-15	2.02069108678024e-14	
		-0.0584058527364277	0.000146770341818513	0.000902521574741577	
		-0.0625649642505337	5.28781495137912e-05	0.000694594174768426	
		-0.0791038837182514	4.27698723859284e-07	5.59846754383158e-06	
		-0.0472984175523488	0.00205343124892552	0.00631597343080171	
ENSG00000168675	18	13217498	13652755	protein_coding	LDLRAD4
	435257	-0.696013027781754	1.92652010987825e-34		
		1.03852099625582e-32	-0.689682580181501	4.28401009799654e-34	
		1.29342235109861e-32	-0.230971453778995	6.72460455057806e-06	
		6.17340096013291e-05	-0.233171001875357	6.10232606036223e-06	
		0.000120798141924248	-0.354436361737086	1.81383410462041e-11	
		7.06443037897034e-10	-0.153781681235508	0.00253672438372076	
		0.00760870796572695			
ENSG00000169062	13	114281584	114305817	protein_coding	UPF3A
	24233	-0.146693773927553	9.10819822709212e-15		
		6.33467054374411e-14	-0.168367795937941	1.39653864576872e-18	
		1.21410019879637e-17	-0.0585640510320085	0.0012800668918351	

	0.00567829217195302	-0.0932251740719066	4.44967641946801e-07		
	1.4176177697115e-05	-0.103115052137738	3.02237375581922e-08		
	5.38736392928004e-07	-0.0619174292968463	0.000677731872808608		
	0.00235363014857006				
ENSG00000169410	15	75463251	75579289	protein_coding	PTPN9
	116038	-0.185703599096562	3.73227887824859e-21		
	4.94852533142423e-20	-0.225670554886619	4.67764558941412e-29		
	9.28318989012518e-28	-0.0832133530717707	8.05779501252819e-06		
	7.24782843534508e-05	-0.0806214782806185	1.64211667450189e-05		
	0.000268724114202363	-0.109087270514201	9.13469456333005e-09		
	1.87003162420656e-07	-0.0764028918157411	4.06937761294067e-05		
	0.000188344723208564				
ENSG00000169432	2	166195185	166375993	protein_coding	SCN9A
	180808	-0.675155903751874	4.00802636095262e-34		
	2.09533700259332e-32	-0.911314240872932	1.95525162760327e-53		
	2.49679222183863e-51	-0.283996976774676	2.13488628955026e-08		
	3.73701050616894e-07	-0.291820455402581	1.05099769176765e-08		
	6.76590621489593e-07	-0.380321438420343	2.57296433795724e-13		
	1.61629884762241e-11	-0.159447747703375	0.00142127439127158		
	0.0045540999057219				
ENSG00000169507	2	164896186	164955525	protein_coding	SLC38A11
	59339	-0.578167807464836	3.1523323192335e-18		
	3.09258093207423e-17	-0.543225862434397	1.61540959649715e-16		
	1.19442174199473e-15	-0.222812491461589	0.000399208365192431		
	0.0021218925695438	-0.243201103843525	0.000123464878560522		
	0.00138179550509653	-0.248116998190979	6.983912169902e-05		
	0.000651255330902975	-0.365063235138671	1.17780995523809e-08		
	1.05515246076217e-07				
ENSG00000169903	3	149473974	149503281	protein_coding	TM4SF4
	29307	-0.372870639011387	3.51437035823543e-18		
	3.41762645511547e-17	-0.296636323023081	1.95703225309713e-12		
	1.02413857813236e-11	-0.177223580940499	1.58411497253897e-05		
	0.000130576334164998	-0.130979219008713	0.00140817982306178		
	0.00936322384271427	-0.280075623786839	3.16654137395993e-11		
	1.17456066821242e-09	-0.295805470938912	1.6935222367733e-12		
	2.56647693839409e-11				
ENSG00000170017	3	105366909	105576900	protein_coding	ALCAM
	209991	-0.188932037240671	5.26137430447257e-14		
	3.42671196861949e-13	-0.307901642897582	4.08728347278093e-31		
	9.5753066499931e-30	-0.196962894215726	4.00086702276111e-15		
	2.51328658659658e-13	-0.100974961156301	3.57215206455066e-05		
	0.0005022613448884	-0.194396939628717	1.4581938451455e-14		
	1.17705709396485e-12	-0.103613597476393	2.04968430411613e-05		
	0.000101371529440715				
ENSG00000170035	2	180967248	181076585	protein_coding	UBE2E3
	109337	-0.128664017385929	5.5090596621072e-08		
	3.23745787744989e-07	-0.297080071118438	2.2228849294835e-30		
	4.91776028858555e-29	-0.190505542277752	8.45063904532899e-15		
	5.02490479722062e-13	-0.0772814021736812	0.00117294517858694		
	0.0081431875834251	-0.0938972366626087	9.12940037655948e-05		
	0.000619185583223423	-0.122813197899372	3.04950510182182e-07		
	2.1496941168001e-06				
ENSG00000170558	18	27950966	28177446	protein_coding	CDH2
	226480	-0.332901249819835	1.73671753833252e-25		

3.64149697573114e-24	-0.570919096901014	7.05563650223116e-58
1.26344552952022e-55	-0.263918912451737	1.49506119139468e-17
1.38640227980582e-15	-0.184762771116506	1.11765693899519e-09
9.79955247417364e-08	-0.198892457282208	7.9252833986312e-11
2.6325797455709e-09	-0.152131547654197	3.79457578779923e-07
2.64027227325253e-06		
ENSG00000170608	19 45863989 45873797	protein_coding FOXA3 9808
-0.175886629676806	4.90654970850184e-06	1.35722901116389e-05
-0.554828749886724	2.52177123534219e-38	1.05044583089294e-36
-0.446584012952142	1.89574024790025e-27	5.79092888667412e-25
-0.141973019492258	0.000208704563608108	0.00209228339539943
-0.213275726476953	4.19509457467763e-08	7.16615990996741e-07
-0.259647142177608	2.8863516370343e-11	3.72547408064269e-10
ENSG00000171552	20 31664452 31723989	protein_coding BCL2L1
59537	-0.077033696388324	0.00104681781945261
0.00211002391114662	-0.297088780558254	4.75867593997955e-31
1.1081526527495e-29	-0.0898180290587645	0.000128335080849492
0.000805532725444895	-0.105354874809471	8.38403161822496e-06
0.000157177892395098	-0.147845501108303	8.01390449260916e-10
2.17885895445651e-08	-0.0933934438875337	6.89602138886644e-05
0.000302969873708828		
ENSG00000171766	15 45361124 45402327	protein_coding GATM
41203	-0.367972307581098	2.97660783486688e-18
2.93126254484141e-17	-0.422558194691158	6.72503591202089e-23
8.33487147759534e-22	-0.194281387657623	1.64522696658363e-06
1.78364585333377e-05	-0.171706508699472	3.33483969932318e-05
0.000355219410896053	-0.242992255814041	3.89826942030479e-09
8.7888768884122e-08	-0.234548877090479	8.93013309748323e-09
8.08851997242391e-08		
ENSG00000171943	1 121184810 121392822	protein_coding SRGAP2C
208012	-0.475555695283974	2.58922237506906e-24
4.84243642031224e-23	-0.506417028069685	5.18244397272799e-27
9.37499776064514e-26	-0.148220329809425	0.000642859980130666
0.0031693403893847	-0.157253140104801	0.000318712087648242
0.00291728296913747	-0.183344296940183	1.0278942739985e-05
0.000242906314017398	-0.163293479186552	0.00017875493850187
0.000709870809819176		
ENSG00000172845	2 173906459 173965702	protein_coding SP3
59243	-0.295457595668593	1.37946190095454e-27
3.69254930497779e-26	-0.391977813456547	7.39899700689296e-43
4.36624902918127e-41	-0.149136498723541	4.6356331694906e-09
9.60352781216676e-08	-0.129299700358102	3.6498365605037e-07
1.19959501637315e-05	-0.186656899141635	7.07069128357135e-13
3.90618083357298e-11	-0.118394062078265	2.7257578511263e-06
1.59401582442555e-05		
ENSG00000172995	3 35638945 35794496	protein_coding ARPP21
155551	-0.437778449534213	4.29556969548533e-12
2.32605770893173e-11	-0.903463500089682	1.50461037127912e-38
6.38700952974317e-37	-0.609998958523962	5.39093423211599e-21
8.31538261407277e-19	-0.214987351280135	0.000459844042047878
0.00391036335812866	-0.458437058909622	5.48512204283849e-13
3.09611290961525e-11	-0.650241679543312	3.7431321808812e-23
1.92456291240753e-21		

ENSG00000174233	12	48766194	48789037	protein_coding	ADCY6
22843	-0.178097836510942		3.31587586168341e-23		
5.42056978480229e-22		-0.301097871377618		2.74772241782567e-52	
3.24293693540197e-50		-0.0879514767854541		2.23110253194317e-07	
2.99899450777763e-06		-0.0777553335586614		4.7417331037787e-06	
9.73757661002237e-05		-0.0994107234339028		7.7833267377163e-09	
1.63298889303289e-07		-0.117667460101904		8.45962279192385e-12	
1.1735749196383e-10					
ENSG00000174652	19	9412598	9435578	protein_coding	ZNF266
22980	-0.142702131963842		3.25432556128024e-10		
1.45561693709976e-09		-0.212774390887368		9.14440616007239e-20	
8.78844562416828e-19		-0.0674906484570421		0.00227486339613228	
0.00919566602188498		-0.0799676013946815		0.000330699856839889	
0.00300757330397468		-0.0808242363643972		0.000302966548146962	
0.00172448514928079		-0.0725789052287924		0.00105759935091116	
0.00349445181078368					
ENSG00000174827	1	145670852	145708148	protein_coding	PDZK1
37296	-0.505132066122956		3.37032146680052e-27		
8.62171397886458e-26		-0.619247636249307		1.61796590793268e-37	
6.41381447320184e-36		-0.153437253530710		0.000380693748782167	
0.00203878580690182		-0.185966108633318		1.96170828729435e-05	
0.000309953888516822		-0.330058751439613		1.94620874880006e-13	
1.24773605339737e-11		-0.178239120360367		3.91996812114217e-05	
0.000182350502715061					
ENSG00000175155	17	59331689	59401729	protein_coding	YPEL2
70040	-0.692393669165964		4.34442161872529e-37		
3.11897439622679e-35		-0.929617718504224		3.29897205867519e-57	
5.52631029054847e-55		-0.152287539617713		0.00169598554581848	
0.0071759258061668		-0.245353776957143		6.32649528851907e-07	
1.88092500190532e-05		-0.380178576577755		7.9580516096266e-14	
4.29965945726844e-12		-0.302879454950082		9.43482556374633e-10	
9.85815878320618e-09					
ENSG00000176444	1	155262868	155278491	protein_coding	CLK2
15623	-0.124633995374382		2.5644560498839e-13	1.38835569036785e-12	
	-0.107742566875581		5.1900906311982e-10	6.60101595379182e-10	-
0.0618799299148129		0.000169056304133425		0.00102122069100218	-
0.0556165633179244		0.000747466784414205		0.00570822795803377	-
0.0626171792755681		0.000161857746878658		0.00101065404353611	-
0.0876380478481416		1.35655271908791e-07		1.02144682506866e-06	
ENSG00000177426	18	3411608	3459978	protein_coding	TGIF1
48370	-0.140482158974358		3.90164744191741e-06		
1.09127047572049e-05		-0.334387125384856		4.3478292606814e-25	
6.46942044433196e-24		-0.149165602464588		8.647267217452e-07	
1.0339335642006e-05		-0.104324136500216		0.0005575514770968	
0.00454186901271001		-0.118134523370428		0.000103345755693718	
0.000688044242714717		-0.176447806550028		7.84153723647106e-09	
7.16080355257812e-08					
ENSG00000178075	3	113828182	113947174	protein_coding	GRAMD1C
118992	-0.616950638969791		6.59405384971104e-38		
5.40677710129728e-36		-0.355921328273778		1.14649387576855e-15	
7.99875866126208e-15		-0.214003409837543		6.51305943794129e-07	
7.83528594468628e-06		-0.145813774848278		0.000659392929250456	
0.00520663073735066		-0.288712403776092		5.32871123635416e-11	

1.88672709889003e-09	-0.153139528577011	0.000333109999650913		
0.00124240380286368				
ENSG00000178234	7	152025674	152122347	protein_coding GALNT11
96673	-0.316841695123366	.33773390527696e-39	5.91230877307244e-37	
-0.233891158900413	.81935082596237e-24	5.26563420510334e-23	-	
0.0898909587813135	3.25049187272702e-05	0.000246180908532884	-	
0.0786930368767180	.000282206009348623	0.00267589009107863	-	
0.0777349335715378	0.000353567708217169	0.00196652314398975	-	
0.0885009632302118	4.34220226611435e-05	0.000200198783970984		
ENSG00000180998	14	52553148	52637713	protein_coding GPR137C
84565	-0.442184828049985	7.60255253117561e-12		
3.99865516148497e-11	-0.725618735010753	1.33412272234894e-26		
2.2110955203696e-25	-0.421853967158226	4.67664262371267e-11		
1.43986987025335e-09	-0.522909505222447	1.48780657166621e-15		
5.03881273477997e-13	-0.332945349661062	1.79024994795945e-07		
2.61880788162068e-06	-0.392270460753307	8.6726854971719e-10		
9.09979389881556e-09				
ENSG00000182197	8	117794490	118111853	protein_coding EXT1
317363	-0.121783926494362	7.219345679622261e-05		
0.000171605410959476	-0.536923695298657	4.2031747594184e-51		
4.45450745421628e-49	-0.196543591165892	.47914392680769e-10		
6.51308317634687e-09	-0.154751737846749	5.40965457257726e-07		
1.64603532394885e-05	-0.226429948578985	7.72659807136605e-13		
4.20883466272069e-11	-0.309430489288414	8.00368257212564e-22		
3.58302789629728e-20				
ENSG00000182983	3	42905731	42917641	protein_coding ZNF662
11910	-0.520737710568215	1.92968549843378e-19		
2.17215103902455e-18	-0.723375758549952	4.97860152178509e-33		
1.37277226739628e-31	-0.195628972145335	0.000341801638923435		
0.00186056175149832	-0.216721363352303	8.12633325466832e-05		
0.000987520637866442	-0.233000799303444	2.5220399525051e-05		
0.000201285145594656	-0.378458942458457	1.46184927779343e-11		
1.96667961129049e-10				
ENSG00000183508	1	117605934	117628372	protein_coding FAM46C
22438	-0.349219000869068	3.65733137012935e-11		
1.78837305132596e-10	-0.457142939647253	1.83851514595988e-17		
1.45836188690982e-16	-0.230076858944568	.20989747971196e-06		
7.37187278596153e-05	-0.199063515549523	0.000115218242645226		
0.00131006781022131	-0.181068783469216	0.000458359074973033		
0.00246063956891967	-0.487132255761076	2.27480398495026e-19		
7.58868764058673e-18				
ENSG00000183801	11	7485388	7511377	protein_coding OLFML1
25989	-1.278092164064982	.62639758637258e-41	3.22178330693688e-39	
-1.579993411804126	.31183833327168e-56	9.64040484255289e-54	-	
0.7006453636550364	.45954637878092e-16	3.32417574330277e-14	-	
0.3466395012972743	.19311208083126e-05	0.00045679975305115	-	
0.57867258535709	1.35839287319877e-11	5.4262570696317e-10	-	
0.8179398188680161	.14177642805553e-20	4.34753466697144e-19		
ENSG00000184226	13	66302834	67230445	protein_coding PCDH9
927611	-1.081044717843372	.59997170530214e-39		
2.56360501246216e-37	-1.012173962232841	.06106897707102e-35		
3.62508631442751e-34	-0.537536716630044	6.0938463925136e-13		
2.65927263162379e-11	-0.250778165827064	0.000571515694011378		
0.00462767307536552	-0.475074197024323	2.1185190091592e-10		

6.45177264765908e-09	-0.257007264348334	0.000395907902443021		
0.00144989403200748				
ENSG00000184887	14	105248490	105251093	protein_coding BTBD6 2603
-0.086318953280669		3.04584665252969e-05	7.62391468505142e-05	
-0.246181126634415		2.25246503820892e-28	4.30566292395788e-27	
-0.106149822883119		3.04420492888266e-07	3.95543524495938e-06	
-0.0877581493458477		2.25419331487662e-05	0.000345990912832147	
-0.142295306981056		1.90833834693432e-11	7.37717198682127e-10	
-0.127030705637818		1.23279355477691e-09	1.26770236236762e-08	
ENSG00000185482	12	57243453	57251193	protein_coding STAC3 7740
-0.389366897131121		2.83875507004322e-11	1.40441299575114e-10	
-0.410838883528707		2.41939542687648e-12	1.25764969487183e-11	
-0.220219893981611		0.00011082743654558	0.000712873919877618	
-0.227169899891903		7.3194221935167e-05	0.000910776983648536	
-0.298709391468187		2.57633975335568e-07	3.61267299887741e-06	
-0.418690774121039		0.08014530404263e-13	1.44346513971102e-11	
ENSG00000185924	17	1934677	2025345	protein_coding RTN4RL1
90668	-0.732611560651214	2.70869764921285e-19		
3.00347335779979e-18		-1.384953042261593	0.08792364783402e-51	
3.29498373353467e-49		-0.291270150153542	0.00015373169078801	
0.000941055406988765		-0.362075127711376	3.26409197675486e-06	
7.1320180793638e-05		-0.480577654387693	1.25221446815706e-09	
3.25680287135541e-08		-0.785983669325642	9.09434557963331e-22	
4.02502300525873e-20				
ENSG00000186205	1	220786759	220819657	protein_coding MARC1
32898	-0.613933014907351	2.1006003252907e-34		
1.1245791226015e-32		-0.514285050538086	4.80294863837489e-26	
7.61191626014674e-25		-0.263284249475364	9.34692563906612e-09	
1.79109169164835e-07		-0.259891330461181	1.64535147143249e-08	
9.82261250344446e-07		-0.299943643403104	1.17895717903669e-10	
3.81057549630968e-09		-0.360100895352259	1.38302037168079e-14	
2.74822377173661e-13				
ENSG00000187634	1	923928	944581	protein_coding SAMD11
20653	-1.251813639664552	2.22085545473175e-24	4.18364052349043e-23	
-2.178760738363511	1.2476048692136e-54	1.62246700238407e-52	-	
1.24698672910471	1.74115841066754e-24	4.0485831163865e-22	-	
0.4934123962079571	1.59186983194994e-05	0.00026160063409228	-	
0.3609002339543260	0.00143520281905948	0.00651676616675244	-	
0.8611780060081942	1.9739953901365e-13	3.78686807724487e-12	-	
ENSG00000187758	4	99276367	99291028	protein_coding ADH1A
14661	-1.446064470184591	1.4644055369091e-37	1.13502357509984e-35	
-1.583959631182013	1.41947347289388e-43	2.09732193835487e-41	-	
1.17880554429207	1.71502170062498e-27	5.34366461480731e-25	-	
0.5760866246045	1.81441653666164e-08	1.05475190815284e-06	-	
0.8033468473525711	1.83087741372611e-14	1.45526730757342e-12	-	
1.20334591286096	2.21293330414671e-28	1.80498889765977e-26	-	
ENSG00000187837	6	26055787	26056428	protein_coding HIST1H1C
641	-0.156066829013973	1.88344549518862e-06	1.08656963666565e-05	
-0.731434398393118		9.52281182358499e-69	3.70889713499077e-66	
-0.332772429599014		4.02928828848522e-21	6.40533492309298e-19	
-0.461866167867831		1.95527935331115e-35	4.35161386360491e-32	
0.3316439762547321	1.12016795309325e-20	2.49301379160567e-18	-	
0.2828763019622773	1.81607861612417e-16	9.00768011524219e-15	-	

ENSG00000189077	7	75986837	75994659	protein_coding	TMEM120A
7822	-0.0923647239874796		4.39037674779356e-05		
0.000107408416070785		-0.218871263482169		2.68141587330998e-20	
2.68814529538586e-19		-0.104420715016856		3.72111975277161e-06	
3.678383542413e-05		-0.150693349555433		5.89135598021367e-11	
8.19477096569186e-09		-0.221304566303401		1.68441443565522e-20	
3.69598485817926e-18		-0.356120505449525		4.36148682307272e-44	
1.06168130026015e-41					
ENSG00000196141	2	200305881	200482263	protein_coding	SPATS2L
176382	-0.163633922339756		4.5155510221545e-19		
4.85827136561774e-18		-0.184171798330212		3.78599854169971e-23	
4.79919213027988e-22		-0.207393466608995		2.76535132980349e-28	
9.36552355804535e-26		-0.096245144883734		5.46222025018206e-08	
2.55543331163923e-06		-0.156645922897528		1.34158801815275e-17	
1.77123726566117e-15		-0.140005574298253		7.39258674154127e-15	
1.51140562790645e-13					
ENSG00000196660	1	219685427	219958647	protein_coding	SLC30A10
273220	-0.606716696856643		1.28319674883118e-23		
2.18578618367601e-22		-0.510186555734697		8.84383043250507e-18	
7.22485759349746e-17		-0.199456713680560		0.000428404291360293	
0.0022524841225454		-0.235344780715952		3.74236054206835e-05	
0.000521486895213621		-0.325687226807125		1.90725606717985e-08	
3.60596386779063e-07		-0.249834331821146		1.13591015852891e-05	
5.89288856467597e-05					
ENSG00000197622	1	151050971	151070325	protein_coding	CDC42SE1
19354	-0.0940707626647352		7.26717229963854e-05		
0.000172663225950997		-0.224692334066935		1.41565426781466e-19	
1.33988322225301e-18		-0.0966561149499565		4.25960363008126e-05	
0.000311258747434503		-0.076677698877929		0.00117099901348626	
0.00813330077177996		-0.128095277119441		9.76818890921416e-08	
1.53560660965335e-06		-0.108995382041036		4.24808208176901e-06	
2.39006394914696e-05					
ENSG00000197694	9	128552558	128633662	protein_coding	SPTAN1
81104	-0.252844491216436		3.48663935971081e-20		
4.23369872057169e-19		-0.378783952154604		1.66840196863697e-38	
7.02487412686362e-37		-0.153500565801714		6.04565957987117e-09	
1.20595813821784e-07		-0.149014165309767		1.8347632525157e-08	
1.05475190815284e-06		-0.188192736153743		2.81019060719063e-12	
1.31471349758027e-10		-0.271454954823925		7.03805068798029e-23	
3.49190419324984e-21					
ENSG00000197822	5	69492292	69558104	protein_coding	OCN
65812	-0.392081575780191		9.3640424795527e-24	3.6789319242555e-23	
	-0.184448081411093		8.3798981202945e-07	1.19608008164847e-06	-
0.1174949734829710		0.00102997409487679		0.00473332342893376	-
0.1438648045754946		7.2343639351655e-05		0.000851580614427597	-
0.1237506234866220		0.000620317572262022		0.00318731116697561	-
0.21505384619556		3.54696578141056e-09		3.39007238703037e-08	
ENSG00000198515	4	47935977	48016672	protein_coding	CNGA1
80695	-0.744587095204943		1.22456305451295e-34		
6.74115470892481e-33		-0.523078370586683		6.63342165660994e-20	
6.46696345358738e-19		-0.342336019067773		5.57606240830254e-10	
1.37451702941369e-08		-0.273740541674218		6.15309077036549e-07	
1.83637933163839e-05		-0.206146242773568		0.0001623817111983399	

	0.00101311361273103	-0.323398537844642	4.64908206974069e-09		
	4.37103497673448e-08				
ENSG00000198561	11	57753243	57819546	protein_coding	CTNND1
	66303	-0.171590126589672	3.4156416746233e-20	2.88145562123978e-19	
	-0.304865505418405	4.81863386442656e-50	4.81214724191676e-48		
	-0.0956453954792291	7.19778194016489e-08	1.10151517530284e-06		
	-0.113076454584737	3.14405252178044e-10	3.2975613053106e-08		
	-0.0795523580725384	8.06060094782582e-06	7.44816738826681e-05		
	-0.0941382268389557	1.11665681201045e-07	8.50263757297691e-07		
ENSG00000198730	11	10750987	10779743	protein_coding	CTR9
	28756	-0.121923627295082	1.98882615636824e-08		
	7.33173750356385e-08	-0.129898349123998	2.4331693694678e-09		
	9.32964450084638e-09	-0.101809245199307	2.14718530305318e-06		
	2.2771272863353e-05	-0.0826323050881177	0.000118698140669678		
	0.00134487151526758	-0.0736088264590027	0.000626242897725043		
	0.00321140161410745	-0.143787380315199	4.30453926693533e-11		
	5.42560010029009e-10				
ENSG00000204262	2	189031896	189179879	protein_coding	COL5A2
	147983	-0.668853075406735	8.78836581826013e-32		
	3.53782819335076e-30	-0.645158437608504	4.66654764741326e-30		
	1.00692722713367e-28	-0.340558940887231	1.21671214539633e-10		
	3.41534387623952e-09	-0.264670469360656	4.75445815508861e-07		
	1.49275673339413e-05	-0.315441729939494	2.99271570431986e-09		
	7.00052822186173e-08	-0.179696791039794	0.000526770357336835		
	0.00187578409073156				
ENSG00000205517	19	11384341	11419342	protein_coding	RGL3
	35001	-0.264674827590946	3.00417389515409e-19		
	3.31224523089919e-18	-0.338171831377739	1.01578930635727e-28		
	1.97073245376588e-27	-0.123633108435858	1.09470867463758e-05		
	9.45893868118632e-05	-0.0893844457754547	0.0014453060567557		
	0.00955705562741811	-0.176786216990537	6.8461150327601e-10		
	2.10772117270312e-08	-0.305591465478999	1.72575705893489e-24		
	1.03518557982195e-22				
ENSG00000205542	X	12975108	12977227	protein_coding	TMSB4X
	2119	-0.387557902180334	1.93447548925926e-17		
	1.75114431418768e-16	-0.725827745409534	3.98633383007199e-47		
	3.23453618430685e-45	-0.390690038082128	8.1685112233497e-18		
	7.95357727178531e-16	-0.140075988524589	0.001336207738609		
	0.00903862736323864	-0.165941069642146	0.000161763029713852		
	0.00101046761824864	-0.173107958329005	7.29033046982342e-05		
	0.000318318549297587				
ENSG00000213722	6	31727038	31730617	protein_coding	DDAH2 3579
	-0.471176844531105	3.66028053467524e-29	1.16137495824247e-27		
	-0.489507007016847	4.73677087113634e-31	1.10470289523103e-29		
	-0.125063874311884	0.00115304349105036	0.00519620033181185		
	-0.143178049060833	0.0002195460335824	0.00217438503317241		
	-0.272571082044109	7.88836803619584e-12	3.33948058793193e-10		
	-0.271835181507515	6.24341096309092e-12	8.818322701178e-11		
ENSG00000221978	1	1385711	1399328	protein_coding	CCNL2
	13617	-0.274021446122767	1.50167211793498e-56		
	1.11402618691948e-53	-0.176704841603298	3.53949228475053e-29		
	7.09675036089171e-28	-0.0761089998029707	1.96481410536192e-07		
	2.68037118629013e-06	-0.0710881929833729	1.24406550975361e-06		
	3.21948448113813e-05	-0.158812319935259	2.24592324818033e-24		

	7.60635614856551e-22	-0.129046515389065	1.29491566005567e-17		
	3.57686011844102e-16				
ENSG00000228486	2	97664217	97703064	protein_coding	C2orf92
	38847	-0.385179703845899	2.60802155805337e-18		
	2.58298587748973e-17	-0.255972507944975	2.12597709576692e-09		
	8.20222812653613e-09	-0.136965267440589	0.00105838968502957		
	0.0048364972903012	-0.142955722934182	0.000676222301714475		
	0.00530991292258559	-0.259551163398386	1.60673653226843e-09		
	4.05010224716164e-08	-0.191616170101795	.63601091472438e-06		
	3.10698563483691e-05				
ENSG00000237172	16	67148105	67151214	protein_coding	B3GNT9
	3109	-0.268783190980106	1.02424965900504e-08		
	3.89379830103453e-08	-0.474766540477253	3.82701822868646e-22		
	4.47605983368667e-21	-0.246642523903458	1.17979244909203e-07		
	1.70342785582991e-06	-0.263228933874499	2.02618006439438e-08		
	1.12735211511429e-06	-0.299802827124953	2.53955085766866e-10		
	7.6230564184239e-09	-0.265806179451038	1.32244986497394e-08		
	1.17593872411124e-07				
ENSG00000242265	7	94656325	94669695	protein_coding	PEG10
	13370	-1.765323393901563	.40771378836601e-50	1.26401840735605e-47	
	-1.740067848734234	.11933883342925e-49	3.86597467987917e-47	-	
	0.7415265247765129	.78068452960651e-13	4.12935729774363e-11	-	
	0.6130303512377082	.99675811471833e-09	2.26633469267946e-07	-	
	0.7797577599888331	.31152721282588e-13	8.84514391714907e-12	-	
	0.8789542574946397	.01529092496328e-17	1.77709296455289e-15		
ENSG00000248592	3	52833121	52897562	protein_coding	TMEM110-
MUSTN1	64441	-0.863889196953441	4.77576147130417e-18		
	4.58057696677705e-17	-0.435127320962671	5.11666543823668e-06		
	1.39920187576425e-05	-0.309040111039186	0.00105553391419088		
	0.00482799848772157	-0.424915177645439	8.58812333206855e-06		
	0.000160617495066382	-0.405382145683723	2.28398280697281e-05		
	0.000184938503897242	-0.316894742822444	0.000797221047748731		
	0.00271236224129231				
ENSG00000250436	4	73508803	73534128	lincRNA	LINC02499
	25325	-0.787660109067909	9.48478783140682e-21		
	1.21018435401709e-19	-0.934517439400448	1.98846169258722e-27		
	3.51227264272293e-26	-0.421066677375895	1.40810027600576e-07		
	1.97628776575619e-06	-0.467274461068549	7.02673757440255e-09		
	4.82244690183336e-07	-0.452571747162946	2.23931581716953e-08		
	4.16304309256373e-07	-0.589168139192227	5.5097365766834e-13		
	9.04490897030039e-12				
ENSG00000251562	11	65497762	65506516	lincRNA	MALAT1
	8754	-0.351476460585181	3.79618251406877e-25	7.71065546110527e-24	
	-0.459322443292686	2.19806201448153e-38	9.20527100096984e-37		
	-0.377461721974283	1.97335850481214e-28	6.83176714365963e-26		
	-0.294582444074772	7.8858143590123e-19	3.96300328706621e-16		
	-0.302082273824711	1.83844472337146e-19	3.30182298365282e-17		
	-0.318289640812198	1.44145483756381e-21	6.15244518202918e-20		

eQTL	qvalue	Omeprazole	qvalue	Phenobarbital	qvalue	Dexamethasone	gene
	qvalue	Carbamazepin	qvalue	Phenytoin	qvalue	Rifampicin	snpsnp
rs72882321:172298662:C:T:ENSG00000071967	0.548514013	0.755899513	0.710284102	0.813853703	0.607460586	0.039514306	
rs72882321:172298662:C:T			ENSG00000071967				
rs12052918:172368896:T:C:ENSG00000071967	0.238368074	0.717626797	0.532319281	0.659336192	0.363374684	0.039514306	
rs12052918:172368896:T:C			ENSG00000071967				
rs12052537:172369108:C:A:ENSG00000071967	0.20393713	0.687899847	0.480692872	0.60918994	0.359567157	0.039514306	
rs12052537:172369108:C:A			ENSG00000071967				
rs17221848:ENSG00000071967	0.630446445	0.63278855	0.736913564	rs17221848	0.039514306	0.184980376	ENSG00000071967
rs374693482:172372701:TCA:T:ENSG00000071967	0.20393713	0.627744359	0.655885306	0.737268887	0.363374684	0.039514306	
rs374693482:172372701:TCA:T			ENSG00000071967				
rs72884306:172375786:C:T:ENSG00000071967	0.121437838	0.558498626	0.54593522	0.692744521	0.297292124	0.039514306	
rs72884306:172375786:C:T			ENSG00000071967				
rs7585974:172377212:C:G:ENSG00000071967	0.477036266	0.712954796	0.66458282	0.796725806	0.400417037	0.039514306	
rs7585974:172377212:C:G			ENSG00000071967				
rs115283512:172379649:C:T:ENSG00000071967	0.054815691	0.484670506	0.519536868	0.692744521	0.260395929	0.039514306	
rs115283512:172379649:C:T			ENSG00000071967				
rs72884332:172380348:T:G:ENSG00000071967	0.054815691	0.476011459	0.519536868	0.689693952	0.248591073	0.039514306	
rs72884332:172380348:T:G			ENSG00000071967				
rs151054210:172381487:G:A:ENSG00000071967	0.054815691	0.424824518	0.371793022	0.532059322	0.271758927	0.039514306	
rs151054210:172381487:G:A			ENSG00000071967				
rs55862034:172382840:C:G:ENSG00000071967	0.054815691	0.455203609	0.477032507	0.661034047	0.23524183	0.039514306	
rs55862034:172382840:C:G			ENSG00000071967				
2:201748874:G:C:ENSG00000240344	0.072575018	0.069942274	0.063994875	2:201748874:G:C	0.035322296	0.110495165	0.054815691
rs10172647:201778950:A:G:ENSG00000240344	0.090437058	0.123210094	0.069942274	0.140342165	0.035322296	0.12731097	
rs10172647:201778950:A:G			ENSG00000240344				
rs10207973:201806597:T:C:ENSG00000240344	0.255451763	0.197042097	0.069942274	0.225997306	0.035322296	0.38687185	
rs10207973:201806597:T:C			ENSG00000240344				
rs68133847:201812251:G:A:ENSG00000240344	0.090437058	0.165229468	0.069942274	0.174366738	0.035322296	0.145249232	
rs68133847:201812251:G:A			ENSG00000240344				
rs6723527:201855554:G:A:ENSG00000240344	0.090437058	0.165229468	0.069942274	0.174366738	0.035322296	0.145249232	
rs6723527:201855554:G:A			ENSG00000240344				
rs7597409:201893188:T:C:ENSG00000240344	0.054815691	0.072575018	0.069942274	0.225997306	0.035322296	0.145249232	
rs7597409:201893188:T:C			ENSG00000240344				
rs114938073:201894019:A:G:ENSG00000240344	0.054815691	0.072575018	0.069942274	0.225997306	0.035322296	0.145249232	
rs114938073:201894019:A:G			ENSG00000240344				

rs13408186:201896367:T:C:ENSG00000240344 0.035322296 0.145249232
0.054815691 0.072575018 0.069942274 0.225997306
rs13408186:201896367:T:C ENSG00000240344
rs10185136:201904301:C:T:ENSG00000240344 0.035322296 0.209793344
0.090437058 0.123210094 0.069942274 0.308405655
rs10185136:201904301:C:T ENSG00000240344
rs28405687:201906661:T:C:ENSG00000240344 0.035322296 0.316996396
0.20393713 0.123210094 0.069942274 0.369977602
rs28405687:201906661:T:C ENSG00000240344
rs16842071:201931730:T:C:ENSG00000240344 0.035322296 0.311964405
0.184980376 0.123210094 0.069942274 0.369977602
rs16842071:201931730:T:C ENSG00000240344
rs57631609:201963772:T:C:ENSG00000240344 0.035322296 0.265249339
0.283332252 0.197042097 0.069942274 0.447199093
rs57631609:201963772:T:C ENSG00000240344
rs142396015:201972973:T:TATC:ENSG00000240344 0.035322296 0.3227674
0.390230616 0.123210094 0.112902598 0.423659401
rs142396015:201972973:T:TATC ENSG00000240344
rs2881928:201982544:T:C:ENSG00000240344 0.035322296 0.33968813
0.360243455 0.197042097 0.069942274 0.497503372
rs2881928:201982544:T:C ENSG00000240344
rs7583529:201988238:G:A:ENSG00000240344 0.035322296 0.248891879 0.5196698
0.558498626 0.173591669 0.813853703 rs7583529:201988238:G:A
ENSG00000240344
rs4663326:234616571:A:G:ENSG00000240224 0.035322296 0.039514306
0.054815691 0.399004389 0.069942274 0.063994875
rs4663326:234616571:A:G ENSG00000240224
rs2885295:234619866:T:A:ENSG00000240224 0.404030971 0.039514306
0.054815691 0.314254491 0.069942274 0.75395128
rs2885295:234619866:T:A ENSG00000240224
rs2885295:234619866:T:A:ENSG00000244474 0.146968287 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2885295:234619866:T:A ENSG00000244474
rs28898595:234620533:T:C:ENSG00000240224 0.404030971 0.039514306
0.054815691 0.314254491 0.069942274 0.75395128
rs28898595:234620533:T:C ENSG00000240224
rs28898596:234620640:G:A:ENSG00000240224 0.38908834 0.039514306
0.054815691 0.301206855 0.069942274 0.737268887
rs28898596:234620640:G:A ENSG00000240224
rs28898596:234620640:G:A:ENSG00000244474 0.155490932 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs28898596:234620640:G:A ENSG00000244474
rs3893334:234620917:C:T:ENSG00000240224 0.390769583 0.039514306
0.054815691 0.301206855 0.069942274 0.737268887
rs3893334:234620917:C:T ENSG00000240224
rs3893334:234620917:C:T:ENSG00000244474 0.155490932 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3893334:234620917:C:T ENSG00000244474
rs2013030:234621040:A:G:ENSG00000240224 0.035322296 0.039514306
0.054815691 0.399004389 0.069942274 0.063994875
rs2013030:234621040:A:G ENSG00000240224
rs2013018:234621157:T:C:ENSG00000240224 0.386834658 0.039514306
0.054815691 0.326422852 0.069942274 0.748055982
rs2013018:234621157:T:C ENSG00000240224

rs2013018:234621157:T:C:ENSG00000244474 0.146968287 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2013018:234621157:T:C ENSG00000244474
rs5020121:234621269:C:T:ENSG00000240224 0.386834658 0.039514306
0.054815691 0.314254491 0.069942274 0.748055982
rs5020121:234621269:C:T ENSG00000240224
rs5020121:234621269:C:T:ENSG00000244474 0.146968287 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs5020121:234621269:C:T ENSG00000244474
rs5839490:234621391:T:TC:ENSG00000240224 0.36952798 0.039514306
0.054815691 0.314254491 0.112902598 0.72816107
rs5839490:234621391:T:TC ENSG00000240224
rs5839490:234621391:T:TC:ENSG00000244474 0.146968287 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs5839490:234621391:T:TC ENSG00000244474
rs4556969:234621404:C:T:ENSG00000240224 0.38908834 0.039514306
0.054815691 0.314254491 0.069942274 0.748055982
rs4556969:234621404:C:T ENSG00000240224
rs4556969:234621404:C:T:ENSG00000244474 0.146968287 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs4556969:234621404:C:T ENSG00000244474
rs3755323:234621780:T:C:ENSG00000240224 0.38908834 0.039514306
0.054815691 0.314254491 0.069942274 0.748055982
rs3755323:234621780:T:C ENSG00000240224
rs3755323:234621780:T:C:ENSG00000244474 0.146968287 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3755323:234621780:T:C ENSG00000244474
rs3755322:234621787:C:G:ENSG00000240224 0.390769583 0.039514306
0.054815691 0.314254491 0.069942274 0.748055982
rs3755322:234621787:C:G ENSG00000240224
rs3755322:234621787:C:G:ENSG00000244474 0.146968287 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3755322:234621787:C:G ENSG00000244474
exm277212:ENSG00000240224 0.415662768 0.039514306 0.054815691
0.399004389 0.173591669 0.765700979 exm277212 ENSG00000240224
rs3755320:234622061:C:A:ENSG00000240224 0.390769583 0.039514306
0.054815691 0.226823504 0.069942274 0.748055982
rs3755320:234622061:C:A ENSG00000240224
rs3755320:234622061:C:A:ENSG00000244474 0.100009087 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3755320:234622061:C:A ENSG00000244474
rs12475068:234622110:C:G:ENSG00000240224 0.396535557 0.039514306
0.054815691 0.244282474 0.069942274 0.753387287
rs12475068:234622110:C:G ENSG00000240224
rs17868333:234622282:C:T:ENSG00000240224 0.396535557 0.039514306
0.054815691 0.244282474 0.069942274 0.75395128
rs17868333:234622282:C:T ENSG00000240224
rs17868333:234622282:C:T:ENSG00000244474 0.117465891 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs17868333:234622282:C:T ENSG00000244474
rs2012736:234622379:C:A:ENSG00000240224 0.386834658 0.039514306
0.054815691 0.301206855 0.069942274 0.735371396
rs2012736:234622379:C:A ENSG00000240224

rs2012736:234622379:C:A:ENSG00000244474 0.117465891 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2012736:234622379:C:A ENSG00000244474
rs17862868:234622382:G:C:ENSG00000240224 0.365060315 0.039514306
0.054815691 0.276782326 0.069942274 0.710464737
rs17862868:234622382:G:C ENSG00000240224
rs17862868:234622382:G:C:ENSG00000244474 0.117465891 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs17862868:234622382:G:C ENSG00000244474
rs3892170:234622412:G:C:ENSG00000240224 0.357981916 0.039514306
0.054815691 0.263905944 0.069942274 0.699560088
rs3892170:234622412:G:C ENSG00000240224
rs3892170:234622412:G:C:ENSG00000244474 0.132837758 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3892170:234622412:G:C ENSG00000244474
rs17862870:234622742:G:A:ENSG00000240224 0.382322444 0.039514306
0.054815691 0.333474506 0.069942274 0.728499331
rs17862870:234622742:G:A ENSG00000240224
rs17862870:234622742:G:A:ENSG00000244474 0.100009087 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs17862870:234622742:G:A ENSG00000244474
rs4663945:234623117:G:A:ENSG00000240224 0.035322296 0.039514306
0.054815691 0.432896498 0.069942274 0.063994875
rs4663945:234623117:G:A ENSG00000240224
rs148944858:234623534:A:ATCTTTTTTTTTT:ENSG00000244474 0.117465891
0.039514306 0.054815691 0.072575018 0.069942274 0.063994875
rs148944858:234623534:A:ATCTTTTTTTTTT ENSG00000244474
rs12477216:234623667:C:T:ENSG00000240224 0.342246666 0.039514306
0.054815691 0.244282474 0.069942274 0.687592023
rs12477216:234623667:C:T ENSG00000240224
rs12477216:234623667:C:T:ENSG00000244474 0.081933656 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs12477216:234623667:C:T ENSG00000244474
rs35623965:234624020:C:CAT:ENSG00000240224 0.343365679 0.039514306
0.054815691 0.244282474 0.069942274 0.682445152
rs35623965:234624020:C:CAT ENSG00000240224
rs17862871:234624374:C:T:ENSG00000240224 0.343365679 0.039514306
0.054815691 0.244282474 0.069942274 0.682445152
rs17862871:234624374:C:T ENSG00000240224
rs17868334:234624817:A:G:ENSG00000240224 0.405404276 0.039514306
0.054815691 0.326422852 0.069942274 0.75395128
rs17868334:234624817:A:G ENSG00000240224
rs17863791:234624884:T:C:ENSG00000240224 0.404030971 0.039514306
0.054815691 0.326422852 0.069942274 0.75395128
rs17863791:234624884:T:C ENSG00000240224
rs17863791:234624884:T:C:ENSG00000244474 0.081933656 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs17863791:234624884:T:C ENSG00000244474
rs17868335:234624983:C:A:ENSG00000240224 0.444708302 0.039514306
0.054815691 0.445043357 0.251839208 0.782163764
rs17868335:234624983:C:A ENSG00000240224
rs17863792:234625126:G:A:ENSG00000240224 0.429516025 0.039514306
0.054815691 0.469436994 0.279727316 0.813853703
rs17863792:234625126:G:A ENSG00000240224

rs17864696:234625194:A:C:ENSG00000240224 0.353415248 0.039514306
0.054815691 0.244282474 0.069942274 0.701491834
rs17864696:234625194:A:C ENSG00000240224
rs17874943:234625239:A:G:ENSG00000240224 0.353415248 0.039514306
0.054815691 0.244282474 0.069942274 0.701491834
rs17874943:234625239:A:G ENSG00000240224
rs28898605:234625494:A:G:ENSG00000240224 0.39423759 0.039514306
0.054815691 0.326422852 0.069942274 0.753627885
rs28898605:234625494:A:G ENSG00000240224
rs3806595:234625718:T:A:ENSG00000240224 0.404030971 0.039514306
0.054815691 0.358702521 0.198669295 0.749911035
rs3806595:234625718:T:A ENSG00000240224
rs3806594:234625890:T:C:ENSG00000240224 0.393141652 0.039514306
0.054815691 0.37163762 0.112902598 0.755308559
rs3806594:234625890:T:C ENSG00000240224
rs3806593:234625919:A:G:ENSG00000240224 0.395046141 0.039514306
0.054815691 0.333474506 0.112902598 0.759430312
rs3806593:234625919:A:G ENSG00000240224
rs3806591:234626199:T:C:ENSG00000240224 0.410204038 0.039514306
0.054815691 0.399004389 0.069942274 0.768929031
rs3806591:234626199:T:C ENSG00000240224
rs3732221:234627010:C:T:ENSG00000240224 0.357981916 0.039514306
0.054815691 0.244282474 0.069942274 0.723412688
rs3732221:234627010:C:T ENSG00000240224
rs3732221:234627010:C:T:ENSG00000244474 0.081933656 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3732221:234627010:C:T ENSG00000244474
rs3732220:234627048:G:A:ENSG00000240224 0.356504719 0.039514306
0.054815691 0.244282474 0.069942274 0.723412688
rs3732220:234627048:G:A ENSG00000240224
rs3732220:234627048:G:A:ENSG00000244474 0.060909118 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3732220:234627048:G:A ENSG00000244474
2:234627248-C-T:ENSG00000240224 0.397619131 0.039514306 0.054815691
0.350892299 0.069942274 0.758762279 2:234627248-C-T ENSG00000240224
2:234627248-C-T:ENSG00000244474 0.200359533 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 2:234627248-C-T ENSG00000244474
rs3732218:234627304:G:A:ENSG00000240224 0.382322444 0.039514306
0.054815691 0.333474506 0.069942274 0.736913564
rs3732218:234627304:G:A ENSG00000240224
rs3732218:234627304:G:A:ENSG00000244474 0.200359533 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3732218:234627304:G:A ENSG00000244474
2:234627608-T-G:ENSG00000244474 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 2:234627608-T-G ENSG00000244474
rs115035044:238377030:T:A:ENSG00000115648 0.393141652 0.039514306
0.828327833 0.558498626 0.731325674 0.476127813
rs115035044:238377030:T:A ENSG00000115648
rs11680800:241793977:A:G:ENSG00000172478 0.190392053 0.039514306
0.390230616 0.326422852 0.069942274 0.063994875
rs11680800:241793977:A:G ENSG00000172478
rs10933638:ENSG00000172478 0.290380371 0.039514306 0.5196698
0.326422852 0.069942274 0.063994875 rs10933638 ENSG00000172478

rs4401206:241796905:A:G:ENSG00000172478 0.357981916 0.039514306
0.593231314 0.432896498 0.069942274 0.063994875
rs4401206:241796905:A:G ENSG00000172478
rs6437371:241797424:G:C:ENSG00000172478 0.320653282 0.039514306
0.568513848 0.390584104 0.112902598 0.063994875
rs6437371:241797424:G:C ENSG00000172478
rs4465762:241798862:G:A:ENSG00000172478 0.359567157 0.039514306
0.587216849 0.429269101 0.148497947 0.063994875
rs4465762:241798862:G:A ENSG00000172478
rs10182575:241806690:C:T:ENSG00000172478 0.376064036 0.039514306
0.604215794 0.435112224 0.112902598 0.063994875
rs10182575:241806690:C:T ENSG00000172478
rs4283416:241820207:G:C:ENSG00000172478 0.600934349 0.039514306
0.708429962 0.435112224 0.237095457 0.140342165
rs4283416:241820207:G:C ENSG00000172478
rs11898716:241828311:A:G:ENSG00000172478 0.601362592 0.039514306
0.686442642 0.385352708 0.112902598 0.108665807
rs11898716:241828311:A:G ENSG00000172478
rs6720357:241830296:A:C:ENSG00000172478 0.600934349 0.039514306
0.708429962 0.435112224 0.237095457 0.140342165
rs6720357:241830296:A:C ENSG00000172478
rs6749674:241834501:G:C:ENSG00000172478 0.601362592 0.039514306
0.716164833 0.419678998 0.237095457 0.140342165
rs6749674:241834501:G:C ENSG00000172478
rs3936203:241834654:A:G:ENSG00000172478 0.605787723 0.039514306
0.730770151 0.476011459 0.300892226 0.108665807
rs3936203:241834654:A:G ENSG00000172478
rs6748734:241837452:A:G:ENSG00000172478 0.556419241 0.039514306
0.793209929 0.486971863 0.347424829 0.308405655
rs6748734:241837452:A:G ENSG00000172478
rs4675860:241840417:A:G:ENSG00000172478 0.554566691 0.039514306
0.777393854 0.447551187 0.311775972 0.24867752
rs4675860:241840417:A:G ENSG00000172478
rs2871579:242054129:G:A:ENSG00000122085 0.289740841 0.039514306
0.828327833 0.558498626 0.920590777 0.419171564
rs2871579:242054129:G:A ENSG00000122085
rs2041083:242056214:T:C:ENSG00000122085 0.386834658 0.039514306
0.828327833 0.571216401 0.924570959 0.438723573
rs2041083:242056214:T:C ENSG00000122085
rs2255558:9416832:C:T:ENSG00000206573 0.190392053 0.039514306
0.390230616 0.072575018 0.831120493 0.634143776 rs2255558:9416832:C:T
ENSG00000206573
rs2648561:9418083:G:A:ENSG00000206573 0.23524183 0.039514306
0.450702715 0.072575018 0.85654698 0.66967784 rs2648561:9418083:G:A
ENSG00000206573
rs2596912:9438746:C:T:ENSG00000206573 0.264115932 0.039514306
0.592067279 0.358702521 0.879548973 0.782163764 rs2596912:9438746:C:T
ENSG00000206573
rs2251166:9441737:G:A:ENSG00000206573 0.146129194 0.039514306
0.557353332 0.072575018 0.839071584 0.66629958 rs2251166:9441737:G:A
ENSG00000206573
rs7650141:9449410:T:C:ENSG00000206573 0.146968287 0.039514306
0.568513848 0.072575018 0.850760242 0.681432383 rs7650141:9449410:T:C
ENSG00000206573

rs4328788:9457261:A:T:ENSG00000206573 0.196140407 0.039514306
0.568513848 0.358702521 0.9305498 0.758857069 rs4328788:9457261:A:T
ENSG00000206573

rs4308263:9457358:A:G:ENSG00000206573 0.228236375 0.039514306
0.589831546 0.399004389 0.9305498 0.775020218 rs4308263:9457358:A:G
ENSG00000206573

rs34073644:9457867:GTCT:G:ENSG00000206573 0.132837758 0.039514306
0.539346559 0.072575018 0.817417629 0.636576046
rs34073644:9457867:GTCT:G ENSG00000206573

rs7615424:9458710:A:T:ENSG00000206573 0.035322296 0.039514306
0.370396184 0.263905944 0.879548973 0.614118716 rs7615424:9458710:A:T
ENSG00000206573

rs3885755:9459206:A:G:ENSG00000206573 0.132837758 0.039514306
0.581240934 0.123210094 0.864454465 0.699560088 rs3885755:9459206:A:G
ENSG00000206573

rs3885754:9459295:A:G:ENSG00000206573 0.190392053 0.039514306
0.568513848 0.358702521 0.9305498 0.75609486 rs3885754:9459295:A:G
ENSG00000206573

rs34665459:9464725:T:C:ENSG00000206573 0.219347314 0.039514306
0.580001614 0.390584104 0.9305498 0.762727032
rs34665459:9464725:T:C ENSG00000206573

rs2596937:ENSG00000206573 0.169284753 0.039514306 0.557353332
0.385352708 0.897716677 0.760182201 rs2596937 ENSG00000206573

rs111848682:9494274:TGTTTACAG:T:ENSG00000206573 0.271758927
0.039514306 0.539346559 0.390584104 0.935509834 0.782163764
rs111848682:9494274:TGTTTACAG:T ENSG00000206573

rs3898760:9495119:C:A:ENSG00000206573 0.28152348 0.039514306
0.568513848 0.401539023 0.942757737 0.797872501 rs3898760:9495119:C:A
ENSG00000206573

rs2648580:ENSG00000206573 0.23344096 0.039514306 0.528262409
0.072575018 0.790805577 0.740998143 rs2648580 ENSG00000206573

rs35667509:9497885:GT:G:ENSG00000206573 0.25732594 0.039514306 0.48190184
0.419678998 0.897716677 0.631825967 rs35667509:9497885:GT:G
ENSG00000206573

rs3872707:9514016:G:A:ENSG00000206573 0.289740841 0.039514306
0.324917292 0.350892299 0.848727643 0.813853703 rs3872707:9514016:G:A
ENSG00000206573

rs17050383:9514580:G:A:ENSG00000206573 0.271758927 0.039514306
0.495886418 0.458827356 0.920076405 0.704314191
rs17050383:9514580:G:A ENSG00000206573

rs7619363:14681274:T:C:ENSG00000154781 0.035322296 0.039514306
0.054815691 0.072575018 0.112902598 0.453831125
rs7619363:14681274:T:C ENSG00000154781

rs9310457:ENSG00000154781 0.035322296 0.145249232 0.054815691
0.072575018 0.173591669 0.414364157 rs9310457 ENSG00000154781

rs60053343:14689720:T:TTTA:ENSG00000154781 0.060909118 0.039514306
0.054815691 0.072575018 0.148497947 0.457928806
rs60053343:14689720:T:TTTA ENSG00000154781

rs7637233:14692314:T:G:ENSG00000154781 0.31683404 0.039514306
0.568513848 0.072575018 0.493250562 0.517746279
rs7637233:14692314:T:G ENSG00000154781

rs11349697:48838111:CT:C:ENSG00000178252 0.331782397 0.039514306
0.687554362 0.290136921 0.690981753 0.831753861
rs11349697:48838111:CT:C ENSG00000178252

rs11326627:48860215:TG:T:ENSG00000178252 0.271758927 0.039514306
0.744376278 0.276782326 0.54593522 0.813853703
rs11326627:48860215:TG:T ENSG00000178252
rs9311434:48884147:T:C:ENSG00000178252 0.271758927 0.039514306
0.747767793 0.276782326 0.580298595 0.813853703
rs9311434:48884147:T:C ENSG00000178252
rs7623023:48914238:G:A:ENSG00000178252 0.293391132 0.039514306
0.774174244 0.340834261 0.608245709 0.813853703
rs7623023:48914238:G:A ENSG00000178252
rs7431710:48935583:G:A:ENSG00000178252 0.291376195 0.039514306
0.760415187 0.36680942 0.629639249 0.813853703
rs7431710:48935583:G:A ENSG00000178252
rs11920534:48937761:G:T:ENSG00000178252 0.27577637 0.039514306
0.730770151 0.358702521 0.526407644 0.813853703
rs11920534:48937761:G:T ENSG00000178252
rs11705737:48951259:C:T:ENSG00000178252 0.271758927 0.039514306
0.746997764 0.301206855 0.54593522 0.813853703
rs11705737:48951259:C:T ENSG00000178252
rs7628719:48995487:C:T:ENSG00000178252 0.27577637 0.039514306
0.774918193 0.290136921 0.603710229 0.813853703
rs7628719:48995487:C:T ENSG00000178252
rs4974082:48999323:G:A:ENSG00000178252 0.322853095 0.039514306 0.69711943
0.379688866 0.74808171 0.813853703 rs4974082:48999323:G:A
ENSG00000178252
rs4513485:49139966:G:A:ENSG00000178252 0.271758927 0.039514306
0.739251903 0.326422852 0.54593522 0.813853703
rs4513485:49139966:G:A ENSG00000178252
rs6770112:49174006:G:C:ENSG00000178252 0.328661655 0.039514306
0.686442642 0.445043357 0.667917828 0.813853703
rs6770112:49174006:G:C ENSG00000178252
rs4955410:49181218:A:G:ENSG00000178252 0.304041304 0.039514306
0.781136655 0.36680942 0.650850274 0.813853703
rs4955410:49181218:A:G ENSG00000178252
rs12487580:49182932:G:A:ENSG00000178252 0.328661655 0.039514306
0.686442642 0.445043357 0.667917828 0.813853703
rs12487580:49182932:G:A ENSG00000178252
rs36133651:49183955:C:A:ENSG00000178252 0.304041304 0.039514306
0.781136655 0.36680942 0.650850274 0.813853703
rs36133651:49183955:C:A ENSG00000178252
rs7632267:49184664:G:A:ENSG00000178252 0.304041304 0.039514306
0.781136655 0.36680942 0.655885306 0.813853703
rs7632267:49184664:G:A ENSG00000178252
rs4308307:49193216:C:T:ENSG00000178252 0.271758927 0.039514306
0.739251903 0.326422852 0.54593522 0.813853703
rs4308307:49193216:C:T ENSG00000178252
rs1134043:49200137:G:T:ENSG00000178252 0.314613603 0.039514306
0.753805316 0.445043357 0.690981753 0.813853703
rs1134043:49200137:G:T ENSG00000178252
rs4955419:49200692:T:A:ENSG00000178252 0.306174368 0.039514306
0.777393854 0.36680942 0.650850274 0.813853703
rs4955419:49200692:T:A ENSG00000178252
rs4955420:49208865:T:C:ENSG00000178252 0.28152348 0.039514306
0.725010873 0.441817908 0.690981753 0.813853703
rs4955420:49208865:T:C ENSG00000178252

rs10865954:49211989:T:C:ENSG00000178252 0.28152348 0.039514306
0.714717525 0.441817908 0.694942942 0.813853703
rs10865954:49211989:T:C ENSG00000178252
rs35545483:50806506:ATT:A:ENSG00000114738 0.035322296 0.039514306
0.601406435 0.340834261 0.574209974 0.063994875
rs35545483:50806506:ATT:A ENSG00000114738
rs1542574:51395571:C:T:ENSG00000114738 0.23344096 0.039514306
0.845255291 0.52264501 0.846769489 0.813853703
rs1542574:51395571:C:T ENSG00000114738
rs2241784:51418348:G:A:ENSG00000114738 0.27577637 0.039514306
0.828327833 0.558498626 0.904520929 0.842355515
rs2241784:51418348:G:A ENSG00000114738
rs6772668:51460426:G:A:ENSG00000114738 0.289740841 0.039514306
0.828327833 0.558498626 0.90539517 0.838148385
rs6772668:51460426:G:A ENSG00000114738
rs4687800:ENSG00000114738 0.290380371 0.039514306 0.828327833
0.558498626 0.905940899 0.836643886 rs4687800 ENSG00000114738
rs6445727:51484469:G:A:ENSG00000114738 0.290380371 0.039514306
0.828327833 0.558498626 0.905940899 0.836643886
rs6445727:51484469:G:A ENSG00000114738
rs7623803:51529264:C:T:ENSG00000114738 0.278501935 0.039514306
0.828327833 0.558498626 0.906417014 0.840209939
rs7623803:51529264:C:T ENSG00000114738
rs9866430:51591265:G:A:ENSG00000114738 0.291376195 0.039514306
0.828327833 0.558498626 0.907164322 0.83617109
rs9866430:51591265:G:A ENSG00000114738
rs11719995:ENSG00000114738 0.290380371 0.039514306 0.828327833
0.558498626 0.905940899 0.836643886 rs11719995 ENSG00000114738
rs11709482:51594366:T:C:ENSG00000114738 0.290380371 0.039514306
0.828327833 0.558498626 0.905940899 0.836643886
rs11709482:51594366:T:C ENSG00000114738
rs7628461:52272028:A:C:ENSG00000164088 0.035322296 0.089622533
0.809704997 0.472415297 0.112902598 0.51457021
rs7628461:52272028:A:C ENSG00000164088
rs4082828:52274742:A:C:ENSG00000164088 0.035322296 0.039514306
0.681949548 0.165229468 0.069942274 0.174366738
rs4082828:52274742:A:C ENSG00000164088
rs11719760:52276883:A:G:ENSG00000164088 0.035322296 0.039514306
0.466752146 0.072575018 0.069942274 0.063994875
rs11719760:52276883:A:G ENSG00000164088
rs11711914:52276901:C:T:ENSG00000164088 0.035322296 0.039514306
0.165546404 0.072575018 0.069942274 0.063994875
rs11711914:52276901:C:T ENSG00000164088
rs7638204:52278241:C:T:ENSG00000164088 0.035322296 0.110495165
0.778199855 0.395341642 0.069942274 0.464247637
rs7638204:52278241:C:T ENSG00000164088
rs114645176:52279951:T:G:ENSG00000164088 0.035322296 0.039514306
0.495886418 0.072575018 0.069942274 0.063994875
rs114645176:52279951:T:G ENSG00000164088
rs11715391:ENSG00000164088 0.035322296 0.039514306 0.666514548
0.123210094 0.069942274 0.225997306 rs11715391 ENSG00000164088
rs11706541:52286349:G:C:ENSG00000164088 0.035322296 0.039514306
0.492105461 0.072575018 0.069942274 0.140342165
rs11706541:52286349:G:C ENSG00000164088

rs73088773:52286585:G:A:ENSG00000164088 0.035322296 0.039514306 0.48190184
0.123210094 0.069942274 0.140342165 rs73088773:52286585:G:A
ENSG00000164088

3:52286894:CTTTTTTT:C:ENSG00000164088 0.035322296 0.039514306 0.50017961
0.165229468 0.069942274 0.140342165 3:52286894:CTTTTTTT:C
ENSG00000164088

rs1767:52290474:C:G:ENSG00000164088 0.035322296 0.039514306
0.594989053 0.263905944 0.069942274 0.347302535 rs1767:52290474:C:G
ENSG00000164088

rs1769:ENSG00000164088 0.035322296 0.039514306 0.42239248 0.072575018
0.069942274 0.063994875 rs1769 ENSG00000164088

rs55847657:52293312:C:G:ENSG00000164088 0.035322296 0.039514306
0.592067279 0.263905944 0.069942274 0.333543658
rs55847657:52293312:C:G ENSG00000164088

JHU_3.52293858:ENSG00000164088 0.035322296 0.039514306 0.492105461
0.165229468 0.069942274 0.140342165 JHU_3.52293858 ENSG00000164088

rs113895715:52294175:A:G:ENSG00000164088 0.035322296 0.039514306
0.572955873 0.226823504 0.069942274 0.269135872
rs113895715:52294175:A:G ENSG00000164088

rs140616356:52296022:T:G:T:ENSG00000164088 0.035322296 0.039514306
0.581240934 0.123210094 0.069942274 0.333543658
rs140616356:52296022:T:G:T ENSG00000164088

rs58531656:52298116:T:C:ENSG00000164088 0.035322296 0.039514306
0.436932543 0.072575018 0.069942274 0.108665807
rs58531656:52298116:T:C ENSG00000164088

rs60382084:52298161:C:A:ENSG00000164088 0.035322296 0.039514306
0.581240934 0.123210094 0.069942274 0.319318857
rs60382084:52298161:C:A ENSG00000164088

rs6793317:52298986:T:C:ENSG00000164088 0.035322296 0.039514306
0.580001614 0.197042097 0.069942274 0.24867752
rs6793317:52298986:T:C ENSG00000164088

rs7643913:52303213:G:A:ENSG00000164088 0.035322296 0.039514306 0.20393713
0.072575018 0.069942274 0.063994875 rs7643913:52303213:G:A
ENSG00000164088

rs11714358:52303600:G:C:ENSG00000164088 0.035322296 0.039514306 0.20393713
0.072575018 0.069942274 0.063994875 rs11714358:52303600:G:C
ENSG00000164088

rs73088783:52305286:C:T:ENSG00000164088 0.035322296 0.039514306 0.515964
0.072575018 0.069942274 0.063994875 rs73088783:52305286:C:T
ENSG00000164088

rs61644644:52307496:T:C:ENSG00000164088 0.035322296 0.039514306
0.400191924 0.072575018 0.069942274 0.063994875
rs61644644:52307496:T:C ENSG00000164088

rs6809248:52309338:A:G:ENSG00000164088 0.035322296 0.039514306
0.618696386 0.350892299 0.069942274 0.419171564
rs6809248:52309338:A:G ENSG00000164088

rs77020200:52312976:C:T:ENSG00000164088 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs77020200:52312976:C:T ENSG00000164088

rs73088785:52313214:T:G:ENSG00000164088 0.035322296 0.039514306 0.515964
0.290136921 0.069942274 0.308405655 rs73088785:52313214:T:G
ENSG00000164088

rs11718729:52313454:C:A:ENSG00000164088 0.035322296 0.039514306
0.390230616 0.072575018 0.069942274 0.063994875
rs11718729:52313454:C:A ENSG00000164088
rs140771279:52318056:G:A:ENSG00000164088 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs140771279:52318056:G:A ENSG00000164088
rs73088791:52318281:C:A:ENSG00000164088 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs73088791:52318281:C:A ENSG00000164088
rs149148515:52321688:GA:G:ENSG00000164088 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs149148515:52321688:GA:G ENSG00000164088
rs6783652:52323344:G:A:ENSG00000164088 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6783652:52323344:G:A ENSG00000164088
rs35976326:52325039:G:A:ENSG00000164088 0.035322296 0.039514306
0.612361159 0.072575018 0.069942274 0.063994875
rs35976326:52325039:G:A ENSG00000164088
rs55676974:52328024:G:A:ENSG00000164088 0.035322296 0.039514306
0.618696386 0.072575018 0.069942274 0.063994875
rs55676974:52328024:G:A ENSG00000164088
rs3733063:52328533:G:A:ENSG00000164088 0.035322296 0.039514306
0.370396184 0.072575018 0.069942274 0.063994875
rs3733063:52328533:G:A ENSG00000164088
rs17052051:52331266:C:G:ENSG00000164088 0.035322296 0.039514306
0.466752146 0.072575018 0.069942274 0.063994875
rs17052051:52331266:C:G ENSG00000164088
rs17052052:52331793:A:G:ENSG00000164088 0.035322296 0.039514306
0.628654228 0.072575018 0.069942274 0.063994875
rs17052052:52331793:A:G ENSG00000164088
rs73088800:52332292:A:G:ENSG00000164088 0.035322296 0.039514306
0.628654228 0.290136921 0.069942274 0.431187426
rs73088800:52332292:A:G ENSG00000164088
rs17052053:52334593:T:C:ENSG00000164088 0.035322296 0.12731097
0.726206733 0.438119062 0.069942274 0.540231732
rs17052053:52334593:T:C ENSG00000164088
rs17052054:52337754:C:T:ENSG00000164088 0.035322296 0.039514306
0.828327833 0.333474506 0.069942274 0.464247637
rs17052054:52337754:C:T ENSG00000164088
rs56352611:52338590:T:C:ENSG00000164088 0.035322296 0.039514306
0.626808341 0.276782326 0.069942274 0.431187426
rs56352611:52338590:T:C ENSG00000164088
rs10460962:52343679:C:T:ENSG00000164088 0.035322296 0.039514306
0.828327833 0.387628207 0.069942274 0.494607223
rs10460962:52343679:C:T ENSG00000164088
rs10461028:52343742:A:G:ENSG00000164088 0.035322296 0.039514306
0.464882715 0.072575018 0.069942274 0.201281701
rs10461028:52343742:A:G ENSG00000164088
rs17052058:52344680:A:G:ENSG00000164088 0.035322296 0.039514306
0.568513848 0.340834261 0.069942274 0.460921055
rs17052058:52344680:A:G ENSG00000164088
rs6445385:52345459:A:G:ENSG00000164088 0.035322296 0.039514306
0.828327833 0.387628207 0.069942274 0.494607223
rs6445385:52345459:A:G ENSG00000164088

rs17052061:52346240:T:G:ENSG00000164088 0.035322296 0.039514306
0.557353332 0.276782326 0.069942274 0.374953256
rs17052061:52346240:T:G ENSG00000164088
rs111593386:52346730:G:T:ENSG00000164088 0.035322296 0.039514306
0.775958292 0.414104514 0.069942274 0.511827661
rs111593386:52346730:G:T ENSG00000164088
rs6445386:ENSG00000164088 0.035322296 0.039514306 0.568513848
0.340834261 0.069942274 0.460921055 rs6445386 ENSG00000164088
rs55997317:52350745:G:A:ENSG00000164088 0.035322296 0.039514306 0.57027753
0.333474506 0.069942274 0.457928806 rs55997317:52350745:G:A
ENSG00000164088
rs7615405:52351553:T:G:ENSG00000164088 0.035322296 0.039514306
0.828327833 0.387628207 0.069942274 0.494607223
rs7615405:52351553:T:G ENSG00000164088
rs17052068:52352864:C:T:ENSG00000164088 0.035322296 0.039514306
0.777393854 0.414104514 0.069942274 0.511827661
rs17052068:52352864:C:T ENSG00000164088
rs57441156:52354242:C:G:ENSG00000164088 0.035322296 0.039514306
0.552896362 0.276782326 0.069942274 0.374953256
rs57441156:52354242:C:G ENSG00000164088
rs61150019:52354376:G:A:ENSG00000164088 0.035322296 0.039514306 0.57027753
0.326422852 0.069942274 0.457928806 rs61150019:52354376:G:A
ENSG00000164088
rs55965068:52354432:A:G:ENSG00000164088 0.035322296 0.039514306 0.57027753
0.333474506 0.069942274 0.457928806 rs55965068:52354432:A:G
ENSG00000164088
rs6763882:52354772:C:T:ENSG00000164088 0.035322296 0.039514306
0.782196391 0.424824518 0.069942274 0.522761587
rs6763882:52354772:C:T ENSG00000164088
rs11707931:52358417:C:G:ENSG00000164088 0.035322296 0.039514306
0.763265946 0.385352708 0.069942274 0.469127215
rs11707931:52358417:C:G ENSG00000164088
rs35133416:52359040:C:T:ENSG00000164088 0.035322296 0.039514306
0.775958292 0.414104514 0.069942274 0.511827661
rs35133416:52359040:C:T ENSG00000164088
rs6796333:52359678:T:C:ENSG00000164088 0.035322296 0.039514306 0.57027753
0.333474506 0.069942274 0.457928806 rs6796333:52359678:T:C
ENSG00000164088
rs11710014:52359972:C:T:ENSG00000164088 0.035322296 0.039514306
0.828327833 0.390584104 0.069942274 0.494607223
rs11710014:52359972:C:T ENSG00000164088
rs34762015:52366044:G:A:ENSG00000164088 0.035322296 0.039514306
0.568513848 0.340834261 0.069942274 0.460921055
rs34762015:52366044:G:A ENSG00000164088
rs2335640:52368387:T:C:ENSG00000164088 0.035322296 0.039514306
0.761772115 0.387628207 0.069942274 0.469127215
rs2335640:52368387:T:C ENSG00000164088
rs34238085:52368947:A:C:ENSG00000164088 0.035322296 0.066642396
0.760415187 0.358702521 0.069942274 0.471730191
rs34238085:52368947:A:C ENSG00000164088
rs13059674:52371789:T:G:ENSG00000164088 0.035322296 0.039514306
0.568513848 0.340834261 0.069942274 0.460921055
rs13059674:52371789:T:G ENSG00000164088

rs11706001:52372128:T:A:ENSG00000164088 0.035322296 0.039514306
0.560108139 0.244282474 0.069942274 0.423659401
rs11706001:52372128:T:A ENSG00000164088
rs56357549:52374516:T:G:ENSG00000164088 0.035322296 0.039514306
0.774918193 0.414104514 0.069942274 0.51457021
rs56357549:52374516:T:G ENSG00000164088
rs34523877:52375711:T:C:ENSG00000164088 0.035322296 0.039514306
0.560108139 0.244282474 0.069942274 0.419171564
rs34523877:52375711:T:C ENSG00000164088
rs11718125:52379420:T:C:ENSG00000164088 0.035322296 0.039514306 0.20393713
0.072575018 0.069942274 0.063994875 rs11718125:52379420:T:C
ENSG00000164088
rs11716017:52380991:C:T:ENSG00000164088 0.035322296 0.039514306
0.238368074 0.072575018 0.069942274 0.140342165
rs11716017:52380991:C:T ENSG00000164088
rs34355561:52383120:G:A:ENSG00000164088 0.035322296 0.039514306
0.562861286 0.072575018 0.069942274 0.319318857
rs34355561:52383120:G:A ENSG00000164088
rs34908451:52385115:C:T:ENSG00000164088 0.035322296 0.039514306
0.238368074 0.072575018 0.069942274 0.140342165
rs34908451:52385115:C:T ENSG00000164088
rs11714402:52391735:A:C:ENSG00000164088 0.035322296 0.039514306
0.238368074 0.072575018 0.069942274 0.140342165
rs11714402:52391735:A:C ENSG00000164088
rs11707864:52392877:G:A:ENSG00000164088 0.035322296 0.039514306
0.238368074 0.072575018 0.069942274 0.24867752
rs11707864:52392877:G:A ENSG00000164088
rs56899118:52397419:G:A:ENSG00000164088 0.035322296 0.039514306
0.640107889 0.072575018 0.069942274 0.319318857
rs56899118:52397419:G:A ENSG00000164088
rs73091168:52397701:G:A:ENSG00000164088 0.035322296 0.039514306
0.618696386 0.072575018 0.069942274 0.201281701
rs73091168:52397701:G:A ENSG00000164088
rs13075370:52399278:G:A:ENSG00000164088 0.035322296 0.039514306
0.511835264 0.072575018 0.069942274 0.174366738
rs13075370:52399278:G:A ENSG00000164088
rs11709658:52399627:G:A:ENSG00000164088 0.035322296 0.039514306
0.562861286 0.072575018 0.069942274 0.319318857
rs11709658:52399627:G:A ENSG00000164088
rs3752819:52400740:G:C:ENSG00000164088 0.035322296 0.039514306
0.238368074 0.072575018 0.069942274 0.140342165
rs3752819:52400740:G:C ENSG00000164088
rs13076890:52407933:T:C:ENSG00000164088 0.035322296 0.039514306
0.562861286 0.072575018 0.069942274 0.319318857
rs13076890:52407933:T:C ENSG00000164088
rs67834575:52411929:T:A:ENSG00000164088 0.035322296 0.039514306
0.222302049 0.072575018 0.069942274 0.140342165
rs67834575:52411929:T:A ENSG00000164088
rs67248391:52412006:A:T:ENSG00000164088 0.035322296 0.039514306
0.222302049 0.072575018 0.069942274 0.140342165
rs67248391:52412006:A:T ENSG00000164088
rs11721277:52420901:G:A:ENSG00000164088 0.035322296 0.039514306
0.614457891 0.072575018 0.069942274 0.225997306
rs11721277:52420901:G:A ENSG00000164088

rs390802:52431671:G:A:ENSG00000164088 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.269135872 rs390802:52431671:G:A
ENSG00000164088

rs11711974:ENSG00000164088 0.035322296 0.039514306 0.580001614
0.072575018 0.069942274 0.108665807 rs11711974 ENSG00000164088

rs56322342:52432610:G:A:ENSG00000164088 0.035322296 0.110495165 0.72386196
0.263905944 0.069942274 0.510329036 rs56322342:52432610:G:A
ENSG00000164088

rs123602:52442354:G:C:ENSG00000164088 0.035322296 0.316996396
0.753805316 0.53594117 0.429827068 0.712706914 rs123602:52442354:G:C
ENSG00000164088

rs82825:52471942:G:A:ENSG00000164088 0.035322296 0.359391426
0.565079872 0.263905944 0.251839208 0.556049114 rs82825:52471942:G:A
ENSG00000164088

rs2016575:52477080:T:C:ENSG00000164088 0.035322296 0.375516094
0.568513848 0.263905944 0.288162171 0.52739468
rs2016575:52477080:T:C ENSG00000164088

rs3821868:53891323:C:T:ENSG00000113812 0.515908395 0.039514306
0.828327833 0.450346002 0.811065379 0.790913456
rs3821868:53891323:C:T ENSG00000113812

rs3821869:53893840:C:A:ENSG00000113812 0.53589358 0.039514306
0.718826765 0.450346002 0.498016841 0.60018511
rs3821869:53893840:C:A ENSG00000113812

rs4687753:53895461:A:C:ENSG00000113812 0.515908395 0.039514306
0.828327833 0.379688866 0.821841001 0.770988393
rs4687753:53895461:A:C ENSG00000113812

rs9860367:53897929:A:C:ENSG00000113812 0.551395771 0.039514306 0.75319544
0.498363812 0.608245709 0.705938854 rs9860367:53897929:A:C
ENSG00000113812

JHU_3.53910117:ENSG00000113812 0.529327391 0.039514306 0.660396949
0.662029528 0.839071584 0.813853703 JHU_3.53910117 ENSG00000113812

rs4681679:ENSG00000168291 0.390769583 0.039514306 0.793209929
0.751091602 0.690981753 0.813853703 rs4681679 ENSG00000168291

rs4681845:58332496:C:T:ENSG00000168291 0.419607171 0.039514306
0.826370376 0.760565179 0.767723787 0.795155854
rs4681845:58332496:C:T ENSG00000168291

rs9881869:58333255:G:A:ENSG00000168291 0.390769583 0.039514306
0.794505705 0.751091602 0.690981753 0.813853703
rs9881869:58333255:G:A ENSG00000168291

rs4681847:58335308:G:C:ENSG00000168291 0.390769583 0.039514306
0.797260875 0.747187568 0.694942942 0.813853703
rs4681847:58335308:G:C ENSG00000168291

rs6775710:58336201:T:C:ENSG00000168291 0.390769583 0.039514306
0.797260875 0.747187568 0.694942942 0.813853703
rs6775710:58336201:T:C ENSG00000168291

rs6445973:58336595:C:A:ENSG00000168291 0.390769583 0.039514306
0.797260875 0.747187568 0.694942942 0.813853703
rs6445973:58336595:C:A ENSG00000168291

rs4681682:58337833:A:G:ENSG00000168291 0.390769583 0.039514306
0.797260875 0.747187568 0.694942942 0.813853703
rs4681682:58337833:A:G ENSG00000168291

rs55964615:58389120:A:T:ENSG00000168291 0.378927762 0.039514306
0.792227512 0.751091602 0.690981753 0.813853703
rs55964615:58389120:A:T ENSG00000168291

rs56198078:58392224:G:C:ENSG00000168291 0.381061816 0.039514306
0.777393854 0.744127379 0.690981753 0.813853703
rs56198078:58392224:G:C ENSG00000168291
rs78369581:189146:A:C:ENSG00000250312 0.035322296 0.651399716
0.184980376 0.650583802 0.395007577 0.749650459 rs78369581:189146:A:C
ENSG00000250312
rs35681707:2962452:C:T:ENSG00000125388 0.035322296 0.469499546
0.827435543 0.774949478 0.848727643 0.827435076
rs35681707:2962452:C:T ENSG00000125388
rs200345387:2962603:CATT:C:ENSG00000125388 0.035322296 0.663028436
0.841625184 0.744964321 0.825258108 0.813853703
rs200345387:2962603:CATT:C ENSG00000125388
rs16843684:2965676:C:T:ENSG00000125388 0.155490932 0.039514306 0.20393713
0.301206855 0.7140776 0.517746279 rs16843684:2965676:C:T
ENSG00000125388
rs28666534:2971064:G:A:ENSG00000125388 0.219347314 0.039514306
0.390230616 0.387628207 0.714300296 0.547086582
rs28666534:2971064:G:A ENSG00000125388
rs2471322:2974086:T:C:ENSG00000125388 0.271758927 0.039514306
0.618696386 0.072575018 0.484480155 0.511827661 rs2471322:2974086:T:C
ENSG00000125388
rs2960303:2975804:C:T:ENSG00000125388 0.271758927 0.039514306
0.618696386 0.072575018 0.484480155 0.511827661 rs2960303:2975804:C:T
ENSG00000125388
rs3021142:2977016:C:G:ENSG00000125388 0.18193752 0.039514306
0.436932543 0.424824518 0.731870438 0.469127215 rs3021142:2977016:C:G
ENSG00000125388
rs3021141:2978523:C:A:ENSG00000125388 0.322853095 0.039514306
0.269469279 0.358702521 0.608245709 0.60018511 rs3021141:2978523:C:A
ENSG00000125388
rs3021139:2978552:T:G:ENSG00000125388 0.146129194 0.039514306
0.184980376 0.276782326 0.690981753 0.491393172 rs3021139:2978552:T:G
ENSG00000125388
rs3021138:2978620:T:C:ENSG00000125388 0.271758927 0.039514306
0.618696386 0.072575018 0.484480155 0.511827661 rs3021138:2978620:T:C
ENSG00000125388
rs3021140:2979030:C:T:ENSG00000125388 0.155490932 0.039514306
0.238368074 0.301206855 0.714300296 0.511827661 rs3021140:2979030:C:T
ENSG00000125388
rs2022485:ENSG00000125388 0.271758927 0.039514306 0.618696386
0.072575018 0.484480155 0.511827661 rs2022485 ENSG00000125388
rs2040061:2980455:T:C:ENSG00000125388 0.155490932 0.039514306
0.238368074 0.301206855 0.714300296 0.511827661 rs2040061:2980455:T:C
ENSG00000125388
rs2185887:2981297:G:A:ENSG00000125388 0.155490932 0.039514306
0.238368074 0.301206855 0.714300296 0.511827661 rs2185887:2981297:G:A
ENSG00000125388
rs2185888:2981553:A:C:ENSG00000125388 0.289740841 0.039514306
0.626808341 0.263905944 0.54593522 0.550290331 rs2185888:2981553:A:C
ENSG00000125388
rs2471346:2983890:G:A:ENSG00000125388 0.155490932 0.039514306
0.238368074 0.301206855 0.714300296 0.511827661 rs2471346:2983890:G:A
ENSG00000125388

rs7667520:2984761:G:A:ENSG00000125388 0.28152348 0.039514306 0.6569085
0.072575018 0.525520858 0.522761587 rs7667520:2984761:G:A
ENSG00000125388

rs1419046:2986049:T:A:ENSG00000125388 0.271758927 0.039514306
0.618696386 0.072575018 0.484480155 0.511827661 rs1419046:2986049:T:A
ENSG00000125388

rs2960310:2986671:C:G:ENSG00000125388 0.271758927 0.039514306
0.618696386 0.072575018 0.484480155 0.511827661 rs2960310:2986671:C:G
ENSG00000125388

rs28414352:2987707:G:A:ENSG00000125388 0.146968287 0.039514306
0.222302049 0.301206855 0.714300296 0.511827661
rs28414352:2987707:G:A ENSG00000125388

rs143296789:2988007:CT:C:ENSG00000125388 0.271758927 0.039514306
0.618696386 0.072575018 0.493250562 0.517746279
rs143296789:2988007:CT:C ENSG00000125388

rs2471324:2988752:G:T:ENSG00000125388 0.146968287 0.039514306
0.222302049 0.290136921 0.712624906 0.511827661 rs2471324:2988752:G:T
ENSG00000125388

rs2051557:2990291:A:C:ENSG00000125388 0.146968287 0.039514306 0.20393713
0.290136921 0.71243013 0.511827661 rs2051557:2990291:A:C
ENSG00000125388

rs140315626:2990303:A:AAACAAAC:ENSG00000125388 0.146968287
0.039514306 0.255451763 0.301206855 0.7140776 0.51457021
rs140315626:2990303:A:AAACAAAC ENSG00000125388

rs2051556:2990338:G:T:ENSG00000125388 0.501944426 0.039514306
0.466752146 0.491850645 0.844400328 0.681432383 rs2051556:2990338:G:T
ENSG00000125388

rs2051555:ENSG00000125388 0.515908395 0.039514306 0.351078567
0.486971863 0.90539517 0.650718924 rs2051555 ENSG00000125388

exm383568:ENSG00000125388 0.515908395 0.039514306 0.351078567
0.486971863 0.904520929 0.645310165 exm383568 ENSG00000125388

rs2960307:2990824:A:G:ENSG00000125388 0.146968287 0.039514306
0.184980376 0.290136921 0.704734536 0.503271951 rs2960307:2990824:A:G
ENSG00000125388

rs2471340:2992341:G:T:ENSG00000125388 0.146968287 0.039514306
0.184980376 0.290136921 0.704734536 0.503271951 rs2471340:2992341:G:T
ENSG00000125388

rs2471339:2993035:T:A:ENSG00000125388 0.146968287 0.039514306
0.184980376 0.276782326 0.701945326 0.501122218 rs2471339:2993035:T:A
ENSG00000125388

rs2515942:2993423:C:G:ENSG00000125388 0.600934349 0.039514306
0.605977561 0.36680942 0.769250833 0.692744521 rs2515942:2993423:C:G
ENSG00000125388

rs2488816:2993706:A:G:ENSG00000125388 0.599992359 0.039514306
0.608285859 0.358702521 0.767723787 0.692744521 rs2488816:2993706:A:G
ENSG00000125388

rs55983725:2993724:CA:C:ENSG00000125388 0.146968287 0.039514306
0.121437838 0.276782326 0.693223878 0.501122218
rs55983725:2993724:CA:C ENSG00000125388

rs142185106:2993770:CT:C:ENSG00000125388 0.271758927 0.039514306
0.560108139 0.072575018 0.544223189 0.540231732
rs142185106:2993770:CT:C ENSG00000125388

rs2488817:2993791:G:C:ENSG00000125388 0.271758927 0.039514306
0.557353332 0.072575018 0.526407644 0.532059322 rs2488817:2993791:G:C
ENSG00000125388

rs2068134:26965942:A:G:ENSG00000240005 0.442515926 0.039514306
0.429802874 0.558498626 0.420268827 0.677536379
rs2068134:26965942:A:G ENSG00000240005

rs16878656:26966572:C:T:ENSG00000240005 0.441365231 0.039514306
0.429802874 0.558498626 0.420268827 0.677536379
rs16878656:26966572:C:T ENSG00000240005

rs140560183:26973583:T:G:ENSG00000240005 0.440655985 0.039514306
0.42786084 0.558498626 0.403448628 0.674365303
rs140560183:26973583:T:G ENSG00000240005

rs11940153:26987761:A:G:ENSG00000240005 0.437249414 0.039514306
0.411358711 0.558498626 0.355219989 0.66629958
rs11940153:26987761:A:G ENSG00000240005

rs11932732:26989454:G:A:ENSG00000240005 0.437249414 0.039514306
0.411358711 0.558498626 0.355219989 0.664807456
rs11932732:26989454:G:A ENSG00000240005

rs16878673:26996257:G:C:ENSG00000240005 0.437249414 0.039514306
0.411358711 0.558498626 0.355219989 0.663342074
rs16878673:26996257:G:C ENSG00000240005

rs16878678:26999810:T:C:ENSG00000240005 0.440655985 0.039514306
0.411358711 0.558498626 0.355219989 0.661034047
rs16878678:26999810:T:C ENSG00000240005

rs11943656:27002834:G:A:ENSG00000240005 0.441365231 0.039514306
0.411358711 0.558498626 0.347424829 0.660124342
rs11943656:27002834:G:A ENSG00000240005

rs78474797:27003606:G:A:ENSG00000240005 0.441365231 0.039514306
0.411358711 0.558498626 0.347424829 0.660124342
rs78474797:27003606:G:A ENSG00000240005

rs147979817:27008799:CT:C:ENSG00000240005 0.405404276 0.039514306
0.411358711 0.558498626 0.526407644 0.652863919
rs147979817:27008799:CT:C ENSG00000240005

JHU_4.27008805:ENSG00000240005 0.322853095 0.039514306 0.411358711
0.546358114 0.403448628 0.547086582 JHU_4.27008805 ENSG00000240005

rs7689439:27009759:A:G:ENSG00000240005 0.441365231 0.039514306
0.406502841 0.558498626 0.347424829 0.660124342
rs7689439:27009759:A:G ENSG00000240005

rs16878692:27011792:G:A:ENSG00000240005 0.441365231 0.039514306
0.411358711 0.558498626 0.347424829 0.660124342
rs16878692:27011792:G:A ENSG00000240005

rs116752945:27012733:A:C:ENSG00000240005 0.441365231 0.039514306
0.411358711 0.558498626 0.347424829 0.660124342
rs116752945:27012733:A:C ENSG00000240005

rs74713405:27012971:T:C:ENSG00000240005 0.451006906 0.039514306
0.454299825 0.558498626 0.328523647 0.681432383
rs74713405:27012971:T:C ENSG00000240005

rs111622894:27016105:T:G:ENSG00000240005 0.494724773 0.039514306
0.429802874 0.567983856 0.355219989 0.626470533
rs111622894:27016105:T:G ENSG00000240005

rs7680703:27020719:G:T:ENSG00000240005 0.441365231 0.039514306
0.411358711 0.558498626 0.347424829 0.660124342
rs7680703:27020719:G:T ENSG00000240005

rs16878702:27023544:A:G:ENSG00000240005 0.441365231 0.039514306
0.411358711 0.558498626 0.347424829 0.660124342
rs16878702:27023544:A:G ENSG00000240005
rs77694488:27023802:G:T:ENSG00000240005 0.441365231 0.039514306
0.411358711 0.558498626 0.347424829 0.660124342
rs77694488:27023802:G:T ENSG00000240005
rs16878708:27031175:T:C:ENSG00000240005 0.441365231 0.039514306
0.411358711 0.558498626 0.347424829 0.661034047
rs16878708:27031175:T:C ENSG00000240005
rs115928466:27038794:T:C:ENSG00000240005 0.441365231 0.039514306
0.411358711 0.558498626 0.347424829 0.664807456
rs115928466:27038794:T:C ENSG00000240005
rs192073115:27041566:G:A:ENSG00000240005 0.437966338 0.039514306
0.42786084 0.558498626 0.340307796 0.666738004
rs192073115:27041566:G:A ENSG00000240005
rs80236080:27042768:C:T:ENSG00000240005 0.441365231 0.039514306
0.419451892 0.558498626 0.347424829 0.66629958
rs80236080:27042768:C:T ENSG00000240005
rs6824001:38872213:C:T:ENSG00000197712 0.081933656 0.039514306
0.613735952 0.617124137 0.237095457 0.538926046
rs6824001:38872213:C:T ENSG00000197712
rs6828160:38872592:G:A:ENSG00000197712 0.146129194 0.039514306
0.557353332 0.558498626 0.069942274 0.374953256
rs6828160:38872592:G:A ENSG00000197712
rs7663084:38874637:A:G:ENSG00000197712 0.196140407 0.039514306 0.65418952
0.688857419 0.355219989 0.566496688 rs7663084:38874637:A:G
ENSG00000197712
rs7685725:38874645:C:T:ENSG00000197712 0.196140407 0.039514306 0.65418952
0.688857419 0.355219989 0.566496688 rs7685725:38874645:C:T
ENSG00000197712
rs73236653:38875315:T:C:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs73236653:38875315:T:C ENSG00000197712
rs55860365:38875696:T:G:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs55860365:38875696:T:G ENSG00000197712
rs56220868:38875797:A:G:ENSG00000197712 0.175415731 0.039514306
0.664963743 0.507376693 0.311775972 0.629719559
rs56220868:38875797:A:G ENSG00000197712
rs12505100:38875868:A:G:ENSG00000197712 0.175415731 0.039514306
0.664963743 0.507376693 0.311775972 0.629184088
rs12505100:38875868:A:G ENSG00000197712
rs6827942:38876233:A:G:ENSG00000197712 0.200359533 0.039514306
0.670633075 0.517229412 0.363699827 0.636576046
rs6827942:38876233:A:G ENSG00000197712
rs6851820:38876267:C:A:ENSG00000197712 0.271758927 0.039514306
0.618696386 0.611407088 0.363699827 0.467974804
rs6851820:38876267:C:A ENSG00000197712
rs6838350:38876390:T:G:ENSG00000197712 0.200359533 0.039514306
0.670633075 0.517229412 0.363699827 0.636576046
rs6838350:38876390:T:G ENSG00000197712
rs6838351:38876392:T:C:ENSG00000197712 0.271758927 0.039514306
0.618696386 0.611407088 0.363699827 0.467974804
rs6838351:38876392:T:C ENSG00000197712

rs6839212:38876823:T:G:ENSG00000197712 0.271758927 0.039514306
0.618696386 0.610119762 0.363699827 0.467974804
rs6839212:38876823:T:G ENSG00000197712
rs6856696:38877085:G:C:ENSG00000197712 0.200359533 0.039514306
0.667476732 0.517229412 0.363699827 0.636576046
rs6856696:38877085:G:C ENSG00000197712
rs6858492:38877256:C:T:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs6858492:38877256:C:T ENSG00000197712
rs6845518:38877457:T:C:ENSG00000197712 0.196140407 0.039514306 0.6569085
0.685348652 0.355219989 0.566496688 rs6845518:38877457:T:C
ENSG00000197712
rs6814341:38877682:G:A:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs6814341:38877682:G:A ENSG00000197712
rs12508035:38877720:T:C:ENSG00000197712 0.146968287 0.039514306
0.655792554 0.491850645 0.251839208 0.605346151
rs12508035:38877720:T:C ENSG00000197712
rs12507190:38877724:A:G:ENSG00000197712 0.146968287 0.039514306
0.655792554 0.491850645 0.251839208 0.605346151
rs12507190:38877724:A:G ENSG00000197712
rs73236656:38877816:G:A:ENSG00000197712 0.146968287 0.039514306
0.655792554 0.491850645 0.251839208 0.603453089
rs73236656:38877816:G:A ENSG00000197712
rs12508175:38878071:T:C:ENSG00000197712 0.146968287 0.039514306 0.65652076
0.491850645 0.251839208 0.605346151 rs12508175:38878071:T:C
ENSG00000197712
rs12510824:38878072:G:A:ENSG00000197712 0.175415731 0.039514306
0.670633075 0.498363812 0.328523647 0.631825967
rs12510824:38878072:G:A ENSG00000197712
4:38878079:A:ACC:ENSG00000197712 0.175415731 0.039514306 0.670633075
0.498363812 0.328523647 0.629184088 4:38878079:A:ACC ENSG00000197712
4:38878080:T:A:ENSG00000197712 0.146968287 0.039514306 0.671660261
0.491850645 0.251839208 0.614118716 4:38878080:T:A ENSG00000197712
4:38878082:GCA:G:ENSG00000197712 0.146968287 0.039514306 0.671660261
0.491850645 0.251839208 0.614118716 4:38878082:GCA:G ENSG00000197712
4:38878087:C:A:ENSG00000197712 0.146968287 0.039514306 0.667476732
0.491850645 0.266901314 0.611611212 4:38878087:C:A ENSG00000197712
4:38878088:T:G:ENSG00000197712 0.146968287 0.039514306 0.667476732
0.491850645 0.266901314 0.611611212 4:38878088:T:G ENSG00000197712
JHU_4.38878093:ENSG00000197712 0.146968287 0.039514306 0.671660261
0.491850645 0.251839208 0.614118716 JHU_4.38878093 ENSG00000197712
rs59944943:38878387:A:G:ENSG00000197712 0.18193752 0.039514306
0.709425259 0.548833684 0.328523647 0.682445152
rs59944943:38878387:A:G ENSG00000197712
rs56229790:38878480:T:C:ENSG00000197712 0.146968287 0.039514306
0.672834733 0.491850645 0.266901314 0.615926697
rs56229790:38878480:T:C ENSG00000197712
rs6821490:38878884:G:A:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs6821490:38878884:G:A ENSG00000197712
rs6848179:38878983:A:C:ENSG00000197712 0.23524183 0.039514306
0.605977561 0.608765679 0.266901314 0.390568128
rs6848179:38878983:A:C ENSG00000197712

rs113044414:38879286:TA:T:ENSG00000197712 0.23524183 0.039514306
0.605977561 0.608765679 0.266901314 0.390568128
rs113044414:38879286:TA:T ENSG00000197712
rs6822313:38879312:G:A:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs6822313:38879312:G:A ENSG00000197712
rs112339360:38879448:C:G:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs112339360:38879448:C:G ENSG00000197712
rs138127331:38879500:G:A:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs138127331:38879500:G:A ENSG00000197712
rs142895065:38879540:A:G:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs142895065:38879540:A:G ENSG00000197712
rs113901907:38879581:G:A:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs113901907:38879581:G:A ENSG00000197712
rs73236661:38879655:C:T:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs73236661:38879655:C:T ENSG00000197712
rs11096964:ENSG00000197712 0.162871942 0.039514306 0.655792554
0.491850645 0.300892226 0.611611212 rs11096964 ENSG00000197712
exm394963:ENSG00000197712 0.162871942 0.039514306 0.65652076
0.491850645 0.300892226 0.613318589 exm394963 ENSG00000197712
rs11943209:38880136:A:T:ENSG00000197712 0.162871942 0.039514306
0.655792554 0.491850645 0.300892226 0.611611212
rs11943209:38880136:A:T ENSG00000197712
rs11938589:38880167:C:T:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.614118716
rs11938589:38880167:C:T ENSG00000197712
rs111676993:38880181:A:ATGTGT:ENSG00000197712 0.18193752 0.039514306
0.664963743 0.491850645 0.311775972 0.631825967
rs111676993:38880181:A:ATGTGT ENSG00000197712
rs11944231:38880384:A:G:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.615926697
rs11944231:38880384:A:G ENSG00000197712
rs73236662:38880793:T:G:ENSG00000197712 0.146968287 0.039514306
0.671660261 0.491850645 0.251839208 0.615926697
rs73236662:38880793:T:G ENSG00000197712
rs55808427:38881188:G:A:ENSG00000197712 0.081933656 0.039514306
0.628778955 0.463396258 0.148497947 0.556049114
rs55808427:38881188:G:A ENSG00000197712
rs56069076:38881244:C:T:ENSG00000197712 0.169284753 0.039514306
0.674762224 0.509242766 0.279727316 0.621465342
rs56069076:38881244:C:T ENSG00000197712
rs113121070:38881265:A:AGCCC:ENSG00000197712 0.169284753 0.039514306
0.674762224 0.509242766 0.279727316 0.621465342
rs113121070:38881265:A:AGCCC ENSG00000197712
rs11939674:38881363:T:G:ENSG00000197712 0.169284753 0.039514306
0.674762224 0.503364172 0.288162171 0.623586162
rs11939674:38881363:T:G ENSG00000197712

rs11942839:38881422:G:A:ENSG00000197712 0.169284753 0.039514306
0.674762224 0.503364172 0.288162171 0.623586162
rs11942839:38881422:G:A ENSG00000197712
rs2890686:38881505:T:C:ENSG00000197712 0.169284753 0.039514306
0.674762224 0.503364172 0.288162171 0.623586162
rs2890686:38881505:T:C ENSG00000197712
rs60653462:38881695:TAAATA:T:ENSG00000197712 0.23344096 0.039514306
0.605977561 0.608765679 0.266901314 0.390568128
rs60653462:38881695:TAAATA:T ENSG00000197712
rs202022720:38881716:A:G:ENSG00000197712 0.23344096 0.039514306
0.605977561 0.608765679 0.266901314 0.390568128
rs202022720:38881716:A:G ENSG00000197712
rs200073327:38881718:A:G:ENSG00000197712 0.239371492 0.039514306
0.611290285 0.613788364 0.266901314 0.401203391
rs200073327:38881718:A:G ENSG00000197712
rs3955033:38881721:A:G:ENSG00000197712 0.271758927 0.039514306
0.618696386 0.617124137 0.355219989 0.471730191
rs3955033:38881721:A:G ENSG00000197712
rs11938910:38881940:A:G:ENSG00000197712 0.169284753 0.039514306
0.674868706 0.512101623 0.300892226 0.619162849
rs11938910:38881940:A:G ENSG00000197712
rs2381346:38882029:C:T:ENSG00000197712 0.175415731 0.039514306
0.679533134 0.509242766 0.279727316 0.617532259
rs2381346:38882029:C:T ENSG00000197712
rs752193:38882306:A:G:ENSG00000197712 0.175415731 0.039514306
0.679533134 0.509242766 0.279727316 0.617532259 rs752193:38882306:A:G
ENSG00000197712
rs4370143:38883079:C:T:ENSG00000197712 0.169284753 0.039514306
0.674762224 0.505302083 0.288162171 0.623586162
rs4370143:38883079:C:T ENSG00000197712
rs11944515:38883305:G:C:ENSG00000197712 0.132837758 0.039514306
0.637161235 0.491850645 0.173591669 0.597837774
rs11944515:38883305:G:C ENSG00000197712
rs11942199:38883394:T:C:ENSG00000197712 0.146129194 0.039514306 0.65652076
0.503364172 0.218559406 0.613318589 rs11942199:38883394:T:C
ENSG00000197712
rs56320435:38883789:C:T:ENSG00000197712 0.200359533 0.039514306
0.580001614 0.563128951 0.198669295 0.374953256
rs56320435:38883789:C:T ENSG00000197712
rs376803694:38883890:A:G:ENSG00000197712 0.155490932 0.039514306
0.657729896 0.530641947 0.279727316 0.66629958
rs376803694:38883890:A:G ENSG00000197712
rs60780211:38883899:G:C:ENSG00000197712 0.200359533 0.039514306
0.663257863 0.558498626 0.371793022 0.631825967
rs60780211:38883899:G:C ENSG00000197712
rs2890684:38884419:A:G:ENSG00000197712 0.117465891 0.039514306
0.637161235 0.491850645 0.173591669 0.60018511
rs2890684:38884419:A:G ENSG00000197712
rs2890683:38884514:A:G:ENSG00000197712 0.196140407 0.039514306
0.581240934 0.562100022 0.173591669 0.308405655
rs2890683:38884514:A:G ENSG00000197712
rs58419357:38884626:CT:C:ENSG00000197712 0.117465891 0.039514306
0.638829519 0.491850645 0.173591669 0.597837774
rs58419357:38884626:CT:C ENSG00000197712

rs766491:38885256:G:A:ENSG00000197712 0.117465891 0.039514306
0.640107889 0.491850645 0.173591669 0.593888412 rs766491:38885256:G:A
ENSG00000197712

rs7655069:38886143:A:G:ENSG00000197712 0.100009087 0.039514306
0.637161235 0.491850645 0.173591669 0.586168441
rs7655069:38886143:A:G ENSG00000197712

rs7676710:38886293:G:A:ENSG00000197712 0.100009087 0.039514306
0.636111583 0.491850645 0.173591669 0.586168441
rs7676710:38886293:G:A ENSG00000197712

rs7681448:38886393:G:C:ENSG00000197712 0.146129194 0.039514306
0.641688238 0.491850645 0.218559406 0.603453089
rs7681448:38886393:G:C ENSG00000197712

rs7681449:38886394:G:T:ENSG00000197712 0.146129194 0.039514306
0.649343605 0.491850645 0.218559406 0.58035006
rs7681449:38886394:G:T ENSG00000197712

rs7682017:38886665:G:A:ENSG00000197712 0.100009087 0.039514306
0.641688238 0.491850645 0.173591669 0.566496688
rs7682017:38886665:G:A ENSG00000197712

rs7683481:38886737:C:T:ENSG00000197712 0.100009087 0.039514306
0.640107889 0.491850645 0.173591669 0.566496688
rs7683481:38886737:C:T ENSG00000197712

rs7682238:38886782:G:A:ENSG00000197712 0.100009087 0.039514306
0.634291162 0.491850645 0.173591669 0.563139599
rs7682238:38886782:G:A ENSG00000197712

rs143373571:107226452:GAAT:G:ENSG00000145348 0.035322296 0.624868528
0.828327833 0.558498626 0.89883587 0.813853703
rs143373571:107226452:GAAT:G ENSG00000145348

rs61256759:107234345:C:A:ENSG00000145348 0.035322296 0.639358547
0.828327833 0.558498626 0.905434766 0.813853703
rs61256759:107234345:C:A ENSG00000145348

rs4833849:123889757:C:T:ENSG00000145375 0.215796307 0.039514306
0.575705306 0.399004389 0.173591669 0.174366738
rs4833849:123889757:C:T ENSG00000145375

rs2136425:123894585:C:G:ENSG00000145375 0.200359533 0.039514306
0.568513848 0.395341642 0.112902598 0.174366738
rs2136425:123894585:C:G ENSG00000145375

rs4833850:123896054:C:T:ENSG00000145375 0.190392053 0.039514306
0.568513848 0.387628207 0.112902598 0.140342165
rs4833850:123896054:C:T ENSG00000145375

rs7662778:123903239:T:G:ENSG00000145375 0.200359533 0.039514306
0.568513848 0.395341642 0.112902598 0.174366738
rs7662778:123903239:T:G ENSG00000145375

rs7662961:123903349:T:G:ENSG00000145375 0.200359533 0.039514306
0.568513848 0.395341642 0.112902598 0.174366738
rs7662961:123903349:T:G ENSG00000145375

rs2390448:123904310:G:A:ENSG00000145375 0.200359533 0.039514306
0.568513848 0.395341642 0.112902598 0.174366738
rs2390448:123904310:G:A ENSG00000145375

rs35146974:123945459:CA:C:ENSG00000145375 0.243759522 0.039514306
0.5196698 0.438119062 0.198669295 0.201281701
rs35146974:123945459:CA:C ENSG00000145375

rs11293425:153635539:TA:T:ENSG00000170006 0.035322296 0.33968813
0.507796015 0.558498626 0.288162171 0.497503372
rs11293425:153635539:TA:T ENSG00000170006

rs832560:56124423:T:A:ENSG00000155542 0.132837758 0.039514306
0.839186759 0.603611735 0.714300296 0.684588293 rs832560:56124423:T:A
ENSG00000155542
rs252895:ENSG00000155542 0.448677976 0.039514306 0.853698456
0.709051726 0.87814657 0.842114526 rs252895 ENSG00000155542
rs2662022:56261491:G:A:ENSG00000155542 0.410204038 0.039514306
0.828327833 0.588441466 0.57001038 0.819585067
rs2662022:56261491:G:A ENSG00000155542
rs2662021:56261691:G:A:ENSG00000155542 0.42756707 0.039514306
0.828327833 0.603611735 0.603710229 0.813853703
rs2662021:56261691:G:A ENSG00000155542
rs832403:ENSG00000155542 0.451006906 0.039514306 0.828327833
0.697988141 0.746195972 0.832678767 rs832403 ENSG00000155542
rs7447816:68679822:G:A:ENSG00000152939 0.035322296 0.654488658
0.618696386 0.072575018 0.455878819 0.24867752
rs7447816:68679822:G:A ENSG00000152939
rs2439722:68734401:T:C:ENSG00000152939 0.035322296 0.651399716
0.580001614 0.072575018 0.395007577 0.140342165
rs2439722:68734401:T:C ENSG00000152939
rs62371717:68735112:T:C:ENSG00000152939 0.035322296 0.651399716
0.580001614 0.072575018 0.395007577 0.140342165
rs62371717:68735112:T:C ENSG00000152939
rs1230365:96214659:G:A:ENSG00000164308 0.035322296 0.653732824
0.778199855 0.746343751 0.690981753 0.6481702
rs1230365:96214659:G:A ENSG00000164308
rs10776775:114436482:G:A:ENSG00000134262 0.100009087 0.039514306
0.165546404 0.36680942 0.069942274 0.063994875
rs10776775:114436482:G:A ENSG00000134262
rs10745340:ENSG00000134262 0.100009087 0.039514306 0.14398786
0.301206855 0.069942274 0.063994875 rs10745340 ENSG00000134262
rs61206874:118979864:C:T:ENSG00000172869 0.326821943 0.039514306
0.72386196 0.484670506 0.9305498 0.80054243
rs61206874:118979864:C:T ENSG00000172869
rs919755:139831139:G:A:ENSG00000213523 0.23344096 0.039514306
0.090437058 0.530641947 0.279727316 0.390568128
rs919755:139831139:G:A ENSG00000213523
rs143581589:139834570:G:GAA:ENSG00000213523 0.035322296 0.039514306
0.436932543 0.558498626 0.069942274 0.319318857
rs143581589:139834570:G:GAA ENSG00000213523
rs250431:139940233:G:A:ENSG00000213523 0.146968287 0.039514306
0.054815691 0.491850645 0.069942274 0.282646046
rs250431:139940233:G:A ENSG00000213523
rs60495862:10688366:C:CCTT:ENSG00000137434 0.035322296 0.624238809
0.762115044 0.442167795 0.938476707 0.682445152
rs60495862:10688366:C:CCTT ENSG00000137434
rs9348641:10688443:T:A:ENSG00000137434 0.035322296 0.655089161
0.642599458 0.333474506 0.9402585 0.749911035
rs9348641:10688443:T:A ENSG00000137434
rs9467252:10694808:A:G:ENSG00000137434 0.035322296 0.651399716
0.828327833 0.441817908 0.860493302 0.789755639
rs9467252:10694808:A:G ENSG00000137434
rs10440821:10699156:A:G:ENSG00000137434 0.035322296 0.623013991
0.828327833 0.408307051 0.824032297 0.771651952
rs10440821:10699156:A:G ENSG00000137434

rs2760154:24475899:C:T:ENSG00000112294 0.480140265 0.039514306
0.360243455 0.569579255 0.599377315 0.813853703
rs2760154:24475899:C:T ENSG00000112294
rs2744575:24494975:C:G:ENSG00000112294 0.560029788 0.039514306 0.14398786
0.558498626 0.490050927 0.813853703 rs2744575:24494975:C:G
ENSG00000112294
rs2817213:ENSG00000112294 0.582267342 0.039514306 0.054815691
0.558498626 0.636822477 0.813853703 rs2817213 ENSG00000112294
rs2744577:24498052:G:A:ENSG00000112294 0.584874096 0.039514306
0.054815691 0.558498626 0.636822477 0.813853703
rs2744577:24498052:G:A ENSG00000112294
rs2744578:24499157:T:C:ENSG00000112294 0.584874096 0.039514306
0.054815691 0.558498626 0.636822477 0.813853703
rs2744578:24499157:T:C ENSG00000112294
rs7775307:24499469:G:A:ENSG00000112294 0.584625587 0.039514306
0.054815691 0.558498626 0.636822477 0.813853703
rs7775307:24499469:G:A ENSG00000112294
rs7775073:24499551:A:G:ENSG00000112294 0.606481133 0.039514306
0.054815691 0.558498626 0.54593522 0.798338031
rs7775073:24499551:A:G ENSG00000112294
rs11315269:24499688:AT:A:ENSG00000112294 0.584625587 0.039514306
0.054815691 0.558498626 0.636822477 0.813853703
rs11315269:24499688:AT:A ENSG00000112294
rs11315270:24499787:AT:A:ENSG00000112294 0.585561531 0.039514306
0.054815691 0.558498626 0.636822477 0.813853703
rs11315270:24499787:AT:A ENSG00000112294
rs12190926:24500078:G:A:ENSG00000112294 0.585881681 0.039514306
0.090437058 0.558498626 0.636822477 0.813853703
rs12190926:24500078:G:A ENSG00000112294
rs13193549:24500147:G:A:ENSG00000112294 0.585303959 0.039514306
0.054815691 0.558498626 0.636822477 0.813853703
rs13193549:24500147:G:A ENSG00000112294
rs2760129:24500368:T:G:ENSG00000112294 0.584140143 0.039514306
0.090437058 0.558498626 0.629639249 0.813853703
rs2760129:24500368:T:G ENSG00000112294
rs2817216:24500832:G:A:ENSG00000112294 0.582488913 0.039514306
0.090437058 0.558498626 0.617728871 0.813853703
rs2817216:24500832:G:A ENSG00000112294
rs2744579:24501000:A:C:ENSG00000112294 0.581188306 0.039514306
0.054815691 0.558498626 0.625064162 0.813853703
rs2744579:24501000:A:C ENSG00000112294
rs2245674:24501421:C:T:ENSG00000112294 0.579526203 0.039514306
0.054815691 0.558498626 0.617728871 0.813853703
rs2245674:24501421:C:T ENSG00000112294
rs6913746:29495815:T:C:ENSG00000213886 0.035322296 0.039514306
0.054815691 0.197042097 0.069942274 0.063994875
rs6913746:29495815:T:C ENSG00000213886
rs6456964:ENSG00000213886 0.035322296 0.039514306 0.054815691
0.197042097 0.069942274 0.063994875 rs6456964 ENSG00000213886
rs17184255:29521289:C:G:ENSG00000213886 0.035322296 0.039514306
0.054815691 0.165229468 0.069942274 0.063994875
rs17184255:29521289:C:G ENSG00000213886

rs16895067:29521516:A:G:ENSG00000213886 0.035322296 0.039514306
0.054815691 0.165229468 0.069942274 0.063994875
rs16895067:29521516:A:G ENSG00000213886
rs16895070:29521557:T:C:ENSG00000213886 0.035322296 0.039514306
0.054815691 0.165229468 0.069942274 0.063994875
rs16895070:29521557:T:C ENSG00000213886
rs2294746:29521676:C:T:ENSG00000213886 0.035322296 0.039514306
0.054815691 0.123210094 0.069942274 0.063994875
rs2294746:29521676:C:T ENSG00000213886
rs2294744:29522202:C:A:ENSG00000213886 0.035322296 0.039514306
0.054815691 0.123210094 0.069942274 0.063994875
rs2294744:29522202:C:A ENSG00000213886
rs6915177:ENSG00000213886 0.060909118 0.039514306 0.090437058
0.263905944 0.112902598 0.108665807 rs6915177 ENSG00000213886
exm526101:ENSG00000213886 0.081933656 0.039514306 0.121437838
0.197042097 0.148497947 0.063994875 exm526101 ENSG00000213886
rs2076487:29523859:G:C:ENSG00000213886 0.060909118 0.039514306
0.090437058 0.276782326 0.112902598 0.108665807
rs2076487:29523859:G:C ENSG00000213886
exm526112:ENSG00000213886 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 exm526112 ENSG00000213886
rs2076484:ENSG00000213886 0.060909118 0.039514306 0.090437058
0.276782326 0.112902598 0.108665807 rs2076484 ENSG00000213886
rs11970429:29526214:G:A:ENSG00000213886 0.060909118 0.039514306
0.090437058 0.276782326 0.112902598 0.108665807
rs11970429:29526214:G:A ENSG00000213886
rs11970475:29526377:G:A:ENSG00000213886 0.060909118 0.039514306
0.090437058 0.276782326 0.112902598 0.108665807
rs11970475:29526377:G:A ENSG00000213886
rs59731351:29526491:G:T:ENSG00000213886 0.060909118 0.039514306
0.090437058 0.276782326 0.112902598 0.108665807
rs59731351:29526491:G:T ENSG00000213886
rs57241384:29526520:A:G:ENSG00000213886 0.060909118 0.039514306
0.090437058 0.276782326 0.112902598 0.108665807
rs57241384:29526520:A:G ENSG00000213886
rs59802757:29526615:A:G:ENSG00000213886 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs59802757:29526615:A:G ENSG00000213886
exm2270461:ENSG00000213886 0.060909118 0.039514306 0.090437058
0.276782326 0.112902598 0.108665807 exm2270461 ENSG00000213886
rs9461538:29530027:A:G:ENSG00000213886 0.035322296 0.039514306
0.090437058 0.226823504 0.112902598 0.108665807
rs9461538:29530027:A:G ENSG00000213886
rs140941628:29606020:C:T:ENSG00000227262 0.035322296 0.145249232
0.054815691 0.350892299 0.679445541 0.503271951
rs140941628:29606020:C:T ENSG00000227262
rs147147780:29606832:G:A:ENSG00000227262 0.035322296 0.159643516
0.090437058 0.314254491 0.655885306 0.52739468
rs147147780:29606832:G:A ENSG00000227262
rs396660:ENSG00000204644 0.035322296 0.089622533 0.054815691 0.36680942
0.525520858 0.225997306 rs396660 ENSG00000204644
rs445150:ENSG00000204644 0.035322296 0.089622533 0.054815691 0.36680942
0.532319281 0.225997306 rs445150 ENSG00000204644

rs2747430:29648506:G:A:ENSG00000204644 0.035322296 0.066642396
0.054815691 0.340834261 0.493250562 0.174366738
rs2747430:29648506:G:A ENSG00000204644
rs28552659:29818132:G:A:ENSG00000230521 0.035322296 0.481993971
0.580001614 0.197042097 0.173591669 0.295623551
rs28552659:29818132:G:A ENSG00000230521
rs73725438:29829507:T:A:ENSG00000227262 0.035322296 0.159643516
0.381585774 0.491850645 0.734695661 0.672369682
rs73725438:29829507:T:A ENSG00000227262
JHU_6.29830129:ENSG00000227262 0.035322296 0.219098289 0.429802874
0.491850645 0.767723787 0.692744521 JHU_6.29830129 ENSG00000227262
JHU_6.29833641:ENSG00000227262 0.035322296 0.219098289 0.429802874
0.491850645 0.767723787 0.692744521 JHU_6.29833641 ENSG00000227262
rs77314501:29898397:G:A:ENSG00000204632 0.035322296 0.651399716
0.835088246 0.753959404 0.845554455 0.308405655
rs77314501:29898397:G:A ENSG00000204632
rs9260103:29909593:T:G:ENSG00000227262 0.563836278 0.039514306
0.775958292 0.756231687 0.802515582 0.725555765
rs9260103:29909593:T:G ENSG00000227262
rs41561116:29910473:G:A:ENSG00000230521 0.035322296 0.257351931
0.495886418 0.072575018 0.069942274 0.201281701
rs41561116:29910473:G:A ENSG00000230521
rs41549214:29910506:G:T:ENSG00000231074 0.485584445 0.039514306
0.580001614 0.620186274 0.112902598 0.174366738
rs41549214:29910506:G:T ENSG00000231074
rs199474430:29910725:C:G:ENSG00000230521 0.035322296 0.219098289
0.531748779 0.072575018 0.069942274 0.140342165
rs199474430:29910725:C:G ENSG00000230521
rs41545815:29910947:T:A:ENSG00000230521 0.035322296 0.248891879
0.495886418 0.072575018 0.069942274 0.201281701
rs41545815:29910947:T:A ENSG00000230521
rs41552627:29910980:C:T:ENSG00000204632 0.035322296 0.651399716
0.796206463 0.757155561 0.920590777 0.358316132
rs41552627:29910980:C:T ENSG00000204632
rs41552627:29910980:C:T:ENSG00000231074 0.515193516 0.039514306
0.618696386 0.671388768 0.311775972 0.382106273
rs41552627:29910980:C:T ENSG00000231074
rs9256982:29911000:T:C:ENSG00000230795 0.516693495 0.039514306 0.57027753
0.165229468 0.355219989 0.358316132 rs9256982:29911000:T:C
ENSG00000230795
rs9260152:29911037:G:C:ENSG00000204622 0.035322296 0.229789644
0.618696386 0.558498626 0.690981753 0.562535698
rs9260152:29911037:G:C ENSG00000204622
rs1136697:29911069:A:T:ENSG00000230521 0.035322296 0.174910011
0.429802874 0.072575018 0.069942274 0.063994875
rs1136697:29911069:A:T ENSG00000230521
rs41540615:29911112:C:T:ENSG00000204632 0.035322296 0.651399716
0.812077641 0.751091602 0.90539517 0.319318857
rs41540615:29911112:C:T ENSG00000204632
rs41540615:29911112:C:T:ENSG00000231074 0.48524743 0.039514306 0.59267775
0.646163083 0.112902598 0.174366738 rs41540615:29911112:C:T
ENSG00000231074

rs41540315:29911113:C:G:ENSG00000204632 0.035322296 0.651399716
0.812077641 0.751091602 0.905434766 0.347302535
rs41540315:29911113:C:G ENSG00000204632
rs41540315:29911113:C:G:ENSG00000231074 0.48524743 0.039514306 0.59314904
0.646163083 0.112902598 0.174366738 rs41540315:29911113:C:G
ENSG00000231074
rs12721717:29911115:G:A:ENSG00000204632 0.035322296 0.651399716
0.809704997 0.751091602 0.900733954 0.295623551
rs12721717:29911115:G:A ENSG00000204632
rs12721717:29911115:G:A:ENSG00000231074 0.48524743 0.039514306
0.604215794 0.642470662 0.112902598 0.201281701
rs12721717:29911115:G:A ENSG00000231074
rs3173419:29911119:G:C:ENSG00000204632 0.035322296 0.651399716
0.814800802 0.751091602 0.905940899 0.347302535
rs3173419:29911119:G:C ENSG00000204632
rs3173419:29911119:G:C:ENSG00000231074 0.48524743 0.039514306 0.5960947
0.642470662 0.148497947 0.225997306 rs3173419:29911119:G:C
ENSG00000231074
rs9256983:29911228:A:G:ENSG00000204632 0.035322296 0.648883851
0.820123249 0.751091602 0.901801828 0.295623551
rs9256983:29911228:A:G ENSG00000204632
rs9256983:29911228:A:G:ENSG00000231074 0.48524743 0.039514306
0.597182664 0.634267399 0.148497947 0.225997306
rs9256983:29911228:A:G ENSG00000231074
rs17878860:29911360:A:G:ENSG00000230521 0.035322296 0.248891879
0.498407593 0.072575018 0.069942274 0.201281701
rs17878860:29911360:A:G ENSG00000230521
rs75439900:29911534:A:C:ENSG00000230521 0.035322296 0.202241296
0.466752146 0.072575018 0.069942274 0.108665807
rs75439900:29911534:A:C ENSG00000230521
rs76475517:29911545:G:A:ENSG00000230521 0.035322296 0.248891879
0.507796015 0.072575018 0.069942274 0.201281701
rs76475517:29911545:G:A ENSG00000230521
rs29028728:29911571:G:C:ENSG00000230521 0.035322296 0.202241296
0.429802874 0.072575018 0.069942274 0.225997306
rs29028728:29911571:G:C ENSG00000230521
JHU_6.29911836:ENSG00000230521 0.035322296 0.248891879 0.511835264
0.072575018 0.069942274 0.201281701 JHU_6.29911836 ENSG00000230521
rs1059570:29911951:C:T:ENSG00000230521 0.035322296 0.039514306
0.572955873 0.072575018 0.148497947 0.225997306
rs1059570:29911951:C:T ENSG00000230521
rs12721755:29911957:G:A:ENSG00000230521 0.035322296 0.281740211
0.568366244 0.072575018 0.069942274 0.174366738
rs12721755:29911957:G:A ENSG00000230521
exm-rs2517723:ENSG00000227262 0.569266218 0.039514306 0.828327833
0.753959404 0.929731916 0.545172079 exm-rs2517723 ENSG00000227262
rs2517722:ENSG00000227262 0.570211557 0.039514306 0.828327833
0.753121345 0.9305498 0.550290331 rs2517722 ENSG00000227262
JHU_6.29915350:ENSG00000230521 0.035322296 0.110495165 0.400191924
0.072575018 0.069942274 0.063994875 JHU_6.29915350 ENSG00000230521
rs72845120:29915403:G:A:ENSG00000227262 0.035322296 0.472808011 0.48190184
0.6156448 0.930300633 0.707675982 rs72845120:29915403:G:A
ENSG00000227262

rs72845120:29915403:G:A:ENSG00000230521 0.035322296 0.110495165
0.400191924 0.072575018 0.069942274 0.063994875
rs72845120:29915403:G:A ENSG00000230521
JHU_6.29915437:ENSG00000227262 0.035322296 0.472808011 0.48190184
0.6156448 0.930300633 0.707675982 JHU_6.29915437 ENSG00000227262
JHU_6.29915437:ENSG00000230521 0.035322296 0.110495165 0.400191924
0.072575018 0.069942274 0.063994875 JHU_6.29915437 ENSG00000230521
rs34095738:29915791:T:C:ENSG00000227262 0.035322296 0.472808011 0.48190184
0.617124137 0.9305498 0.709269161 rs34095738:29915791:T:C
ENSG00000227262
rs34095738:29915791:T:C:ENSG00000230521 0.035322296 0.110495165
0.400191924 0.072575018 0.069942274 0.063994875
rs34095738:29915791:T:C ENSG00000230521
rs34016903:29915839:C:T:ENSG00000230521 0.035322296 0.110495165
0.400191924 0.072575018 0.069942274 0.063994875
rs34016903:29915839:C:T ENSG00000230521
rs112377352:29915945:G:A:ENSG00000230521 0.035322296 0.145249232
0.406502841 0.072575018 0.069942274 0.063994875
rs112377352:29915945:G:A ENSG00000230521
rs72845126:29916287:G:T:ENSG00000230521 0.035322296 0.039514306
0.184980376 0.072575018 0.069942274 0.063994875
rs72845126:29916287:G:T ENSG00000230521
rs72845127:29916460:G:A:ENSG00000227262 0.035322296 0.463260354
0.495886418 0.617124137 0.930300633 0.66629958
rs72845127:29916460:G:A ENSG00000227262
rs72845127:29916460:G:A:ENSG00000230521 0.035322296 0.110495165
0.400191924 0.072575018 0.069942274 0.063994875
rs72845127:29916460:G:A ENSG00000230521
rs9260304:29916481:G:T:ENSG00000227262 0.035322296 0.484305836
0.525522206 0.603611735 0.9305498 0.780608344
rs9260304:29916481:G:T ENSG00000227262
rs9260304:29916481:G:T:ENSG00000230521 0.035322296 0.089622533
0.269469279 0.072575018 0.069942274 0.063994875
rs9260304:29916481:G:T ENSG00000230521
rs72845132:29916639:C:A:ENSG00000227262 0.035322296 0.437172873
0.470302738 0.617124137 0.90539517 0.740076738
rs72845132:29916639:C:A ENSG00000227262
rs72845132:29916639:C:A:ENSG00000230521 0.035322296 0.145249232
0.406502841 0.072575018 0.069942274 0.063994875
rs72845132:29916639:C:A ENSG00000230521
rs72845133:29916654:C:T:ENSG00000204644 0.035322296 0.507089732
0.568513848 0.672594322 0.340307796 0.063994875
rs72845133:29916654:C:T ENSG00000204644
rs72845133:29916654:C:T:ENSG00000227262 0.035322296 0.367821565
0.495886418 0.617124137 0.9305498 0.780608344
rs72845133:29916654:C:T ENSG00000227262
rs72845133:29916654:C:T:ENSG00000230521 0.035322296 0.311964405
0.390230616 0.072575018 0.069942274 0.347302535
rs72845133:29916654:C:T ENSG00000230521
rs1655902:29916855:G:A:ENSG00000204632 0.228236375 0.039514306
0.618696386 0.442167795 0.932913067 0.532059322
rs1655902:29916855:G:A ENSG00000204632

rs72845135:29916922:G:T:ENSG00000227262 0.035322296 0.472808011
0.477036266 0.616427509 0.9305498 0.707675982
rs72845135:29916922:G:T ENSG00000227262
rs72845135:29916922:G:T:ENSG00000230521 0.035322296 0.110495165
0.400191924 0.072575018 0.069942274 0.063994875
rs72845135:29916922:G:T ENSG00000230521
JHU_6.29916970:ENSG00000230521 0.035322296 0.039514306 0.5196698
0.072575018 0.069942274 0.063994875 JHU_6.29916970 ENSG00000230521
JHU_6.29916970:ENSG00000230795 0.035322296 0.248891879 0.121437838
0.350892299 0.54593522 0.063994875 JHU_6.29916970 ENSG00000230795
rs72845140:29917179:A:C:ENSG00000227262 0.035322296 0.469861597
0.477036266 0.616786493 0.928428002 0.710464737
rs72845140:29917179:A:C ENSG00000227262
rs2517713:ENSG00000204632 0.035322296 0.174910011 0.828327833
0.408307051 0.288162171 0.401203391 rs2517713 ENSG00000204632
rs2517710:29918296:C:T:ENSG00000227262 0.539408775 0.039514306
0.674762224 0.782794422 0.74808171 0.813853703
rs2517710:29918296:C:T ENSG00000227262
rs2508037:ENSG00000227262 0.544817099 0.039514306 0.670633075
0.779190058 0.72290993 0.813853703 rs2508037 ENSG00000227262
JHU_6.29918635:ENSG00000230521 0.035322296 0.174910011 0.466752146
0.072575018 0.069942274 0.140342165 JHU_6.29918635 ENSG00000230521
JHU_6.29918733:ENSG00000227262 0.544012783 0.039514306 0.669205477
0.778955161 0.71894781 0.813853703 JHU_6.29918733 ENSG00000227262
JHU_6.29918769:ENSG00000227262 0.543396977 0.039514306 0.669205477
0.778955161 0.72290993 0.813853703 JHU_6.29918769 ENSG00000227262
JHU_6.29918860:ENSG00000227262 0.543396977 0.039514306 0.669205477
0.778955161 0.72290993 0.813853703 JHU_6.29918860 ENSG00000227262
rs9260405:29918887:T:C:ENSG00000227262 0.464133132 0.039514306
0.593231314 0.678782234 0.844400328 0.813853703
rs9260405:29918887:T:C ENSG00000227262
JHU_6.29918916:ENSG00000227262 0.443446124 0.039514306 0.675900586
0.736814521 0.555947116 0.538926046 JHU_6.29918916 ENSG00000227262
rs9260413:29919010:C:G:ENSG00000227262 0.544012783 0.039514306
0.670633075 0.778955161 0.72290993 0.813853703
rs9260413:29919010:C:G ENSG00000227262
rs9260415:29919021:A:C:ENSG00000227262 0.467143585 0.039514306
0.604215794 0.685348652 0.845554455 0.813853703
rs9260415:29919021:A:C ENSG00000227262
rs9260417:29919023:G:T:ENSG00000227262 0.464133132 0.039514306 0.59314904
0.677268785 0.845554455 0.813853703 rs9260417:29919023:G:T
ENSG00000227262
rs9260424:29919098:A:G:ENSG00000227262 0.539408775 0.039514306
0.674762224 0.780657815 0.752490742 0.813853703
rs9260424:29919098:A:G ENSG00000227262
6:29919132:T:G:ENSG00000227262 0.464133132 0.039514306 0.593231314
0.678782234 0.845554455 0.813853703 6:29919132:T:G ENSG00000227262
6:29919141:C:G:ENSG00000227262 0.544817099 0.039514306 0.670633075
0.779190058 0.72290993 0.813853703 6:29919141:C:G ENSG00000227262
6:29919352:CTTTA:CTTTATTTA:ENSG00000227262 0.035322296 0.334648487
0.828327833 0.763588687 0.410008196 0.751207108
6:29919352:CTTTA:CTTTATTTA ENSG00000227262

rs2517709:29919421:A:G:ENSG00000227262 0.574499569 0.039514306 0.65652076
0.775572817 0.66458282 0.813853703 rs2517709:29919421:A:G
ENSG00000227262

rs2517707:29919516:A:C:ENSG00000227262 0.464133132 0.039514306
0.593231314 0.678782234 0.846349625 0.813853703
rs2517707:29919516:A:C ENSG00000227262

rs72845150:29919819:C:G:ENSG00000230521 0.035322296 0.240653097
0.498407593 0.072575018 0.069942274 0.140342165
rs72845150:29919819:C:G ENSG00000230521

JHU_6.29919863:ENSG00000227262 0.506964097 0.039514306 0.707238467
0.751091602 0.621203936 0.813853703 JHU_6.29919863 ENSG00000227262

rs73725580:29919934:T:C:ENSG00000230521 0.035322296 0.529389495
0.351078567 0.244282474 0.069942274 0.510329036
rs73725580:29919934:T:C ENSG00000230521

rs1655910:29920105:C:A:ENSG00000227262 0.557545872 0.039514306
0.767163632 0.780657815 0.850760242 0.813853703
rs1655910:29920105:C:A ENSG00000227262

rs9260484:29920253:A:C:ENSG00000227262 0.557545872 0.039514306
0.767163632 0.781060792 0.851849581 0.813853703
rs9260484:29920253:A:C ENSG00000227262

rs78720542:29920320:T:C:ENSG00000230521 0.035322296 0.396207958
0.568513848 0.072575018 0.069942274 0.347302535
rs78720542:29920320:T:C ENSG00000230521

rs9260532:29921235:C:T:ENSG00000227262 0.035322296 0.066642396
0.283332252 0.276782326 0.467095788 0.559822551
rs9260532:29921235:C:T ENSG00000227262

rs9260614:29922995:T:C:ENSG00000227262 0.53589358 0.039514306
0.679533134 0.751091602 0.655885306 0.804202828
rs9260614:29922995:T:C ENSG00000227262

rs115644852:29923184:C:T:ENSG00000230521 0.035322296 0.349699032
0.568513848 0.072575018 0.069942274 0.319318857
rs115644852:29923184:C:T ENSG00000230521

rs9260626:29923189:G:A:ENSG00000230521 0.035322296 0.367821565
0.550245587 0.072575018 0.069942274 0.174366738
rs9260626:29923189:G:A ENSG00000230521

rs2844810:29923580:G:C:ENSG00000227262 0.547691077 0.039514306 0.72386196
0.777241096 0.789409778 0.817686609 rs2844810:29923580:G:C
ENSG00000227262

JHU_6.29924888:ENSG00000204622 0.271758927 0.039514306 0.65652076
0.528521718 0.410008196 0.532059322 JHU_6.29924888 ENSG00000204622

rs17180058:29934152:C:G:ENSG00000230521 0.035322296 0.202241296 0.33856507
0.496527133 0.069942274 0.782163764 rs17180058:29934152:C:G
ENSG00000230521

rs2256539:ENSG00000204644 0.23344096 0.039514306 0.61437749
0.263905944 0.069942274 0.739809647 rs2256539 ENSG00000204644

rs17180311:29940002:G:A:ENSG00000230521 0.035322296 0.248891879 0.42786084
0.614732278 0.069942274 0.813853703 rs17180311:29940002:G:A
ENSG00000230521

JHU_6.29943055:ENSG00000230521 0.035322296 0.257351931 0.429802874
0.614732278 0.069942274 0.813853703 JHU_6.29943055 ENSG00000230521

rs2735076:ENSG00000230521 0.035322296 0.500746138 0.828327833
0.579004696 0.859361356 0.638312381 rs2735076 ENSG00000230521

rs150614636:29944715:G:C:ENSG00000230521 0.035322296 0.257351931
0.42786084 0.614732278 0.069942274 0.813853703
rs150614636:29944715:G:C ENSG00000230521
exm-rs9260988:ENSG00000066379 0.333587289 0.039514306 0.7518355
0.626314657 0.069942274 0.063994875 exm-rs9260988 ENSG00000066379
JHU_6.29962583:ENSG00000066379 0.33585794 0.039514306 0.760866298
0.628695369 0.069942274 0.063994875 JHU_6.29962583 ENSG00000066379
rs9260991:29962591:G:C:ENSG00000066379 0.311750411 0.039514306
0.766562582 0.627744359 0.069942274 0.063994875
rs9260991:29962591:G:C ENSG00000066379
rs9260992:29962592:G:A:ENSG00000066379 0.310004009 0.039514306
0.767163632 0.628695369 0.069942274 0.063994875
rs9260992:29962592:G:A ENSG00000066379
rs9260994:29962796:C:G:ENSG00000066379 0.33585794 0.039514306
0.757967988 0.634198516 0.069942274 0.063994875
rs9260994:29962796:C:G ENSG00000066379
JHU_6.29962889:ENSG00000066379 0.271758927 0.039514306 0.693319897
0.590665154 0.069942274 0.063994875 JHU_6.29962889 ENSG00000066379
rs6910507:29962926:T:G:ENSG00000066379 0.271758927 0.039514306
0.693319897 0.579004696 0.069942274 0.063994875
rs6910507:29962926:T:G ENSG00000066379
rs9260999:29963815:C:T:ENSG00000066379 0.35484344 0.039514306
0.771670385 0.642470662 0.069942274 0.063994875
rs9260999:29963815:C:T ENSG00000066379
rs9261000:29963829:G:A:ENSG00000066379 0.332523749 0.039514306
0.766562582 0.649756756 0.069942274 0.063994875
rs9261000:29963829:G:A ENSG00000066379
rs9280836:29964070:C:CT:ENSG00000066379 0.332523749 0.039514306
0.767962809 0.649756756 0.069942274 0.063994875
rs9280836:29964070:C:CT ENSG00000066379
rs9261001:29964102:G:A:ENSG00000066379 0.334162828 0.039514306
0.765578222 0.637390127 0.069942274 0.063994875
rs9261001:29964102:G:A ENSG00000066379
rs9261002:29964150:T:G:ENSG00000066379 0.332523749 0.039514306
0.766562582 0.649756756 0.069942274 0.063994875
rs9261002:29964150:T:G ENSG00000066379
rs9261003:29964152:G:C:ENSG00000066379 0.332523749 0.039514306
0.766562582 0.649756756 0.069942274 0.063994875
rs9261003:29964152:G:C ENSG00000066379
rs9261004:29964253:C:T:ENSG00000066379 0.332523749 0.039514306
0.766562582 0.649756756 0.069942274 0.063994875
rs9261004:29964253:C:T ENSG00000066379
JHU_6.29964466:ENSG00000066379 0.332523749 0.039514306 0.766562582
0.649756756 0.069942274 0.063994875 JHU_6.29964466 ENSG00000066379
rs9261009:29964676:C:T:ENSG00000066379 0.332523749 0.039514306
0.767962809 0.649756756 0.069942274 0.063994875
rs9261009:29964676:C:T ENSG00000066379
rs9261209:30008319:A:G:ENSG00000066379 0.359567157 0.039514306
0.833978613 0.663806993 0.148497947 0.457928806
rs9261209:30008319:A:G ENSG00000066379
rs9261210:30008331:C:G:ENSG00000066379 0.359567157 0.039514306
0.833978613 0.663806993 0.148497947 0.457928806
rs9261210:30008331:C:G ENSG00000066379

rs184648988:30051556:G:C:ENSG00000066379 0.035322296 0.661628136
0.828327833 0.772750049 0.9305498 0.590052663
rs184648988:30051556:G:C ENSG00000066379
rs72502600:31974589:G:C:ENSG00000198502 0.570987616 0.039514306
0.640107889 0.507376693 0.875635183 0.764353403
rs72502600:31974589:G:C ENSG00000198502
JHU_6.32454268:ENSG00000198502 0.035322296 0.651399716 0.685268659
0.751091602 0.9305498 0.813853703 JHU_6.32454268 ENSG00000198502
JHU_6.32492031:ENSG00000198502 0.035322296 0.651399716 0.797260875
0.780657815 0.9305498 0.824357868 JHU_6.32492031 ENSG00000198502
rs17843604:32620283:C:T:ENSG00000179344 0.035322296 0.69497631
0.587216849 0.52264501 0.9305498 0.556049114
rs17843604:32620283:C:T ENSG00000179344
rs12528712:109660884:C:A:ENSG00000260273 0.440655985 0.039514306
0.454299825 0.314254491 0.716444316 0.7765296
rs12528712:109660884:C:A ENSG00000260273
rs2275650:109668288:C:T:ENSG00000260273 0.344174629 0.039514306
0.222302049 0.226823504 0.685405973 0.58035006
rs2275650:109668288:C:T ENSG00000260273
rs3818934:109668480:C:T:ENSG00000260273 0.343380618 0.039514306
0.222302049 0.226823504 0.685405973 0.58035006
rs3818934:109668480:C:T ENSG00000260273
rs13203252:109672736:A:G:ENSG00000260273 0.465628086 0.039514306
0.458471274 0.314254491 0.769250833 0.7765296
rs13203252:109672736:A:G ENSG00000260273
rs11153174:109674055:C:T:ENSG00000260273 0.339455396 0.039514306
0.222302049 0.226823504 0.685405973 0.58035006
rs11153174:109674055:C:T ENSG00000260273
rs67857472:109680328:C:T:ENSG00000260273 0.440655985 0.039514306
0.485354668 0.301206855 0.750632228 0.780608344
rs67857472:109680328:C:T ENSG00000260273
rs11757877:109681882:T:C:ENSG00000260273 0.463185499 0.039514306
0.531748779 0.387628207 0.784162464 0.807989632
rs11757877:109681882:T:C ENSG00000260273
rs61233650:109686612:C:T:ENSG00000260273 0.419607171 0.039514306
0.443593462 0.276782326 0.731951824 0.773208495
rs61233650:109686612:C:T ENSG00000260273
rs3799835:109693287:A:G:ENSG00000260273 0.418609874 0.039514306
0.443593462 0.276782326 0.730942663 0.772415663
rs3799835:109693287:A:G ENSG00000260273
rs34131679:109697051:C:A:ENSG00000260273 0.454899664 0.039514306
0.503583077 0.340834261 0.774765425 0.790913456
rs34131679:109697051:C:A ENSG00000260273
rs3799840:109702646:A:T:ENSG00000260273 0.515193516 0.039514306
0.454299825 0.333474506 0.762549256 0.813853703
rs3799840:109702646:A:T ENSG00000260273
rs2275652:109703683:G:C:ENSG00000260273 0.515193516 0.039514306
0.454299825 0.333474506 0.762549256 0.813853703
rs2275652:109703683:G:C ENSG00000260273
rs200998194:109708301:A:AT:ENSG00000260273 0.515908395 0.039514306
0.48190184 0.387628207 0.801413132 0.813853703
rs200998194:109708301:A:AT ENSG00000260273

rs13199519:109709175:G:A:ENSG00000260273 0.515908395 0.039514306
0.48190184 0.387628207 0.801413132 0.813853703
rs13199519:109709175:G:A ENSG00000260273
rs6929208:109720405:G:C:ENSG00000260273 0.515908395 0.039514306
0.495886418 0.390584104 0.795865519 0.813853703
rs6929208:109720405:G:C ENSG00000260273
rs6916579:109851638:A:G:ENSG00000260273 0.349088436 0.039514306 0.42786084
0.072575018 0.603364769 0.813853703 rs6916579:109851638:A:G
ENSG00000260273
rs144710457:109858605:A:G:ENSG00000260273 0.511652315 0.039514306
0.492105461 0.197042097 0.675380087 0.813853703
rs144710457:109858605:A:G ENSG00000260273
rs13214717:ENSG00000260273 0.500930531 0.039514306 0.429802874
0.072575018 0.629639249 0.813853703 rs13214717 ENSG00000260273
rs2208209:109903003:C:T:ENSG00000260273 0.437249414 0.039514306
0.528262409 0.123210094 0.685405973 0.813853703
rs2208209:109903003:C:T ENSG00000260273
rs12208933:109903786:C:T:ENSG00000260273 0.439359535 0.039514306
0.528262409 0.123210094 0.685405973 0.813853703
rs12208933:109903786:C:T ENSG00000260273
rs71770197:109906329:GCTT:G:ENSG00000260273 0.4990958 0.039514306
0.568513848 0.165229468 0.9305498 0.826638859
rs71770197:109906329:GCTT:G ENSG00000260273
rs2148089:109913811:G:A:ENSG00000260273 0.446625656 0.039514306
0.568513848 0.165229468 0.690981753 0.813853703
rs2148089:109913811:G:A ENSG00000260273
rs199556160:109920169:G:C:ENSG00000260273 0.433234922 0.039514306
0.545428271 0.226823504 0.690981753 0.813853703
rs199556160:109920169:G:C ENSG00000260273
rs370195653:109920492:G:A:ENSG00000260273 0.444708302 0.039514306
0.550245587 0.197042097 0.690981753 0.813853703
rs370195653:109920492:G:A ENSG00000260273
rs6914498:109934408:G:A:ENSG00000260273 0.434375451 0.039514306
0.542268712 0.226823504 0.690981753 0.813853703
rs6914498:109934408:G:A ENSG00000260273
rs13204102:109938944:C:A:ENSG00000260273 0.445714593 0.039514306
0.552896362 0.197042097 0.690981753 0.813853703
rs13204102:109938944:C:A ENSG00000260273
rs78056477:109939052:GAC:G:ENSG00000260273 0.433234922 0.039514306
0.545428271 0.226823504 0.690981753 0.813853703
rs78056477:109939052:GAC:G ENSG00000260273
rs10499053:109940498:A:G:ENSG00000260273 0.449694788 0.039514306
0.548514013 0.165229468 0.690981753 0.813853703
rs10499053:109940498:A:G ENSG00000260273
rs12527577:109942567:C:T:ENSG00000260273 0.517092266 0.039514306
0.562861286 0.276782326 0.731951824 0.813853703
rs12527577:109942567:C:T ENSG00000260273
rs13204500:109961885:G:A:ENSG00000260273 0.452814686 0.039514306
0.562861286 0.123210094 0.690981753 0.813853703
rs13204500:109961885:G:A ENSG00000260273
rs1321328:109976385:G:C:ENSG00000260273 0.439359535 0.039514306
0.545428271 0.226823504 0.690981753 0.813853703
rs1321328:109976385:G:C ENSG00000260273

rs971434:ENSG00000260273 0.340915103 0.039514306 0.324917292
0.072575018 0.477032507 0.75395128 rs971434 ENSG00000260273
rs34393084:109992940:TG:T:ENSG00000260273 0.563836278 0.039514306
0.42786084 0.165229468 0.9305498 0.69542589
rs34393084:109992940:TG:T ENSG00000260273
rs6911700:109997294:T:C:ENSG00000260273 0.554031888 0.039514306
0.238368074 0.072575018 0.9305498 0.586168441
rs6911700:109997294:T:C ENSG00000260273
rs6568592:110000639:A:G:ENSG00000260273 0.575759567 0.039514306
0.498407593 0.072575018 0.9305498 0.747308154
rs6568592:110000639:A:G ENSG00000260273
rs7341297:110000682:A:G:ENSG00000260273 0.563313228 0.039514306
0.165546404 0.072575018 0.889560736 0.56328436
rs7341297:110000682:A:G ENSG00000260273
rs10457203:110004300:T:C:ENSG00000260273 0.575759567 0.039514306
0.498407593 0.072575018 0.9305498 0.747308154
rs10457203:110004300:T:C ENSG00000260273
rs12210706:110005474:G:A:ENSG00000260273 0.563313228 0.039514306
0.165546404 0.072575018 0.889560736 0.56328436
rs12210706:110005474:G:A ENSG00000260273
rs11153213:110015093:A:G:ENSG00000260273 0.586221279 0.039514306
0.165546404 0.072575018 0.89883587 0.6481702
rs11153213:110015093:A:G ENSG00000260273
rs11153214:110015323:A:G:ENSG00000260273 0.371007394 0.039514306
0.411358711 0.072575018 0.574209974 0.813853703
rs11153214:110015323:A:G ENSG00000260273
rs12201356:110015875:T:C:ENSG00000260273 0.585881681 0.039514306
0.165546404 0.072575018 0.899275605 0.652863919
rs12201356:110015875:T:C ENSG00000260273
rs35295916:110024302:A:AT:ENSG00000260273 0.377859504 0.039514306
0.411358711 0.072575018 0.57001038 0.813853703
rs35295916:110024302:A:AT ENSG00000260273
rs3799845:110027717:G:A:ENSG00000260273 0.584874096 0.039514306
0.165546404 0.072575018 0.905434766 0.672369682
rs3799845:110027717:G:A ENSG00000260273
rs13207864:110029730:C:T:ENSG00000260273 0.471400406 0.039514306
0.054815691 0.072575018 0.381322091 0.813853703
rs13207864:110029730:C:T ENSG00000260273
rs13211604:110033728:G:C:ENSG00000260273 0.554566691 0.039514306
0.450702715 0.276782326 0.740358056 0.813853703
rs13211604:110033728:G:C ENSG00000260273
rs13212535:110034391:G:A:ENSG00000260273 0.485584445 0.039514306
0.054815691 0.072575018 0.445056985 0.813853703
rs13212535:110034391:G:A ENSG00000260273
rs12204548:110036707:C:T:ENSG00000260273 0.58925339 0.039514306
0.398350929 0.072575018 0.9305498 0.813853703
rs12204548:110036707:C:T ENSG00000260273
rs12661287:110053250:T:A:ENSG00000260273 0.525787476 0.039514306
0.090437058 0.072575018 0.559581427 0.813853703
rs12661287:110053250:T:A ENSG00000260273
rs11964533:110059000:G:A:ENSG00000260273 0.526360714 0.039514306
0.090437058 0.072575018 0.559581427 0.813853703
rs11964533:110059000:G:A ENSG00000260273

rs12201444:110059954:G:A:ENSG00000260273 0.586517528 0.039514306
0.398350929 0.072575018 0.9305498 0.813853703
rs12201444:110059954:G:A ENSG00000260273
rs13194387:110066935:G:A:ENSG00000260273 0.554891782 0.039514306
0.310525978 0.197042097 0.381322091 0.775020218
rs13194387:110066935:G:A ENSG00000260273
rs13198852:110068322:C:T:ENSG00000260273 0.568500354 0.039514306
0.165546404 0.072575018 0.767723787 0.720957673
rs13198852:110068322:C:T ENSG00000260273
rs11153216:110070022:G:A:ENSG00000260273 0.566834875 0.039514306
0.054815691 0.072575018 0.697271859 0.629184088
rs11153216:110070022:G:A ENSG00000260273
rs13197056:110072732:G:A:ENSG00000260273 0.519192598 0.039514306
0.054815691 0.072575018 0.069942274 0.60918994
rs13197056:110072732:G:A ENSG00000260273
rs149829047:110079111:A:G:ENSG00000260273 0.566834875 0.039514306
0.054815691 0.072575018 0.697271859 0.629719559
rs149829047:110079111:A:G ENSG00000260273
rs13191444:110084064:A:G:ENSG00000260273 0.570070192 0.039514306
0.351078567 0.314254491 0.472198515 0.795155854
rs13191444:110084064:A:G ENSG00000260273
rs12190372:110084534:G:A:ENSG00000260273 0.566834875 0.039514306
0.054815691 0.072575018 0.699395727 0.629719559
rs12190372:110084534:G:A ENSG00000260273
rs13196280:110085366:G:T:ENSG00000260273 0.570070192 0.039514306
0.351078567 0.314254491 0.472198515 0.795155854
rs13196280:110085366:G:T ENSG00000260273
rs140560218:110086098:TTTTTTG:TTTTTTGTTTTTGTTTTTG:ENSG00000260273
0.554031888 0.039514306 0.283332252 0.314254491 0.874881554
0.753387287 rs140560218:110086098:TTTTTTG:TTTTTTGTTTTTGTTTTTG
ENSG00000260273
rs11968978:ENSG00000260273 0.56420809 0.039514306 0.121437838
0.385352708 0.690981753 0.795155854 rs11968978 ENSG00000260273
rs1462490:110396676:A:C:ENSG00000168438 0.035322296 0.039514306
0.054815691 0.072575018 0.148497947 0.063994875
rs1462490:110396676:A:C ENSG00000168438
rs57049072:110401834:C:CCTGGCTGGCCCTAG:ENSG00000168438 0.035322296
0.039514306 0.054815691 0.197042097 0.251839208 0.063994875
rs57049072:110401834:C:CCTGGCTGGCCCTAG ENSG00000168438
rs6925392:ENSG00000168438 0.480140265 0.039514306 0.238368074
0.595546163 0.650850274 0.063994875 rs6925392 ENSG00000168438
rs6915379:110429020:T:A:ENSG00000168438 0.219347314 0.039514306
0.054815691 0.290136921 0.371793022 0.295623551
rs6915379:110429020:T:A ENSG00000168438
rs6927722:110430611:C:T:ENSG00000168438 0.332523749 0.039514306
0.054815691 0.442167795 0.480692872 0.477177495
rs6927722:110430611:C:T ENSG00000168438
rs6928684:110430958:G:T:ENSG00000168438 0.332523749 0.039514306
0.054815691 0.442167795 0.480692872 0.477177495
rs6928684:110430958:G:T ENSG00000168438
rs73535810:110436868:G:A:ENSG00000168438 0.332523749 0.039514306
0.054815691 0.442167795 0.480692872 0.477177495
rs73535810:110436868:G:A ENSG00000168438

rs4945850:ENSG00000168438 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 rs4945850 ENSG00000168438
rs12660791:110456662:C:T:ENSG00000168438 0.304041304 0.039514306
0.054815691 0.419678998 0.410008196 0.605346151
rs12660791:110456662:C:T ENSG00000168438
rs6927667:110467947:C:A:ENSG00000168438 0.332523749 0.039514306
0.054815691 0.442167795 0.480692872 0.477177495
rs6927667:110467947:C:A ENSG00000168438
rs6927697:110468046:A:G:ENSG00000168438 0.219347314 0.039514306
0.054815691 0.290136921 0.371793022 0.295623551
rs6927697:110468046:A:G ENSG00000168438
rs1462492:110470458:G:A:ENSG00000168438 0.332523749 0.039514306
0.054815691 0.442167795 0.480692872 0.477177495
rs1462492:110470458:G:A ENSG00000168438
rs1462493:110470514:G:C:ENSG00000168438 0.219347314 0.039514306
0.054815691 0.290136921 0.371793022 0.295623551
rs1462493:110470514:G:C ENSG00000168438
rs4947048:110471195:G:C:ENSG00000168438 0.332523749 0.039514306
0.054815691 0.442167795 0.480692872 0.477177495
rs4947048:110471195:G:C ENSG00000168438
rs6568633:110492564:T:C:ENSG00000168438 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6568633:110492564:T:C ENSG00000168438
rs6926540:110494209:T:C:ENSG00000168438 0.334162828 0.039514306
0.054815691 0.455203609 0.493250562 0.501122218
rs6926540:110494209:T:C ENSG00000168438
rs4945851:110497233:T:C:ENSG00000168438 0.228236375 0.039514306
0.054815691 0.301206855 0.388754065 0.295623551
rs4945851:110497233:T:C ENSG00000168438
rs4257894:110498209:C:A:ENSG00000168438 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs4257894:110498209:C:A ENSG00000168438
rs73537927:110500355:C:G:ENSG00000168438 0.228236375 0.039514306
0.054815691 0.301206855 0.388754065 0.295623551
rs73537927:110500355:C:G ENSG00000168438
rs73537938:110517993:G:A:ENSG00000168438 0.243759522 0.039514306
0.054815691 0.290136921 0.410008196 0.295623551
rs73537938:110517993:G:A ENSG00000168438
rs4509164:110520157:A:G:ENSG00000168438 0.196140407 0.039514306
0.054815691 0.244282474 0.340307796 0.201281701
rs4509164:110520157:A:G ENSG00000168438
rs6938139:110539958:A:G:ENSG00000168438 0.297292124 0.039514306
0.054815691 0.454179145 0.614364441 0.063994875
rs6938139:110539958:A:G ENSG00000168438
rs149309025:119154346:C:T:ENSG00000111877 0.475980132 0.039514306
0.054815691 0.385352708 0.667917828 0.681432383
rs149309025:119154346:C:T ENSG00000111877
rs4946367:119217940:G:A:ENSG00000111877 0.416498515 0.039514306
0.054815691 0.385352708 0.690981753 0.613318589
rs4946367:119217940:G:A ENSG00000111877
rs9401099:119250991:A:G:ENSG00000111877 0.228236375 0.039514306
0.054815691 0.276782326 0.112902598 0.4815871
rs9401099:119250991:A:G ENSG00000111877

rs5879474:119251268:A:ATTTTAT:ENSG00000111877 0.311750411 0.039514306
0.054815691 0.472415297 0.493250562 0.638312381
rs5879474:119251268:A:ATTTTAT ENSG00000111877
rs1022709:119251706:C:T:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.276782326 0.112902598 0.494607223
rs1022709:119251706:C:T ENSG00000111877
rs1022708:119251906:C:T:ENSG00000111877 0.306174368 0.039514306
0.054815691 0.476011459 0.493250562 0.638312381
rs1022708:119251906:C:T ENSG00000111877
rs1022707:119251971:G:T:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.290136921 0.112902598 0.494607223
rs1022707:119251971:G:T ENSG00000111877
rs1022706:119252006:A:T:ENSG00000111877 0.306174368 0.039514306
0.054815691 0.478009532 0.493250562 0.638312381
rs1022706:119252006:A:T ENSG00000111877
rs6918844:119252028:G:A:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.290136921 0.112902598 0.494607223
rs6918844:119252028:G:A ENSG00000111877
rs6918569:119252111:A:G:ENSG00000111877 0.310004009 0.039514306
0.054815691 0.491850645 0.472198515 0.681432383
rs6918569:119252111:A:G ENSG00000111877
rs6919100:119252400:A:T:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.290136921 0.112902598 0.494607223
rs6919100:119252400:A:T ENSG00000111877
rs9689589:119253251:T:A:ENSG00000111877 0.35010809 0.039514306
0.121437838 0.491850645 0.54593522 0.726813924
rs9689589:119253251:T:A ENSG00000111877
rs11965951:119253270:C:T:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.406267798 0.363699827 0.562535698
rs11965951:119253270:C:T ENSG00000111877
rs9320669:119253358:G:A:ENSG00000111877 0.333587289 0.039514306
0.090437058 0.486971863 0.525520858 0.672369682
rs9320669:119253358:G:A ENSG00000111877
rs9320670:119253417:G:A:ENSG00000111877 0.328661655 0.039514306
0.054815691 0.484670506 0.498016841 0.663342074
rs9320670:119253417:G:A ENSG00000111877
rs9320671:119253682:G:A:ENSG00000111877 0.18193752 0.039514306
0.054815691 0.276782326 0.198669295 0.487204938
rs9320671:119253682:G:A ENSG00000111877
rs6910782:119254156:T:C:ENSG00000111877 0.253880551 0.039514306
0.054815691 0.326422852 0.266901314 0.52739468
rs6910782:119254156:T:C ENSG00000111877
rs4946369:119254250:A:T:ENSG00000111877 0.18193752 0.039514306
0.054815691 0.276782326 0.198669295 0.487204938
rs4946369:119254250:A:T ENSG00000111877
rs11967231:119254888:C:T:ENSG00000111877 0.311750411 0.039514306
0.054815691 0.476011459 0.498016841 0.66967784
rs11967231:119254888:C:T ENSG00000111877
rs11967232:119254897:C:T:ENSG00000111877 0.175415731 0.039514306
0.054815691 0.276782326 0.198669295 0.501122218
rs11967232:119254897:C:T ENSG00000111877
rs9374759:119254929:T:C:ENSG00000111877 0.311750411 0.039514306
0.054815691 0.472415297 0.498016841 0.66967784
rs9374759:119254929:T:C ENSG00000111877

rs9387610:119255003:A:G:ENSG00000111877 0.18193752 0.039514306
0.054815691 0.276782326 0.198669295 0.487204938
rs9387610:119255003:A:G ENSG00000111877
rs1885125:ENSG00000111877 0.320653282 0.039514306 0.054815691
0.484670506 0.498016841 0.664807456 rs1885125 ENSG00000111877
rs62422266:119256165:A:G:ENSG00000111877 0.18193752 0.039514306
0.054815691 0.276782326 0.198669295 0.487204938
rs62422266:119256165:A:G ENSG00000111877
rs62422267:119256173:C:G:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs62422267:119256173:C:G ENSG00000111877
rs62422268:119256232:G:C:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs62422268:119256232:G:C ENSG00000111877
rs62422269:119256348:T:C:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs62422269:119256348:T:C ENSG00000111877
rs62422270:119256391:G:A:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs62422270:119256391:G:A ENSG00000111877
rs4946370:119256451:T:A:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.406267798 0.363699827 0.562535698
rs4946370:119256451:T:A ENSG00000111877
rs71746056:119256707:CTA:C:ENSG00000111877 0.332523749 0.039514306
0.090437058 0.486971863 0.525520858 0.674365303
rs71746056:119256707:CTA:C ENSG00000111877
rs4946372:119256739:A:C:ENSG00000111877 0.304041304 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs4946372:119256739:A:C ENSG00000111877
rs4946373:119256835:G:A:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs4946373:119256835:G:A ENSG00000111877
rs4946374:119256881:A:C:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.643131518
rs4946374:119256881:A:C ENSG00000111877
rs2145569:119256979:C:T:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.314254491 0.112902598 0.494607223
rs2145569:119256979:C:T ENSG00000111877
rs2145570:119256999:G:A:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs2145570:119256999:G:A ENSG00000111877
rs3945959:119257050:C:G:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs3945959:119257050:C:G ENSG00000111877
rs6939937:119257128:T:C:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.406267798 0.363699827 0.562535698
rs6939937:119257128:T:C ENSG00000111877
rs2180860:119257137:C:G:ENSG00000111877 0.332523749 0.039514306
0.090437058 0.486971863 0.525520858 0.674365303
rs2180860:119257137:C:G ENSG00000111877
rs57580326:119257444:T:TGAA:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs57580326:119257444:T:TGAA ENSG00000111877

rs11378722:119257882:A:AC:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs11378722:119257882:A:AC ENSG00000111877
rs7759423:119257976:G:T:ENSG00000111877 0.312801549 0.039514306
0.054815691 0.466610843 0.455878819 0.652863919
rs7759423:119257976:G:T ENSG00000111877
rs7741149:119258048:T:C:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.390584104 0.311775972 0.569708815
rs7741149:119258048:T:C ENSG00000111877
rs6923771:119258546:C:T:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.643131518
rs6923771:119258546:C:T ENSG00000111877
rs6928315:119258682:C:T:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs6928315:119258682:C:T ENSG00000111877
rs6928945:119259071:A:G:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.406267798 0.363699827 0.562535698
rs6928945:119259071:A:G ENSG00000111877
rs9387611:119259278:G:A:ENSG00000111877 0.332523749 0.039514306
0.090437058 0.486971863 0.525520858 0.674365303
rs9387611:119259278:G:A ENSG00000111877
rs9387612:119259323:G:A:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs9387612:119259323:G:A ENSG00000111877
rs4946376:119259474:C:T:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs4946376:119259474:C:T ENSG00000111877
rs79069475:119259661:T:TG:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.406267798 0.363699827 0.562535698
rs79069475:119259661:T:TG ENSG00000111877
rs4946377:119259818:C:T:ENSG00000111877 0.332523749 0.039514306
0.090437058 0.486971863 0.525520858 0.674365303
rs4946377:119259818:C:T ENSG00000111877
rs4946378:119260030:C:T:ENSG00000111877 0.312801549 0.039514306
0.054815691 0.466610843 0.455878819 0.652863919
rs4946378:119260030:C:T ENSG00000111877
rs4245502:119260151:C:T:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.390584104 0.311775972 0.569708815
rs4245502:119260151:C:T ENSG00000111877
rs6935960:119260280:G:A:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs6935960:119260280:G:A ENSG00000111877
rs11153782:119260855:C:T:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs11153782:119260855:C:T ENSG00000111877
rs6903579:119261734:A:G:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs6903579:119261734:A:G ENSG00000111877
rs6904381:119261916:G:A:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs6904381:119261916:G:A ENSG00000111877
rs7381546:119262082:G:A:ENSG00000111877 0.300053761 0.039514306
0.054815691 0.481611326 0.484480155 0.629719559
rs7381546:119262082:G:A ENSG00000111877

rs7381533:119262175:C:T:ENSG00000111877 0.291376195 0.039514306
0.054815691 0.454179145 0.363699827 0.606678086
rs7381533:119262175:C:T ENSG00000111877
rs7381535:119262275:A:G:ENSG00000111877 0.33585794 0.039514306
0.090437058 0.491850645 0.544223189 0.675892989
rs7381535:119262275:A:G ENSG00000111877
rs1807979:119262776:C:T:ENSG00000111877 0.200359533 0.039514306
0.054815691 0.276782326 0.173591669 0.487204938
rs1807979:119262776:C:T ENSG00000111877
rs6910377:119263141:A:G:ENSG00000111877 0.311750411 0.039514306
0.054815691 0.466610843 0.472198515 0.619162849
rs6910377:119263141:A:G ENSG00000111877
rs34172642:119263336:A:AG:ENSG00000111877 0.248591073 0.039514306
0.054815691 0.390584104 0.371793022 0.56328436
rs34172642:119263336:A:AG ENSG00000111877
rs6933970:119263480:T:C:ENSG00000111877 0.306174368 0.039514306
0.054815691 0.472415297 0.490050927 0.628577259
rs6933970:119263480:T:C ENSG00000111877
rs6916291:119263859:G:T:ENSG00000111877 0.211426254 0.039514306
0.054815691 0.326422852 0.069942274 0.477177495
rs6916291:119263859:G:T ENSG00000111877
rs6916167:119263962:C:A:ENSG00000111877 0.301603763 0.039514306
0.054815691 0.478009532 0.490050927 0.645310165
rs6916167:119263962:C:A ENSG00000111877
rs6916168:119263963:C:T:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.314254491 0.112902598 0.494607223
rs6916168:119263963:C:T ENSG00000111877
rs6916672:119264042:G:A:ENSG00000111877 0.301603763 0.039514306
0.054815691 0.478009532 0.490050927 0.645310165
rs6916672:119264042:G:A ENSG00000111877
rs56022752:119264237:A:G:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.314254491 0.148497947 0.494607223
rs56022752:119264237:A:G ENSG00000111877
rs55978448:119264313:A:G:ENSG00000111877 0.28152348 0.039514306
0.054815691 0.419678998 0.371793022 0.605346151
rs55978448:119264313:A:G ENSG00000111877
rs7758729:119264766:G:A:ENSG00000111877 0.330291618 0.039514306
0.090437058 0.486971863 0.477032507 0.657031972
rs7758729:119264766:G:A ENSG00000111877
rs35225305:119265001:G:GC:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.429269101 0.355219989 0.562535698
rs35225305:119265001:G:GC ENSG00000111877
JHU_6.119265033:ENSG00000111877 0.319232036 0.039514306 0.054815691
0.486971863 0.519536868 0.657031972 JHU_6.119265033 ENSG00000111877
rs7758849:119265105:A:G:ENSG00000111877 0.190392053 0.039514306
0.054815691 0.244282474 0.173591669 0.477177495
rs7758849:119265105:A:G ENSG00000111877
rs7758862:119265131:A:G:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.408307051 0.371793022 0.56162725
rs7758862:119265131:A:G ENSG00000111877
rs9489563:119265260:A:G:ENSG00000111877 0.332523749 0.039514306
0.090437058 0.486971863 0.525520858 0.672369682
rs9489563:119265260:A:G ENSG00000111877

rs6903220:119265525:T:G:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.408307051 0.371793022 0.56162725
rs6903220:119265525:T:G ENSG00000111877
rs6923637:119265560:G:T:ENSG00000111877 0.39944164 0.039514306
0.054815691 0.491850645 0.450253392 0.810897194
rs6923637:119265560:G:T ENSG00000111877
rs6569035:119265887:T:C:ENSG00000111877 0.304041304 0.039514306
0.054815691 0.478009532 0.493250562 0.643131518
rs6569035:119265887:T:C ENSG00000111877
rs6940120:119266455:A:G:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.290136921 0.148497947 0.491393172
rs6940120:119266455:A:G ENSG00000111877
rs6901738:119266634:C:T:ENSG00000111877 0.304041304 0.039514306
0.054815691 0.478009532 0.493250562 0.643131518
rs6901738:119266634:C:T ENSG00000111877
rs9489569:119267025:A:G:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.290136921 0.148497947 0.491393172
rs9489569:119267025:A:G ENSG00000111877
rs9387613:119267138:T:C:ENSG00000111877 0.333587289 0.039514306
0.054815691 0.491850645 0.532319281 0.660124342
rs9387613:119267138:T:C ENSG00000111877
rs35886801:119267266:TCA:T:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.638312381
rs35886801:119267266:TCA:T ENSG00000111877
rs9401103:119267393:T:C:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs9401103:119267393:T:C ENSG00000111877
rs9385060:119267505:C:T:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.406267798 0.363699827 0.562535698
rs9385060:119267505:C:T ENSG00000111877
rs9374763:119267522:A:G:ENSG00000111877 0.332523749 0.039514306
0.090437058 0.486971863 0.525520858 0.674365303
rs9374763:119267522:A:G ENSG00000111877
rs9374764:119267551:G:A:ENSG00000111877 0.340915103 0.039514306
0.090437058 0.491850645 0.538368464 0.709269161
rs9374764:119267551:G:A ENSG00000111877
rs9374765:119267560:A:G:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.387628207 0.311775972 0.556049114
rs9374765:119267560:A:G ENSG00000111877
rs9387614:119267710:C:T:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.408307051 0.381322091 0.56328436
rs9387614:119267710:C:T ENSG00000111877
rs9372517:119267711:A:G:ENSG00000111877 0.336997499 0.039514306
0.090437058 0.491850645 0.526407644 0.674365303
rs9372517:119267711:A:G ENSG00000111877
rs9374766:119267799:A:G:ENSG00000111877 0.343365679 0.039514306
0.090437058 0.492233123 0.54593522 0.710464737
rs9374766:119267799:A:G ENSG00000111877
rs9968863:119267939:A:C:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.395341642 0.340307796 0.556049114
rs9968863:119267939:A:C ENSG00000111877
rs9374767:119268073:G:A:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.643131518
rs9374767:119268073:G:A ENSG00000111877

rs4946380:119268356:G:A:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.491393172
rs4946380:119268356:G:A ENSG00000111877
rs77458334:119268429:TATC:T:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.643131518
rs77458334:119268429:TATC:T ENSG00000111877
rs4946381:119268590:G:A:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.491393172
rs4946381:119268590:G:A ENSG00000111877
rs9489570:119268798:G:T:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.643131518
rs9489570:119268798:G:T ENSG00000111877
rs58360072:119269206:C:T:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.491393172
rs58360072:119269206:C:T ENSG00000111877
rs11759256:119269247:C:T:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.638312381
rs11759256:119269247:C:T ENSG00000111877
rs9385061:119269426:T:C:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.491393172
rs9385061:119269426:T:C ENSG00000111877
rs11754618:119269489:A:G:ENSG00000111877 0.271758927 0.039514306
0.054815691 0.406267798 0.363699827 0.562535698
rs11754618:119269489:A:G ENSG00000111877
rs9387617:119270783:G:A:ENSG00000111877 0.332523749 0.039514306
0.090437058 0.486971863 0.525520858 0.674365303
rs9387617:119270783:G:A ENSG00000111877
rs9401104:119271206:A:G:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs9401104:119271206:A:G ENSG00000111877
rs9401105:119271274:A:G:ENSG00000111877 0.215796307 0.039514306
0.054815691 0.301206855 0.112902598 0.494607223
rs9401105:119271274:A:G ENSG00000111877
rs6932466:119271820:C:G:ENSG00000111877 0.297292124 0.039514306
0.054815691 0.481611326 0.498016841 0.638312381
rs6932466:119271820:C:G ENSG00000111877
rs139612448:119273014:CTTGAT:C:ENSG00000111877 0.215796307
0.039514306 0.054815691 0.301206855 0.148497947 0.494607223
rs139612448:119273014:CTTGAT:C ENSG00000111877
rs79855181:119273025:G:A:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs79855181:119273025:G:A ENSG00000111877
rs9385063:119273111:C:A:ENSG00000111877 0.326821943 0.039514306
0.054815691 0.276782326 0.388754065 0.6481702
rs9385063:119273111:C:A ENSG00000111877
rs9401106:119273588:T:A:ENSG00000111877 0.305615864 0.039514306
0.054815691 0.478009532 0.493250562 0.640308963
rs9401106:119273588:T:A ENSG00000111877
rs9402289:131148486:C:T:ENSG00000256162 0.22504072 0.039514306
0.568513848 0.072575018 0.429827068 0.813853703
rs9402289:131148486:C:T ENSG00000256162
rs9388856:131148863:A:T:ENSG00000256162 0.22504072 0.039514306
0.568513848 0.072575018 0.429827068 0.813853703
rs9388856:131148863:A:T ENSG00000256162

rs612852:160693055:T:A:ENSG00000230234 0.035322296 0.089622533
0.767962809 0.401539023 0.410008196 0.468334324
rs612852:160693055:T:A ENSG00000230234
rs497039:160693213:G:C:ENSG00000230234 0.035322296 0.229789644
0.812077641 0.459055393 0.484480155 0.532059322
rs497039:160693213:G:C ENSG00000230234
rs611950:160693266:C:G:ENSG00000230234 0.035322296 0.039514306
0.739251903 0.301206855 0.251839208 0.347302535
rs611950:160693266:C:G ENSG00000230234
rs599507:160693727:A:G:ENSG00000230234 0.035322296 0.039514306
0.721465596 0.333474506 0.279727316 0.369977602
rs599507:160693727:A:G ENSG00000230234
rs599494:160693736:G:C:ENSG00000230234 0.035322296 0.089622533
0.767962809 0.401539023 0.410008196 0.468334324
rs599494:160693736:G:C ENSG00000230234
rs598969:160693906:C:T:ENSG00000230234 0.035322296 0.229789644
0.812077641 0.459055393 0.484480155 0.532059322
rs598969:160693906:C:T ENSG00000230234
rs598135:ENSG00000230234 0.035322296 0.039514306 0.739251903
0.301206855 0.251839208 0.347302535 rs598135 ENSG00000230234
rs554811:160694952:C:T:ENSG00000230234 0.035322296 0.039514306
0.689151367 0.326422852 0.279727316 0.358316132
rs554811:160694952:C:T ENSG00000230234
rs582280:160695270:A:G:ENSG00000230234 0.035322296 0.145249232
0.772899639 0.395341642 0.395007577 0.447199093
rs582280:160695270:A:G ENSG00000230234
rs581836:160695320:A:G:ENSG00000230234 0.035322296 0.240653097
0.818979265 0.484670506 0.525520858 0.549252346
rs581836:160695320:A:G ENSG00000230234
rs472478:160695677:T:C:ENSG00000230234 0.035322296 0.039514306
0.739251903 0.301206855 0.251839208 0.347302535
rs472478:160695677:T:C ENSG00000230234
rs473341:160695773:C:G:ENSG00000230234 0.035322296 0.039514306
0.721465596 0.326422852 0.279727316 0.369977602
rs473341:160695773:C:G ENSG00000230234
rs478112:160696318:G:T:ENSG00000230234 0.035322296 0.089622533
0.756966764 0.399004389 0.395007577 0.464247637
rs478112:160696318:G:T ENSG00000230234
rs662421:160696828:C:T:ENSG00000230234 0.035322296 0.229789644
0.786960718 0.438119062 0.450253392 0.522761587
rs662421:160696828:C:T ENSG00000230234
6:167680715:T:G:ENSG00000130396 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 6:167680715:T:G ENSG00000130396
rs3779357:8298523:A:G:ENSG00000003147 0.175415731 0.039514306
0.054815691 0.072575018 0.595947504 0.269135872 rs3779357:8298523:A:G
ENSG00000003147
rs3779356:ENSG00000003147 0.18193752 0.039514306 0.054815691
0.072575018 0.595947504 0.269135872 rs3779356 ENSG00000003147
rs145228098:ENSG00000146666 0.205647498 0.039514306 0.222302049
0.226823504 0.148497947 0.464247637 rs145228098 ENSG00000146666
rs816250:56221069:G:A:ENSG00000226278 0.441365231 0.039514306
0.568513848 0.558498626 0.504458419 0.681432383 rs816250:56221069:G:A
ENSG00000226278

rs34384912:56225720:AT:A:ENSG00000226278 0.498191818 0.039514306
0.548514013 0.512101623 0.198669295 0.566496688
rs34384912:56225720:AT:A ENSG00000226278
rs150192681:65681261:ATTACTGATTTTCATAATTGAGTCTTCTCTCTT:A:ENSG00000231234
0.035322296 0.567182881 0.515964 0.637390127 0.825258108
0.511827661
rs150192681:65681261:ATTACTGATTTTCATAATTGAGTCTTCTCTCTT:A
ENSG00000231234
rs6952182:65683317:T:G:ENSG00000179406 0.117465891 0.039514306
0.054815691 0.072575018 0.069942274 0.447199093
rs6952182:65683317:T:G ENSG00000179406
rs6952182:65683317:T:G:ENSG00000231234 0.035322296 0.502579396
0.731144493 0.558498626 0.9305498 0.140342165
rs6952182:65683317:T:G ENSG00000231234
rs10272149:65684132:G:A:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.295623551
rs10272149:65684132:G:A ENSG00000179406
rs6963646:65685767:T:C:ENSG00000179406 0.271758927 0.039514306
0.054815691 0.072575018 0.069942274 0.471730191
rs6963646:65685767:T:C ENSG00000179406
rs6964437:65686444:A:G:ENSG00000179406 0.117465891 0.039514306
0.054815691 0.072575018 0.069942274 0.447199093
rs6964437:65686444:A:G ENSG00000179406
rs28682868:65689809:C:T:ENSG00000179406 0.271758927 0.039514306
0.054815691 0.072575018 0.069942274 0.471730191
rs28682868:65689809:C:T ENSG00000179406
rs138088816:65690580:C:CAGAG:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.467974804
rs138088816:65690580:C:CAGAG ENSG00000179406
rs368405526:65692015:C:CTTTTTTTT:ENSG00000179406 0.035322296
0.039514306 0.054815691 0.072575018 0.069942274 0.468334324
rs368405526:65692015:C:CTTTTTTTT ENSG00000179406
rs4718328:65693337:A:G:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.468334324
rs4718328:65693337:A:G ENSG00000179406
rs138232372:65708928:ATT:A:ENSG00000179406 0.035322296 0.12731097
0.054815691 0.072575018 0.069942274 0.201281701
rs138232372:65708928:ATT:A ENSG00000179406
rs4718330:65715243:G:A:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.441545027
rs4718330:65715243:G:A ENSG00000179406
rs12537823:65720884:A:G:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.441545027
rs12537823:65720884:A:G ENSG00000179406
rs10282433:65721439:G:A:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.441545027
rs10282433:65721439:G:A ENSG00000179406
JHU_7.65726614:ENSG00000179406 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.441545027 JHU_7.65726614 ENSG00000179406
rs6960476:65733113:T:C:ENSG00000179406 0.23344096 0.039514306
0.054815691 0.072575018 0.069942274 0.457928806
rs6960476:65733113:T:C ENSG00000179406

rs6971752:65737986:G:A:ENSG00000179406 0.035322296 0.066642396
0.054815691 0.072575018 0.069942274 0.460921055
rs6971752:65737986:G:A ENSG00000179406
rs10950033:65739673:A:G:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.477177495
rs10950033:65739673:A:G ENSG00000179406
rs11760844:65739883:C:G:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.4815871
rs11760844:65739883:C:G ENSG00000179406
rs10257427:65743208:T:C:ENSG00000179406 0.271758927 0.039514306
0.054815691 0.072575018 0.069942274 0.491393172
rs10257427:65743208:T:C ENSG00000179406
rs4149461:65744732:T:C:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.4815871
rs4149461:65744732:T:C ENSG00000179406
rs778714:65849402:A:T:ENSG00000231234 0.035322296 0.65775398
0.464882715 0.716753308 0.690981753 0.813853703 rs778714:65849402:A:T
ENSG00000231234
7:66027353:C:CAGTGAGTGG:ENSG00000179406 0.035322296 0.12731097
0.054815691 0.072575018 0.069942274 0.590052663
7:66027353:C:CAGTGAGTGG ENSG00000179406
rs7793723:66086655:T:C:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.468334324
rs7793723:66086655:T:C ENSG00000179406
rs4718436:66451738:G:T:ENSG00000179406 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.510329036
rs4718436:66451738:G:T ENSG00000179406
rs9691413:73247204:G:A:ENSG00000165171 0.035322296 0.12731097
0.528262409 0.751091602 0.949680124 0.813853703
rs9691413:73247204:G:A ENSG00000165171
rs4286826:73248586:C:T:ENSG00000165171 0.035322296 0.110495165
0.495886418 0.723001209 0.948913883 0.813853703
rs4286826:73248586:C:T ENSG00000165171
rs13246460:73249165:T:A:ENSG00000165171 0.035322296 0.039514306 0.42239248
0.720321711 0.947231409 0.813853703 rs13246460:73249165:T:A
ENSG00000165171
rs12704986:97986430:T:C:ENSG00000164713 0.132837758 0.039514306
0.671106111 0.333474506 0.288162171 0.503271951
rs12704986:97986430:T:C ENSG00000164713
rs886620:98874368:T:C:ENSG00000106258 0.146968287 0.039514306
0.398350929 0.276782326 0.355219989 0.108665807 rs886620:98874368:T:C
ENSG00000106258
rs60612724:98874892:A:G:ENSG00000106258 0.146968287 0.039514306
0.269469279 0.333474506 0.279727316 0.140342165
rs60612724:98874892:A:G ENSG00000106258
rs10238028:99208899:A:G:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs10238028:99208899:A:G ENSG00000106258
rs7808022:99220083:A:C:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7808022:99220083:A:C ENSG00000106258
rs13362853:99223147:T:C:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs13362853:99223147:T:C ENSG00000106258

JHU_7.99223958:ENSG00000106258 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 JHU_7.99223958 ENSG00000106258
exm2258543:ENSG00000106258 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 exm2258543 ENSG00000106258
rs3735453:99229435:T:C:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3735453:99229435:T:C ENSG00000106258
rs10229552:99234899:T:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.112902598 0.063994875
rs10229552:99234899:T:A ENSG00000106258
rs6465750:99235522:C:T:ENSG00000106258 0.117465891 0.039514306
0.054815691 0.165229468 0.445056985 0.063994875
rs6465750:99235522:C:T ENSG00000106258
rs10242455:ENSG00000106258 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 rs10242455 ENSG00000106258
7:99245080-A-C:ENSG00000106258 0.035322296 0.039514306 0.054815691
0.072575018 0.395007577 0.063994875 7:99245080-A-C ENSG00000106258
rs15524:ENSG00000106258 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 rs15524 ENSG00000106258
rs12334077:99251868:A:C:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.148497947 0.063994875
rs12334077:99251868:A:C ENSG00000106258
rs12333599:99252179:G:C:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs12333599:99252179:G:C ENSG00000106258
rs147777800:99253977:G:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs147777800:99253977:G:A ENSG00000106258
rs10227637:99255760:A:G:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs10227637:99255760:A:G ENSG00000106258
rs7780328:99256844:A:G:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7780328:99256844:A:G ENSG00000106258
rs10258552:99257419:T:C:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs10258552:99257419:T:C ENSG00000106258
7:99270539-C-T:ENSG00000106258 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 7:99270539-C-T ENSG00000106258
rs776739:99283696:T:C:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs776739:99283696:T:C
ENSG00000106258
rs776745:99291337:T:G:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs776745:99291337:T:G
ENSG00000106258
rs776744:99292047:C:T:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs776744:99292047:C:T
ENSG00000106258
rs11353593:99292208:TG:T:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs11353593:99292208:TG:T ENSG00000106258
rs61017966:99292379:CCA:C:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs61017966:99292379:CCA:C ENSG00000106258

rs776742:99292755:C:T:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs776742:99292755:C:T
ENSG00000106258

rs2740565:99293475:T:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2740565:99293475:T:A ENSG00000106258

rs2687087:99294472:G:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2687087:99294472:G:A ENSG00000106258

rs1879859:99294762:C:T:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs1879859:99294762:C:T ENSG00000106258

rs2687086:99295450:C:T:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2687086:99295450:C:T ENSG00000106258

JHU_7.99295692:ENSG00000106258 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 JHU_7.99295692 ENSG00000106258

rs10629992:99295703:C:CTGTT:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs10629992:99295703:C:CTGTT ENSG00000106258

rs1818797:99296195:G:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs1818797:99296195:G:A ENSG00000106258

rs2687085:99296686:A:G:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2687085:99296686:A:G ENSG00000106258

rs2948344:99297011:G:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2948344:99297011:G:A ENSG00000106258

rs2948343:99297019:G:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2948343:99297019:G:A ENSG00000106258

rs2177180:99297804:C:T:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2177180:99297804:C:T ENSG00000106258

rs2687084:99298132:C:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2687084:99298132:C:A ENSG00000106258

rs56061748:99299558:CTT:C:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs56061748:99299558:CTT:C ENSG00000106258

rs1851425:99300231:G:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs1851425:99300231:G:A ENSG00000106258

rs2687081:ENSG00000106258 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 rs2687081 ENSG00000106258

rs2740563:99302113:T:C:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2740563:99302113:T:C ENSG00000106258

rs10211:ENSG00000106258 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 rs10211 ENSG00000106258

rs12360:99303094:G:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs12360:99303094:G:A
ENSG00000106258

rs4646465:99304524:A:G:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs4646465:99304524:A:G ENSG00000106258
rs2687079:99304618:T:A:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2687079:99304618:T:A ENSG00000106258
rs2687078:99304712:C:T:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2687078:99304712:C:T ENSG00000106258
rs1403196:99306321:G:T:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs1403196:99306321:G:T ENSG00000106258
rs145102165:99309404:A:AAAC:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs145102165:99309404:A:AAAC ENSG00000106258
rs2687135:99326309:T:G:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2687135:99326309:T:G ENSG00000106258
rs2687134:ENSG00000106258 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 rs2687134 ENSG00000106258
rs2687133:99332083:C:T:ENSG00000106258 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2687133:99332083:C:T ENSG00000106258
rs6963623:99348244:A:T:ENSG00000244219 0.035322296 0.514230442
0.390230616 0.244282474 0.54593522 0.550290331
rs6963623:99348244:A:T ENSG00000244219
rs6945984:99348328:T:C:ENSG00000106258 0.117465891 0.039514306
0.054815691 0.326422852 0.455878819 0.108665807
rs6945984:99348328:T:C ENSG00000106258
rs113394776:99351463:A:G:ENSG00000244219 0.035322296 0.514230442
0.390230616 0.244282474 0.54593522 0.553258882
rs113394776:99351463:A:G ENSG00000244219
rs28878860:99352020:A:G:ENSG00000106258 0.146968287 0.039514306
0.054815691 0.290136921 0.279727316 0.063994875
rs28878860:99352020:A:G ENSG00000106258
rs3991809:99352766:G:T:ENSG00000106258 0.146968287 0.039514306
0.054815691 0.290136921 0.279727316 0.063994875
rs3991809:99352766:G:T ENSG00000106258
rs2404955:99353279:G:A:ENSG00000106258 0.117465891 0.039514306
0.054815691 0.326422852 0.455878819 0.108665807
rs2404955:99353279:G:A ENSG00000106258
rs12333983:99354114:T:A:ENSG00000106258 0.146968287 0.039514306
0.054815691 0.290136921 0.279727316 0.063994875
rs12333983:99354114:T:A ENSG00000106258
rs3735451:ENSG00000106258 0.117465891 0.039514306 0.054815691
0.326422852 0.455878819 0.108665807 rs3735451 ENSG00000106258
rs28988598:99357047:GCA:G:ENSG00000106258 0.243759522 0.039514306
0.054815691 0.406267798 0.403448628 0.063994875
rs28988598:99357047:GCA:G ENSG00000106258
rs4609128:102662540:A:G:ENSG00000170632 0.035322296 0.039514306
0.571157005 0.387628207 0.069942274 0.063994875
rs4609128:102662540:A:G ENSG00000170632

rs952879:102666696:C:T:ENSG00000170632 0.100009087 0.039514306
0.728288658 0.478009532 0.069942274 0.063994875
rs952879:102666696:C:T ENSG00000170632
rs1404213:102716915:G:A:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.244282474 0.069942274 0.063994875
rs1404213:102716915:G:A ENSG00000170632
rs146660143:102717291:AAAAC:A:ENSG00000170632 0.035322296 0.039514306
0.531748779 0.276782326 0.069942274 0.063994875
rs146660143:102717291:AAAAC:A ENSG00000170632
rs6979140:102717530:T:C:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.072575018 0.069942274 0.063994875
rs6979140:102717530:T:C ENSG00000170632
rs10808122:102721980:T:C:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.301206855 0.148497947 0.063994875
rs10808122:102721980:T:C ENSG00000170632
JHU_7.102722158:ENSG00000170632 0.035322296 0.039514306 0.568513848
0.314254491 0.148497947 0.063994875 JHU_7.102722158 ENSG00000170632
rs11451142:102722954:T:TA:ENSG00000170632 0.035322296 0.039514306
0.618696386 0.429269101 0.251839208 0.063994875
rs11451142:102722954:T:TA ENSG00000170632
rs112008759:102725605:A:AGAGTAG:ENSG00000170632 0.035322296
0.039514306 0.531748779 0.276782326 0.069942274 0.063994875
rs112008759:102725605:A:AGAGTAG ENSG00000170632
rs60318301:102731429:A:AT:ENSG00000170632 0.035322296 0.039514306
0.560108139 0.276782326 0.069942274 0.063994875
rs60318301:102731429:A:AT ENSG00000170632
rs11317843:102732701:AC:A:ENSG00000170632 0.035322296 0.039514306
0.531748779 0.276782326 0.069942274 0.063994875
rs11317843:102732701:AC:A ENSG00000170632
rs1861730:102734600:G:T:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.301206855 0.148497947 0.063994875
rs1861730:102734600:G:T ENSG00000170632
rs4729878:102735886:C:T:ENSG00000170632 0.035322296 0.039514306
0.531748779 0.276782326 0.069942274 0.063994875
rs4729878:102735886:C:T ENSG00000170632
rs10953378:102736394:G:T:ENSG00000170632 0.035322296 0.039514306
0.63054575 0.379688866 0.266901314 0.063994875
rs10953378:102736394:G:T ENSG00000170632
rs2041949:102737251:C:A:ENSG00000170632 0.035322296 0.039514306
0.580001614 0.326422852 0.148497947 0.063994875
rs2041949:102737251:C:A ENSG00000170632
rs2193418:102737411:A:G:ENSG00000170632 0.035322296 0.039514306
0.617968597 0.379688866 0.069942274 0.063994875
rs2193418:102737411:A:G ENSG00000170632
rs13226097:102737947:A:G:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.072575018 0.069942274 0.063994875
rs13226097:102737947:A:G ENSG00000170632
rs1861728:102738400:A:T:ENSG00000170632 0.035322296 0.039514306
0.531748779 0.276782326 0.069942274 0.063994875
rs1861728:102738400:A:T ENSG00000170632
rs10808123:102738574:A:C:ENSG00000170632 0.035322296 0.039514306
0.531748779 0.276782326 0.069942274 0.063994875
rs10808123:102738574:A:C ENSG00000170632

rs6950177:ENSG00000170632 0.035322296 0.039514306 0.443593462
0.072575018 0.069942274 0.063994875 rs6950177 ENSG00000170632
rs7783856:102741034:A:G:ENSG00000170632 0.035322296 0.066642396
0.568366244 0.276782326 0.112902598 0.063994875
rs7783856:102741034:A:G ENSG00000170632
rs7784337:102741093:G:A:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.072575018 0.069942274 0.063994875
rs7784337:102741093:G:A ENSG00000170632
rs6976034:102745350:A:C:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.326422852 0.148497947 0.063994875
rs6976034:102745350:A:C ENSG00000170632
rs10808126:102746155:G:A:ENSG00000170632 0.060909118 0.039514306
0.575705306 0.314254491 0.148497947 0.063994875
rs10808126:102746155:G:A ENSG00000170632
rs10808127:102747696:C:A:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.333474506 0.148497947 0.063994875
rs10808127:102747696:C:A ENSG00000170632
rs6959711:102747901:G:A:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.314254491 0.173591669 0.063994875
rs6959711:102747901:G:A ENSG00000170632
rs2411078:102748654:G:A:ENSG00000170632 0.035322296 0.039514306
0.618696386 0.399004389 0.112902598 0.063994875
rs2411078:102748654:G:A ENSG00000170632
rs4294127:102748680:C:T:ENSG00000170632 0.035322296 0.039514306
0.618696386 0.406267798 0.112902598 0.063994875
rs4294127:102748680:C:T ENSG00000170632
rs6465891:102748834:C:A:ENSG00000170632 0.035322296 0.039514306
0.545428271 0.276782326 0.069942274 0.063994875
rs6465891:102748834:C:A ENSG00000170632
rs6465892:102748879:C:T:ENSG00000170632 0.035322296 0.039514306
0.458471274 0.072575018 0.069942274 0.063994875
rs6465892:102748879:C:T ENSG00000170632
rs6465893:102748917:A:T:ENSG00000170632 0.035322296 0.039514306
0.548514013 0.276782326 0.069942274 0.063994875
rs6465893:102748917:A:T ENSG00000170632
rs4295594:102749131:C:T:ENSG00000170632 0.035322296 0.039514306
0.548514013 0.276782326 0.069942274 0.063994875
rs4295594:102749131:C:T ENSG00000170632
rs79266970:102750327:A:G:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.333474506 0.148497947 0.063994875
rs79266970:102750327:A:G ENSG00000170632
rs9649257:102750932:A:G:ENSG00000170632 0.035322296 0.039514306
0.458471274 0.072575018 0.069942274 0.063994875
rs9649257:102750932:A:G ENSG00000170632
rs4374923:102751553:G:C:ENSG00000170632 0.035322296 0.039514306
0.545428271 0.276782326 0.069942274 0.063994875
rs4374923:102751553:G:C ENSG00000170632
rs1968198:102753856:A:G:ENSG00000170632 0.035322296 0.039514306 0.59314904
0.333474506 0.148497947 0.063994875 rs1968198:102753856:A:G
ENSG00000170632
rs149148671:102754090:TTTC:T:ENSG00000170632 0.035322296 0.039514306
0.492105461 0.072575018 0.069942274 0.063994875
rs149148671:102754090:TTTC:T ENSG00000170632

rs7792240:102754943:C:T:ENSG00000170632 0.060909118 0.039514306
0.572955873 0.301206855 0.148497947 0.063994875
rs7792240:102754943:C:T ENSG00000170632
rs4729882:102755330:A:G:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.333474506 0.148497947 0.063994875
rs4729882:102755330:A:G ENSG00000170632
rs7801602:102756540:A:G:ENSG00000170632 0.035322296 0.039514306 0.48190184
0.072575018 0.069942274 0.063994875 rs7801602:102756540:A:G
ENSG00000170632
rs7801969:102756545:G:A:ENSG00000170632 0.035322296 0.039514306
0.617968597 0.401539023 0.148497947 0.063994875
rs7801969:102756545:G:A ENSG00000170632
rs1477163:102757434:C:T:ENSG00000170632 0.035322296 0.039514306
0.618696386 0.408307051 0.173591669 0.063994875
rs1477163:102757434:C:T ENSG00000170632
rs6966961:102758051:T:C:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.333474506 0.069942274 0.063994875
rs6966961:102758051:T:C ENSG00000170632
rs6946968:102758084:C:T:ENSG00000170632 0.035322296 0.039514306
0.568513848 0.340834261 0.069942274 0.063994875
rs6946968:102758084:C:T ENSG00000170632
rs1558853:102760774:A:T:ENSG00000170632 0.035322296 0.066642396
0.531748779 0.123210094 0.069942274 0.063994875
rs1558853:102760774:A:T ENSG00000170632
rs7801094:102783075:T:C:ENSG00000170632 0.035322296 0.039514306
0.398350929 0.123210094 0.069942274 0.063994875
rs7801094:102783075:T:C ENSG00000170632
rs1968197:102785441:C:T:ENSG00000170632 0.035322296 0.039514306
0.297111757 0.072575018 0.069942274 0.063994875
rs1968197:102785441:C:T ENSG00000170632
rs6966876:102791342:A:C:ENSG00000170632 0.100009087 0.039514306 0.14398786
0.197042097 0.069942274 0.063994875 rs6966876:102791342:A:C
ENSG00000170632
rs4480047:102799053:C:A:ENSG00000170632 0.035322296 0.039514306
0.531748779 0.226823504 0.069942274 0.063994875
rs4480047:102799053:C:A ENSG00000170632
rs4428604:102799211:A:G:ENSG00000170632 0.100009087 0.039514306
0.557353332 0.314254491 0.069942274 0.063994875
rs4428604:102799211:A:G ENSG00000170632
rs1861731:ENSG00000170632 0.060909118 0.039514306 0.351078567
0.123210094 0.069942274 0.063994875 rs1861731 ENSG00000170632
rs1968202:102800426:A:G:ENSG00000170632 0.035322296 0.039514306
0.269469279 0.072575018 0.069942274 0.063994875
rs1968202:102800426:A:G ENSG00000170632
rs11768828:102810717:A:G:ENSG00000170632 0.146968287 0.039514306
0.400191924 0.244282474 0.069942274 0.063994875
rs11768828:102810717:A:G ENSG00000170632
rs9692089:102816445:T:C:ENSG00000170632 0.100009087 0.039514306
0.406502841 0.276782326 0.069942274 0.063994875
rs9692089:102816445:T:C ENSG00000170632
rs3987890:102868889:C:CTA:ENSG00000170632 0.035322296 0.039514306
0.238368074 0.197042097 0.069942274 0.063994875
rs3987890:102868889:C:CTA ENSG00000170632

rs1968196:102881492:G:A:ENSG00000170632 0.035322296 0.039514306
0.269469279 0.123210094 0.069942274 0.063994875
rs1968196:102881492:G:A ENSG00000170632
rs3864442:102881900:C:T:ENSG00000170632 0.035322296 0.039514306
0.255451763 0.123210094 0.069942274 0.063994875
rs3864442:102881900:C:T ENSG00000170632
rs10268112:102883235:G:T:ENSG00000170632 0.035322296 0.039514306
0.515964 0.301206855 0.148497947 0.063994875
rs10268112:102883235:G:T ENSG00000170632
rs10271013:102883362:C:G:ENSG00000170632 0.162871942 0.039514306
0.406502841 0.350892299 0.069942274 0.108665807
rs10271013:102883362:C:G ENSG00000170632
rs10234905:102899403:G:C:ENSG00000170632 0.060909118 0.039514306
0.324917292 0.244282474 0.069942274 0.063994875
rs10234905:102899403:G:C ENSG00000170632
rs7780642:102928412:G:A:ENSG00000170632 0.035322296 0.039514306
0.255451763 0.165229468 0.069942274 0.063994875
rs7780642:102928412:G:A ENSG00000170632
rs2878:102953621:A:G:ENSG00000170632 0.060909118 0.039514306
0.351078567 0.276782326 0.069942274 0.063994875 rs2878:102953621:A:G
ENSG00000170632
rs6971734:102959379:T:C:ENSG00000170632 0.035322296 0.039514306
0.269469279 0.123210094 0.069942274 0.063994875
rs6971734:102959379:T:C ENSG00000170632
rs7810558:102961155:T:C:ENSG00000170632 0.035322296 0.039514306
0.406502841 0.244282474 0.069942274 0.063994875
rs7810558:102961155:T:C ENSG00000170632
rs11354875:102966194:TA:T:ENSG00000170632 0.035322296 0.039514306
0.360243455 0.123210094 0.069942274 0.063994875
rs11354875:102966194:TA:T ENSG00000170632
rs10245155:102968491:T:C:ENSG00000170632 0.035322296 0.039514306
0.20393713 0.072575018 0.069942274 0.063994875
rs10245155:102968491:T:C ENSG00000170632
rs10257369:102971399:T:C:ENSG00000170632 0.035322296 0.039514306
0.238368074 0.165229468 0.069942274 0.063994875
rs10257369:102971399:T:C ENSG00000170632
rs10266523:ENSG00000170632 0.146968287 0.039514306 0.400191924
0.326422852 0.069942274 0.063994875 rs10266523 ENSG00000170632
rs2179375:171315646:T:C:ENSG00000076258 0.550074345 0.039514306
0.828327833 0.650583802 0.54593522 0.813853703
rs2179375:171315646:T:C ENSG00000076258
rs6425167:171316890:C:T:ENSG00000076258 0.550074345 0.039514306
0.828327833 0.650583802 0.54593522 0.813853703
rs6425167:171316890:C:T ENSG00000076258
rs10912830:171320395:A:T:ENSG00000076258 0.561800148 0.039514306
0.853698456 0.687059708 0.734695661 0.813853703
rs10912830:171320395:A:T ENSG00000076258
rs1024173:171322798:C:T:ENSG00000076258 0.550074345 0.039514306
0.828327833 0.650583802 0.54593522 0.813853703
rs1024173:171322798:C:T ENSG00000076258
rs6425192:171327628:T:C:ENSG00000076258 0.550398865 0.039514306
0.828327833 0.651493039 0.54593522 0.813853703
rs6425192:171327628:T:C ENSG00000076258

rs6425194:171328083:T:C:ENSG00000076258 0.550398865 0.039514306
0.828327833 0.651493039 0.54593522 0.813853703
rs6425194:171328083:T:C ENSG00000076258
rs12760795:171328768:G:T:ENSG00000076258 0.512985696 0.039514306
0.828327833 0.730273051 0.429827068 0.813853703
rs12760795:171328768:G:T ENSG00000076258
rs10912833:171329277:A:G:ENSG00000076258 0.560302816 0.039514306
0.848201897 0.704092316 0.776230732 0.817031352
rs10912833:171329277:A:G ENSG00000076258
rs36145221:171334793:CTGTA:C:ENSG00000076258 0.550820935 0.039514306
0.828327833 0.651493039 0.54593522 0.813853703
rs36145221:171334793:CTGTA:C ENSG00000076258
rs10912842:171334827:C:G:ENSG00000076258 0.562868445 0.039514306
0.84654092 0.703384182 0.776230732 0.822297613
rs10912842:171334827:C:G ENSG00000076258
rs5778699:171353719:CTTT:C:ENSG00000076258 0.551743956 0.039514306
0.828327833 0.6524842 0.54593522 0.813853703
rs5778699:171353719:CTTT:C ENSG00000076258
rs71537927:149982877:C:T:ENSG00000106526 0.035322296 0.240653097
0.42786084 0.314254491 0.069942274 0.24867752
rs71537927:149982877:C:T ENSG00000106526
rs2286450:ENSG00000106526 0.035322296 0.272806835 0.454299825
0.301206855 0.069942274 0.225997306 rs2286450 ENSG00000106526
rs28634863:149983565:T:C:ENSG00000106526 0.035322296 0.33968813
0.351078567 0.276782326 0.069942274 0.282646046
rs28634863:149983565:T:C ENSG00000106526
rs2923448:42406008:G:A:ENSG00000254165 0.190392053 0.039514306
0.828327833 0.764871209 0.900250513 0.063994875
rs2923448:42406008:G:A ENSG00000254165
rs7838421:71672323:A:C:ENSG00000221947 0.035322296 0.661628136 0.515964
0.072575018 0.363699827 0.063994875 rs7838421:71672323:A:C
ENSG00000221947
rs78020896:105525228:G:A:ENSG00000147650 0.211426254 0.039514306
0.054815691 0.454179145 0.925966036 0.108665807
rs78020896:105525228:G:A ENSG00000147650
rs4928693:143469813:T:C:ENSG00000171045 0.573203009 0.039514306
0.664963743 0.671388768 0.9305498 0.813853703
rs4928693:143469813:T:C ENSG00000171045
rs10112213:143471654:G:T:ENSG00000171045 0.585881681 0.039514306
0.613735952 0.707827228 0.9305498 0.79451053
rs10112213:143471654:G:T ENSG00000171045
rs28481982:143477967:C:G:ENSG00000171045 0.584140143 0.039514306
0.668344684 0.595546163 0.941513467 0.840209939
rs28481982:143477967:C:G ENSG00000171045
rs896933:144615201:T:C:ENSG00000254859 0.035322296 0.145249232
0.054815691 0.481611326 0.069942274 0.063994875
rs896933:144615201:T:C ENSG00000254859
rs58288565:144631031:A:G:ENSG00000014164 0.035322296 0.682012197
0.760866298 0.751091602 0.328523647 0.813853703
rs58288565:144631031:A:G ENSG00000014164
rs35228013:144631474:A:G:ENSG00000014164 0.035322296 0.681686309
0.777393854 0.751091602 0.355219989 0.813853703
rs35228013:144631474:A:G ENSG00000014164

rs619380:17302341:A:G:ENSG00000044459 0.18193752 0.039514306
0.798594848 0.466610843 0.694942942 0.063994875 rs619380:17302341:A:G
ENSG00000044459
rs140957588:17344148:GTTTAT:G:ENSG00000044459 0.196140407 0.039514306
0.7518355 0.491850645 0.690981753 0.063994875
rs140957588:17344148:GTTTAT:G ENSG00000044459
rs10121841:ENSG00000044459 0.260395929 0.039514306 0.819328396
0.558498626 0.690981753 0.063994875 rs10121841 ENSG00000044459
rs4961555:17385348:C:T:ENSG00000044459 0.196140407 0.039514306
0.828327833 0.558498626 0.749667392 0.063994875
rs4961555:17385348:C:T ENSG00000044459
rs10123109:17391173:A:G:ENSG00000044459 0.228236375 0.039514306
0.828327833 0.558498626 0.731951824 0.063994875
rs10123109:17391173:A:G ENSG00000044459
rs66533367:34311657:TAC:T:ENSG00000164978 0.035322296 0.159643516
0.655792554 0.358702521 0.54593522 0.469127215
rs66533367:34311657:TAC:T ENSG00000164978
rs138430482:44168848:G:A:ENSG00000236816 0.035322296 0.651399716
0.61437749 0.645312868 0.429827068 0.457928806
rs138430482:44168848:G:A ENSG00000236816
rs28404900:44185058:A:G:ENSG00000170165 0.035322296 0.538459161 0.14398786
0.459055393 0.069942274 0.201281701 rs28404900:44185058:A:G
ENSG00000170165
rs28404900:44185058:A:G:ENSG00000236816 0.035322296 0.654488658
0.679533134 0.703018054 0.629639249 0.640308963
rs28404900:44185058:A:G ENSG00000236816
rs192687885:44215352:T:A:ENSG00000236816 0.035322296 0.639358547
0.579532834 0.617868032 0.355219989 0.441545027
rs192687885:44215352:T:A ENSG00000236816
rs28673370:44224263:A:G:ENSG00000236816 0.035322296 0.621583901
0.576180386 0.617124137 0.328523647 0.390568128
rs28673370:44224263:A:G ENSG00000236816
rs28418462:44227510:G:A:ENSG00000236816 0.035322296 0.651399716
0.618696386 0.673390714 0.472198515 0.494607223
rs28418462:44227510:G:A ENSG00000236816
rs79830345:44228754:C:T:ENSG00000236816 0.035322296 0.654488658
0.655258797 0.689549544 0.54593522 0.590052663
rs79830345:44228754:C:T ENSG00000236816
rs28781918:44234403:C:T:ENSG00000236816 0.035322296 0.651399716
0.576180386 0.617124137 0.410008196 0.441545027
rs28781918:44234403:C:T ENSG00000236816
rs113473983:44235035:G:A:ENSG00000236816 0.035322296 0.651399716
0.575705306 0.617124137 0.410008196 0.441545027
rs113473983:44235035:G:A ENSG00000236816
rs35546747:44257671:TA:T:ENSG00000236816 0.035322296 0.654488658
0.618696386 0.69625478 0.525520858 0.562535698
rs35546747:44257671:TA:T ENSG00000236816
JHU_9.69407631:ENSG00000235832 0.035322296 0.039514306 0.782434772
0.491850645 0.625064162 0.282646046 JHU_9.69407631 ENSG00000235832
rs363717:ENSG00000136783 0.404030971 0.039514306 0.693319897
0.751091602 0.9305498 0.629184088 rs363717 ENSG00000136783
rs4747349:18801234:G:C:ENSG00000240291 0.514609397 0.039514306
0.090437058 0.340834261 0.526407644 0.369977602
rs4747349:18801234:G:C ENSG00000240291

rs10741091:18802307:C:G:ENSG00000240291 0.397619131 0.039514306
0.054815691 0.301206855 0.311775972 0.063994875
rs10741091:18802307:C:G ENSG00000240291
rs10400076:18802698:T:A:ENSG00000240291 0.525727277 0.039514306 0.20393713
0.358702521 0.477032507 0.468334324 rs10400076:18802698:T:A
ENSG00000240291
rs7088091:18804094:T:C:ENSG00000240291 0.45169229 0.039514306
0.054815691 0.424824518 0.525520858 0.063994875
rs7088091:18804094:T:C ENSG00000240291
rs4748482:18816236:T:C:ENSG00000240291 0.035322296 0.189251465
0.054815691 0.395341642 0.7140776 0.638312381
rs4748482:18816236:T:C ENSG00000240291
rs7922550:18817083:T:G:ENSG00000240291 0.392134345 0.039514306
0.090437058 0.558498626 0.749667392 0.447199093
rs7922550:18817083:T:G ENSG00000240291
rs7922829:18817374:T:C:ENSG00000240291 0.412281196 0.039514306
0.054815691 0.677268785 0.835731578 0.453831125
rs7922829:18817374:T:C ENSG00000240291
rs10764578:ENSG00000240291 0.035322296 0.039514306 0.054815691
0.072575018 0.328523647 0.063994875 rs10764578 ENSG00000240291
rs4747350:18819869:C:G:ENSG00000240291 0.376064036 0.039514306
0.054815691 0.558498626 0.756739579 0.382106273
rs4747350:18819869:C:G ENSG00000240291
rs7917584:18820848:G:A:ENSG00000240291 0.422694319 0.039514306
0.054815691 0.445043357 0.764551383 0.615926697
rs7917584:18820848:G:A ENSG00000240291
rs10764582:18823279:T:A:ENSG00000240291 0.264115932 0.039514306
0.054815691 0.491850645 0.455878819 0.369977602
rs10764582:18823279:T:A ENSG00000240291
rs77082067:18826219:T:C:ENSG00000240291 0.169284753 0.039514306
0.054815691 0.7025349 0.758499809 0.225997306
rs77082067:18826219:T:C ENSG00000240291
rs2272274:18826974:T:C:ENSG00000240291 0.334162828 0.039514306
0.054815691 0.771395682 0.9305498 0.66967784
rs2272274:18826974:T:C ENSG00000240291
rs3841459:18828721:C:CAA:ENSG00000240291 0.239371492 0.039514306
0.054815691 0.68096883 0.767723787 0.497503372
rs3841459:18828721:C:CAA ENSG00000240291
rs10828872:18830618:C:T:ENSG00000240291 0.271758927 0.039514306
0.054815691 0.491850645 0.477032507 0.358316132
rs10828872:18830618:C:T ENSG00000240291
rs10764583:18833812:T:C:ENSG00000240291 0.381061816 0.039514306
0.054815691 0.491850645 0.069942274 0.063994875
rs10764583:18833812:T:C ENSG00000240291
rs3817494:ENSG00000240291 0.291376195 0.039514306 0.054815691
0.454179145 0.279727316 0.140342165 rs3817494 ENSG00000240291
rs10828896:18838854:A:G:ENSG00000240291 0.264115932 0.039514306
0.054815691 0.491850645 0.455878819 0.369977602
rs10828896:18838854:A:G ENSG00000240291
rs12569474:18839176:C:T:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.340834261 0.069942274 0.063994875
rs12569474:18839176:C:T ENSG00000240291

rs7901598:18839779:G:A:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs7901598:18839779:G:A ENSG00000240291
rs10828911:18843358:G:A:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs10828911:18843358:G:A ENSG00000240291
rs74222044:18844014:T:C:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.36680942 0.069942274 0.063994875
rs74222044:18844014:T:C ENSG00000240291
rs114959619:18846760:G:C:ENSG00000240291 0.169284753 0.039514306
0.054815691 0.408307051 0.069942274 0.063994875
rs114959619:18846760:G:C ENSG00000240291
rs12569487:18847584:G:A:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs12569487:18847584:G:A ENSG00000240291
rs12570792:18847594:A:C:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs12570792:18847594:A:C ENSG00000240291
rs12570360:18847625:C:A:ENSG00000240291 0.081933656 0.039514306
0.054815691 0.463396258 0.340307796 0.063994875
rs12570360:18847625:C:A ENSG00000240291
rs146947043:18848737:GGAAAAGA:G:ENSG00000240291 0.100009087
0.039514306 0.054815691 0.435112224 0.340307796 0.063994875
rs146947043:18848737:GGAAAAGA:G ENSG00000240291
rs12572024:18850072:T:G:ENSG00000240291 0.25732594 0.039514306 0.14398786
0.486971863 0.173591669 0.063994875 rs12572024:18850072:T:G
ENSG00000240291
rs12572034:18850126:T:C:ENSG00000240291 0.169284753 0.039514306
0.054815691 0.408307051 0.069942274 0.063994875
rs12572034:18850126:T:C ENSG00000240291
rs201439618:18850488:T:C:ENSG00000240291 0.155490932 0.039514306
0.054815691 0.408307051 0.069942274 0.063994875
rs201439618:18850488:T:C ENSG00000240291
rs114608102:18850968:G:C:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs114608102:18850968:G:C ENSG00000240291
rs114496140:18851090:T:C:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs114496140:18851090:T:C ENSG00000240291
rs115118258:18853252:T:A:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs115118258:18853252:T:A ENSG00000240291
rs146562610:18853702:TTCCATTC:T:ENSG00000240291 0.035322296
0.039514306 0.054815691 0.385352708 0.069942274 0.063994875
rs146562610:18853702:TTCCATTC:T ENSG00000240291
rs115680692:18854517:C:T:ENSG00000240291 0.169284753 0.039514306
0.054815691 0.408307051 0.069942274 0.063994875
rs115680692:18854517:C:T ENSG00000240291
rs139710192:18854695:C:T:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.435112224 0.347424829 0.108665807
rs139710192:18854695:C:T ENSG00000240291
rs113540872:18854833:G:C:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.432896498 0.371793022 0.108665807
rs113540872:18854833:G:C ENSG00000240291

rs62634837:18854881:T:C:ENSG00000240291 0.25732594 0.039514306 0.14398786
0.486971863 0.173591669 0.063994875 rs62634837:18854881:T:C
ENSG00000240291

rs62634838:18854884:C:T:ENSG00000240291 0.25732594 0.039514306 0.14398786
0.484670506 0.173591669 0.063994875 rs62634838:18854884:C:T
ENSG00000240291

rs115756107:18855334:T:C:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs115756107:18855334:T:C ENSG00000240291

rs139562227:18858258:T:C:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.435112224 0.347424829 0.108665807
rs139562227:18858258:T:C ENSG00000240291

rs62634840:18859087:A:C:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.435112224 0.347424829 0.108665807
rs62634840:18859087:A:C ENSG00000240291

rs7079325:18860469:T:C:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.435112224 0.347424829 0.108665807
rs7079325:18860469:T:C ENSG00000240291

rs62636218:18862244:T:A:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs62636218:18862244:T:A ENSG00000240291

rs57579336:18862380:T:C:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs57579336:18862380:T:C ENSG00000240291

rs4748488:18862728:G:A:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.165229468 0.069942274 0.063994875
rs4748488:18862728:G:A ENSG00000240291

rs7077722:18865962:A:G:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs7077722:18865962:A:G ENSG00000240291

rs4748492:18866104:T:C:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs4748492:18866104:T:C ENSG00000240291

rs6482533:18867838:C:T:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.37163762 0.069942274 0.063994875
rs6482533:18867838:C:T ENSG00000240291

rs7895784:18872872:C:T:ENSG00000240291 0.442515926 0.039514306
0.283332252 0.558498626 0.266901314 0.063994875
rs7895784:18872872:C:T ENSG00000240291

rs56410858:18875337:C:G:ENSG00000240291 0.401149097 0.039514306
0.054815691 0.524793443 0.069942274 0.063994875
rs56410858:18875337:C:G ENSG00000240291

rs10764600:18878334:G:A:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.435112224 0.340307796 0.063994875
rs10764600:18878334:G:A ENSG00000240291

rs10828965:18878881:T:C:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs10828965:18878881:T:C ENSG00000240291

rs11525266:18879183:T:C:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.435112224 0.340307796 0.063994875
rs11525266:18879183:T:C ENSG00000240291

rs7904263:18880525:C:A:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.435112224 0.347424829 0.108665807
rs7904263:18880525:C:A ENSG00000240291

rs10828967:18882432:G:T:ENSG00000240291 0.442515926 0.039514306
0.283332252 0.558498626 0.266901314 0.063994875
rs10828967:18882432:G:T ENSG00000240291
rs72787963:18883224:A:G:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.435112224 0.347424829 0.108665807
rs72787963:18883224:A:G ENSG00000240291
rs111421894:18883370:G:T:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.395341642 0.069942274 0.063994875
rs111421894:18883370:G:T ENSG00000240291
rs10764601:18883614:G:A:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.435112224 0.340307796 0.063994875
rs10764601:18883614:G:A ENSG00000240291
rs10764602:18883858:G:C:ENSG00000240291 0.436562781 0.039514306
0.310525978 0.558498626 0.279727316 0.063994875
rs10764602:18883858:G:C ENSG00000240291
rs10764603:18883867:T:C:ENSG00000240291 0.060909118 0.039514306
0.054815691 0.408307051 0.251839208 0.108665807
rs10764603:18883867:T:C ENSG00000240291
rs10764604:18883940:C:T:ENSG00000240291 0.401149097 0.039514306
0.054815691 0.524793443 0.069942274 0.063994875
rs10764604:18883940:C:T ENSG00000240291
rs10764605:18884543:T:C:ENSG00000240291 0.408481727 0.039514306
0.054815691 0.524793443 0.069942274 0.063994875
rs10764605:18884543:T:C ENSG00000240291
rs11015048:18885887:G:C:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.435112224 0.347424829 0.108665807
rs11015048:18885887:G:C ENSG00000240291
rs10828975:ENSG00000240291 0.100009087 0.039514306 0.054815691
0.432896498 0.347424829 0.108665807 rs10828975 ENSG00000240291
rs7894016:18887709:T:G:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.358702521 0.069942274 0.063994875
rs7894016:18887709:T:G ENSG00000240291
rs11015077:18889744:C:A:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.491850645 0.355219989 0.063994875
rs11015077:18889744:C:A ENSG00000240291
rs113131914:18892861:C:T:ENSG00000240291 0.081933656 0.039514306
0.054815691 0.491850645 0.371793022 0.063994875
rs113131914:18892861:C:T ENSG00000240291
rs7477076:18893108:A:G:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.438119062 0.148497947 0.063994875
rs7477076:18893108:A:G ENSG00000240291
rs11015105:18893955:T:C:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.438119062 0.148497947 0.063994875
rs11015105:18893955:T:C ENSG00000240291
rs5022622:18895544:G:T:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.455203609 0.148497947 0.063994875
rs5022622:18895544:G:T ENSG00000240291
rs45587935:18897252:TTC:T:ENSG00000240291 0.100009087 0.039514306
0.054815691 0.491850645 0.388754065 0.063994875
rs45587935:18897252:TTC:T ENSG00000240291
rs10764625:18898434:T:C:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.445043357 0.148497947 0.063994875
rs10764625:18898434:T:C ENSG00000240291

rs7101133:18900130:T:A:ENSG00000240291 0.060909118 0.039514306
0.054815691 0.5834429 0.493250562 0.108665807
rs7101133:18900130:T:A ENSG00000240291
rs7101134:18900131:T:A:ENSG00000240291 0.035322296 0.039514306
0.054815691 0.560086389 0.438540244 0.063994875
rs7101134:18900131:T:A ENSG00000240291
rs10829022:18905733:T:C:ENSG00000240291 0.146968287 0.039514306
0.054815691 0.491850645 0.480692872 0.063994875
rs10829022:18905733:T:C ENSG00000240291
rs7100880:18906507:A:G:ENSG00000240291 0.485584445 0.039514306
0.269469279 0.558498626 0.288162171 0.063994875
rs7100880:18906507:A:G ENSG00000240291
rs200718872:18909038:A:G:ENSG00000240291 0.155490932 0.039514306
0.054815691 0.489772876 0.279727316 0.063994875
rs200718872:18909038:A:G ENSG00000240291
rs11015196:18913344:C:G:ENSG00000240291 0.162871942 0.039514306
0.054815691 0.491850645 0.279727316 0.063994875
rs11015196:18913344:C:G ENSG00000240291
rs10829037:18914719:C:T:ENSG00000240291 0.452814686 0.039514306
0.255451763 0.585024711 0.504458419 0.369977602
rs10829037:18914719:C:T ENSG00000240291
rs10829039:18915159:T:C:ENSG00000240291 0.169284753 0.039514306
0.054815691 0.491850645 0.288162171 0.063994875
rs10829039:18915159:T:C ENSG00000240291
rs10741115:18915307:C:T:ENSG00000240291 0.169284753 0.039514306
0.054815691 0.491850645 0.288162171 0.063994875
rs10741115:18915307:C:T ENSG00000240291
rs10734063:18915760:T:C:ENSG00000240291 0.169284753 0.039514306
0.054815691 0.491850645 0.288162171 0.063994875
rs10734063:18915760:T:C ENSG00000240291
rs10829040:18917047:C:T:ENSG00000240291 0.452814686 0.039514306
0.269469279 0.588441466 0.504458419 0.369977602
rs10829040:18917047:C:T ENSG00000240291
rs7903605:18918432:G:A:ENSG00000240291 0.175415731 0.039514306
0.054815691 0.491850645 0.279727316 0.063994875
rs7903605:18918432:G:A ENSG00000240291
rs7897787:18921314:C:A:ENSG00000240291 0.18193752 0.039514306
0.054815691 0.496527133 0.279727316 0.063994875
rs7897787:18921314:C:A ENSG00000240291
rs11015255:18924789:A:T:ENSG00000240291 0.25732594 0.039514306 0.14398786
0.546358114 0.420268827 0.174366738 rs11015255:18924789:A:T
ENSG00000240291
rs10829060:18928169:A:T:ENSG00000240291 0.175415731 0.039514306
0.054815691 0.491850645 0.288162171 0.063994875
rs10829060:18928169:A:T ENSG00000240291
rs12219183:18929138:G:T:ENSG00000240291 0.175415731 0.039514306
0.054815691 0.491850645 0.279727316 0.063994875
rs12219183:18929138:G:T ENSG00000240291
rs7081977:18930918:T:C:ENSG00000240291 0.25732594 0.039514306 0.14398786
0.528521718 0.388754065 0.174366738 rs7081977:18930918:T:C
ENSG00000240291
rs10829070:18932306:G:A:ENSG00000240291 0.458751695 0.039514306
0.283332252 0.595546163 0.498016841 0.347302535
rs10829070:18932306:G:A ENSG00000240291

rs11015312:18932953:G:A:ENSG00000240291 0.25732594 0.039514306 0.14398786
0.528521718 0.388754065 0.174366738 rs11015312:18932953:G:A
ENSG00000240291

rs7081690:18933661:C:T:ENSG00000240291 0.169284753 0.039514306
0.054815691 0.486971863 0.279727316 0.063994875
rs7081690:18933661:C:T ENSG00000240291

rs12359758:18935116:T:G:ENSG00000240291 0.25732594 0.039514306 0.14398786
0.528521718 0.381322091 0.174366738 rs12359758:18935116:T:G
ENSG00000240291

rs7099260:18935341:C:A:ENSG00000240291 0.304041304 0.039514306
0.238368074 0.558498626 0.538368464 0.295623551
rs7099260:18935341:C:A ENSG00000240291

rs57066269:18936646:A:C:ENSG00000240291 0.169284753 0.039514306
0.054815691 0.491850645 0.266901314 0.063994875
rs57066269:18936646:A:C ENSG00000240291

rs3740102:18940157:C:A:ENSG00000240291 0.409709915 0.039514306
0.054815691 0.558498626 0.363699827 0.063994875
rs3740102:18940157:C:A ENSG00000240291

rs7898781:18943773:C:T:ENSG00000240291 0.282721177 0.039514306
0.090437058 0.558498626 0.490050927 0.108665807
rs7898781:18943773:C:T ENSG00000240291

rs7899017:18943906:C:A:ENSG00000240291 0.271758927 0.039514306 0.14398786
0.524793443 0.455878819 0.108665807 rs7899017:18943906:C:A
ENSG00000240291

rs11015421:18946745:G:C:ENSG00000240291 0.248591073 0.039514306 0.14398786
0.517229412 0.381322091 0.140342165 rs11015421:18946745:G:C
ENSG00000240291

rs10829148:18947476:T:G:ENSG00000240291 0.339455396 0.039514306
0.370396184 0.678782234 0.70749687 0.174366738
rs10829148:18947476:T:G ENSG00000240291

rs10829151:18948841:C:T:ENSG00000240291 0.268135474 0.039514306
0.090437058 0.513724482 0.420268827 0.063994875
rs10829151:18948841:C:T ENSG00000240291

rs10764666:18956643:T:C:ENSG00000240291 0.239371492 0.039514306
0.090437058 0.493098162 0.218559406 0.063994875
rs10764666:18956643:T:C ENSG00000240291

rs10741127:18957647:T:G:ENSG00000240291 0.569751485 0.039514306
0.269469279 0.637390127 0.54593522 0.487204938
rs10741127:18957647:T:G ENSG00000240291

rs34839131:18957752:GC:G:ENSG00000240291 0.25732594 0.039514306
0.14398786 0.519043541 0.371793022 0.140342165
rs34839131:18957752:GC:G ENSG00000240291

rs6482597:18964840:A:G:ENSG00000240291 0.200359533 0.039514306
0.054815691 0.244282474 0.069942274 0.063994875
rs6482597:18964840:A:G ENSG00000240291

rs1055116:18966867:T:C:ENSG00000240291 0.271758927 0.039514306
0.165546404 0.37163762 0.279727316 0.063994875
rs1055116:18966867:T:C ENSG00000240291

rs10741129:18966907:A:G:ENSG00000240291 0.219347314 0.039514306
0.054815691 0.37163762 0.173591669 0.063994875
rs10741129:18966907:A:G ENSG00000240291

rs6481523:ENSG00000254635 0.146968287 0.039514306 0.820914955
0.072575018 0.905940899 0.140342165 rs6481523 ENSG00000254635

rs1780222:28936504:A:G:ENSG00000254635 0.035322296 0.40461139
0.419451892 0.072575018 0.069942274 0.063994875
rs1780222:28936504:A:G:ENSG00000254635
rs72785266:43891533:G:C:ENSG00000230555 0.035322296 0.602503447
0.618696386 0.072575018 0.069942274 0.063994875
rs72785266:43891533:G:C:ENSG00000230555
rs11006097:ENSG00000122873 0.200359533 0.039514306 0.828327833
0.442167795 0.87814657 0.813853703 rs11006097:ENSG00000122873
rs56824308:60053288:AG:A:ENSG00000122873 0.215796307 0.039514306
0.828327833 0.450346002 0.886719814 0.818631709
rs56824308:60053288:AG:A:ENSG00000122873
rs3002286:213110429:G:A:ENSG00000143494 0.035322296 0.668532818
0.568513848 0.714739375 0.90539517 0.783188262
rs3002286:213110429:G:A:ENSG00000143494
rs2453237:221028584:G:A:ENSG00000272823 0.34585993 0.039514306
0.579532834 0.700879541 0.9305498 0.817686609
rs2453237:221028584:G:A:ENSG00000272823
rs2807854:ENSG00000272823 0.342246666 0.039514306 0.581240934
0.697988141 0.9305498 0.822986502 rs2807854:ENSG00000272823
rs2807855:221031307:G:A:ENSG00000272823 0.342246666 0.039514306
0.580001614 0.699000273 0.9305498 0.822016603
rs2807855:221031307:G:A:ENSG00000272823
rs2784259:221032324:A:T:ENSG00000272823 0.343380618 0.039514306
0.580001614 0.699000273 0.9305498 0.821768383
rs2784259:221032324:A:T:ENSG00000272823
rs2784258:221032491:C:T:ENSG00000272823 0.35484344 0.039514306
0.571157005 0.712954796 0.9305498 0.813853703
rs2784258:221032491:C:T:ENSG00000272823
rs2491258:221033754:A:G:ENSG00000272823 0.34585993 0.039514306
0.578118442 0.700879541 0.9305498 0.813853703
rs2491258:221033754:A:G:ENSG00000272823
rs2264400:221035680:T:C:ENSG00000272823 0.343380618 0.039514306
0.579532834 0.699000273 0.9305498 0.819500231
rs2264400:221035680:T:C:ENSG00000272823
rs2784260:221037157:T:C:ENSG00000272823 0.35010809 0.039514306
0.579532834 0.703384182 0.9305498 0.813853703
rs2784260:221037157:T:C:ENSG00000272823
rs2807871:221040034:G:A:ENSG00000272823 0.347231053 0.039514306
0.572955873 0.700879541 0.9305498 0.813853703
rs2807871:221040034:G:A:ENSG00000272823
rs2784247:221040987:T:A:ENSG00000272823 0.344174629 0.039514306
0.576180386 0.699000273 0.9305498 0.814013767
rs2784247:221040987:T:A:ENSG00000272823
rs2642447:221042293:T:G:ENSG00000272823 0.349088436 0.039514306 0.57027753
0.700879541 0.928791234 0.813853703 rs2642447:221042293:T:G
ENSG00000272823
rs10664325:221043354:A:AGTTTT:ENSG00000272823 0.351885919 0.039514306
0.568513848 0.699000273 0.925113964 0.813853703
rs10664325:221043354:A:AGTTTT:ENSG00000272823
rs5011752:221044762:G:A:ENSG00000272823 0.347231053 0.039514306
0.568513848 0.703018054 0.921191025 0.813853703
rs5011752:221044762:G:A:ENSG00000272823
rs147672552:221044820:T:TTGAAAATAACACAGTGAACACAG:ENSG00000272823
0.343365679 0.039514306 0.571157005 0.699249305 0.922636253

0.813853703 rs147672552:221044820:T:TTGAAAATAACACAGTGAACACAG
ENSG00000272823
rs1970506:93428286:C:T:ENSG00000228701 0.572296739 0.039514306
0.121437838 0.558498626 0.846349625 0.842355515
rs1970506:93428286:C:T ENSG00000228701
rs59651880:93429816:A:ATAAC:ENSG00000228701 0.407773261 0.039514306
0.090437058 0.358702521 0.904520929 0.780608344
rs59651880:93429816:A:ATAAC ENSG00000228701
rs4919686:104592249:A:C:ENSG00000166275 0.571907775 0.039514306
0.831423382 0.704092316 0.599377315 0.813853703
rs4919686:104592249:A:C ENSG00000166275
rs12775431:104611764:A:C:ENSG00000166275 0.035322296 0.33968813
0.565079872 0.685348652 0.9305498 0.319318857
rs12775431:104611764:A:C ENSG00000166275
rs11441374:104619292:A:AC:ENSG00000166275 0.035322296 0.346656012
0.565079872 0.685348652 0.9305498 0.319318857
rs11441374:104619292:A:AC ENSG00000166275
rs9527:104623578:C:T:ENSG00000166275 0.035322296 0.346656012
0.565079872 0.685348652 0.9305498 0.319318857 rs9527:104623578:C:T
ENSG00000166275
rs4757468:17001934:C:T:ENSG00000166689 0.035322296 0.066642396
0.054815691 0.072575018 0.288162171 0.063994875
rs4757468:17001934:C:T ENSG00000166689
rs6486332:17003732:G:C:ENSG00000166689 0.035322296 0.089622533
0.054815691 0.072575018 0.347424829 0.063994875
rs6486332:17003732:G:C ENSG00000166689
rs4757470:ENSG00000166689 0.035322296 0.066642396 0.054815691
0.072575018 0.288162171 0.063994875 rs4757470 ENSG00000166689
rs4237715:17004189:C:T:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs4237715:17004189:C:T ENSG00000166689
rs2353369:17007220:A:G:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.410008196 0.063994875
rs2353369:17007220:A:G ENSG00000166689
rs10832709:17008644:C:A:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.532319281 0.063994875
rs10832709:17008644:C:A ENSG00000166689
rs5789966:17010210:G:GTC:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs5789966:17010210:G:GTC ENSG00000166689
rs6486333:17010672:G:A:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.512857075 0.063994875
rs6486333:17010672:G:A ENSG00000166689
rs4757472:17010922:G:A:ENSG00000166689 0.035322296 0.089622533
0.054815691 0.072575018 0.544223189 0.063994875
rs4757472:17010922:G:A ENSG00000166689
rs10766367:17013152:A:G:ENSG00000166689 0.035322296 0.110495165
0.054815691 0.072575018 0.650850274 0.063994875
rs10766367:17013152:A:G ENSG00000166689
rs4757474:17013974:T:C:ENSG00000166689 0.035322296 0.066642396
0.054815691 0.072575018 0.54593522 0.063994875
rs4757474:17013974:T:C ENSG00000166689

rs10610034:17014302:CAA:C:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.54593522 0.063994875
rs10610034:17014302:CAA:C ENSG00000166689
rs6486334:17015557:T:C:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.54593522 0.063994875
rs6486334:17015557:T:C ENSG00000166689
rs6486335:17015751:T:C:ENSG00000166689 0.035322296 0.209793344
0.054815691 0.072575018 0.608245709 0.063994875
rs6486335:17015751:T:C ENSG00000166689
rs7934567:17015849:T:C:ENSG00000166689 0.035322296 0.110495165
0.054815691 0.072575018 0.484480155 0.063994875
rs7934567:17015849:T:C ENSG00000166689
rs7944490:17015893:G:A:ENSG00000166689 0.035322296 0.3227674
0.054815691 0.072575018 0.538368464 0.063994875
rs7944490:17015893:G:A ENSG00000166689
rs7937479:17015954:T:C:ENSG00000166689 0.035322296 0.066642396
0.054815691 0.072575018 0.410008196 0.063994875
rs7937479:17015954:T:C ENSG00000166689
rs4757475:17016416:A:G:ENSG00000166689 0.035322296 0.110495165
0.054815691 0.072575018 0.647818531 0.063994875
rs4757475:17016416:A:G ENSG00000166689
rs10832712:17017080:T:C:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.218559406 0.063994875
rs10832712:17017080:T:C ENSG00000166689
rs2302207:17017622:C:T:ENSG00000166689 0.035322296 0.110495165
0.054815691 0.072575018 0.647818531 0.063994875
rs2302207:17017622:C:T ENSG00000166689
rs10832713:17018877:T:C:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.173591669 0.063994875
rs10832713:17018877:T:C ENSG00000166689
rs5789967:17020389:GA:G:ENSG00000166689 0.035322296 0.110495165
0.054815691 0.072575018 0.647818531 0.063994875
rs5789967:17020389:GA:G ENSG00000166689
rs4757479:17021663:C:A:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs4757479:17021663:C:A ENSG00000166689
rs7940499:17022030:T:C:ENSG00000166689 0.035322296 0.209793344
0.054815691 0.072575018 0.614364441 0.063994875
rs7940499:17022030:T:C ENSG00000166689
rs1468489:17022894:T:C:ENSG00000166689 0.035322296 0.066642396
0.054815691 0.072575018 0.480692872 0.063994875
rs1468489:17022894:T:C ENSG00000166689
rs7930890:17024699:G:A:ENSG00000166689 0.035322296 0.219098289
0.054815691 0.072575018 0.617728871 0.063994875
rs7930890:17024699:G:A ENSG00000166689
rs7931025:17024847:G:A:ENSG00000166689 0.035322296 0.202241296
0.054815691 0.072575018 0.603364769 0.063994875
rs7931025:17024847:G:A ENSG00000166689
rs4757482:17025675:A:G:ENSG00000166689 0.035322296 0.039514306
0.054815691 0.072575018 0.173591669 0.063994875
rs4757482:17025675:A:G ENSG00000166689
rs4757483:17025712:G:A:ENSG00000166689 0.035322296 0.53025993
0.054815691 0.197042097 0.752490742 0.374953256
rs4757483:17025712:G:A ENSG00000166689

rs4757484:ENSG00000166689 0.035322296 0.039514306 0.054815691
0.072575018 0.173591669 0.063994875 rs4757484 ENSG00000166689
rs4756882:17026073:G:A:ENSG00000166689 0.035322296 0.145249232
0.054815691 0.072575018 0.532319281 0.063994875
rs4756882:17026073:G:A ENSG00000166689
rs7928955:17026639:T:C:ENSG00000166689 0.035322296 0.174910011
0.054815691 0.072575018 0.477032507 0.063994875
rs7928955:17026639:T:C ENSG00000166689
rs11297032:17026666:CG:C:ENSG00000166689 0.035322296 0.33968813
0.054815691 0.072575018 0.608245709 0.174366738
rs11297032:17026666:CG:C ENSG00000166689
rs76970011:17026668:G:A:ENSG00000166689 0.035322296 0.33968813
0.054815691 0.072575018 0.608245709 0.174366738
rs76970011:17026668:G:A ENSG00000166689
rs7926143:17026854:A:G:ENSG00000166689 0.035322296 0.110495165
0.054815691 0.072575018 0.403448628 0.063994875
rs7926143:17026854:A:G ENSG00000166689
rs11394581:17026873:G:GT:ENSG00000166689 0.035322296 0.424214053
0.054815691 0.072575018 0.644255189 0.295623551
rs11394581:17026873:G:GT ENSG00000166689
rs10741719:17027329:G:A:ENSG00000166689 0.035322296 0.305849216
0.054815691 0.072575018 0.550609082 0.140342165
rs10741719:17027329:G:A ENSG00000166689
rs10741720:17027429:T:C:ENSG00000166689 0.035322296 0.202241296
0.054815691 0.072575018 0.512857075 0.063994875
rs10741720:17027429:T:C ENSG00000166689
rs10741721:17027653:C:T:ENSG00000166689 0.035322296 0.229789644
0.054815691 0.072575018 0.490050927 0.063994875
rs10741721:17027653:C:T ENSG00000166689
rs4757485:17027688:C:A:ENSG00000166689 0.035322296 0.229789644
0.054815691 0.072575018 0.498016841 0.063994875
rs4757485:17027688:C:A ENSG00000166689
rs4757486:17027805:G:A:ENSG00000166689 0.035322296 0.209793344
0.054815691 0.072575018 0.467095788 0.140342165
rs4757486:17027805:G:A ENSG00000166689
rs10832715:17028003:A:G:ENSG00000166689 0.035322296 0.311964405
0.054815691 0.072575018 0.559581427 0.201281701
rs10832715:17028003:A:G ENSG00000166689
rs35511252:17028019:CA:C:ENSG00000166689 0.035322296 0.311964405
0.054815691 0.072575018 0.57001038 0.174366738
rs35511252:17028019:CA:C ENSG00000166689
rs10832716:17028070:G:A:ENSG00000166689 0.035322296 0.290843861
0.054815691 0.072575018 0.538368464 0.174366738
rs10832716:17028070:G:A ENSG00000166689
rs59063580:17028173:C:CA:ENSG00000166689 0.035322296 0.396207958
0.054815691 0.072575018 0.66458282 0.347302535
rs59063580:17028173:C:CA ENSG00000166689
rs57677839:17028189:G:A:ENSG00000166689 0.035322296 0.248891879
0.054815691 0.072575018 0.460100455 0.063994875
rs57677839:17028189:G:A ENSG00000166689
rs7947297:17028328:C:T:ENSG00000166689 0.035322296 0.33968813
0.054815691 0.072575018 0.580298595 0.174366738
rs7947297:17028328:C:T ENSG00000166689

rs7933984:17028745:A:G:ENSG00000166689 0.035322296 0.297824828
0.054815691 0.072575018 0.54593522 0.063994875
rs7933984:17028745:A:G ENSG00000166689
rs7947897:17028820:C:T:ENSG00000166689 0.035322296 0.500746138
0.054815691 0.072575018 0.693223878 0.295623551
rs7947897:17028820:C:T ENSG00000166689
rs10832717:17029099:C:T:ENSG00000166689 0.035322296 0.229789644
0.054815691 0.072575018 0.54593522 0.063994875
rs10832717:17029099:C:T ENSG00000166689
rs10832718:17029107:G:T:ENSG00000166689 0.035322296 0.174910011
0.054815691 0.072575018 0.519536868 0.063994875
rs10832718:17029107:G:T ENSG00000166689
rs10832719:17029152:A:G:ENSG00000166689 0.035322296 0.174910011
0.054815691 0.072575018 0.519536868 0.063994875
rs10832719:17029152:A:G ENSG00000166689
rs10832720:17029262:G:A:ENSG00000166689 0.035322296 0.229789644
0.054815691 0.072575018 0.54593522 0.063994875
rs10832720:17029262:G:A ENSG00000166689
rs12288625:17029413:C:G:ENSG00000166689 0.035322296 0.229789644
0.054815691 0.072575018 0.519536868 0.063994875
rs12288625:17029413:C:G ENSG00000166689
rs10832721:17029648:A:C:ENSG00000166689 0.035322296 0.297824828
0.054815691 0.072575018 0.54593522 0.063994875
rs10832721:17029648:A:C ENSG00000166689
rs10766370:17029825:T:G:ENSG00000166689 0.035322296 0.297824828
0.054815691 0.072575018 0.54593522 0.063994875
rs10766370:17029825:T:G ENSG00000166689
rs4562807:17029941:T:C:ENSG00000166689 0.035322296 0.311964405
0.054815691 0.072575018 0.580298595 0.063994875
rs4562807:17029941:T:C ENSG00000166689
rs4756883:17030101:C:A:ENSG00000166689 0.035322296 0.229789644
0.054815691 0.072575018 0.519536868 0.063994875
rs4756883:17030101:C:A ENSG00000166689
rs10766371:17030500:C:T:ENSG00000166689 0.035322296 0.297824828
0.054815691 0.072575018 0.54593522 0.063994875
rs10766371:17030500:C:T ENSG00000166689
rs4757487:17030553:G:A:ENSG00000166689 0.035322296 0.229789644
0.054815691 0.072575018 0.519536868 0.063994875
rs4757487:17030553:G:A ENSG00000166689
rs4757488:17030617:A:G:ENSG00000166689 0.035322296 0.297824828
0.054815691 0.072575018 0.54593522 0.063994875
rs4757488:17030617:A:G ENSG00000166689
rs4757489:17030660:T:G:ENSG00000166689 0.035322296 0.229789644
0.054815691 0.072575018 0.519536868 0.063994875
rs4757489:17030660:T:G ENSG00000166689
rs4757490:17030775:T:C:ENSG00000166689 0.035322296 0.297824828
0.054815691 0.072575018 0.54593522 0.063994875
rs4757490:17030775:T:C ENSG00000166689
rs10766372:17031276:G:A:ENSG00000166689 0.035322296 0.305849216
0.054815691 0.072575018 0.54593522 0.063994875
rs10766372:17031276:G:A ENSG00000166689
rs12365483:17031650:C:T:ENSG00000166689 0.035322296 0.316996396
0.054815691 0.072575018 0.54593522 0.063994875
rs12365483:17031650:C:T ENSG00000166689

rs6486339:17034875:C:A:ENSG00000166689 0.035322296 0.40461139
0.054815691 0.072575018 0.550609082 0.063994875
rs6486339:17034875:C:A ENSG00000166689
rs6486340:17035064:G:A:ENSG00000166689 0.035322296 0.40461139
0.054815691 0.072575018 0.550609082 0.063994875
rs6486340:17035064:G:A ENSG00000166689
rs6486341:17035086:G:A:ENSG00000166689 0.035322296 0.42813865
0.054815691 0.072575018 0.608245709 0.063994875
rs6486341:17035086:G:A ENSG00000166689
rs6486342:17035119:C:G:ENSG00000166689 0.035322296 0.40461139
0.054815691 0.072575018 0.550609082 0.063994875
rs6486342:17035119:C:G ENSG00000166689
rs6486343:17035251:G:T:ENSG00000166689 0.035322296 0.367821565
0.054815691 0.072575018 0.54593522 0.063994875
rs6486343:17035251:G:T ENSG00000166689
rs6486344:17035314:C:T:ENSG00000166689 0.035322296 0.407321946
0.054815691 0.072575018 0.555947116 0.063994875
rs6486344:17035314:C:T ENSG00000166689
rs61881311:17035718:A:G:ENSG00000166689 0.035322296 0.38687185
0.054815691 0.072575018 0.54593522 0.063994875
rs61881311:17035718:A:G ENSG00000166689
rs75533032:17036091:G:C:ENSG00000166689 0.035322296 0.396207958
0.054815691 0.072575018 0.54593522 0.063994875
rs75533032:17036091:G:C ENSG00000166689
rs35115039:17036157:A:G:ENSG00000166689 0.035322296 0.396207958
0.054815691 0.072575018 0.54593522 0.063994875
rs35115039:17036157:A:G ENSG00000166689
rs34986803:17036180:A:C:ENSG00000166689 0.035322296 0.53025993
0.054815691 0.072575018 0.690981753 0.063994875
rs34986803:17036180:A:C ENSG00000166689
rs6484746:ENSG00000149089 0.146968287 0.039514306 0.33856507
0.072575018 0.237095457 0.525367746 rs6484746 ENSG00000149089
rs10838137:43634973:A:C:ENSG00000149084 0.035322296 0.110495165
0.054815691 0.197042097 0.614364441 0.174366738
rs10838137:43634973:A:C ENSG00000149084
rs2862965:43635499:C:G:ENSG00000149084 0.035322296 0.110495165
0.054815691 0.197042097 0.595947504 0.174366738
rs2862965:43635499:C:G ENSG00000149084
rs4755722:43636578:A:G:ENSG00000149084 0.035322296 0.110495165
0.054815691 0.197042097 0.594105975 0.174366738
rs4755722:43636578:A:G ENSG00000149084
rs73453722:47381186:G:A:ENSG00000110536 0.081933656 0.039514306
0.090437058 0.165229468 0.069942274 0.605346151
rs73453722:47381186:G:A ENSG00000110536
rs112815034:47382117:G:T:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs112815034:47382117:G:T ENSG00000110536
rs112923021:47385508:G:A:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs112923021:47385508:G:A ENSG00000110536
rs112120033:47398604:G:A:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs112120033:47398604:G:A ENSG00000110536

rs116118752:47409505:A:G:ENSG00000110536 0.081933656 0.039514306
0.090437058 0.165229468 0.069942274 0.60018511
rs116118752:47409505:A:G ENSG00000110536
rs73453784:47413940:C:T:ENSG00000110536 0.081933656 0.039514306
0.090437058 0.165229468 0.069942274 0.60018511
rs73453784:47413940:C:T ENSG00000110536
rs58477759:47417865:A:G:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs58477759:47417865:A:G ENSG00000110536
rs112950968:47421007:G:A:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs112950968:47421007:G:A ENSG00000110536
rs73457724:47427047:T:A:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs73457724:47427047:T:A ENSG00000110536
rs73457744:47439459:G:A:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs73457744:47439459:G:A ENSG00000110536
rs73459787:47469822:G:A:ENSG00000110536 0.18193752 0.039514306
0.283332252 0.314254491 0.069942274 0.681432383
rs73459787:47469822:G:A ENSG00000110536
rs73459802:47474751:T:G:ENSG00000110536 0.081933656 0.039514306
0.090437058 0.165229468 0.069942274 0.60018511
rs73459802:47474751:T:G ENSG00000110536
rs73461720:47488871:A:C:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs73461720:47488871:A:C ENSG00000110536
rs73461727:47517034:A:G:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs73461727:47517034:A:G ENSG00000110536
rs112917929:47519285:G:A:ENSG00000110536 0.081933656 0.039514306
0.090437058 0.165229468 0.069942274 0.60018511
rs112917929:47519285:G:A ENSG00000110536
rs113300995:47534136:C:A:ENSG00000110536 0.081933656 0.039514306
0.090437058 0.165229468 0.069942274 0.60018511
rs113300995:47534136:C:A ENSG00000110536
rs73461747:47538053:G:A:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs73461747:47538053:G:A ENSG00000110536
rs112371420:47543862:G:A:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs112371420:47543862:G:A ENSG00000110536
rs113992833:47548459:T:C:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs113992833:47548459:T:C ENSG00000110536
rs73461757:47548770:A:G:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs73461757:47548770:A:G ENSG00000110536
rs140405991:47557589:T:C:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs140405991:47557589:T:C ENSG00000110536
11:47574566:C:CGCTGCCTCAGTT:ENSG00000110536 0.081933656 0.039514306
0.090437058 0.165229468 0.069942274 0.60018511
11:47574566:C:CGCTGCCTCAGTT ENSG00000110536

rs112096933:47597989:C:T:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs112096933:47597989:C:T ENSG00000110536
rs148232581:47628688:C:CT:ENSG00000110536 0.081933656 0.039514306
0.090437058 0.165229468 0.069942274 0.60018511
rs148232581:47628688:C:CT ENSG00000110536
rs73465622:47652503:G:A:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs73465622:47652503:G:A ENSG00000110536
rs59039151:47683163:T:C:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs59039151:47683163:T:C ENSG00000110536
rs73467330:47685741:G:T:ENSG00000110536 0.081933656 0.039514306
0.090437058 0.165229468 0.069942274 0.60018511
rs73467330:47685741:G:T ENSG00000110536
rs11365719:47702929:CA:C:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs11365719:47702929:CA:C ENSG00000110536
rs113307128:47729650:C:T:ENSG00000110536 0.035322296 0.039514306
0.165546404 0.072575018 0.069942274 0.460921055
rs113307128:47729650:C:T ENSG00000110536
rs58238323:47733269:T:A:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs58238323:47733269:T:A ENSG00000110536
rs111315477:47749904:C:T:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.290136921 0.069942274 0.679783319
rs111315477:47749904:C:T ENSG00000110536
rs73453044:47784189:G:C:ENSG00000110536 0.196140407 0.039514306
0.255451763 0.326422852 0.069942274 0.702759696
rs73453044:47784189:G:C ENSG00000110536
rs59413596:47788664:G:A:ENSG00000110536 0.035322296 0.039514306
0.165546404 0.072575018 0.069942274 0.460921055
rs59413596:47788664:G:A ENSG00000110536
rs146543301:47794520:ATTT:A:ENSG00000110536 0.035322296 0.039514306
0.165546404 0.072575018 0.069942274 0.460921055
rs146543301:47794520:ATTT:A ENSG00000110536
rs56855787:47801010:G:A:ENSG00000110536 0.132837758 0.039514306 0.14398786
0.197042097 0.069942274 0.638312381 rs56855787:47801010:G:A
ENSG00000110536
rs73453067:47803941:G:A:ENSG00000110536 0.081933656 0.039514306
0.090437058 0.165229468 0.069942274 0.60018511
rs73453067:47803941:G:A ENSG00000110536
rs112265615:47804371:T:C:ENSG00000110536 0.035322296 0.039514306
0.165546404 0.072575018 0.069942274 0.460921055
rs112265615:47804371:T:C ENSG00000110536
rs60147425:47806206:G:A:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs60147425:47806206:G:A ENSG00000110536
rs113882783:47825237:CCT:C:ENSG00000110536 0.035322296 0.039514306
0.165546404 0.072575018 0.069942274 0.460921055
rs113882783:47825237:CCT:C ENSG00000110536
rs73456941:47843430:G:A:ENSG00000110536 0.035322296 0.039514306
0.165546404 0.072575018 0.069942274 0.460921055
rs73456941:47843430:G:A ENSG00000110536

rs58023759:47846084:C:G:ENSG00000110536 0.035322296 0.039514306
0.090437058 0.072575018 0.069942274 0.390568128
rs58023759:47846084:C:G ENSG00000110536
rs79896215:47858746:T:C:ENSG00000110536 0.035322296 0.039514306
0.090437058 0.072575018 0.069942274 0.401203391
rs79896215:47858746:T:C ENSG00000110536
rs73456973:47862951:A:G:ENSG00000110536 0.035322296 0.039514306
0.165546404 0.072575018 0.069942274 0.460921055
rs73456973:47862951:A:G ENSG00000110536
rs111511152:47873065:C:T:ENSG00000110536 0.155490932 0.039514306
0.184980376 0.276782326 0.069942274 0.675892989
rs111511152:47873065:C:T ENSG00000110536
rs73456982:47877313:A:T:ENSG00000110536 0.035322296 0.039514306
0.090437058 0.072575018 0.069942274 0.390568128
rs73456982:47877313:A:T ENSG00000110536
rs5791788:47878120:CT:C:ENSG00000110536 0.035322296 0.039514306
0.090437058 0.072575018 0.069942274 0.358316132
rs5791788:47878120:CT:C ENSG00000110536
rs112474900:47883804:C:T:ENSG00000110536 0.035322296 0.039514306
0.184980376 0.072575018 0.069942274 0.460921055
rs112474900:47883804:C:T ENSG00000110536
rs112631230:47898074:C:T:ENSG00000110536 0.081933656 0.039514306
0.14398786 0.165229468 0.069942274 0.681432383
rs112631230:47898074:C:T ENSG00000110536
rs57197010:47898620:A:C:ENSG00000110536 0.035322296 0.039514306
0.310525978 0.165229468 0.069942274 0.503271951
rs57197010:47898620:A:C ENSG00000110536
rs73458833:47902369:A:T:ENSG00000110536 0.035322296 0.039514306
0.411358711 0.226823504 0.069942274 0.549252346
rs73458833:47902369:A:T ENSG00000110536
rs17880328:64950472:A:G:ENSG00000254614 0.035322296 0.189251465
0.054815691 0.395341642 0.069942274 0.225997306
rs17880328:64950472:A:G ENSG00000254614
rs75366838:65789313:G:A:ENSG00000179292 0.492003181 0.039514306
0.283332252 0.513724482 0.731325674 0.56162725
rs75366838:65789313:G:A ENSG00000179292
rs7101660:65799604:C:T:ENSG00000179292 0.492003181 0.039514306
0.283332252 0.513724482 0.731325674 0.56162725
rs7101660:65799604:C:T ENSG00000179292
11:65799940:C:CAA:ENSG00000179292 0.492003181 0.039514306 0.283332252
0.513724482 0.731325674 0.56162725 11:65799940:C:CAA:ENSG00000179292
rs75773795:65800681:T:C:ENSG00000179292 0.492003181 0.039514306
0.283332252 0.513724482 0.731325674 0.56162725
rs75773795:65800681:T:C ENSG00000179292
rs182689744:65801874:C:T:ENSG00000179292 0.492003181 0.039514306
0.283332252 0.513724482 0.731325674 0.56162725
rs182689744:65801874:C:T ENSG00000179292
rs112223671:65805514:G:A:ENSG00000179292 0.492003181 0.039514306
0.283332252 0.513724482 0.731325674 0.56162725
rs112223671:65805514:G:A ENSG00000179292
rs58480305:65807918:G:A:ENSG00000179292 0.492003181 0.039514306
0.283332252 0.513724482 0.731325674 0.56162725
rs58480305:65807918:G:A ENSG00000179292

rs60283362:65814531:C:T:ENSG00000179292 0.492003181 0.039514306
0.283332252 0.513724482 0.731325674 0.56162725
rs60283362:65814531:C:T ENSG00000179292
rs191649368:65825371:A:G:ENSG00000179292 0.390769583 0.039514306
0.238368074 0.491850645 0.641673925 0.525367746
rs191649368:65825371:A:G ENSG00000179292
rs744434:65847982:T:G:ENSG00000179292 0.407773261 0.039514306
0.429802874 0.751091602 0.9305498 0.813853703 rs744434:65847982:T:G
ENSG00000179292
rs141453816:65921169:G:C:ENSG00000179292 0.408481727 0.039514306
0.429802874 0.751091602 0.9305498 0.813853703
rs141453816:65921169:G:C ENSG00000179292
11:65923695:ATATATATATATATATATATATATATAT:A:ENSG00000179292 0.404030971
0.039514306 0.458471274 0.749779235 0.773560498 0.748055982
11:65923695:ATATATATATATATATATATATATATAT:A ENSG00000179292
rs10488727:65928342:G:C:ENSG00000179292 0.408481727 0.039514306
0.429802874 0.751091602 0.9305498 0.813853703
rs10488727:65928342:G:C ENSG00000179292
rs7935217:65947911:C:A:ENSG00000179292 0.409709915 0.039514306
0.238368074 0.530641947 0.9305498 0.71899349
rs7935217:65947911:C:A ENSG00000179292
rs7935315:65947972:C:T:ENSG00000179292 0.408481727 0.039514306
0.436932543 0.751091602 0.9305498 0.813853703
rs7935315:65947972:C:T ENSG00000179292
rs75048144:65951301:G:C:ENSG00000179292 0.408481727 0.039514306
0.436932543 0.751091602 0.9305498 0.813853703
rs75048144:65951301:G:C ENSG00000179292
rs75050982:65952383:C:T:ENSG00000179292 0.409709915 0.039514306
0.238368074 0.530641947 0.9305498 0.71899349
rs75050982:65952383:C:T ENSG00000179292
rs77268541:65957870:G:A:ENSG00000179292 0.343365679 0.039514306
0.184980376 0.720146805 0.929846839 0.758762279
rs77268541:65957870:G:A ENSG00000179292
rs112631128:66163056:G:A:ENSG00000255517 0.215796307 0.039514306
0.710954776 0.491850645 0.9305498 0.108665807
rs112631128:66163056:G:A ENSG00000255517
11:66176237:C:A:ENSG00000255517 0.282721177 0.039514306 0.568513848
0.276782326 0.9305498 0.108665807 11:66176237:C:A ENSG00000255517
rs78195441:66652024:T:C:ENSG00000255517 0.190392053 0.039514306
0.238368074 0.458827356 0.947231409 0.063994875
rs78195441:66652024:T:C ENSG00000255517
rs76844511:66652340:C:G:ENSG00000255517 0.190392053 0.039514306
0.269469279 0.472415297 0.947231409 0.063994875
rs76844511:66652340:C:G ENSG00000255517
rs60370841:66653201:GCCAGGCAGGACC:G:ENSG00000255517 0.155490932
0.039514306 0.222302049 0.454179145 0.94619859 0.063994875
rs60370841:66653201:GCCAGGCAGGACC:G ENSG00000255517
rs58800112:66653342:G:T:ENSG00000255517 0.18193752 0.039514306
0.269469279 0.472415297 0.947231409 0.063994875
rs58800112:66653342:G:T ENSG00000255517
rs61507062:66653925:GCTCA:G:ENSG00000255517 0.175415731 0.039514306
0.269469279 0.472415297 0.946682669 0.063994875
rs61507062:66653925:GCTCA:G ENSG00000255517

rs75873993:66655811:A:G:ENSG00000255517 0.271758927 0.039514306
0.429802874 0.517229412 0.947231409 0.063994875
rs75873993:66655811:A:G ENSG00000255517
rs78682138:66656169:A:G:ENSG00000255517 0.175415731 0.039514306
0.269469279 0.476011459 0.946682669 0.063994875
rs78682138:66656169:A:G ENSG00000255517
rs75168714:66656211:C:T:ENSG00000255517 0.175415731 0.039514306
0.269469279 0.476011459 0.946682669 0.063994875
rs75168714:66656211:C:T ENSG00000255517
rs114098501:66657917:G:A:ENSG00000255517 0.169284753 0.039514306
0.269469279 0.481611326 0.946682669 0.063994875
rs114098501:66657917:G:A ENSG00000255517
rs112098903:66658621:A:G:ENSG00000255517 0.169284753 0.039514306
0.269469279 0.481611326 0.946682669 0.063994875
rs112098903:66658621:A:G ENSG00000255517
rs71479547:73480930:T:C:ENSG00000175581 0.035322296 0.209793344
0.054815691 0.072575018 0.069942274 0.063994875
rs71479547:73480930:T:C ENSG00000175581
rs9666165:73488246:C:T:ENSG00000175581 0.035322296 0.174910011
0.054815691 0.072575018 0.069942274 0.063994875
rs9666165:73488246:C:T ENSG00000175581
rs113857621:73491385:A:G:ENSG00000175581 0.035322296 0.110495165
0.054815691 0.072575018 0.069942274 0.063994875
rs113857621:73491385:A:G ENSG00000175581
rs72989220:73498094:T:C:ENSG00000175581 0.035322296 0.12731097
0.054815691 0.072575018 0.069942274 0.063994875
rs72989220:73498094:T:C ENSG00000175581
rs72989224:73500783:T:C:ENSG00000175581 0.035322296 0.12731097
0.054815691 0.072575018 0.069942274 0.063994875
rs72989224:73500783:T:C ENSG00000175581
rs4944961:74559481:C:T:ENSG00000166435 0.035322296 0.30271551
0.731144493 0.603611735 0.54593522 0.738263203
rs4944961:74559481:C:T ENSG00000166435
rs673731:74566400:G:A:ENSG00000166435 0.260395929 0.039514306
0.782893708 0.478009532 0.198669295 0.140342165 rs673731:74566400:G:A
ENSG00000166435
rs507305:74594380:T:G:ENSG00000166435 0.239371492 0.039514306
0.782893708 0.450346002 0.173591669 0.140342165 rs507305:74594380:T:G
ENSG00000166435
rs1315299:74598976:G:C:ENSG00000166435 0.239371492 0.039514306
0.786960718 0.455203609 0.173591669 0.140342165
rs1315299:74598976:G:C ENSG00000166435
rs111694354:76464812:GCGGAAAAAGTTA:G:ENSG00000254632 0.18193752
0.039514306 0.828327833 0.072575018 0.173591669 0.382106273
rs111694354:76464812:GCGGAAAAAGTTA:G ENSG00000254632
rs7942368:ENSG00000254632 0.336997499 0.039514306 0.792227512
0.072575018 0.148497947 0.174366738 rs7942368 ENSG00000254632
rs10160769:76474827:G:C:ENSG00000254632 0.146968287 0.039514306
0.621329859 0.072575018 0.148497947 0.174366738
rs10160769:76474827:G:C ENSG00000254632
rs7933092:76475488:C:T:ENSG00000254632 0.328661655 0.039514306 0.80410788
0.123210094 0.266901314 0.401203391 rs7933092:76475488:C:T
ENSG00000254632

rs1440977:76476429:C:T:ENSG00000254632 0.328661655 0.039514306 0.80525444
0.123210094 0.266901314 0.401203391 rs1440977:76476429:C:T
ENSG00000254632

rs1149600:76478854:C:T:ENSG00000254632 0.035322296 0.039514306
0.539346559 0.072575018 0.112902598 0.063994875
rs1149600:76478854:C:T ENSG00000254632

rs876361:76479205:A:G:ENSG00000254632 0.035322296 0.039514306 0.5960947
0.072575018 0.112902598 0.063994875 rs876361:76479205:A:G
ENSG00000254632

rs3077873:76479391:A:AGCCTTCCT:ENSG00000254632 0.155490932
0.039514306 0.828327833 0.123210094 0.148497947 0.140342165
rs3077873:76479391:A:AGCCTTCCT ENSG00000254632

rs1149602:76479810:G:A:ENSG00000254632 0.146968287 0.039514306
0.485354668 0.072575018 0.069942274 0.063994875
rs1149602:76479810:G:A ENSG00000254632

rs1149603:ENSG00000254632 0.035322296 0.039514306 0.608285859
0.072575018 0.112902598 0.063994875 rs1149603 ENSG00000254632

rs11826199:82644764:C:G:ENSG00000137509 0.175415731 0.039514306
0.578118442 0.751091602 0.87814657 0.75395128
rs11826199:82644764:C:G ENSG00000137509

rs7927201:ENSG00000137509 0.205647498 0.039514306 0.589831546
0.751091602 0.878531039 0.75609486 rs7927201 ENSG00000137509

rs76009608:82656522:G:A:ENSG00000137509 0.162871942 0.039514306
0.579382297 0.751091602 0.87814657 0.75395128
rs76009608:82656522:G:A ENSG00000137509

rs609124:94065953:G:A:ENSG00000020922 0.310004009 0.039514306
0.828327833 0.226823504 0.87814657 0.813853703 rs609124:94065953:G:A
ENSG00000020922

rs519263:94068220:C:T:ENSG00000020922 0.378927762 0.039514306
0.828327833 0.263905944 0.937640919 0.813853703 rs519263:94068220:C:T
ENSG00000020922

rs608238:94068829:A:G:ENSG00000020922 0.378927762 0.039514306
0.824592807 0.263905944 0.931119464 0.813853703 rs608238:94068829:A:G
ENSG00000020922

rs1784090:94068974:C:T:ENSG00000020922 0.378927762 0.039514306 0.82369917
0.263905944 0.930914437 0.813853703 rs1784090:94068974:C:T
ENSG00000020922

rs610401:94069332:A:C:ENSG00000020922 0.378927762 0.039514306
0.820123249 0.263905944 0.930914437 0.813853703 rs610401:94069332:A:C
ENSG00000020922

rs1783679:94069399:C:A:ENSG00000020922 0.381061816 0.039514306
0.820914955 0.263905944 0.931119464 0.813853703
rs1783679:94069399:C:A ENSG00000020922

rs622647:94069719:T:C:ENSG00000020922 0.290380371 0.039514306
0.828327833 0.165229468 0.945708374 0.740998143 rs622647:94069719:T:C
ENSG00000020922

rs694262:94071167:A:G:ENSG00000020922 0.271758927 0.039514306
0.837103534 0.123210094 0.9305498 0.603453089 rs694262:94071167:A:G
ENSG00000020922

rs10910420:234509259:G:C:ENSG00000168275 0.035322296 0.066642396
0.626808341 0.558498626 0.887480433 0.813853703
rs10910420:234509259:G:C ENSG00000168275

rs7523348:234511503:A:G:ENSG00000168275 0.035322296 0.066642396
0.622330718 0.558498626 0.884443178 0.813853703
rs7523348:234511503:A:G ENSG00000168275
rs74680187:236690989:CA:CAAAAA:ENSG00000223776 0.146968287
0.039514306 0.054815691 0.165229468 0.311775972 0.550290331
rs74680187:236690989:CA:CAAAAA ENSG00000223776
rs113450127:236691228:G:T:ENSG00000223776 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.382106273
rs113450127:236691228:G:T ENSG00000223776
rs73113011:236692480:G:A:ENSG00000223776 0.146968287 0.039514306
0.485354668 0.326422852 0.484480155 0.69709058
rs73113011:236692480:G:A ENSG00000223776
rs73113014:236695157:T:C:ENSG00000223776 0.146968287 0.039514306
0.054815691 0.165229468 0.288162171 0.545172079
rs73113014:236695157:T:C ENSG00000223776
rs73113027:236699455:C:T:ENSG00000223776 0.200359533 0.039514306
0.238368074 0.399004389 0.467095788 0.590052663
rs73113027:236699455:C:T ENSG00000223776
rs2093516:236700386:G:C:ENSG00000223776 0.035322296 0.039514306 0.14398786
0.072575018 0.57001038 0.56328436 rs2093516:236700386:G:C
ENSG00000223776
exml61782:ENSG00000223776 0.035322296 0.089622533 0.184980376
0.123210094 0.636822477 0.616432465 exml61782 ENSG00000223776
rs2298096:236709508:G:A:ENSG00000223776 0.035322296 0.12731097
0.090437058 0.276782326 0.731870438 0.550290331
rs2298096:236709508:G:A ENSG00000223776
exml61831:ENSG00000223776 0.146968287 0.039514306 0.470302738
0.301206855 0.490050927 0.681432383 exml61831 ENSG00000223776
rs73113054:236718060:C:T:ENSG00000223776 0.100009087 0.039514306
0.054815691 0.276782326 0.279727316 0.471730191
rs73113054:236718060:C:T ENSG00000223776
rs73113088:236726027:T:G:ENSG00000223776 0.117465891 0.039514306
0.090437058 0.263905944 0.279727316 0.497503372
rs73113088:236726027:T:G ENSG00000223776
rs73113092:236727517:A:C:ENSG00000223776 0.035322296 0.039514306
0.054815691 0.072575018 0.112902598 0.374953256
rs73113092:236727517:A:C ENSG00000223776
rs16833919:236728236:C:G:ENSG00000223776 0.132837758 0.039514306
0.054815691 0.123210094 0.300892226 0.52739468
rs16833919:236728236:C:G ENSG00000223776
rs7545816:236747701:C:T:ENSG00000223776 0.146968287 0.039514306
0.054815691 0.072575018 0.403448628 0.501122218
rs7545816:236747701:C:T ENSG00000223776
rs16833998:236750122:C:T:ENSG00000223776 0.146968287 0.039514306
0.054815691 0.072575018 0.395007577 0.501122218
rs16833998:236750122:C:T ENSG00000223776
rs16834003:236751619:T:C:ENSG00000223776 0.211426254 0.039514306
0.548514013 0.36680942 0.650850274 0.674365303
rs16834003:236751619:T:C ENSG00000223776
rs113697446:236753538:G:GT:ENSG00000223776 0.282721177 0.039514306
0.054815691 0.072575018 0.403448628 0.535941137
rs113697446:236753538:G:GT ENSG00000223776
JHU_1.242345673:ENSG00000229022 0.100009087 0.039514306 0.640107889
0.701322763 0.690981753 0.347302535 JHU_1.242345673 ENSG00000229022

rs316837:ENSG00000229022 0.117465891 0.039514306 0.640107889
0.701322763 0.690981753 0.347302535 rs316837 ENSG00000229022
rs316828:242358772:G:T:ENSG00000229022 0.117465891 0.039514306
0.628778955 0.700422823 0.690981753 0.333543658
rs316828:242358772:G:T ENSG00000229022
rs420622:242364908:T:C:ENSG00000229022 0.146129194 0.039514306
0.743226112 0.684309281 0.676756626 0.282646046
rs420622:242364908:T:C ENSG00000229022
rs316867:242366734:G:A:ENSG00000229022 0.146129194 0.039514306
0.770177467 0.682707496 0.635943247 0.24867752
rs316867:242366734:G:A ENSG00000229022
rs316856:242372705:A:G:ENSG00000229022 0.162871942 0.039514306
0.828327833 0.668553647 0.595947504 0.201281701
rs316856:242372705:A:G ENSG00000229022
rs7523438:ENSG00000229447 0.446625656 0.039514306 0.054815691
0.072575018 0.490050927 0.769253158 rs7523438 ENSG00000229447
rs6669381:31833506:A:G:ENSG00000229447 0.295612735 0.039514306
0.054815691 0.263905944 0.484480155 0.731384436
rs6669381:31833506:A:G ENSG00000229447
rs35970612:43579734:A:T:ENSG00000186973 0.035322296 0.651399716
0.283332252 0.072575018 0.484480155 0.707675982
rs35970612:43579734:A:T ENSG00000186973
rs1098564:43579899:C:T:ENSG00000186973 0.035322296 0.651399716
0.269469279 0.072575018 0.484480155 0.707675982
rs1098564:43579899:C:T ENSG00000186973
rs11213820:111160491:T:C:ENSG00000196167 0.390769583 0.039514306
0.054815691 0.566350534 0.589126514 0.347302535
rs11213820:111160491:T:C ENSG00000196167
rs4477469:111160753:C:T:ENSG00000196167 0.390769583 0.039514306
0.054815691 0.566350534 0.589126514 0.347302535
rs4477469:111160753:C:T ENSG00000196167
rs10789822:111162691:A:G:ENSG00000196167 0.398495813 0.039514306
0.054815691 0.563128951 0.599377315 0.369977602
rs10789822:111162691:A:G ENSG00000196167
rs7103178:111165009:C:T:ENSG00000196167 0.446625656 0.039514306
0.360243455 0.617124137 0.71243013 0.511827661
rs7103178:111165009:C:T ENSG00000196167
rs12296076:111166504:G:A:ENSG00000196167 0.301603763 0.039514306
0.222302049 0.558498626 0.54593522 0.460921055
rs12296076:111166504:G:A ENSG00000196167
rs7944895:111167776:C:G:ENSG00000196167 0.253880551 0.039514306
0.054815691 0.481611326 0.532319281 0.108665807
rs7944895:111167776:C:G ENSG00000196167
rs11213823:111169990:T:C:ENSG00000196167 0.39944164 0.039514306
0.090437058 0.558498626 0.704734536 0.282646046
rs11213823:111169990:T:C ENSG00000196167
rs7105857:111170744:C:T:ENSG00000196167 0.260395929 0.039514306
0.054815691 0.478009532 0.498016841 0.108665807
rs7105857:111170744:C:T ENSG00000196167
rs7122375:111171071:T:C:ENSG00000196167 0.393141652 0.039514306
0.121437838 0.558498626 0.699395727 0.24867752
rs7122375:111171071:T:C ENSG00000196167

rs3802840:111171646:T:G:ENSG00000196167 0.393141652 0.039514306
0.121437838 0.558498626 0.699395727 0.269135872
rs3802840:111171646:T:G ENSG00000196167
rs3802841:111171672:G:T:ENSG00000196167 0.393141652 0.039514306
0.121437838 0.558498626 0.699395727 0.269135872
rs3802841:111171672:G:T ENSG00000196167
rs3802842:ENSG00000196167 0.401149097 0.039514306 0.090437058
0.558498626 0.70749687 0.282646046 rs3802842 ENSG00000196167
JHU_11.111172178:ENSG00000196167 0.386834658 0.039514306 0.054815691
0.558498626 0.690981753 0.225997306 JHU_11.111172178 ENSG00000196167
rs61914772:11013319:C:T:ENSG00000247157 0.488334683 0.039514306 0.65244831
0.072575018 0.112902598 0.593888412 rs61914772:11013319:C:T
ENSG00000247157
rs17742991:11019271:T:C:ENSG00000247157 0.488334683 0.039514306 0.65244831
0.072575018 0.112902598 0.593888412 rs17742991:11019271:T:C
ENSG00000247157
rs140711835:11044252:CTTG:C:ENSG00000255837 0.215796307 0.039514306
0.618696386 0.442167795 0.731951824 0.619162849
rs140711835:11044252:CTTG:C ENSG00000255837
rs10772383:11049651:G:A:ENSG00000247157 0.343380618 0.039514306 0.48190184
0.072575018 0.069942274 0.358316132 rs10772383:11049651:G:A
ENSG00000247157
rs10845233:11051749:T:G:ENSG00000255837 0.132837758 0.039514306
0.539346559 0.36680942 0.603710229 0.464247637
rs10845233:11051749:T:G ENSG00000255837
rs7486068:11054322:C:T:ENSG00000255837 0.146129194 0.039514306
0.568513848 0.385352708 0.683006713 0.510329036
rs7486068:11054322:C:T ENSG00000255837
rs2418220:11055314:T:A:ENSG00000255837 0.146968287 0.039514306
0.507796015 0.36680942 0.580298595 0.451526982
rs2418220:11055314:T:A ENSG00000255837
rs2110094:11055946:A:C:ENSG00000255837 0.132837758 0.039514306
0.539346559 0.36680942 0.603710229 0.464247637
rs2110094:11055946:A:C ENSG00000255837
rs2110095:11056062:C:T:ENSG00000255837 0.132837758 0.039514306
0.539346559 0.36680942 0.603710229 0.464247637
rs2110095:11056062:C:T ENSG00000255837
rs11054068:11056511:A:G:ENSG00000255837 0.132837758 0.039514306
0.539346559 0.36680942 0.603710229 0.464247637
rs11054068:11056511:A:G ENSG00000255837
rs10845236:11057035:T:C:ENSG00000255837 0.248591073 0.039514306
0.624665248 0.489772876 0.765632175 0.650718924
rs10845236:11057035:T:C ENSG00000255837
rs10845237:11057384:G:C:ENSG00000255837 0.132837758 0.039514306
0.539346559 0.36680942 0.603710229 0.464247637
rs10845237:11057384:G:C ENSG00000255837
rs7968736:11058890:T:A:ENSG00000255837 0.132837758 0.039514306
0.539346559 0.36680942 0.603710229 0.464247637
rs7968736:11058890:T:A ENSG00000255837
rs10845239:11059191:T:A:ENSG00000255837 0.253880551 0.039514306
0.634291162 0.491850645 0.771563861 0.643131518
rs10845239:11059191:T:A ENSG00000255837
exm984113:ENSG00000255837 0.248591073 0.039514306 0.625050185
0.491850645 0.765632175 0.659336192 exm984113 ENSG00000255837

rs10772386:11062996:G:A:ENSG00000255837 0.132837758 0.039514306
0.545428271 0.36680942 0.617728871 0.469127215
rs10772386:11062996:G:A ENSG00000255837
rs10772387:11063365:G:A:ENSG00000255837 0.169284753 0.039514306
0.572955873 0.406267798 0.690981753 0.553258882
rs10772387:11063365:G:A ENSG00000255837
rs7299223:11063996:A:G:ENSG00000255837 0.169284753 0.039514306
0.572955873 0.406267798 0.690981753 0.553258882
rs7299223:11063996:A:G ENSG00000255837
rs10845241:11065827:T:C:ENSG00000255837 0.18193752 0.039514306
0.575705306 0.406267798 0.690981753 0.556049114
rs10845241:11065827:T:C ENSG00000255837
rs718109:11067108:C:A:ENSG00000255837 0.132837758 0.039514306
0.614457891 0.263905944 0.477032507 0.464247637 rs718109:11067108:C:A
ENSG00000255837
rs7398041:11067524:G:A:ENSG00000247157 0.349088436 0.039514306
0.613735952 0.072575018 0.148497947 0.140342165
rs7398041:11067524:G:A ENSG00000247157
rs35885379:11068880:ACT:A:ENSG00000255837 0.18193752 0.039514306
0.579382297 0.419678998 0.690981753 0.562535698
rs35885379:11068880:ACT:A ENSG00000255837
rs10772389:11069712:A:G:ENSG00000255837 0.18193752 0.039514306
0.579382297 0.419678998 0.690981753 0.562535698
rs10772389:11069712:A:G ENSG00000255837
rs11054073:11070679:T:C:ENSG00000255837 0.18193752 0.039514306
0.579382297 0.419678998 0.690981753 0.562535698
rs11054073:11070679:T:C ENSG00000255837
rs34861336:11300493:C:T:ENSG00000247157 0.501944426 0.039514306
0.618696386 0.496527133 0.559581427 0.174366738
rs34861336:11300493:C:T ENSG00000247157
rs7312090:ENSG00000256564 0.081933656 0.039514306 0.054815691
0.072575018 0.266901314 0.063994875 rs7312090 ENSG00000256564
rs10744119:16522636:C:T:ENSG00000256564 0.100009087 0.039514306
0.054815691 0.072575018 0.438540244 0.063994875
rs10744119:16522636:C:T ENSG00000256564
rs10783858:58322764:C:A:ENSG00000166896 0.282721177 0.039514306
0.828327833 0.558498626 0.882854595 0.282646046
rs10783858:58322764:C:A ENSG00000166896
rs2372309:58329820:G:A:ENSG00000166896 0.25732594 0.039514306
0.828327833 0.528521718 0.842584591 0.295623551
rs2372309:58329820:G:A ENSG00000166896
rs139501087:58330211:CTTTA:C:ENSG00000166896 0.271758927 0.039514306
0.828327833 0.558498626 0.874881554 0.308405655
rs139501087:58330211:CTTTA:C ENSG00000166896
rs77531406:58331514:C:CAAAAACA:ENSG00000166896 0.28152348
0.039514306 0.828327833 0.558498626 0.892634082 0.347302535
rs77531406:58331514:C:CAAAAACA ENSG00000166896
rs3751326:58335330:C:G:ENSG00000166896 0.280686821 0.039514306
0.828327833 0.5834429 0.901801828 0.358316132
rs3751326:58335330:C:G ENSG00000166896
rs11172841:59352431:A:C:ENSG00000139263 0.035322296 0.281740211
0.845255291 0.731347216 0.9305498 0.813853703
rs11172841:59352431:A:C ENSG00000139263

rs61919473:59356801:T:C:ENSG00000139263 0.035322296 0.110495165
0.828327833 0.671388768 0.871663065 0.767777303
rs61919473:59356801:T:C ENSG00000139263
rs10877194:59359384:T:A:ENSG00000139263 0.035322296 0.089622533
0.828327833 0.679809501 0.882854595 0.772415663
rs10877194:59359384:T:A ENSG00000139263
rs7967014:75870595:C:T:ENSG00000257497 0.035322296 0.364271932
0.548514013 0.290136921 0.069942274 0.468334324
rs7967014:75870595:C:T ENSG00000257497
rs11180540:ENSG00000257497 0.035322296 0.367821565 0.536792521
0.358702521 0.069942274 0.460921055 rs11180540 ENSG00000257497
rs2292010:75876181:A:G:ENSG00000257497 0.035322296 0.311964405
0.495886418 0.326422852 0.069942274 0.423659401
rs2292010:75876181:A:G ENSG00000257497
rs3741496:75891253:T:C:ENSG00000257497 0.035322296 0.290843861 0.50017961
0.387628207 0.069942274 0.390568128 rs3741496:75891253:T:C
ENSG00000257497
rs77121786:102446675:T:G:ENSG00000120860 0.035322296 0.110495165
0.725010873 0.491850645 0.931716561 0.813853703
rs77121786:102446675:T:G ENSG00000120860
rs7977178:102483822:G:C:ENSG00000120860 0.035322296 0.039514306
0.612361159 0.445043357 0.9305498 0.806716707
rs7977178:102483822:G:C ENSG00000120860
rs11111163:102491983:C:T:ENSG00000120860 0.035322296 0.039514306
0.536792521 0.491850645 0.9305498 0.762727032
rs11111163:102491983:C:T ENSG00000120860
rs75162381:102497698:A:G:ENSG00000120860 0.035322296 0.039514306
0.580001614 0.36680942 0.9305498 0.782163764
rs75162381:102497698:A:G ENSG00000120860
rs5800497:102508138:AC:A:ENSG00000120860 0.035322296 0.039514306
0.587216849 0.442167795 0.9305498 0.798338031
rs5800497:102508138:AC:A ENSG00000120860
rs11111168:102509931:C:A:ENSG00000120860 0.035322296 0.039514306
0.576180386 0.350892299 0.9305498 0.782163764
rs11111168:102509931:C:A ENSG00000120860
rs17529215:102510208:G:T:ENSG00000120860 0.035322296 0.039514306
0.603335467 0.441817908 0.9305498 0.806716707
rs17529215:102510208:G:T ENSG00000120860
rs11111173:102531566:A:C:ENSG00000120860 0.035322296 0.039514306
0.59314904 0.445043357 0.9305498 0.797872501
rs11111173:102531566:A:C ENSG00000120860
rs76825149:102541667:A:G:ENSG00000120860 0.100009087 0.039514306
0.650184334 0.491850645 0.9305498 0.813853703
rs76825149:102541667:A:G ENSG00000120860
rs11111183:102551714:C:T:ENSG00000120860 0.035322296 0.039514306
0.679533134 0.491850645 0.9305498 0.791549651
rs11111183:102551714:C:T ENSG00000120860
rs115193870:102577710:G:A:ENSG00000120860 0.035322296 0.202241296
0.679533134 0.558498626 0.946682669 0.629184088
rs115193870:102577710:G:A ENSG00000120860
rs56307643:102600358:CTT:C:ENSG00000120860 0.035322296 0.066642396
0.752478809 0.489772876 0.9305498 0.7765296
rs56307643:102600358:CTT:C ENSG00000120860

rs73388778:102760710:C:G:ENSG00000120860 0.035322296 0.3227674
0.794505705 0.677268785 0.938476707 0.629184088
rs73388778:102760710:C:G ENSG00000120860
rs73388787:102770163:G:C:ENSG00000120860 0.035322296 0.329515493
0.80525444 0.689549544 0.9305498 0.640308963
rs73388787:102770163:G:C ENSG00000120860
rs1027949:110430968:A:G:ENSG00000174456 0.035322296 0.507089732
0.184980376 0.751091602 0.519536868 0.469127215
rs1027949:110430968:A:G ENSG00000174456
rs10849627:110438238:G:T:ENSG00000174456 0.035322296 0.525463402
0.165546404 0.755899513 0.519536868 0.460921055
rs10849627:110438238:G:T ENSG00000174456
rs7300927:110458532:A:G:ENSG00000174456 0.035322296 0.493116043
0.090437058 0.752790479 0.480692872 0.447199093
rs7300927:110458532:A:G ENSG00000174456
rs59188958:111919638:G:A:ENSG00000198270 0.35010809 0.039514306
0.576180386 0.747912191 0.9305498 0.83504529
rs59188958:111919638:G:A ENSG00000198270
rs57081594:112009830:A:AG:ENSG00000198270 0.146968287 0.039514306
0.813888623 0.780515676 0.850760242 0.798338031
rs57081594:112009830:A:AG ENSG00000198270
rs73418393:112111353:T:C:ENSG00000198270 0.248591073 0.039514306
0.782434772 0.77760195 0.9305498 0.813853703
rs73418393:112111353:T:C ENSG00000198270
rs77509231:112111613:A:G:ENSG00000198270 0.243759522 0.039514306
0.78047011 0.778469816 0.9305498 0.813853703
rs77509231:112111613:A:G ENSG00000198270
rs12315456:112129324:G:A:ENSG00000198270 0.243759522 0.039514306
0.780198788 0.778868396 0.9305498 0.813853703
rs12315456:112129324:G:A ENSG00000198270
rs57748028:112136576:G:A:ENSG00000198270 0.23524183 0.039514306
0.778199855 0.773621024 0.9305498 0.813853703
rs57748028:112136576:G:A ENSG00000198270
rs12310926:112144646:C:T:ENSG00000198270 0.23524183 0.039514306
0.778199855 0.773621024 0.9305498 0.813853703
rs12310926:112144646:C:T ENSG00000198270
rs11064845:120051929:G:C:ENSG00000224982 0.035322296 0.675482151
0.64643305 0.571216401 0.57001038 0.517746279
rs11064845:120051929:G:C ENSG00000224982
rs113428610:132621022:C:T:ENSG00000185684 0.395046141 0.039514306
0.525522206 0.558498626 0.731325674 0.52739468
rs113428610:132621022:C:T ENSG00000185684
rs3199045:132621375:A:G:ENSG00000185163 0.035322296 0.257351931 0.42239248
0.244282474 0.741314291 0.525367746 rs3199045:132621375:A:G
ENSG00000185163
rs10128885:132621754:G:A:ENSG00000185163 0.035322296 0.463260354
0.14398786 0.276782326 0.903252402 0.451526982
rs10128885:132621754:G:A ENSG00000185163
rs11246938:132623186:C:T:ENSG00000185163 0.035322296 0.248891879
0.42239248 0.276782326 0.750632228 0.540231732
rs11246938:132623186:C:T ENSG00000185163
rs12424892:132623389:G:C:ENSG00000185163 0.035322296 0.248891879
0.42239248 0.276782326 0.750632228 0.545172079
rs12424892:132623389:G:C ENSG00000185163

rs11246940:132623473:T:C:ENSG00000185163 0.035322296 0.265249339
0.42239248 0.276782326 0.758499809 0.540231732
rs11246940:132623473:T:C ENSG00000185163
rs2442452:21211999:T:C:ENSG00000238286 0.035322296 0.668532818
0.828327833 0.717626797 0.9305498 0.813853703
rs2442452:21211999:T:C ENSG00000238286
rs2497495:21216614:G:A:ENSG00000238286 0.035322296 0.668532818
0.828327833 0.717626797 0.9305498 0.813853703
rs2497495:21216614:G:A ENSG00000238286
rs2442454:21216618:C:G:ENSG00000222726 0.035322296 0.654488658
0.090437058 0.623386692 0.069942274 0.813853703
rs2442454:21216618:C:G ENSG00000222726
rs2442454:21216618:C:G:ENSG00000238286 0.035322296 0.517717788
0.557353332 0.701991814 0.9305498 0.753387287
rs2442454:21216618:C:G ENSG00000238286
rs2497498:21222419:C:T:ENSG00000238286 0.035322296 0.668345116
0.828327833 0.716753308 0.9305498 0.813853703
rs2497498:21222419:C:T ENSG00000238286
rs2497499:21223187:A:G:ENSG00000238286 0.035322296 0.668532818
0.828327833 0.716285682 0.9305498 0.813853703
rs2497499:21223187:A:G ENSG00000238286
rs67051903:21250907:T:C:ENSG00000238286 0.035322296 0.668532818
0.828327833 0.725128731 0.9305498 0.813853703
rs67051903:21250907:T:C ENSG00000238286
rs10400669:21253143:G:A:ENSG00000238286 0.035322296 0.670820679
0.828327833 0.729477175 0.9305498 0.813853703
rs10400669:21253143:G:A ENSG00000238286
rs10400673:21253566:C:T:ENSG00000238286 0.035322296 0.670372225
0.828327833 0.728294934 0.9305498 0.813853703
rs10400673:21253566:C:T ENSG00000238286
rs3969100:21255998:C:G:ENSG00000238286 0.035322296 0.668532818
0.828327833 0.705423917 0.925113964 0.813853703
rs3969100:21255998:C:G ENSG00000238286
rs7982682:21257331:G:A:ENSG00000222726 0.035322296 0.563997567
0.054815691 0.37163762 0.069942274 0.818977027
rs7982682:21257331:G:A ENSG00000222726
rs7982682:21257331:G:A:ENSG00000238286 0.035322296 0.668532818
0.774174244 0.681982985 0.9305498 0.813853703
rs7982682:21257331:G:A ENSG00000238286
rs7984715:21257791:C:T:ENSG00000238286 0.035322296 0.654180889
0.618696386 0.622429433 0.9305498 0.813853703
rs7984715:21257791:C:T ENSG00000238286
rs143824011:21260179:T:TC:ENSG00000222726 0.035322296 0.651399716
0.054815691 0.379688866 0.069942274 0.813853703
rs143824011:21260179:T:TC ENSG00000222726
rs143824011:21260179:T:TC:ENSG00000238286 0.035322296 0.668532818
0.828327833 0.70721118 0.925113964 0.813853703
rs143824011:21260179:T:TC ENSG00000238286
rs149752839:21260778:TATG:T:ENSG00000222726 0.035322296 0.651399716
0.054815691 0.379688866 0.069942274 0.813853703
rs149752839:21260778:TATG:T ENSG00000222726
rs149752839:21260778:TATG:T:ENSG00000238286 0.035322296 0.668532818
0.828327833 0.70721118 0.925113964 0.813853703
rs149752839:21260778:TATG:T ENSG00000238286

rs7330396:21263439:T:C:ENSG00000222726 0.035322296 0.651399716
0.121437838 0.390584104 0.069942274 0.813853703
rs7330396:21263439:T:C ENSG00000222726
rs7330396:21263439:T:C:ENSG00000238286 0.035322296 0.668532818
0.828327833 0.709320069 0.925113964 0.813853703
rs7330396:21263439:T:C ENSG00000238286
rs11619739:24473381:C:T:ENSG00000205861 0.035322296 0.659458527
0.054815691 0.072575018 0.9305498 0.063994875
rs11619739:24473381:C:T ENSG00000205861
rs11617793:24474724:G:A:ENSG00000205861 0.035322296 0.661594802
0.054815691 0.072575018 0.9305498 0.063994875
rs11617793:24474724:G:A ENSG00000205861
rs372562884:28024687:GTACAGCGGATCTGCGGCGAGTCCCC:G:ENSG00000122033
0.035322296 0.3227674 0.054815691 0.072575018 0.498016841
0.063994875 rs372562884:28024687:GTACAGCGGATCTGCGGCGAGTCCCC:G
ENSG00000122033
rs7321650:28026695:G:A:ENSG00000122033 0.035322296 0.316996396
0.054815691 0.072575018 0.493250562 0.063994875
rs7321650:28026695:G:A ENSG00000122033
rs146889296:43623125:CAT:C:ENSG00000120675 0.565744657 0.039514306
0.65244831 0.77086265 0.069942274 0.063994875
rs146889296:43623125:CAT:C ENSG00000120675
rs111683717:43625539:GT:G:ENSG00000120675 0.565744657 0.039514306
0.651509705 0.769112355 0.069942274 0.063994875
rs111683717:43625539:GT:G ENSG00000120675
rs9533362:43625801:A:G:ENSG00000120675 0.58567939 0.039514306
0.842937047 0.751091602 0.069942274 0.419171564
rs9533362:43625801:A:G ENSG00000120675
rs9533363:43626226:G:A:ENSG00000120675 0.565744657 0.039514306
0.651509705 0.76780829 0.069942274 0.063994875
rs9533363:43626226:G:A ENSG00000120675
rs9533376:43641050:C:T:ENSG00000120675 0.561219495 0.039514306 0.65244831
0.753959404 0.112902598 0.108665807 rs9533376:43641050:C:T
ENSG00000120675
rs9525732:43645337:C:A:ENSG00000120675 0.367519282 0.039514306 0.50017961
0.751091602 0.731325674 0.441545027 rs9525732:43645337:C:A
ENSG00000120675
rs9533378:43646516:G:A:ENSG00000120675 0.367519282 0.039514306 0.50017961
0.751091602 0.731870438 0.441545027 rs9533378:43646516:G:A
ENSG00000120675
rs9594879:43653549:A:T:ENSG00000120675 0.36952798 0.039514306 0.50017961
0.751091602 0.731325674 0.441545027 rs9594879:43653549:A:T
ENSG00000120675
rs10870768:43654658:G:A:ENSG00000120675 0.561052842 0.039514306
0.651509705 0.754218833 0.112902598 0.108665807
rs10870768:43654658:G:A ENSG00000120675
rs11384038:43655581:A:AT:ENSG00000120675 0.359567157 0.039514306
0.50017961 0.751091602 0.734695661 0.447199093
rs11384038:43655581:A:AT ENSG00000120675
rs68161393:43656319:GA:G:ENSG00000120675 0.472812833 0.039514306
0.090437058 0.751091602 0.519536868 0.664807456
rs68161393:43656319:GA:G ENSG00000120675

rs9315986:43656443:C:A:ENSG00000120675 0.36952798 0.039514306
0.498407593 0.751091602 0.730942663 0.441545027
rs9315986:43656443:C:A ENSG00000120675
rs9533381:43658209:G:A:ENSG00000120675 0.36952798 0.039514306 0.50017961
0.751091602 0.731325674 0.447199093 rs9533381:43658209:G:A
ENSG00000120675
rs9525733:43659274:T:C:ENSG00000120675 0.373921919 0.039514306 0.50017961
0.751091602 0.731325674 0.447199093 rs9525733:43659274:T:C
ENSG00000120675
rs9533383:43663837:A:T:ENSG00000120675 0.559376911 0.039514306
0.655792554 0.751091602 0.173591669 0.201281701
rs9533383:43663837:A:T ENSG00000120675
rs112020474:45915501:G:T:ENSG00000170919 0.035322296 0.512971076
0.269469279 0.751091602 0.589126514 0.740998143
rs112020474:45915501:G:T ENSG00000170919
rs9595306:45919127:A:C:ENSG00000170919 0.035322296 0.396207958 0.20393713
0.704092316 0.559581427 0.737268887 rs9595306:45919127:A:C
ENSG00000170919
rs9590895:45923747:A:G:ENSG00000170919 0.035322296 0.396207958 0.20393713
0.704092316 0.559581427 0.736913564 rs9590895:45923747:A:G
ENSG00000170919
rs113967463:45933580:G:A:ENSG00000170919 0.035322296 0.407321946
0.20393713 0.707827228 0.574209974 0.739943978
rs113967463:45933580:G:A ENSG00000170919
rs61704280:45934861:T:C:ENSG00000170919 0.035322296 0.413564954 0.20393713
0.709320069 0.574209974 0.740076738 rs61704280:45934861:T:C
ENSG00000170919
rs9595313:45938671:C:A:ENSG00000170919 0.035322296 0.523385358
0.269469279 0.751091602 0.614364441 0.752990839
rs9595313:45938671:C:A ENSG00000170919
rs73476557:45946982:C:A:ENSG00000170919 0.035322296 0.555150776
0.269469279 0.751091602 0.679445541 0.762727032
rs73476557:45946982:C:A ENSG00000170919
rs9595316:45948359:G:A:ENSG00000170919 0.035322296 0.56559224
0.269469279 0.751091602 0.685405973 0.772415663
rs9595316:45948359:G:A ENSG00000170919
rs9805304:45949677:C:T:ENSG00000170919 0.035322296 0.512971076
0.238368074 0.726760123 0.679445541 0.769253158
rs9805304:45949677:C:T ENSG00000170919
rs10161660:45950930:T:G:ENSG00000170919 0.035322296 0.570353739
0.269469279 0.751091602 0.690981753 0.7785228
rs10161660:45950930:T:G ENSG00000170919
rs10162203:45952609:C:G:ENSG00000170919 0.035322296 0.586797265
0.283332252 0.757155561 0.690981753 0.781735686
rs10162203:45952609:C:G ENSG00000170919
rs56350840:45953293:G:T:ENSG00000170919 0.035322296 0.58760415
0.283332252 0.751091602 0.690981753 0.780608344
rs56350840:45953293:G:T ENSG00000170919
rs55885295:45953307:C:T:ENSG00000170919 0.035322296 0.590118
0.283332252 0.754218833 0.690981753 0.78106651
rs55885295:45953307:C:T ENSG00000170919
rs11841598:45954224:G:T:ENSG00000170919 0.035322296 0.515426761
0.269469279 0.726760123 0.690981753 0.781735686
rs11841598:45954224:G:T ENSG00000170919

rs28435544:45954988:G:C:ENSG00000170919 0.035322296 0.502579396
0.054815691 0.69625478 0.450253392 0.358316132
rs28435544:45954988:G:C ENSG00000170919
rs111473660:45956575:T:G:ENSG00000170919 0.035322296 0.643711938
0.269469279 0.729821915 0.812687026 0.813789279
rs111473660:45956575:T:G ENSG00000170919
rs74070670:45956644:C:G:ENSG00000170919 0.035322296 0.58760415
0.269469279 0.75677042 0.690981753 0.781735686
rs74070670:45956644:C:G ENSG00000170919
rs113256989:45965483:G:A:ENSG00000170919 0.035322296 0.524250773
0.238368074 0.731347216 0.690981753 0.777460719
rs113256989:45965483:G:A ENSG00000170919
rs78670880:24963826:G:A:ENSG00000100445 0.035322296 0.305849216
0.054815691 0.778955161 0.069942274 0.813853703
rs78670880:24963826:G:A ENSG00000100445
rs77307365:34865302:T:G:ENSG00000165389 0.035322296 0.039514306
0.054815691 0.072575018 0.112902598 0.063994875
rs77307365:34865302:T:G ENSG00000165389
rs7160736:34891565:T:C:ENSG00000165389 0.035322296 0.202241296
0.054815691 0.290136921 0.112902598 0.063994875
rs7160736:34891565:T:C ENSG00000165389
rs12100582:35725889:T:G:ENSG00000100890 0.253880551 0.039514306
0.828327833 0.435112224 0.311775972 0.813853703
rs12100582:35725889:T:G ENSG00000100890
rs2415278:35726224:G:A:ENSG00000100890 0.205647498 0.039514306
0.832893967 0.123210094 0.420268827 0.813853703
rs2415278:35726224:G:A ENSG00000100890
rs10132920:35729291:C:T:ENSG00000100890 0.271758927 0.039514306
0.828327833 0.445043357 0.371793022 0.813853703
rs10132920:35729291:C:T ENSG00000100890
rs28505171:35732891:C:A:ENSG00000100890 0.22504072 0.039514306
0.828327833 0.390584104 0.311775972 0.813853703
rs28505171:35732891:C:A ENSG00000100890
rs8016140:ENSG00000100890 0.169284753 0.039514306 0.830713684
0.406267798 0.266901314 0.813853703 rs8016140 ENSG00000100890
rs34728568:35741240:C:CA:ENSG00000100890 0.228236375 0.039514306
0.828327833 0.408307051 0.311775972 0.813853703
rs34728568:35741240:C:CA ENSG00000100890
rs8009666:35743596:C:T:ENSG00000100890 0.228236375 0.039514306
0.828327833 0.408307051 0.311775972 0.813853703
rs8009666:35743596:C:T ENSG00000100890
rs7493705:35744288:A:C:ENSG00000100890 0.288194279 0.039514306
0.828369156 0.424824518 0.347424829 0.813853703
rs7493705:35744288:A:C ENSG00000100890
rs2415284:35744568:G:T:ENSG00000100890 0.155490932 0.039514306
0.853698456 0.290136921 0.173591669 0.813853703
rs2415284:35744568:G:T ENSG00000100890
rs1064248:35744839:G:A:ENSG00000100890 0.211426254 0.039514306
0.853698456 0.358702521 0.218559406 0.813853703
rs1064248:35744839:G:A ENSG00000100890
rs28665705:35746312:A:G:ENSG00000100890 0.282721177 0.039514306
0.828327833 0.442167795 0.371793022 0.813853703
rs28665705:35746312:A:G ENSG00000100890

rs17103147:35747918:C:T:ENSG00000100890 0.282721177 0.039514306
0.828327833 0.442167795 0.381322091 0.813853703
rs17103147:35747918:C:T ENSG00000100890
rs10149823:35748640:T:C:ENSG00000100890 0.282721177 0.039514306
0.828327833 0.442167795 0.381322091 0.813853703
rs10149823:35748640:T:C ENSG00000100890
rs73239072:35749956:A:T:ENSG00000100890 0.282721177 0.039514306
0.828327833 0.442167795 0.381322091 0.813853703
rs73239072:35749956:A:T ENSG00000100890
rs28708376:35751030:A:G:ENSG00000100890 0.282721177 0.039514306
0.828327833 0.442167795 0.381322091 0.813853703
rs28708376:35751030:A:G ENSG00000100890
rs11845364:35752310:A:G:ENSG00000100890 0.219347314 0.039514306
0.828327833 0.072575018 0.218559406 0.732355467
rs11845364:35752310:A:G ENSG00000100890
rs6571709:35753888:G:T:ENSG00000100890 0.291376195 0.039514306
0.828327833 0.447551187 0.381322091 0.813853703
rs6571709:35753888:G:T ENSG00000100890
rs10142846:35755087:G:T:ENSG00000100890 0.190392053 0.039514306 0.83247031
0.414104514 0.311775972 0.813853703 rs10142846:35755087:G:T
ENSG00000100890
rs876996:35755296:G:A:ENSG00000100890 0.200359533 0.039514306
0.853698456 0.350892299 0.218559406 0.813853703 rs876996:35755296:G:A
ENSG00000100890
rs2277461:35761366:A:G:ENSG00000100890 0.28152348 0.039514306
0.828327833 0.442167795 0.381322091 0.813853703
rs2277461:35761366:A:G ENSG00000100890
rs2277459:ENSG00000100890 0.282721177 0.039514306 0.828327833
0.442167795 0.371793022 0.813853703 rs2277459 ENSG00000100890
rs28595436:35763438:G:T:ENSG00000100890 0.271758927 0.039514306
0.828327833 0.399004389 0.311775972 0.813853703
rs28595436:35763438:G:T ENSG00000100890
rs35985921:35763480:A:AC:ENSG00000100890 0.290380371 0.039514306
0.828327833 0.447551187 0.445056985 0.813853703
rs35985921:35763480:A:AC ENSG00000100890
rs56899036:35767934:T:TTTA:ENSG00000100890 0.271758927 0.039514306
0.70601294 0.419678998 0.381322091 0.822986502
rs56899036:35767934:T:TTTA ENSG00000100890
rs8010905:35768272:G:A:ENSG00000100890 0.288194279 0.039514306
0.728288658 0.476011459 0.395007577 0.823834589
rs8010905:35768272:G:A ENSG00000100890
rs10134308:35777531:G:A:ENSG00000100890 0.361838155 0.039514306
0.806718901 0.472415297 0.493250562 0.833015383
rs10134308:35777531:G:A ENSG00000100890
rs111388219:35782964:A:G:ENSG00000100890 0.336997499 0.039514306
0.774918193 0.454179145 0.477032507 0.83346897
rs111388219:35782964:A:G ENSG00000100890
rs7149602:35787669:T:C:ENSG00000100890 0.365060315 0.039514306
0.806718901 0.472415297 0.519536868 0.831753861
rs7149602:35787669:T:C ENSG00000100890
rs7148424:35787827:A:G:ENSG00000100890 0.339000963 0.039514306
0.774918193 0.450346002 0.480692872 0.832178722
rs7148424:35787827:A:G ENSG00000100890

rs1804820:57676330:G:T:ENSG00000070367 0.035322296 0.583196386
0.761772115 0.736814521 0.069942274 0.614118716
rs1804820:57676330:G:T ENSG00000070367
rs10143527:57676511:T:A:ENSG00000070367 0.035322296 0.682685759
0.589831546 0.653716589 0.069942274 0.768929031
rs10143527:57676511:T:A ENSG00000070367
rs28807516:57678446:C:A:ENSG00000070367 0.035322296 0.59034627
0.749414821 0.736267142 0.069942274 0.611611212
rs28807516:57678446:C:A ENSG00000070367
rs73290112:57678791:C:T:ENSG00000070367 0.035322296 0.573615857
0.746997764 0.736814521 0.069942274 0.60918994
rs73290112:57678791:C:T ENSG00000070367
rs10140987:57679484:A:G:ENSG00000070367 0.035322296 0.57709595
0.747767793 0.735483942 0.069942274 0.60918994
rs10140987:57679484:A:G ENSG00000070367
rs10130517:57679765:T:C:ENSG00000070367 0.035322296 0.574428997
0.746997764 0.736140631 0.069942274 0.60918994
rs10130517:57679765:T:C ENSG00000070367
rs10133566:57680056:C:T:ENSG00000070367 0.035322296 0.570701598
0.828327833 0.684309281 0.069942274 0.540231732
rs10133566:57680056:C:T ENSG00000070367
rs111355148:57680556:T:C:ENSG00000070367 0.035322296 0.573615857
0.744376278 0.735483942 0.069942274 0.611611212
rs111355148:57680556:T:C ENSG00000070367
rs73290116:57680603:A:G:ENSG00000070367 0.035322296 0.458797961
0.641688238 0.688857419 0.112902598 0.775020218
rs73290116:57680603:A:G ENSG00000070367
rs113394236:57680666:A:C:ENSG00000070367 0.035322296 0.573615857
0.747767793 0.736140631 0.069942274 0.611611212
rs113394236:57680666:A:C ENSG00000070367
rs73290117:57680886:A:G:ENSG00000070367 0.035322296 0.574428997
0.750174412 0.736267142 0.069942274 0.611611212
rs73290117:57680886:A:G ENSG00000070367
rs57976868:57680938:G:A:ENSG00000070367 0.035322296 0.573615857 0.75173213
0.736140631 0.069942274 0.60918994 rs57976868:57680938:G:A
ENSG00000070367
rs8019850:57685434:C:T:ENSG00000070367 0.035322296 0.603890882
0.578118442 0.472415297 0.069942274 0.813853703
rs8019850:57685434:C:T ENSG00000070367
rs10133958:57687488:G:A:ENSG00000070367 0.035322296 0.57709595
0.754949626 0.735483942 0.069942274 0.611611212
rs10133958:57687488:G:A ENSG00000070367
rs8015967:57687997:A:G:ENSG00000070367 0.035322296 0.580313
0.622330718 0.493098162 0.069942274 0.813853703
rs8015967:57687997:A:G ENSG00000070367
rs11846972:57688856:A:T:ENSG00000070367 0.035322296 0.316996396
0.647729604 0.558498626 0.069942274 0.813853703
rs11846972:57688856:A:T ENSG00000070367
rs7141360:57691734:C:T:ENSG00000070367 0.035322296 0.578883077
0.759245271 0.735483942 0.069942274 0.613318589
rs7141360:57691734:C:T ENSG00000070367
rs10133193:57692731:G:A:ENSG00000070367 0.035322296 0.578883077
0.759245271 0.735483942 0.069942274 0.613318589
rs10133193:57692731:G:A ENSG00000070367

rs10133137:57692835:C:A:ENSG00000070367 0.035322296 0.578883077
0.760415187 0.734906841 0.069942274 0.613318589
rs10133137:57692835:C:A ENSG00000070367
rs7152967:57693437:C:G:ENSG00000070367 0.035322296 0.631133206
0.568513848 0.559048117 0.069942274 0.813853703
rs7152967:57693437:C:G ENSG00000070367
rs10136423:57693829:C:T:ENSG00000070367 0.035322296 0.58760415
0.753805316 0.734906841 0.069942274 0.619162849
rs10136423:57693829:C:T ENSG00000070367
JHU_14.57697163:ENSG00000070367 0.035322296 0.38687185 0.734607875
0.723001209 0.069942274 0.617532259 JHU_14.57697163 ENSG00000070367
rs1980783:57704232:T:C:ENSG00000070367 0.035322296 0.651399716
0.645109255 0.705838141 0.069942274 0.813853703
rs1980783:57704232:T:C ENSG00000070367
rs9323304:57712482:A:C:ENSG00000070367 0.035322296 0.581512524
0.626634581 0.500294942 0.069942274 0.813853703
rs9323304:57712482:A:C ENSG00000070367
rs7147218:57722057:T:G:ENSG00000070367 0.035322296 0.629866286
0.568513848 0.558498626 0.069942274 0.813853703
rs7147218:57722057:T:G ENSG00000070367
rs10147752:57732270:A:G:ENSG00000070367 0.035322296 0.631133206
0.568513848 0.558498626 0.069942274 0.813853703
rs10147752:57732270:A:G ENSG00000070367
rs4898929:ENSG00000070367 0.561476075 0.039514306 0.400191924
0.197042097 0.9305498 0.369977602 rs4898929 ENSG00000070367
rs6573144:57772968:A:G:ENSG00000070367 0.561202335 0.039514306
0.400191924 0.197042097 0.9305498 0.374953256
rs6573144:57772968:A:G ENSG00000070367
rs10146535:57774291:C:G:ENSG00000070367 0.578959133 0.039514306
0.626634581 0.493098162 0.9305498 0.682445152
rs10146535:57774291:C:G ENSG00000070367
rs10146846:57774721:A:G:ENSG00000070367 0.561173628 0.039514306
0.398350929 0.226823504 0.924570959 0.401203391
rs10146846:57774721:A:G ENSG00000070367
rs4465520:57777207:G:A:ENSG00000070367 0.58925339 0.039514306
0.618696386 0.37163762 0.864454465 0.813853703
rs4465520:57777207:G:A ENSG00000070367
rs71114129:61133161:ATG:A:ENSG00000020426 0.035322296 0.661628136
0.054815691 0.401539023 0.300892226 0.761294408
rs71114129:61133161:ATG:A ENSG00000020426
rs61990855:78125855:C:T:ENSG00000239272 0.146129194 0.039514306
0.568513848 0.263905944 0.603364769 0.813853703
rs61990855:78125855:C:T ENSG00000239272
14:78135510:CAA:C:ENSG00000239272 0.155490932 0.039514306 0.054815691
0.263905944 0.388754065 0.813853703 14:78135510:CAA:C:ENSG00000239272
rs61992869:78136458:G:A:ENSG00000239272 0.146968287 0.039514306
0.609676623 0.276782326 0.647818531 0.813853703
rs61992869:78136458:G:A ENSG00000239272
rs80346581:78138187:T:C:ENSG00000239272 0.155490932 0.039514306
0.054815691 0.263905944 0.410008196 0.813853703
rs80346581:78138187:T:C ENSG00000239272
rs4903628:78142964:A:G:ENSG00000239272 0.190392053 0.039514306
0.054815691 0.314254491 0.519536868 0.813853703
rs4903628:78142964:A:G ENSG00000239272

rs8014720:78146606:C:A:ENSG00000239272 0.190392053 0.039514306
0.054815691 0.314254491 0.519536868 0.813853703
rs8014720:78146606:C:A ENSG00000239272
rs4899671:78153052:C:T:ENSG00000239272 0.155490932 0.039514306
0.054815691 0.276782326 0.403448628 0.813853703
rs4899671:78153052:C:T ENSG00000239272
rs61992917:78154069:T:C:ENSG00000239272 0.132837758 0.039514306
0.582677515 0.263905944 0.580298595 0.813853703
rs61992917:78154069:T:C ENSG00000239272
rs7147748:78154856:C:T:ENSG00000239272 0.146129194 0.039514306
0.589831546 0.276782326 0.603364769 0.813853703
rs7147748:78154856:C:T ENSG00000239272
rs61992919:78156487:G:A:ENSG00000239272 0.146968287 0.039514306
0.054815691 0.290136921 0.472198515 0.813853703
rs61992919:78156487:G:A ENSG00000239272
rs7143382:78157186:C:T:ENSG00000239272 0.175415731 0.039514306
0.054815691 0.290136921 0.490050927 0.813853703
rs7143382:78157186:C:T ENSG00000239272
rs79133654:78158945:T:C:ENSG00000239272 0.146968287 0.039514306
0.054815691 0.276782326 0.410008196 0.813853703
rs79133654:78158945:T:C ENSG00000239272
rs113912605:78166415:T:A:ENSG00000239272 0.060909118 0.039514306
0.626634581 0.350892299 0.647818531 0.813853703
rs113912605:78166415:T:A ENSG00000239272
rs45611739:78187032:T:C:ENSG00000239272 0.146968287 0.039514306
0.054815691 0.276782326 0.410008196 0.813853703
rs45611739:78187032:T:C ENSG00000239272
rs6574390:78193545:C:T:ENSG00000239272 0.146968287 0.039514306
0.054815691 0.276782326 0.410008196 0.813853703
rs6574390:78193545:C:T ENSG00000239272
rs45519831:78203713:T:C:ENSG00000239272 0.146968287 0.039514306
0.581240934 0.263905944 0.565674613 0.813853703
rs45519831:78203713:T:C ENSG00000239272
rs1030152:78206148:C:A:ENSG00000239272 0.155490932 0.039514306
0.618696386 0.326422852 0.672672971 0.813853703
rs1030152:78206148:C:A ENSG00000239272
rs142051467:78208428:G:C:ENSG00000239272 0.035322296 0.039514306
0.351078567 0.072575018 0.173591669 0.497503372
rs142051467:78208428:G:C ENSG00000239272
rs57654091:78210958:C:T:ENSG00000239272 0.146968287 0.039514306
0.054815691 0.276782326 0.410008196 0.813853703
rs57654091:78210958:C:T ENSG00000239272
JHU_14.78224363:ENSG00000239272 0.146968287 0.039514306 0.054815691
0.276782326 0.410008196 0.813853703 JHU_14.78224363 ENSG00000239272
rs139185593:78226163:T:TA:ENSG00000239272 0.146968287 0.039514306
0.593231314 0.276782326 0.603710229 0.813853703
rs139185593:78226163:T:TA ENSG00000239272
rs78518545:78252381:C:T:ENSG00000239272 0.155490932 0.039514306
0.618696386 0.326422852 0.672672971 0.813853703
rs78518545:78252381:C:T ENSG00000239272
rs61990717:78268930:A:C:ENSG00000239272 0.146968287 0.039514306
0.618696386 0.326422852 0.675380087 0.813853703
rs61990717:78268930:A:C ENSG00000239272

rs115634906:78277759:A:C:ENSG00000239272 0.035322296 0.039514306
0.090437058 0.072575018 0.112902598 0.108665807
rs115634906:78277759:A:C ENSG00000239272
rs2278314:ENSG00000259287 0.035322296 0.039514306 0.718826765
0.072575018 0.148497947 0.431187426 rs2278314 ENSG00000259287
rs7174516:34141310:T:C:ENSG00000259287 0.035322296 0.039514306
0.762115044 0.072575018 0.069942274 0.401203391
rs7174516:34141310:T:C ENSG00000259287
rs7169684:34141327:A:G:ENSG00000259287 0.035322296 0.039514306
0.763265946 0.072575018 0.069942274 0.401203391
rs7169684:34141327:A:G ENSG00000259287
rs11270611:34144264:A:ATTTGCTGAGGTTATTCTTC:ENSG00000259287
0.035322296 0.039514306 0.801175004 0.123210094 0.173591669
0.460921055 rs11270611:34144264:A:ATTTGCTGAGGTTATTCTTC
ENSG00000259287
rs11630104:34146324:C:G:ENSG00000259287 0.035322296 0.202241296
0.828327833 0.385352708 0.460100455 0.80054243
rs11630104:34146324:C:G ENSG00000259287
rs11634201:34149446:T:C:ENSG00000259287 0.035322296 0.202241296
0.828327833 0.333474506 0.410008196 0.783188262
rs11634201:34149446:T:C ENSG00000259287
rs61351846:34149452:CACCA:C:ENSG00000259287 0.035322296 0.189251465
0.828327833 0.333474506 0.410008196 0.782163764
rs61351846:34149452:CACCA:C ENSG00000259287
rs375469840:34149457:GCAC:G:ENSG00000259287 0.035322296 0.189251465
0.828327833 0.333474506 0.410008196 0.782163764
rs375469840:34149457:GCAC:G ENSG00000259287
rs144134586:34149461:C:T:ENSG00000259287 0.035322296 0.240653097
0.828327833 0.37163762 0.490050927 0.786798608
rs144134586:34149461:C:T ENSG00000259287
rs8042944:34154687:T:C:ENSG00000259287 0.035322296 0.248891879
0.767962809 0.333474506 0.498016841 0.776319597
rs8042944:34154687:T:C ENSG00000259287
rs891342:34173978:A:T:ENSG00000259287 0.035322296 0.248891879
0.767962809 0.333474506 0.498016841 0.776319597 rs891342:34173978:A:T
ENSG00000259287
rs144257161:34186220:G:A:ENSG00000259287 0.035322296 0.396207958
0.814800802 0.340834261 0.438540244 0.813853703
rs144257161:34186220:G:A ENSG00000259287
rs11629711:40853692:C:T:ENSG00000128891 0.035322296 0.568032122
0.381585774 0.503364172 0.381322091 0.782163764
rs11629711:40853692:C:T ENSG00000128891
rs74632444:65729522:C:T:ENSG00000074621 0.100009087 0.039514306
0.090437058 0.072575018 0.069942274 0.063994875
rs74632444:65729522:C:T ENSG00000074621
rs7179918:65730235:G:C:ENSG00000074621 0.100009087 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7179918:65730235:G:C ENSG00000074621
rs58686752:65731657:C:T:ENSG00000074621 0.081933656 0.039514306
0.090437058 0.072575018 0.069942274 0.063994875
rs58686752:65731657:C:T ENSG00000074621
rs892651:65732920:G:A:ENSG00000074621 0.100009087 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs892651:65732920:G:A
ENSG00000074621

rs7178060:65735497:A:G:ENSG00000074621 0.100009087 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7178060:65735497:A:G ENSG00000074621
rs58506591:65739487:A:G:ENSG00000074621 0.100009087 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs58506591:65739487:A:G ENSG00000074621
rs79730739:65742978:C:T:ENSG00000074621 0.060909118 0.039514306
0.090437058 0.072575018 0.069942274 0.063994875
rs79730739:65742978:C:T ENSG00000074621
rs7178317:65744010:C:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7178317:65744010:C:G ENSG00000074621
rs146315273:65750602:CTTT:C:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs146315273:65750602:CTTT:C ENSG00000074621
rs352470:65765149:A:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs352470:65765149:A:G
ENSG00000074621
rs150933386:65766292:A:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs150933386:65766292:A:G ENSG00000074621
rs7166973:65766893:A:C:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7166973:65766893:A:C ENSG00000074621
rs80129848:65769314:G:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs80129848:65769314:G:A ENSG00000074621
rs146269890:65770706:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs146269890:65770706:C:T ENSG00000074621
rs389377:65771454:T:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs389377:65771454:T:A
ENSG00000074621
rs78660811:65771545:T:C:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs78660811:65771545:T:C ENSG00000074621
rs386739:65772158:T:C:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs386739:65772158:T:C
ENSG00000074621
rs352461:65772698:T:C:ENSG00000074621 0.035322296 0.174910011
0.054815691 0.072575018 0.069942274 0.063994875 rs352461:65772698:T:C
ENSG00000074621
rs352459:65773405:A:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs352459:65773405:A:G
ENSG00000074621
rs144248686:65774370:G:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs144248686:65774370:G:A ENSG00000074621
rs352457:65777205:G:A:ENSG00000074621 0.035322296 0.174910011
0.054815691 0.072575018 0.069942274 0.063994875 rs352457:65777205:G:A
ENSG00000074621
rs144530655:65779117:T:C:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs144530655:65779117:T:C ENSG00000074621

rs78122233:65781291:G:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs78122233:65781291:G:A ENSG00000074621
rs137885667:65782040:G:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs137885667:65782040:G:A ENSG00000074621
rs58891728:65784107:G:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs58891728:65784107:G:T ENSG00000074621
rs148948226:65784224:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs148948226:65784224:C:T ENSG00000074621
rs114242275:65784607:G:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs114242275:65784607:G:T ENSG00000074621
rs620188:65785277:T:A:ENSG00000074621 0.035322296 0.110495165
0.054815691 0.072575018 0.069942274 0.063994875 rs620188:65785277:T:A
ENSG00000074621
rs610683:65785420:T:C:ENSG00000074621 0.035322296 0.110495165
0.054815691 0.072575018 0.069942274 0.063994875 rs610683:65785420:T:C
ENSG00000074621
rs140160070:65786784:C:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs140160070:65786784:C:G ENSG00000074621
rs145340349:65789423:T:C:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs145340349:65789423:T:C ENSG00000074621
rs115499592:65789521:G:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs115499592:65789521:G:A ENSG00000074621
rs138305134:65793497:G:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs138305134:65793497:G:A ENSG00000074621
rs143050071:65796293:T:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs143050071:65796293:T:G ENSG00000074621
rs115612979:65796399:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs115612979:65796399:C:T ENSG00000074621
rs139283067:65796443:G:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs139283067:65796443:G:A ENSG00000074621
rs116152077:65796557:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs116152077:65796557:C:T ENSG00000074621
rs150649020:65798584:T:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs150649020:65798584:T:G ENSG00000074621
rs7166386:65801863:T:C:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7166386:65801863:T:C ENSG00000074621
rs61261367:65802179:T:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs61261367:65802179:T:G ENSG00000074621

rs352475:65805638:G:A:ENSG00000074621 0.035322296 0.110495165
0.054815691 0.072575018 0.069942274 0.063994875 rs352475:65805638:G:A
ENSG00000074621

rs10581611:65806077:CTAA:C:ENSG00000074621 0.035322296 0.110495165
0.054815691 0.072575018 0.069942274 0.063994875
rs10581611:65806077:CTAA:C ENSG00000074621

rs138825157:65807137:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs138825157:65807137:C:T ENSG00000074621

rs352471:65807558:C:G:ENSG00000074621 0.035322296 0.257351931
0.054815691 0.072575018 0.069942274 0.063994875 rs352471:65807558:C:G
ENSG00000074621

rs75156244:65808387:G:C:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs75156244:65808387:G:C ENSG00000074621

rs75220880:65809918:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs75220880:65809918:C:T ENSG00000074621

rs398157:65810413:C:T:ENSG00000074621 0.035322296 0.110495165
0.054815691 0.072575018 0.069942274 0.063994875 rs398157:65810413:C:T
ENSG00000074621

rs115493777:65813027:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs115493777:65813027:C:T ENSG00000074621

rs375004:65813652:G:A:ENSG00000074621 0.035322296 0.110495165
0.054815691 0.072575018 0.069942274 0.063994875 rs375004:65813652:G:A
ENSG00000074621

rs399741:65813689:A:T:ENSG00000074621 0.035322296 0.110495165
0.054815691 0.072575018 0.069942274 0.063994875 rs399741:65813689:A:T
ENSG00000074621

rs71409143:65815642:G:T:ENSG00000074621 0.035322296 0.089622533
0.054815691 0.072575018 0.069942274 0.063994875
rs71409143:65815642:G:T ENSG00000074621

rs183902769:65815761:G:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs183902769:65815761:G:A ENSG00000074621

rs192707620:65815832:G:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs192707620:65815832:G:A ENSG00000074621

rs2437046:65822175:A:C:ENSG00000074621 0.035322296 0.257351931
0.054815691 0.072575018 0.069942274 0.063994875
rs2437046:65822175:A:C ENSG00000074621

rs422390:65822823:C:G:ENSG00000074621 0.035322296 0.202241296
0.054815691 0.072575018 0.069942274 0.063994875 rs422390:65822823:C:G
ENSG00000074621

rs79212417:65823783:C:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs79212417:65823783:C:G ENSG00000074621

rs77713110:65827474:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs77713110:65827474:C:T ENSG00000074621

rs8031064:65834031:T:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs8031064:65834031:T:G ENSG00000074621

rs149382453:65834304:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs149382453:65834304:C:T ENSG00000074621
rs140759299:65836389:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs140759299:65836389:C:T ENSG00000074621
rs649438:65838082:C:T:ENSG00000074621 0.035322296 0.290843861
0.054815691 0.072575018 0.069942274 0.063994875 rs649438:65838082:C:T
ENSG00000074621
rs8032937:65838303:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs8032937:65838303:C:T ENSG00000074621
rs77106195:65838642:A:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs77106195:65838642:A:G ENSG00000074621
rs77291118:65840043:A:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs77291118:65840043:A:G ENSG00000074621
rs4496075:65841104:A:G:ENSG00000074621 0.060909118 0.039514306
0.090437058 0.072575018 0.069942274 0.063994875
rs4496075:65841104:A:G ENSG00000074621
rs1003104:65843154:G:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs1003104:65843154:G:A ENSG00000074621
rs1003103:65843333:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs1003103:65843333:C:T ENSG00000074621
rs145069801:65845025:T:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs145069801:65845025:T:A ENSG00000074621
rs78172739:65847502:A:G:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs78172739:65847502:A:G ENSG00000074621
rs114597995:65848669:A:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs114597995:65848669:A:T ENSG00000074621
rs6494525:ENSG00000074621 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 rs6494525 ENSG00000074621
rs7164255:65850729:C:T:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7164255:65850729:C:T ENSG00000074621
rs370784977:65854743:CTG:C:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs370784977:65854743:CTG:C ENSG00000074621
rs146124680:65856266:C:A:ENSG00000074621 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs146124680:65856266:C:A ENSG00000074621
rs11484:ENSG00000074621 0.035322296 0.174910011 0.090437058
0.072575018 0.069942274 0.063994875 rs11484 ENSG00000074621
rs2454451:76861461:G:T:ENSG00000140386 0.357981916 0.039514306
0.054815691 0.072575018 0.538368464 0.308405655
rs2454451:76861461:G:T ENSG00000140386

rs2404736:76875943:T:C:ENSG00000140386 0.035322296 0.661270668
0.679533134 0.491850645 0.85654698 0.511827661
rs2404736:76875943:T:C:ENSG00000140386
rs12591557:78811732:A:G:ENSG00000169684 0.418609874 0.039514306
0.828327833 0.558498626 0.617728871 0.749650459
rs12591557:78811732:A:G ENSG00000169684
15:78865425-T-C:ENSG00000169684 0.200359533 0.039514306 0.679533134
0.481611326 0.112902598 0.282646046 15:78865425-T-C ENSG00000169684
rs2456019:78868489:T:G:ENSG00000169684 0.035322296 0.039514306
0.717524365 0.424824518 0.069942274 0.108665807
rs2456019:78868489:T:G:ENSG00000169684
rs692780:78876505:C:G:ENSG00000169684 0.035322296 0.039514306
0.718826765 0.406267798 0.069942274 0.108665807 rs692780:78876505:C:G
ENSG00000169684
rs514743:78884227:T:A:ENSG00000169684 0.100009087 0.039514306
0.767163632 0.385352708 0.251839208 0.225997306 rs514743:78884227:T:A
ENSG00000169684
rs7182583:78899210:G:C:ENSG00000169684 0.035322296 0.039514306
0.618696386 0.559048117 0.069942274 0.295623551
rs7182583:78899210:G:C:ENSG00000169684
rs7496812:79222924:C:T:ENSG00000103811 0.260395929 0.039514306
0.828327833 0.709051726 0.734695661 0.785329549
rs7496812:79222924:C:T:ENSG00000103811
rs2289699:79223681:G:A:ENSG00000103811 0.260395929 0.039514306
0.828327833 0.709051726 0.734695661 0.785329549
rs2289699:79223681:G:A:ENSG00000103811
rs34778376:79231180:GT:G:ENSG00000103811 0.22504072 0.039514306
0.827435543 0.739334999 0.729195963 0.789755639
rs34778376:79231180:GT:G ENSG00000103811
rs28655102:79232700:C:T:ENSG00000103811 0.228236375 0.039514306
0.828327833 0.74296186 0.730942663 0.790913456
rs28655102:79232700:C:T ENSG00000103811
rs28595235:101103927:A:G:ENSG00000270127 0.035322296 0.110495165
0.054815691 0.165229468 0.173591669 0.063994875
rs28595235:101103927:A:G ENSG00000270127
rs61562452:101104500:C:G:ENSG00000270127 0.035322296 0.12731097
0.054815691 0.165229468 0.198669295 0.063994875
rs61562452:101104500:C:G ENSG00000270127
rs6598355:101105579:T:A:ENSG00000270127 0.035322296 0.110495165
0.054815691 0.165229468 0.173591669 0.063994875
rs6598355:101105579:T:A ENSG00000270127
rs12593204:101105809:G:A:ENSG00000270127 0.035322296 0.110495165
0.054815691 0.165229468 0.173591669 0.063994875
rs12593204:101105809:G:A ENSG00000270127
rs12593224:101105897:G:T:ENSG00000270127 0.035322296 0.110495165
0.054815691 0.165229468 0.173591669 0.063994875
rs12593224:101105897:G:T ENSG00000270127
rs11630819:101106830:A:T:ENSG00000270127 0.035322296 0.110495165
0.054815691 0.165229468 0.173591669 0.063994875
rs11630819:101106830:A:T ENSG00000270127
rs28668152:101107057:T:C:ENSG00000270127 0.035322296 0.110495165
0.054815691 0.165229468 0.173591669 0.063994875
rs28668152:101107057:T:C ENSG00000270127

rs8029435:101107362:G:A:ENSG00000270127 0.035322296 0.110495165
0.054815691 0.165229468 0.173591669 0.063994875
rs8029435:101107362:G:A ENSG00000270127
rs28497202:101108908:C:T:ENSG00000270127 0.546606023 0.039514306
0.054815691 0.424824518 0.787720344 0.390568128
rs28497202:101108908:C:T ENSG00000270127
rs238683:1879065:A:T:ENSG00000180185 0.295612735 0.039514306
0.649343605 0.072575018 0.069942274 0.174366738 rs238683:1879065:A:T
ENSG00000180185
rs344373:1924350:A:G:ENSG00000180185 0.035322296 0.654488658
0.828327833 0.539448558 0.705614658 0.813853703 rs344373:1924350:A:G
ENSG00000180185
rs9928549:20597512:T:G:ENSG00000260201 0.035322296 0.110495165
0.054815691 0.244282474 0.069942274 0.063994875
rs9928549:20597512:T:G ENSG00000260201
rs11860659:20597873:A:G:ENSG00000260201 0.035322296 0.209793344
0.054815691 0.314254491 0.069942274 0.063994875
rs11860659:20597873:A:G ENSG00000260201
rs30012:23420943:A:G:ENSG00000166847 0.035322296 0.651399716 0.7518355
0.558498626 0.814700007 0.813853703 rs30012:23420943:A:G
ENSG00000166847
rs30010:23422658:G:C:ENSG00000166847 0.035322296 0.640315667
0.730770151 0.558498626 0.787720344 0.813853703 rs30010:23422658:G:C
ENSG00000166847
rs40817:23422672:C:G:ENSG00000166847 0.035322296 0.642113186
0.731144493 0.558498626 0.771563861 0.813853703 rs40817:23422672:C:G
ENSG00000166847
rs250579:23425585:A:G:ENSG00000166847 0.035322296 0.64771467
0.753805316 0.558498626 0.805872786 0.813853703 rs250579:23425585:A:G
ENSG00000166847
rs11861636:23439997:T:C:ENSG00000166847 0.035322296 0.651227337
0.756966764 0.565024683 0.811065379 0.813853703
rs11861636:23439997:T:C ENSG00000166847
rs11074562:23499700:G:A:ENSG00000166847 0.035322296 0.42813865 0.33856507
0.744127379 0.198669295 0.74623957 rs11074562:23499700:G:A
ENSG00000166847
rs4968011:23500558:T:C:ENSG00000103356 0.31683404 0.039514306
0.121437838 0.385352708 0.198669295 0.414364157
rs4968011:23500558:T:C ENSG00000103356
rs7202661:23504041:A:C:ENSG00000103356 0.285198641 0.039514306
0.184980376 0.533143145 0.340307796 0.347302535
rs7202661:23504041:A:C ENSG00000103356
rs7203580:23504248:G:A:ENSG00000103356 0.305615864 0.039514306
0.121437838 0.350892299 0.251839208 0.201281701
rs7203580:23504248:G:A ENSG00000103356
rs59785925:23508360:C:CTTGAGGCTGA:ENSG00000103356 0.271758927
0.039514306 0.165546404 0.496527133 0.251839208 0.269135872
rs59785925:23508360:C:CTTGAGGCTGA ENSG00000103356
rs2040574:23510326:A:G:ENSG00000103356 0.271758927 0.039514306
0.165546404 0.496527133 0.251839208 0.269135872
rs2040574:23510326:A:G ENSG00000103356
rs4968013:23512592:G:T:ENSG00000103356 0.271758927 0.039514306
0.165546404 0.496527133 0.251839208 0.269135872
rs4968013:23512592:G:T ENSG00000103356

rs5816214:23518214:T:TC:ENSG00000103356 0.271758927 0.039514306
0.184980376 0.49621531 0.279727316 0.269135872
rs5816214:23518214:T:TC ENSG00000103356
rs3785408:23519986:T:C:ENSG00000103356 0.271758927 0.039514306
0.184980376 0.49621531 0.266901314 0.269135872
rs3785408:23519986:T:C ENSG00000103356
rs2285521:23521780:C:T:ENSG00000103356 0.271758927 0.039514306
0.165546404 0.491850645 0.251839208 0.269135872
rs2285521:23521780:C:T ENSG00000103356
rs35947720:23522639:ATT:A:ENSG00000103356 0.271758927 0.039514306
0.184980376 0.491850645 0.251839208 0.295623551
rs35947720:23522639:ATT:A ENSG00000103356
rs112294873:23523296:T:TCAGCTGTCTA:ENSG00000103356 0.271758927
0.039514306 0.165546404 0.491850645 0.251839208 0.269135872
rs112294873:23523296:T:TCAGCTGTCTA ENSG00000103356
rs7186729:23526094:T:C:ENSG00000103356 0.271758927 0.039514306 0.20393713
0.49621531 0.266901314 0.269135872 rs7186729:23526094:T:C
ENSG00000103356
rs11300207:23535156:CT:C:ENSG00000103356 0.239371492 0.039514306
0.184980376 0.491850645 0.218559406 0.225997306
rs11300207:23535156:CT:C ENSG00000103356
rs1468138:23535680:A:C:ENSG00000103356 0.439359535 0.039514306
0.360243455 0.445043357 0.595947504 0.640308963
rs1468138:23535680:A:C ENSG00000103356
rs6497670:23536366:T:C:ENSG00000103356 0.439359535 0.039514306
0.351078567 0.445043357 0.594105975 0.640308963
rs6497670:23536366:T:C ENSG00000103356
rs55859005:23537431:CTTT:C:ENSG00000103356 0.320653282 0.039514306
0.090437058 0.290136921 0.266901314 0.24867752
rs55859005:23537431:CTTT:C ENSG00000103356
rs7405243:23537678:T:C:ENSG00000103356 0.297292124 0.039514306
0.054815691 0.276782326 0.251839208 0.225997306
rs7405243:23537678:T:C ENSG00000103356
rs8046051:23538666:G:A:ENSG00000103356 0.297292124 0.039514306
0.054815691 0.276782326 0.251839208 0.225997306
rs8046051:23538666:G:A ENSG00000103356
rs4968018:23543131:G:A:ENSG00000103356 0.322853095 0.039514306
0.360243455 0.558498626 0.410008196 0.419171564
rs4968018:23543131:G:A ENSG00000103356
rs6497672:23544295:G:A:ENSG00000103356 0.325001177 0.039514306
0.360243455 0.558498626 0.403448628 0.414364157
rs6497672:23544295:G:A ENSG00000103356
rs4527034:31131614:A:G:ENSG00000151006 0.520295402 0.039514306 0.33856507
0.617868032 0.218559406 0.063994875 rs4527034:31131614:A:G
ENSG00000151006
rs34087264:70323126:C:T:ENSG00000261777 0.271758927 0.039514306 0.20393713
0.689549544 0.690981753 0.813853703 rs34087264:70323126:C:T
ENSG00000261777
rs28733806:70335323:C:G:ENSG00000261777 0.271758927 0.039514306 0.20393713
0.691044883 0.690981753 0.813853703 rs28733806:70335323:C:G
ENSG00000261777
rs11075762:70372339:C:T:ENSG00000261777 0.146129194 0.039514306
0.054815691 0.579004696 0.288162171 0.583309947
rs11075762:70372339:C:T ENSG00000261777

rs12325412:70646728:G:A:ENSG00000157353 0.035322296 0.272806835
0.222302049 0.589583216 0.363699827 0.282646046
rs12325412:70646728:G:A ENSG00000157353
rs74435681:70663852:T:C:ENSG00000157353 0.288194279 0.039514306
0.255451763 0.613788364 0.70366248 0.75395128
rs74435681:70663852:T:C ENSG00000157353
rs112410113:85042561:G:C:ENSG00000153786 0.47030173 0.039514306
0.645109255 0.558498626 0.724883143 0.308405655
rs112410113:85042561:G:C ENSG00000153786
rs8191470:88878176:C:A:ENSG00000198931 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs8191470:88878176:C:A ENSG00000198931
rs77639392:88928599:C:G:ENSG00000198931 0.035322296 0.110495165
0.054815691 0.072575018 0.069942274 0.063994875
rs77639392:88928599:C:G ENSG00000198931
rs115461902:88932284:T:G:ENSG00000198931 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs115461902:88932284:T:G ENSG00000198931
rs4782465:89163502:T:C:ENSG00000176715 0.100009087 0.039514306
0.604215794 0.667818093 0.917665418 0.818977027
rs4782465:89163502:T:C ENSG00000176715
rs11863384:89163839:A:C:ENSG00000176715 0.060909118 0.039514306
0.579532834 0.647697296 0.904520929 0.813853703
rs11863384:89163839:A:C ENSG00000176715
rs11863385:89163846:A:C:ENSG00000176715 0.146968287 0.039514306 0.59267775
0.655092891 0.90539517 0.813853703 rs11863385:89163846:A:C
ENSG00000176715
rs11076763:89164081:G:C:ENSG00000176715 0.035322296 0.039514306
0.370396184 0.491850645 0.776230732 0.813853703
rs11076763:89164081:G:C ENSG00000176715
rs35044159:89164181:GA:G:ENSG00000176715 0.146968287 0.039514306
0.59267775 0.653716589 0.905346124 0.814472792
rs35044159:89164181:GA:G ENSG00000176715
rs11076764:89164207:G:A:ENSG00000176715 0.146968287 0.039514306 0.59267775
0.653716589 0.905346124 0.814472792 rs11076764:89164207:G:A
ENSG00000176715
rs11076765:89164208:C:T:ENSG00000176715 0.146968287 0.039514306 0.59267775
0.653716589 0.905346124 0.814472792 rs11076765:89164208:C:T
ENSG00000176715
rs4782464:89164429:C:T:ENSG00000176715 0.100009087 0.039514306
0.599411169 0.665448201 0.916868319 0.819500231
rs4782464:89164429:C:T ENSG00000176715
rs4782331:89164540:G:A:ENSG00000176715 0.060909118 0.039514306
0.576180386 0.647697296 0.901523284 0.813853703
rs4782331:89164540:G:A ENSG00000176715
rs36099289:89164974:C:A:ENSG00000176715 0.035322296 0.039514306
0.400191924 0.197042097 0.173591669 0.813853703
rs36099289:89164974:C:A ENSG00000176715
rs7499425:89165575:G:C:ENSG00000176715 0.081933656 0.039514306
0.582677515 0.649756756 0.90377607 0.813853703
rs7499425:89165575:G:C ENSG00000176715
rs59788479:89165748:T:C:ENSG00000176715 0.146968287 0.039514306
0.592067279 0.6524842 0.901523284 0.816484635
rs59788479:89165748:T:C ENSG00000176715

rs8053006:89166048:G:A:ENSG00000176715 0.146968287 0.039514306
0.592067279 0.6524842 0.901523284 0.816484635
rs8053006:89166048:G:A ENSG00000176715
rs35740910:89166386:CAA:C:ENSG00000176715 0.100009087 0.039514306
0.59267775 0.656357343 0.909167584 0.821642632
rs35740910:89166386:CAA:C ENSG00000176715
rs8046141:89166424:T:C:ENSG00000176715 0.100009087 0.039514306 0.59267775
0.661219565 0.910108997 0.821642632 rs8046141:89166424:T:C
ENSG00000176715
rs56386090:89166669:C:T:ENSG00000176715 0.117465891 0.039514306
0.594989053 0.646725407 0.903252402 0.813853703
rs56386090:89166669:C:T ENSG00000176715
rs12449019:89166807:A:G:ENSG00000176715 0.146968287 0.039514306
0.589831546 0.651493039 0.899479198 0.817686609
rs12449019:89166807:A:G ENSG00000176715
rs7195892:89166941:C:T:ENSG00000176715 0.100009087 0.039514306 0.59267775
0.658786134 0.909167584 0.821642632 rs7195892:89166941:C:T
ENSG00000176715
rs57558972:89167066:C:G:ENSG00000176715 0.155490932 0.039514306
0.593231314 0.664826765 0.90539517 0.813853703
rs57558972:89167066:C:G ENSG00000176715
rs6500526:89167395:C:T:ENSG00000176715 0.146968287 0.039514306
0.674868706 0.754737609 0.931119464 0.813853703
rs6500526:89167395:C:T ENSG00000176715
rs7193255:89167404:T:C:ENSG00000176715 0.200359533 0.039514306
0.679533134 0.754218833 0.934841002 0.813853703
rs7193255:89167404:T:C ENSG00000176715
rs6500529:89167458:C:A:ENSG00000176715 0.162871942 0.039514306
0.667476732 0.751091602 0.9305498 0.813853703
rs6500529:89167458:C:A ENSG00000176715
rs8060043:89167792:C:T:ENSG00000176715 0.060909118 0.039514306
0.568513848 0.624518909 0.87814657 0.814472792
rs8060043:89167792:C:T ENSG00000176715
rs71387680:89168723:C:T:ENSG00000176715 0.035322296 0.039514306
0.419451892 0.326422852 0.266901314 0.801880573
rs71387680:89168723:C:T ENSG00000176715
rs7194635:89168725:A:G:ENSG00000176715 0.297292124 0.039514306
0.731144493 0.757711539 0.920076405 0.813853703
rs7194635:89168725:A:G ENSG00000176715
rs7200676:ENSG00000176715 0.291376195 0.039514306 0.713452083
0.760145967 0.90539517 0.813853703 rs7200676 ENSG00000176715
rs4782458:89168935:G:C:ENSG00000176715 0.297292124 0.039514306
0.726206733 0.757155561 0.917401119 0.813853703
rs4782458:89168935:G:C ENSG00000176715
rs4782457:89168981:T:C:ENSG00000176715 0.297292124 0.039514306
0.726206733 0.757155561 0.917401119 0.813853703
rs4782457:89168981:T:C ENSG00000176715
rs4782456:89169205:C:G:ENSG00000176715 0.297292124 0.039514306
0.728288658 0.757711539 0.91897099 0.813853703
rs4782456:89169205:C:G ENSG00000176715
rs4782455:89169312:T:C:ENSG00000176715 0.297292124 0.039514306
0.726206733 0.757155561 0.917401119 0.813853703
rs4782455:89169312:T:C ENSG00000176715

rs4782454:89170027:T:C:ENSG00000176715 0.297292124 0.039514306
0.727343376 0.757155561 0.917665418 0.813853703
rs4782454:89170027:T:C ENSG00000176715
rs4782453:89170047:T:C:ENSG00000176715 0.304041304 0.039514306
0.736223303 0.761207831 0.927817937 0.813853703
rs4782453:89170047:T:C ENSG00000176715
rs4782330:89170064:C:T:ENSG00000176715 0.304041304 0.039514306
0.736223303 0.761207831 0.927817937 0.813853703
rs4782330:89170064:C:T ENSG00000176715
rs7184784:89170171:T:C:ENSG00000176715 0.290380371 0.039514306
0.718826765 0.75652549 0.920590777 0.813853703
rs7184784:89170171:T:C ENSG00000176715
rs8044145:89170679:A:G:ENSG00000176715 0.297292124 0.039514306
0.727343376 0.757384683 0.917666866 0.813853703
rs8044145:89170679:A:G ENSG00000176715
rs8044192:89170777:A:G:ENSG00000176715 0.297292124 0.039514306
0.727343376 0.757384683 0.917666866 0.813853703
rs8044192:89170777:A:G ENSG00000176715
rs8056878:89170856:C:T:ENSG00000176715 0.297292124 0.039514306
0.727343376 0.757384683 0.917666866 0.813853703
rs8056878:89170856:C:T ENSG00000176715
rs8056882:89170861:C:T:ENSG00000176715 0.297292124 0.039514306
0.727343376 0.757384683 0.917666866 0.813853703
rs8056882:89170861:C:T ENSG00000176715
rs8061488:89170974:G:T:ENSG00000176715 0.295612735 0.039514306
0.726206733 0.758135828 0.914508095 0.813853703
rs8061488:89170974:G:T ENSG00000176715
rs8057217:89171018:C:G:ENSG00000176715 0.295612735 0.039514306
0.726206733 0.758135828 0.914508095 0.813853703
rs8057217:89171018:C:G ENSG00000176715
rs11640002:89171384:G:A:ENSG00000176715 0.391536163 0.039514306
0.828327833 0.663069216 0.54593522 0.813853703
rs11640002:89171384:G:A ENSG00000176715
rs12447910:89171389:T:C:ENSG00000176715 0.297292124 0.039514306
0.727343376 0.757384683 0.917666866 0.813853703
rs12447910:89171389:T:C ENSG00000176715
rs12446096:89171442:C:T:ENSG00000176715 0.28152348 0.039514306 0.70008691
0.752110581 0.917135423 0.813853703 rs12446096:89171442:C:T
ENSG00000176715
rs7190776:89171544:A:G:ENSG00000176715 0.295612735 0.039514306
0.726206733 0.758783797 0.914508095 0.813853703
rs7190776:89171544:A:G ENSG00000176715
rs11076766:89171646:C:T:ENSG00000176715 0.297292124 0.039514306
0.726206733 0.764321564 0.920590777 0.813853703
rs11076766:89171646:C:T ENSG00000176715
rs7405366:89172122:C:A:ENSG00000176715 0.297292124 0.039514306
0.728288658 0.757384683 0.918894926 0.813853703
rs7405366:89172122:C:A ENSG00000176715
rs28538054:89173583:C:G:ENSG00000176715 0.146968287 0.039514306
0.552896362 0.577552537 0.525520858 0.813853703
rs28538054:89173583:C:G ENSG00000176715
rs8044701:89176878:G:A:ENSG00000176715 0.243759522 0.039514306 0.63054575
0.720146805 0.846769489 0.837651503 rs8044701:89176878:G:A
ENSG00000176715

rs12918883:89176957:G:A:ENSG00000176715 0.196140407 0.039514306
0.638829519 0.492233123 0.371793022 0.832178722
rs12918883:89176957:G:A ENSG00000176715
rs4782450:89177506:G:T:ENSG00000176715 0.205647498 0.039514306
0.612361159 0.679809501 0.730942663 0.813853703
rs4782450:89177506:G:T ENSG00000176715
rs4782329:89178839:T:C:ENSG00000176715 0.155490932 0.039514306
0.568513848 0.612613944 0.565674613 0.823519159
rs4782329:89178839:T:C ENSG00000176715
rs7186059:89179874:A:G:ENSG00000176715 0.155490932 0.039514306
0.593231314 0.679809501 0.701945326 0.813853703
rs7186059:89179874:A:G ENSG00000176715
rs4782447:89181890:T:C:ENSG00000176715 0.175415731 0.039514306
0.618696386 0.611407088 0.63278855 0.813853703
rs4782447:89181890:T:C ENSG00000176715
rs4782446:89182104:A:G:ENSG00000176715 0.175415731 0.039514306
0.618696386 0.611407088 0.63278855 0.813853703
rs4782446:89182104:A:G ENSG00000176715
rs4782328:89182218:A:G:ENSG00000176715 0.200359533 0.039514306
0.611290285 0.589583216 0.574209974 0.813853703
rs4782328:89182218:A:G ENSG00000176715
rs8052780:89182926:A:G:ENSG00000176715 0.196140407 0.039514306
0.625050185 0.621111272 0.688090257 0.82406001
rs8052780:89182926:A:G ENSG00000176715
rs8053537:89183197:G:A:ENSG00000176715 0.169284753 0.039514306
0.618696386 0.608765679 0.641673925 0.813853703
rs8053537:89183197:G:A ENSG00000176715
rs8057399:89183217:A:G:ENSG00000176715 0.169284753 0.039514306
0.618696386 0.608765679 0.641673925 0.813853703
rs8057399:89183217:A:G ENSG00000176715
rs9938518:89183780:A:G:ENSG00000176715 0.117465891 0.039514306
0.545428271 0.520505218 0.288162171 0.813853703
rs9938518:89183780:A:G ENSG00000176715
rs4782327:89184135:G:C:ENSG00000176715 0.175415731 0.039514306
0.593231314 0.628695369 0.63278855 0.82972085
rs4782327:89184135:G:C ENSG00000176715
rs34573246:89187764:T:G:ENSG00000176715 0.18193752 0.039514306
0.579382297 0.559048117 0.54593522 0.813853703
rs34573246:89187764:T:G ENSG00000176715
rs11645063:89187809:T:C:ENSG00000176715 0.18193752 0.039514306
0.579382297 0.559048117 0.54593522 0.813853703
rs11645063:89187809:T:C ENSG00000176715
rs60524679:89192519:T:C:ENSG00000176715 0.205647498 0.039514306
0.568513848 0.406267798 0.438540244 0.813789279
rs60524679:89192519:T:C ENSG00000176715
rs59346323:89192902:C:G:ENSG00000176715 0.060909118 0.039514306
0.503583077 0.197042097 0.173591669 0.784142169
rs59346323:89192902:C:G ENSG00000176715
rs76924932:89194594:G:C:ENSG00000176715 0.132837758 0.039514306
0.492105461 0.333474506 0.288162171 0.772415663
rs76924932:89194594:G:C ENSG00000176715
rs74036126:89195932:T:G:ENSG00000176715 0.146968287 0.039514306
0.485354668 0.326422852 0.288162171 0.781735686
rs74036126:89195932:T:G ENSG00000176715

rs2349284:16758619:A:G:ENSG00000205312 0.035322296 0.189251465
0.470302738 0.660426802 0.237095457 0.201281701
rs2349284:16758619:A:G ENSG00000205312
rs2349287:16762638:A:C:ENSG00000205312 0.035322296 0.189251465
0.470302738 0.660426802 0.237095457 0.201281701
rs2349287:16762638:A:C ENSG00000205312
rs112853808:16763280:C:T:ENSG00000205312 0.035322296 0.189251465
0.466752146 0.660426802 0.237095457 0.201281701
rs112853808:16763280:C:T ENSG00000205312
rs111383287:16763685:T:A:ENSG00000205312 0.035322296 0.189251465
0.466752146 0.660426802 0.237095457 0.201281701
rs111383287:16763685:T:A ENSG00000205312
rs11651251:16764499:A:G:ENSG00000205312 0.035322296 0.189251465
0.466752146 0.660426802 0.237095457 0.201281701
rs11651251:16764499:A:G ENSG00000205312
rs11658859:16775339:G:T:ENSG00000205312 0.035322296 0.189251465
0.458471274 0.662029528 0.237095457 0.201281701
rs11658859:16775339:G:T ENSG00000205312
rs117121559:16777657:G:A:ENSG00000205312 0.035322296 0.145249232
0.400191924 0.670181625 0.148497947 0.108665807
rs117121559:16777657:G:A ENSG00000205312
rs17793114:16781145:A:G:ENSG00000205312 0.035322296 0.189251465
0.458471274 0.663069216 0.237095457 0.201281701
rs17793114:16781145:A:G ENSG00000205312
rs11654224:16783999:G:A:ENSG00000205312 0.035322296 0.334648487
0.419451892 0.720678952 0.381322091 0.24867752
rs11654224:16783999:G:A ENSG00000205312
rs142594862:16788546:G:C:ENSG00000205312 0.035322296 0.334648487
0.419451892 0.720321711 0.381322091 0.24867752
rs142594862:16788546:G:C ENSG00000205312
rs11656859:16791960:C:A:ENSG00000205312 0.035322296 0.33968813 0.42239248
0.720321711 0.381322091 0.24867752 rs11656859:16791960:C:A
ENSG00000205312
rs34032548:16798206:A:AT:ENSG00000205312 0.035322296 0.546437754
0.406502841 0.751922411 0.758499809 0.431187426
rs34032548:16798206:A:AT ENSG00000205312
17:16801712:T:G:ENSG00000205312 0.035322296 0.33968813 0.42239248
0.720321711 0.381322091 0.24867752 17:16801712:T:G ENSG00000205312
rs11657586:16804523:G:T:ENSG00000205312 0.035322296 0.33968813 0.42239248
0.720321711 0.381322091 0.24867752 rs11657586:16804523:G:T
ENSG00000205312
rs144299169:16805798:C:A:ENSG00000205312 0.035322296 0.281740211
0.360243455 0.721730419 0.300892226 0.201281701
rs144299169:16805798:C:A ENSG00000205312
rs11651972:16807364:A:C:ENSG00000205312 0.035322296 0.33968813 0.42239248
0.720321711 0.381322091 0.24867752 rs11651972:16807364:A:C
ENSG00000205312
rs78936092:16810284:G:T:ENSG00000205312 0.035322296 0.33968813 0.42239248
0.720321711 0.381322091 0.24867752 rs78936092:16810284:G:T
ENSG00000205312
rs11658549:16810959:A:G:ENSG00000205312 0.035322296 0.290843861 0.33856507
0.723369143 0.288162171 0.140342165 rs11658549:16810959:A:G
ENSG00000205312

rs113982579:38294446:C:G:ENSG00000266208 0.060909118 0.039514306
0.579382297 0.072575018 0.069942274 0.063994875
rs113982579:38294446:C:G ENSG00000266208
rs111792830:38294504:C:T:ENSG00000266208 0.100009087 0.039514306
0.605977561 0.072575018 0.069942274 0.063994875
rs111792830:38294504:C:T ENSG00000266208
rs113161637:38297544:T:TCATCTATTTTC:ENSG00000266208 0.132837758
0.039514306 0.605977561 0.072575018 0.148497947 0.063994875
rs113161637:38297544:T:TCATCTATTTTC ENSG00000266208
rs41283417:38297716:T:C:ENSG00000266208 0.035322296 0.039514306
0.560108139 0.072575018 0.069942274 0.063994875
rs41283417:38297716:T:C ENSG00000266208
rs144521793:38301114:G:A:ENSG00000266208 0.117465891 0.039514306
0.619854485 0.072575018 0.069942274 0.063994875
rs144521793:38301114:G:A ENSG00000266208
rs9898500:38305381:G:A:ENSG00000266208 0.035322296 0.039514306
0.568513848 0.072575018 0.069942274 0.063994875
rs9898500:38305381:G:A ENSG00000266208
rs112581084:38307008:T:TG:ENSG00000266208 0.035322296 0.039514306
0.560108139 0.072575018 0.069942274 0.063994875
rs112581084:38307008:T:TG ENSG00000266208
17:38307010:T:A:ENSG00000266208 0.035322296 0.039514306 0.560108139
0.072575018 0.069942274 0.063994875 17:38307010:T:A ENSG00000266208
rs111385527:38310200:G:A:ENSG00000266208 0.035322296 0.039514306
0.560108139 0.072575018 0.069942274 0.063994875
rs111385527:38310200:G:A ENSG00000266208
rs111398422:38313286:AC:A:ENSG00000266208 0.060909118 0.039514306
0.608285859 0.072575018 0.069942274 0.063994875
rs111398422:38313286:AC:A ENSG00000266208
rs113041992:38320590:C:T:ENSG00000266208 0.035322296 0.039514306
0.560108139 0.072575018 0.069942274 0.063994875
rs113041992:38320590:C:T ENSG00000266208
rs112500395:38324782:AT:A:ENSG00000266208 0.035322296 0.039514306
0.562861286 0.072575018 0.069942274 0.063994875
rs112500395:38324782:AT:A ENSG00000266208
rs9899956:40032384:C:T:ENSG00000141698 0.561476075 0.039514306
0.786960718 0.561168554 0.92199093 0.813853703
rs9899956:40032384:C:T ENSG00000141698
rs11652377:41212169:C:T:ENSG00000267681 0.035322296 0.447397811
0.370396184 0.558498626 0.493250562 0.063994875
rs11652377:41212169:C:T ENSG00000267681
rs8176263:41214209:CAA:C:ENSG00000267681 0.035322296 0.455090809
0.351078567 0.560086389 0.54593522 0.108665807
rs8176263:41214209:CAA:C ENSG00000267681
rs8176234:41219780:T:C:ENSG00000267681 0.035322296 0.661628136
0.621329859 0.450346002 0.54593522 0.358316132
rs8176234:41219780:T:C ENSG00000267681
rs8176233:41219804:T:C:ENSG00000267681 0.035322296 0.661628136
0.621329859 0.450346002 0.54593522 0.358316132
rs8176233:41219804:T:C ENSG00000267681
rs8176231:41220223:A:G:ENSG00000267681 0.035322296 0.661628136
0.621329859 0.450346002 0.54593522 0.358316132
rs8176231:41220223:A:G ENSG00000267681

exm1326521:ENSG00000267681 0.035322296 0.661628136 0.621329859
0.450346002 0.54593522 0.358316132 exm1326521 ENSG00000267681
rs8176214:41225839:T:C:ENSG00000267681 0.035322296 0.661628136
0.621329859 0.450346002 0.54593522 0.358316132
rs8176214:41225839:T:C ENSG00000267681
rs8176091:41270277:C:T:ENSG00000267681 0.035322296 0.382430049
0.283332252 0.558498626 0.388754065 0.108665807
rs8176091:41270277:C:T ENSG00000267681
rs8176087:41270666:C:A:ENSG00000267681 0.035322296 0.382430049
0.283332252 0.558498626 0.388754065 0.108665807
rs8176087:41270666:C:A ENSG00000267681
rs34942571:41273379:G:C:ENSG00000267681 0.035322296 0.382430049
0.283332252 0.558498626 0.388754065 0.108665807
rs34942571:41273379:G:C ENSG00000267681
rs149141411:41275081:G:GA:ENSG00000267681 0.035322296 0.407321946
0.400191924 0.530641947 0.498016841 0.140342165
rs149141411:41275081:G:GA ENSG00000267681
rs8176083:41275151:G:C:ENSG00000267681 0.035322296 0.467084083
0.390230616 0.558498626 0.493250562 0.063994875
rs8176083:41275151:G:C ENSG00000267681
rs35981166:41279837:C:A:ENSG00000267681 0.035322296 0.461224231 0.42239248
0.558498626 0.504458419 0.108665807 rs35981166:41279837:C:A
ENSG00000267681
rs1877837:41281754:G:A:ENSG00000267681 0.035322296 0.371735893
0.269469279 0.558498626 0.395007577 0.108665807
rs1877837:41281754:G:A ENSG00000267681
rs11650848:41284699:A:G:ENSG00000267681 0.035322296 0.382430049
0.269469279 0.558498626 0.395007577 0.108665807
rs11650848:41284699:A:G ENSG00000267681
rs11651905:41284792:T:A:ENSG00000267681 0.035322296 0.38687185
0.269469279 0.558498626 0.395007577 0.108665807
rs11651905:41284792:T:A ENSG00000267681
rs35286533:41287315:G:GC:ENSG00000267681 0.035322296 0.455090809
0.33856507 0.559048117 0.559581427 0.108665807
rs35286533:41287315:G:GC ENSG00000267681
rs33961729:41287924:C:A:ENSG00000267681 0.035322296 0.378243214
0.269469279 0.558498626 0.395007577 0.108665807
rs33961729:41287924:C:A ENSG00000267681
rs11657835:41291953:C:G:ENSG00000267681 0.035322296 0.364271932
0.283332252 0.544839734 0.371793022 0.063994875
rs11657835:41291953:C:G ENSG00000267681
rs33933224:41298434:T:C:ENSG00000267681 0.035322296 0.359391426
0.269469279 0.548833684 0.363699827 0.063994875
rs33933224:41298434:T:C ENSG00000267681
rs4792979:41298515:C:T:ENSG00000267681 0.035322296 0.364271932
0.269469279 0.549689754 0.371793022 0.063994875
rs4792979:41298515:C:T ENSG00000267681
rs12951574:41299589:C:T:ENSG00000267681 0.035322296 0.661594802
0.568513848 0.491850645 0.603364769 0.453831125
rs12951574:41299589:C:T ENSG00000267681
rs4793212:41302750:T:C:ENSG00000267681 0.035322296 0.354347171
0.269469279 0.549689754 0.363699827 0.063994875
rs4793212:41302750:T:C ENSG00000267681

rs34534709:41302940:C:G:ENSG00000267681 0.035322296 0.354347171
0.269469279 0.549689754 0.363699827 0.063994875
rs34534709:41302940:C:G ENSG00000267681
rs2037075:41305826:G:T:ENSG00000267681 0.035322296 0.507089732
0.492105461 0.617124137 0.585329409 0.282646046
rs2037075:41305826:G:T ENSG00000267681
rs35646478:41306697:TTAAG:T:ENSG00000267681 0.035322296 0.371735893
0.351078567 0.558498626 0.403448628 0.063994875
rs35646478:41306697:TTAAG:T ENSG00000267681
rs5018132:41307702:G:C:ENSG00000267681 0.035322296 0.440891171
0.429802874 0.558498626 0.493250562 0.063994875
rs5018132:41307702:G:C ENSG00000267681
rs7501753:41307703:C:T:ENSG00000267681 0.035322296 0.469499546
0.419451892 0.558498626 0.54593522 0.140342165
rs7501753:41307703:C:T ENSG00000267681
rs34120358:41309752:G:T:ENSG00000267681 0.035322296 0.476967581
0.406502841 0.558498626 0.538368464 0.174366738
rs34120358:41309752:G:T ENSG00000267681
rs34365396:41325020:T:C:ENSG00000267681 0.035322296 0.49581991
0.458471274 0.577552537 0.54593522 0.295623551
rs34365396:41325020:T:C ENSG00000267681
rs12940037:41325342:A:G:ENSG00000267681 0.035322296 0.488175625
0.443593462 0.576920785 0.54593522 0.295623551
rs12940037:41325342:A:G ENSG00000267681
rs11650132:41326087:T:G:ENSG00000267681 0.035322296 0.476967581
0.429802874 0.579004696 0.519536868 0.282646046
rs11650132:41326087:T:G ENSG00000267681
rs11654731:41326940:G:A:ENSG00000267681 0.035322296 0.486304322
0.458471274 0.577552537 0.532319281 0.295623551
rs11654731:41326940:G:A ENSG00000267681
rs11656945:41330265:A:G:ENSG00000267681 0.035322296 0.475271007
0.443593462 0.577552537 0.532319281 0.282646046
rs11656945:41330265:A:G ENSG00000267681
rs12944430:41330820:C:G:ENSG00000267681 0.035322296 0.505984373
0.458471274 0.604627172 0.54593522 0.282646046
rs12944430:41330820:C:G ENSG00000267681
rs11653460:41331306:C:T:ENSG00000267681 0.035322296 0.496502649
0.458471274 0.602462075 0.54593522 0.282646046
rs11653460:41331306:C:T ENSG00000267681
rs11650913:41331597:T:C:ENSG00000267681 0.035322296 0.496502649
0.454299825 0.603611735 0.54593522 0.282646046
rs11650913:41331597:T:C ENSG00000267681
rs12936831:41331816:C:T:ENSG00000267681 0.035322296 0.505984373
0.454299825 0.602462075 0.54593522 0.282646046
rs12936831:41331816:C:T ENSG00000267681
rs11658499:41334749:C:T:ENSG00000267681 0.035322296 0.463260354
0.406502841 0.572952418 0.519536868 0.24867752
rs11658499:41334749:C:T ENSG00000267681
rs77259033:41351400:T:A:ENSG00000267681 0.035322296 0.378243214
0.297111757 0.491850645 0.340307796 0.063994875
rs77259033:41351400:T:A ENSG00000267681
rs2306829:41353806:C:T:ENSG00000267681 0.035322296 0.467084083
0.381585774 0.558498626 0.477032507 0.063994875
rs2306829:41353806:C:T ENSG00000267681

rs71379211:41356947:A:G:ENSG00000267681 0.035322296 0.461224231
0.370396184 0.519043541 0.381322091 0.063994875
rs71379211:41356947:A:G ENSG00000267681
rs35221180:41358152:G:A:ENSG00000267681 0.035322296 0.359391426
0.184980376 0.450346002 0.266901314 0.063994875
rs35221180:41358152:G:A ENSG00000267681
rs13851:41371844:A:G:ENSG00000267681 0.035322296 0.359391426
0.165546404 0.419678998 0.218559406 0.063994875 rs13851:41371844:A:G
ENSG00000267681
rs1807433:41373899:C:G:ENSG00000267681 0.035322296 0.651399716
0.324917292 0.301206855 0.340307796 0.295623551
rs1807433:41373899:C:G ENSG00000267681
rs372125809:41374780:GT:G:ENSG00000267681 0.035322296 0.632005909
0.450702715 0.301206855 0.279727316 0.369977602
rs372125809:41374780:GT:G ENSG00000267681
17:41374793:GT:G:ENSG00000267681 0.035322296 0.632005909 0.454299825
0.301206855 0.279727316 0.369977602 17:41374793:GT:G ENSG00000267681
rs111274735:41375509:T:A:ENSG00000267681 0.035322296 0.594149718
0.390230616 0.340834261 0.340307796 0.414364157
rs111274735:41375509:T:A ENSG00000267681
rs17600371:41375555:T:G:ENSG00000267681 0.035322296 0.38687185
0.165546404 0.438119062 0.251839208 0.063994875
rs17600371:41375555:T:G ENSG00000267681
rs1133320:41375597:A:G:ENSG00000267681 0.035322296 0.631133206
0.454299825 0.290136921 0.266901314 0.369977602
rs1133320:41375597:A:G ENSG00000267681
rs3744244:41376104:C:T:ENSG00000267681 0.035322296 0.631133206
0.454299825 0.290136921 0.266901314 0.369977602
rs3744244:41376104:C:T ENSG00000267681
rs35960318:41377185:C:T:ENSG00000267681 0.035322296 0.632005909
0.454299825 0.290136921 0.266901314 0.369977602
rs35960318:41377185:C:T ENSG00000267681
rs113488312:41377739:T:A:ENSG00000267681 0.035322296 0.396207958
0.184980376 0.445043357 0.266901314 0.063994875
rs113488312:41377739:T:A ENSG00000267681
rs112666191:41377741:T:A:ENSG00000267681 0.035322296 0.391301538
0.165546404 0.445043357 0.266901314 0.063994875
rs112666191:41377741:T:A ENSG00000267681
rs7406399:41377871:C:T:ENSG00000267681 0.035322296 0.396207958
0.184980376 0.445043357 0.266901314 0.063994875
rs7406399:41377871:C:T ENSG00000267681
rs7406411:41377969:C:T:ENSG00000267681 0.035322296 0.632005909
0.454299825 0.290136921 0.266901314 0.369977602
rs7406411:41377969:C:T ENSG00000267681
rs71361513:41378392:AAAG:A:ENSG00000267681 0.035322296 0.469499546
0.184980376 0.197042097 0.069942274 0.108665807
rs71361513:41378392:AAAG:A ENSG00000267681
rs34094168:41379112:A:G:ENSG00000267681 0.035322296 0.631133206
0.454299825 0.290136921 0.266901314 0.369977602
rs34094168:41379112:A:G ENSG00000267681
rs71274038:41380756:C:T:ENSG00000267681 0.035322296 0.375516094
0.165546404 0.429269101 0.237095457 0.063994875
rs71274038:41380756:C:T ENSG00000267681

rs201687968:41383726:C:CTGTG:ENSG00000267681 0.035322296 0.422190018
0.20393713 0.455203609 0.251839208 0.063994875
rs201687968:41383726:C:CTGTG:ENSG00000267681
rs113379364:41387871:G:A:ENSG00000267681 0.035322296 0.447397811
0.310525978 0.491850645 0.347424829 0.108665807
rs113379364:41387871:G:A:ENSG00000267681
rs1574329:41401582:A:G:ENSG00000267681 0.035322296 0.476967581
0.310525978 0.500294942 0.388754065 0.063994875
rs1574329:41401582:A:G:ENSG00000267681
rs111784069:41401730:G:A:ENSG00000267681 0.035322296 0.469861597
0.324917292 0.509242766 0.371793022 0.108665807
rs111784069:41401730:G:A:ENSG00000267681
rs34977165:41403329:C:G:ENSG00000267681 0.035322296 0.442358463 0.14398786
0.491850645 0.218559406 0.108665807 rs34977165:41403329:C:G
ENSG00000267681
rs2343818:41409774:G:A:ENSG00000267681 0.035322296 0.445133661 0.14398786
0.49621531 0.237095457 0.108665807 rs2343818:41409774:G:A
ENSG00000267681
rs36114164:41410460:C:T:ENSG00000267681 0.035322296 0.472808011
0.283332252 0.546358114 0.381322091 0.108665807
rs36114164:41410460:C:T:ENSG00000267681
rs71190320:41414025:A:G:ENSG00000267681 0.035322296 0.695919225
0.400191924 0.491850645 0.395007577 0.414364157
rs71190320:41414025:A:G:ENSG00000267681
rs4346244:41414293:G:A:ENSG00000267681 0.035322296 0.69497631
0.269469279 0.447551187 0.288162171 0.308405655
rs4346244:41414293:G:A:ENSG00000267681
rs4600503:41414324:C:G:ENSG00000267681 0.035322296 0.69497631
0.184980376 0.379688866 0.218559406 0.225997306
rs4600503:41414324:C:G:ENSG00000267681
rs4352088:41414679:A:G:ENSG00000267681 0.035322296 0.33968813
0.054815691 0.486971863 0.069942274 0.063994875
rs4352088:41414679:A:G:ENSG00000267681
rs9675035:41415016:A:T:ENSG00000267681 0.035322296 0.697946469
0.406502841 0.491850645 0.403448628 0.401203391
rs9675035:41415016:A:T:ENSG00000267681
rs9675026:41415023:T:C:ENSG00000267681 0.035322296 0.69714067
0.406502841 0.503364172 0.403448628 0.382106273
rs9675026:41415023:T:C:ENSG00000267681
rs12951008:41417382:A:G:ENSG00000267681 0.035322296 0.698760559
0.411358711 0.509242766 0.403448628 0.414364157
rs12951008:41417382:A:G:ENSG00000267681
rs11654051:41419656:C:T:ENSG00000267681 0.035322296 0.422190018
0.297111757 0.507376693 0.410008196 0.108665807
rs11654051:41419656:C:T:ENSG00000267681
rs11653303:41420143:G:T:ENSG00000267681 0.035322296 0.51143522
0.419451892 0.558498626 0.480692872 0.269135872
rs11653303:41420143:G:T:ENSG00000267681
rs56729776:41422131:C:T:ENSG00000267681 0.035322296 0.240653097
0.054815691 0.385352708 0.148497947 0.063994875
rs56729776:41422131:C:T:ENSG00000267681
rs35956818:41422985:T:C:ENSG00000267681 0.035322296 0.69714067
0.184980376 0.395341642 0.218559406 0.140342165
rs35956818:41422985:T:C:ENSG00000267681

rs34610160:41423017:G:A:ENSG00000267681 0.035322296 0.42813865
0.310525978 0.519043541 0.403448628 0.140342165
rs34610160:41423017:G:A ENSG00000267681
JHU_17.43487573:ENSG00000214401 0.23524183 0.039514306 0.429802874
0.764321564 0.824032297 0.813853703 JHU_17.43487573 ENSG00000214401
rs12936645:43495420:A:T:ENSG00000214401 0.162871942 0.039514306
0.454299825 0.775056511 0.861392531 0.813853703
rs12936645:43495420:A:T ENSG00000214401
17:43666385:C:T:ENSG00000238083 0.035322296 0.626739008 0.419451892
0.333474506 0.266901314 0.813853703 17:43666385:C:T ENSG00000238083
17:43666820:G:A:ENSG00000238083 0.035322296 0.627222552 0.42239248
0.333474506 0.266901314 0.813853703 17:43666820:G:A ENSG00000238083
rs376183404:43667413:CTT:C:ENSG00000238083 0.035322296 0.039514306
0.360243455 0.072575018 0.198669295 0.687592023
rs376183404:43667413:CTT:C ENSG00000238083
17:43667537:C:T:ENSG00000238083 0.035322296 0.627222552 0.42239248
0.333474506 0.266901314 0.813853703 17:43667537:C:T ENSG00000238083
17:43669879:A:G:ENSG00000238083 0.035322296 0.039514306 0.165546404
0.072575018 0.251839208 0.619162849 17:43669879:A:G ENSG00000238083
17:43681149:C:CA:ENSG00000238083 0.035322296 0.624712816 0.419451892
0.340834261 0.266901314 0.813853703 17:43681149:C:CA ENSG00000238083
rs113155081:43752078:A:AC:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs113155081:43752078:A:AC ENSG00000238083
rs62055663:43753454:A:G:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055663:43753454:A:G ENSG00000238083
rs62055665:43754505:A:C:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055665:43754505:A:C ENSG00000238083
rs62055689:43754569:G:A:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055689:43754569:G:A ENSG00000238083
rs62055692:43754909:A:G:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055692:43754909:A:G ENSG00000238083
17:43756171:A:AAAAC:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703 17:43756171:A:AAAAC
ENSG00000238083
rs757503:43756466:T:C:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703 rs757503:43756466:T:C
ENSG00000238083
17:43757776:T:C:ENSG00000238083 0.035322296 0.651399716 0.429802874
0.399004389 0.355219989 0.813853703 17:43757776:T:C ENSG00000238083
17:43757777:C:T:ENSG00000238083 0.035322296 0.651399716 0.429802874
0.399004389 0.355219989 0.813853703 17:43757777:C:T ENSG00000238083
rs112155389:43758078:G:A:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs112155389:43758078:G:A ENSG00000238083
17:43758116:AAAAG:A:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703 17:43758116:AAAAG:A
ENSG00000238083

rs62055696:43758125:A:G:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055696:43758125:A:G ENSG00000238083
rs62055701:43758787:G:A:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055701:43758787:G:A ENSG00000238083
rs62055702:43758790:C:T:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055702:43758790:C:T ENSG00000238083
rs76333921:43759426:C:T:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs76333921:43759426:C:T ENSG00000238083
rs56400821:43760080:C:A:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs56400821:43760080:C:A ENSG00000238083
rs112169475:43760192:A:G:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs112169475:43760192:A:G ENSG00000238083
17:43760374:A:AT:ENSG00000238083 0.035322296 0.651399716 0.42786084
0.37163762 0.288162171 0.813853703 17:43760374:A:AT ENSG00000238083
rs17761124:43760516:A:T:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs17761124:43760516:A:T ENSG00000238083
rs62055705:43760599:A:C:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055705:43760599:A:C ENSG00000238083
rs62055706:43760685:T:C:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055706:43760685:T:C ENSG00000238083
rs75115093:43761381:A:G:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs75115093:43761381:A:G ENSG00000238083
rs62055707:43761482:T:C:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055707:43761482:T:C ENSG00000238083
rs2049515:43761856:C:T:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs2049515:43761856:C:T ENSG00000238083
rs62055708:43761974:C:A:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055708:43761974:C:A ENSG00000238083
rs76927677:43761985:A:T:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs76927677:43761985:A:T ENSG00000238083
rs62055709:43762429:C:T:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055709:43762429:C:T ENSG00000238083
rs62055710:43762537:T:A:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055710:43762537:T:A ENSG00000238083
rs17688002:43762594:A:T:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs17688002:43762594:A:T ENSG00000238083

rs17688032:43763202:G:A:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs17688032:43763202:G:A ENSG00000238083
rs17688068:43763935:A:G:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs17688068:43763935:A:G ENSG00000238083
rs199798669:43764027:GGCCGAGGTGAGAGGCT:G:ENSG00000238083 0.035322296
0.651399716 0.429802874 0.399004389 0.355219989 0.813853703
rs199798669:43764027:GGCCGAGGTGAGAGGCT:G ENSG00000238083
rs62055712:43764565:A:G:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055712:43764565:A:G ENSG00000238083
rs62055713:43764685:C:T:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055713:43764685:C:T ENSG00000238083
rs62055714:43764796:G:T:ENSG00000238083 0.035322296 0.651399716
0.429802874 0.399004389 0.355219989 0.813853703
rs62055714:43764796:G:T ENSG00000238083
rs17688126:43765080:A:G:ENSG00000238083 0.035322296 0.651227337
0.429802874 0.395341642 0.355219989 0.813853703
rs17688126:43765080:A:G ENSG00000238083
rs77310586:43765381:G:C:ENSG00000238083 0.035322296 0.651227337
0.429802874 0.390584104 0.355219989 0.813853703
rs77310586:43765381:G:C ENSG00000238083
rs17689824:43904397:C:T:ENSG00000238083 0.035322296 0.651399716
0.485354668 0.429269101 0.403448628 0.813853703
rs17689824:43904397:C:T ENSG00000238083
rs62057153:43904528:T:C:ENSG00000238083 0.035322296 0.651399716
0.492105461 0.435112224 0.429827068 0.813853703
rs62057153:43904528:T:C ENSG00000238083
rs17763086:43905481:T:G:ENSG00000238083 0.035322296 0.667212307
0.450702715 0.565024683 0.54593522 0.813853703
rs17763086:43905481:T:G ENSG00000238083
17:44013966:T:C:ENSG00000238083 0.035322296 0.651399716 0.5196698
0.387628207 0.371793022 0.739809647 17:44013966:T:C ENSG00000238083
rs62062287:44096541:T:G:ENSG00000238083 0.035322296 0.675994358
0.450702715 0.519043541 0.690981753 0.775020218
rs62062287:44096541:T:G ENSG00000238083
rs66472415:44206455:G:GA:ENSG00000238083 0.035322296 0.407321946
0.283332252 0.226823504 0.477032507 0.659336192
rs66472415:44206455:G:GA ENSG00000238083
17:44310961:A:AT:ENSG00000238083 0.035322296 0.682012197 0.283332252
0.558498626 0.429827068 0.813853703 17:44310961:A:AT ENSG00000238083
rs73311808:45316245:G:A:ENSG00000259207 0.035322296 0.12731097
0.165546404 0.226823504 0.808377886 0.453831125
rs73311808:45316245:G:A ENSG00000259207
rs11868912:45359414:A:T:ENSG00000178852 0.398495813 0.039514306
0.789231612 0.621111272 0.198669295 0.768929031
rs11868912:45359414:A:T ENSG00000178852
rs13306485:45361047:G:A:ENSG00000178852 0.351885919 0.039514306
0.750174412 0.601101423 0.069942274 0.755308559
rs13306485:45361047:G:A ENSG00000178852

rs73320494:45373571:T:C:ENSG00000178852 0.18193752 0.039514306
0.429802874 0.340834261 0.069942274 0.726813924
rs73320494:45373571:T:C ENSG00000178852
rs11870252:45377825:T:C:ENSG00000178852 0.446625656 0.039514306
0.679533134 0.498363812 0.538368464 0.840957308
rs11870252:45377825:T:C ENSG00000178852
rs11867192:45378468:G:A:ENSG00000178852 0.446625656 0.039514306
0.679533134 0.498363812 0.538368464 0.840957308
rs11867192:45378468:G:A ENSG00000178852
rs55706706:45380570:C:T:ENSG00000178852 0.446625656 0.039514306
0.679533134 0.500294942 0.538368464 0.840957308
rs55706706:45380570:C:T ENSG00000178852
rs11869835:45381823:G:T:ENSG00000178852 0.446625656 0.039514306
0.679533134 0.500294942 0.544223189 0.840957308
rs11869835:45381823:G:T ENSG00000178852
rs11870781:45383295:C:T:ENSG00000178852 0.446625656 0.039514306
0.679533134 0.503364172 0.544223189 0.840957308
rs11870781:45383295:C:T ENSG00000178852
rs17817829:53010381:T:G:ENSG00000166260 0.035322296 0.671714138
0.528262409 0.197042097 0.636822477 0.813853703
rs17817829:53010381:T:G ENSG00000166260
rs11079141:53021790:G:A:ENSG00000166260 0.035322296 0.668532818
0.601406435 0.263905944 0.610999891 0.813853703
rs11079141:53021790:G:A ENSG00000166260
rs12936375:53022866:G:T:ENSG00000166260 0.035322296 0.668532818
0.618696386 0.276782326 0.690981753 0.813853703
rs12936375:53022866:G:T ENSG00000166260
rs11869726:53023489:A:G:ENSG00000166260 0.035322296 0.668532818
0.599411169 0.263905944 0.610999891 0.813853703
rs11869726:53023489:A:G ENSG00000166260
rs4793782:53025342:C:T:ENSG00000166260 0.035322296 0.668532818
0.618696386 0.276782326 0.690981753 0.813853703
rs4793782:53025342:C:T ENSG00000166260
rs34391032:53028683:C:T:ENSG00000166260 0.035322296 0.668532818
0.618696386 0.276782326 0.690981753 0.813853703
rs34391032:53028683:C:T ENSG00000166260
rs34632315:53030668:G:T:ENSG00000166260 0.035322296 0.668532818
0.599411169 0.263905944 0.610999891 0.813853703
rs34632315:53030668:G:T ENSG00000166260
rs2024465:53034652:T:C:ENSG00000166260 0.035322296 0.661628136
0.542268712 0.072575018 0.490050927 0.793644504
rs2024465:53034652:T:C ENSG00000166260
rs57632493:53037489:C:T:ENSG00000166260 0.035322296 0.661628136
0.571157005 0.263905944 0.585329409 0.813853703
rs57632493:53037489:C:T ENSG00000166260
rs60736080:53037609:C:A:ENSG00000166260 0.035322296 0.661628136
0.571157005 0.263905944 0.585329409 0.813853703
rs60736080:53037609:C:A ENSG00000166260
rs1057980:53038783:G:A:ENSG00000166260 0.035322296 0.680193701
0.411358711 0.123210094 0.595947504 0.813853703
rs1057980:53038783:G:A ENSG00000166260
rs35310805:53043117:G:A:ENSG00000166260 0.035322296 0.661471783
0.536792521 0.072575018 0.480692872 0.79451053
rs35310805:53043117:G:A ENSG00000166260

rs11869638:53043894:T:C:ENSG00000166260 0.035322296 0.655089161
0.568513848 0.244282474 0.574209974 0.812790135
rs11869638:53043894:T:C ENSG00000166260
rs11872021:53043978:G:T:ENSG00000166260 0.035322296 0.654488658
0.568513848 0.263905944 0.565674613 0.813853703
rs11872021:53043978:G:T ENSG00000166260
17:53045325-G-A:ENSG00000166260 0.035322296 0.591220107 0.370396184
0.226823504 0.467095788 0.813853703 17:53045325-G-A ENSG00000166260
rs8064882:53046209:C:T:ENSG00000166260 0.035322296 0.58760415
0.222302049 0.072575018 0.311775972 0.813853703
rs8064882:53046209:C:T ENSG00000166260
rs8072827:53073858:A:G:ENSG00000166260 0.035322296 0.628196016
0.625050185 0.123210094 0.679445541 0.813853703
rs8072827:53073858:A:G ENSG00000166260
rs2787479:53100954:G:A:ENSG00000166260 0.035322296 0.58760415
0.575705306 0.072575018 0.504458419 0.813853703
rs2787479:53100954:G:A ENSG00000166260
rs2541248:53135536:C:T:ENSG00000166260 0.035322296 0.604833185
0.613735952 0.123210094 0.603710229 0.813853703
rs2541248:53135536:C:T ENSG00000166260
rs369825956:53161870:G:T:ENSG00000166260 0.035322296 0.603261923
0.612361159 0.123210094 0.603364769 0.813853703
rs369825956:53161870:G:T ENSG00000166260
rs2628295:53169723:A:G:ENSG00000166260 0.035322296 0.596551252
0.597182664 0.123210094 0.610999891 0.813853703
rs2628295:53169723:A:G ENSG00000166260
rs2111098:53174171:C:T:ENSG00000166260 0.035322296 0.566392291
0.568513848 0.123210094 0.688090257 0.813853703
rs2111098:53174171:C:T ENSG00000166260
rs2529500:53188379:G:A:ENSG00000166260 0.035322296 0.591220107
0.618696386 0.226823504 0.758499809 0.813853703
rs2529500:53188379:G:A ENSG00000166260
rs66476175:53197139:TTAA:T:ENSG00000166260 0.035322296 0.591220107
0.618696386 0.226823504 0.760373793 0.813853703
rs66476175:53197139:TTAA:T ENSG00000166260
rs2628322:53205356:G:A:ENSG00000166260 0.035322296 0.600158632
0.621329859 0.226823504 0.765632175 0.813853703
rs2628322:53205356:G:A ENSG00000166260
rs1029626:53220620:A:G:ENSG00000166260 0.035322296 0.602503447
0.645109255 0.072575018 0.690981753 0.813853703
rs1029626:53220620:A:G ENSG00000166260
rs61756761:77079576:A:G:ENSG00000167280 0.117465891 0.039514306
0.054815691 0.072575018 0.198669295 0.447199093
rs61756761:77079576:A:G ENSG00000167280
rs75984315:78011524:G:A:ENSG00000261978 0.295612735 0.039514306
0.828327833 0.419678998 0.690981753 0.813853703
rs75984315:78011524:G:A ENSG00000261978
rs143724060:78067597:G:A:ENSG00000141519 0.035322296 0.615606804
0.828327833 0.778955161 0.758499809 0.735371396
rs143724060:78067597:G:A ENSG00000141519
rs1970763:661812:A:G:ENSG00000132199 0.035322296 0.039514306
0.828327833 0.276782326 0.544223189 0.628577259 rs1970763:661812:A:G
ENSG00000132199

rs2612100:672363:G:A:ENSG00000132199 0.035322296 0.039514306
0.806718901 0.276782326 0.54593522 0.650718924 rs2612100:672363:G:A
ENSG00000132199

rs2741186:678947:A:G:ENSG00000132199 0.146129194 0.039514306
0.828327833 0.226823504 0.484480155 0.813853703 rs2741186:678947:A:G
ENSG00000132199

rs2612093:679334:T:C:ENSG00000132199 0.146129194 0.039514306
0.828327833 0.226823504 0.484480155 0.813853703 rs2612093:679334:T:C
ENSG00000132199

rs12968865:772622:A:G:ENSG00000132199 0.146129194 0.039514306
0.828327833 0.579004696 0.690981753 0.813853703 rs12968865:772622:A:G
ENSG00000132199

rs606105:11993038:A:G:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs606105:11993038:A:G
ENSG00000141401

rs606020:11993096:T:G:ENSG00000141401 0.146968287 0.039514306
0.054815691 0.072575018 0.112902598 0.063994875 rs606020:11993096:T:G
ENSG00000141401

rs605636:11993138:C:G:ENSG00000141401 0.339000963 0.039514306
0.238368074 0.276782326 0.54593522 0.063994875 rs605636:11993138:C:G
ENSG00000141401

rs591061:11993175:C:T:ENSG00000141401 0.332523749 0.039514306
0.054815691 0.072575018 0.148497947 0.063994875 rs591061:11993175:C:T
ENSG00000141401

rs592577:11993748:A:G:ENSG00000141401 0.320653282 0.039514306
0.238368074 0.244282474 0.54593522 0.063994875 rs592577:11993748:A:G
ENSG00000141401

rs604962:11993889:T:C:ENSG00000141401 0.100009087 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs604962:11993889:T:C
ENSG00000141401

rs605047:11993959:T:C:ENSG00000141401 0.311750411 0.039514306
0.222302049 0.276782326 0.512857075 0.063994875 rs605047:11993959:T:C
ENSG00000141401

rs605964:11994163:T:C:ENSG00000141401 0.081933656 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs605964:11994163:T:C
ENSG00000141401

rs606370:11994253:T:C:ENSG00000141401 0.305615864 0.039514306
0.222302049 0.276782326 0.484480155 0.063994875 rs606370:11994253:T:C
ENSG00000141401

rs590277:11994258:G:A:ENSG00000141401 0.060909118 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs590277:11994258:G:A
ENSG00000141401

rs607200:11994414:C:T:ENSG00000141401 0.311750411 0.039514306 0.20393713
0.276782326 0.484480155 0.063994875 rs607200:11994414:C:T
ENSG00000141401

rs669838:ENSG00000141401 0.146968287 0.039514306 0.054815691
0.072575018 0.237095457 0.063994875 rs669838 ENSG00000141401

rs636173:11996337:G:A:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs636173:11996337:G:A
ENSG00000141401

rs671470:ENSG00000141401 0.035322296 0.039514306 0.054815691
0.072575018 0.069942274 0.063994875 rs671470 ENSG00000141401

rs663401:12001971:C:T:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs663401:12001971:C:T
ENSG00000141401

rs1249977:12002689:G:T:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs1249977:12002689:G:T ENSG00000141401

rs7226475:12002922:T:C:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7226475:12002922:T:C ENSG00000141401

rs7244661:12002963:G:A:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7244661:12002963:G:A ENSG00000141401

rs9955982:12003278:C:T:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs9955982:12003278:C:T ENSG00000141401

rs6505704:12003760:T:C:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6505704:12003760:T:C ENSG00000141401

rs6505706:12003953:T:C:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.148497947 0.063994875
rs6505706:12003953:T:C ENSG00000141401

rs7234493:12004090:A:G:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7234493:12004090:A:G ENSG00000141401

rs626097:12004696:A:G:ENSG00000141401 0.035322296 0.039514306
0.054815691 0.072575018 0.173591669 0.063994875 rs626097:12004696:A:G
ENSG00000141401

rs12953406:12550908:T:C:ENSG00000134278 0.33585794 0.039514306
0.090437058 0.123210094 0.112902598 0.108665807
rs12953406:12550908:T:C ENSG00000134278

rs12961966:12552632:A:T:ENSG00000134278 0.271758927 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs12961966:12552632:A:T ENSG00000134278

rs58215411:12554125:C:T:ENSG00000134278 0.34585993 0.039514306
0.121437838 0.123210094 0.148497947 0.108665807
rs58215411:12554125:C:T ENSG00000134278

rs10445428:12555127:C:T:ENSG00000134278 0.243759522 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs10445428:12555127:C:T ENSG00000134278

rs11080582:12555802:C:T:ENSG00000134278 0.336997499 0.039514306
0.121437838 0.123210094 0.148497947 0.108665807
rs11080582:12555802:C:T ENSG00000134278

rs12964660:12556646:G:A:ENSG00000134278 0.271758927 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs12964660:12556646:G:A ENSG00000134278

rs11080584:12558095:T:C:ENSG00000134278 0.34585993 0.039514306
0.121437838 0.123210094 0.148497947 0.108665807
rs11080584:12558095:T:C ENSG00000134278

rs34456643:12565250:T:C:ENSG00000134278 0.278501935 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs34456643:12565250:T:C ENSG00000134278

rs114098461:29406593:G:A:ENSG00000153339 0.035322296 0.039514306
0.828327833 0.739901512 0.942538391 0.063994875
rs114098461:29406593:G:A ENSG00000153339

rs113509740:29412326:CAAT:C:ENSG00000153339 0.23344096 0.039514306
0.572955873 0.476011459 0.647818531 0.063994875
rs113509740:29412326:CAAT:C ENSG00000153339
rs76611163:29418590:C:T:ENSG00000153339 0.278501935 0.039514306
0.618696386 0.528521718 0.70366248 0.063994875
rs76611163:29418590:C:T ENSG00000153339
rs112148461:29428676:A:C:ENSG00000153339 0.330291618 0.039514306
0.752478809 0.395341642 0.690981753 0.063994875
rs112148461:29428676:A:C ENSG00000153339
rs111250816:29436305:G:T:ENSG00000153339 0.228236375 0.039514306
0.568513848 0.476011459 0.636822477 0.063994875
rs111250816:29436305:G:T ENSG00000153339
rs113286310:29438926:C:T:ENSG00000153339 0.228236375 0.039514306
0.568513848 0.476011459 0.636822477 0.063994875
rs113286310:29438926:C:T ENSG00000153339
rs112629964:29443439:A:G:ENSG00000153339 0.331782397 0.039514306
0.753805316 0.395341642 0.690981753 0.063994875
rs112629964:29443439:A:G ENSG00000153339
exm1381480:ENSG00000153339 0.228236375 0.039514306 0.568513848
0.476011459 0.636822477 0.063994875 exm1381480 ENSG00000153339
rs16962533:29451312:G:A:ENSG00000153339 0.278501935 0.039514306
0.618696386 0.528521718 0.70366248 0.063994875
rs16962533:29451312:G:A ENSG00000153339
rs75328836:29456039:T:G:ENSG00000153339 0.228236375 0.039514306
0.568513848 0.476011459 0.636822477 0.063994875
rs75328836:29456039:T:G ENSG00000153339
rs113256718:29462996:G:A:ENSG00000153339 0.282721177 0.039514306
0.61437749 0.528521718 0.693223878 0.063994875
rs113256718:29462996:G:A ENSG00000153339
rs112287298:29466720:C:T:ENSG00000153339 0.278501935 0.039514306
0.618696386 0.528521718 0.70366248 0.063994875
rs112287298:29466720:C:T ENSG00000153339
rs141693008:29469581:TATTTC:T:ENSG00000153339 0.282721177 0.039514306
0.61437749 0.528521718 0.693223878 0.063994875
rs141693008:29469581:TATTTC:T ENSG00000153339
rs147324270:29474436:GA:G:ENSG00000153339 0.228236375 0.039514306
0.568513848 0.476011459 0.636822477 0.063994875
rs147324270:29474436:GA:G ENSG00000153339
18:29477698:A:T:ENSG00000153339 0.280686821 0.039514306 0.614457891
0.530641947 0.70366248 0.063994875 18:29477698:A:T ENSG00000153339
rs111563713:29482778:C:T:ENSG00000153339 0.228236375 0.039514306
0.568513848 0.476011459 0.636822477 0.063994875
rs111563713:29482778:C:T ENSG00000153339
rs16962565:29483666:G:A:ENSG00000153339 0.278501935 0.039514306
0.618696386 0.528521718 0.70366248 0.063994875
rs16962565:29483666:G:A ENSG00000153339
rs77159512:29487639:A:T:ENSG00000153339 0.28152348 0.039514306
0.612361159 0.528521718 0.690981753 0.063994875
rs77159512:29487639:A:T ENSG00000153339
rs113666085:29504598:G:T:ENSG00000153339 0.228236375 0.039514306
0.568513848 0.476011459 0.636822477 0.063994875
rs113666085:29504598:G:T ENSG00000153339

rs111311196:29506020:G:A:ENSG00000153339 0.228236375 0.039514306
0.568513848 0.476011459 0.636822477 0.063994875
rs111311196:29506020:G:A ENSG00000153339
rs116765600:29507807:T:G:ENSG00000153339 0.27577637 0.039514306
0.617968597 0.528521718 0.70366248 0.063994875
rs116765600:29507807:T:G ENSG00000153339
rs75684315:29522933:G:A:ENSG00000153339 0.146968287 0.039514306
0.568513848 0.613788364 0.9305498 0.063994875
rs75684315:29522933:G:A ENSG00000153339
rs4806173:36024925:G:C:ENSG00000105677 0.169284753 0.039514306
0.090437058 0.395341642 0.593489895 0.471730191
rs4806173:36024925:G:C ENSG00000105677
rs2251124:ENSG00000105677 0.271758927 0.039514306 0.655258797
0.558498626 0.750632228 0.813853703 rs2251124 ENSG00000105677
rs171376:38266993:C:T:ENSG00000120784 0.595986607 0.039514306
0.770611985 0.491850645 0.933432342 0.063994875 rs171376:38266993:C:T
ENSG00000120784
rs3815710:41386494:A:C:ENSG00000213908 0.190392053 0.039514306
0.466752146 0.447551187 0.355219989 0.108665807
rs3815710:41386494:A:C ENSG00000213908
rs28602288:41388740:C:T:ENSG00000213908 0.271758927 0.039514306
0.390230616 0.072575018 0.069942274 0.201281701
rs28602288:41388740:C:T ENSG00000213908
rs28427254:41388777:A:G:ENSG00000213908 0.293391132 0.039514306
0.370396184 0.466610843 0.237095457 0.108665807
rs28427254:41388777:A:G ENSG00000213908
rs11083580:41388836:G:A:ENSG00000213908 0.271758927 0.039514306
0.310525978 0.408307051 0.251839208 0.108665807
rs11083580:41388836:G:A ENSG00000213908
rs16981882:ENSG00000268001 0.035322296 0.354347171 0.054815691
0.165229468 0.787720344 0.319318857 rs16981882 ENSG00000268001
rs7254361:48758095:A:G:ENSG00000268001 0.035322296 0.329515493
0.054815691 0.123210094 0.749667392 0.319318857
rs7254361:48758095:A:G ENSG00000268001
rs113148838:49366864:T:C:ENSG00000104808 0.035322296 0.496476304
0.054815691 0.263905944 0.760373793 0.063994875
rs113148838:49366864:T:C ENSG00000104808
JHU_19.49369283:ENSG00000104808 0.035322296 0.455090809 0.054815691
0.197042097 0.71243013 0.063994875 JHU_19.49369283 ENSG00000104808
rs10423971:50469876:C:T:ENSG00000105053 0.035322296 0.651399716
0.778199855 0.512101623 0.54593522 0.569708815
rs10423971:50469876:C:T ENSG00000105053
rs4542770:50477507:C:T:ENSG00000105053 0.035322296 0.545396919
0.618696386 0.244282474 0.112902598 0.201281701
rs4542770:50477507:C:T ENSG00000105053
rs57178813:50478287:GATC:G:ENSG00000105053 0.035322296 0.545396919
0.618696386 0.244282474 0.112902598 0.201281701
rs57178813:50478287:GATC:G ENSG00000105053
rs79125155:50478852:C:T:ENSG00000105053 0.035322296 0.651399716
0.767163632 0.505302083 0.544223189 0.56328436
rs79125155:50478852:C:T ENSG00000105053
rs79125155:50478852:C:T:ENSG00000204666 0.035322296 0.039514306
0.054815691 0.072575018 0.54593522 0.269135872
rs79125155:50478852:C:T ENSG00000204666

rs73933920:50479676:C:T:ENSG00000105053 0.035322296 0.461224231
0.568513848 0.072575018 0.069942274 0.063994875
rs73933920:50479676:C:T ENSG00000105053
rs13345672:50479887:C:T:ENSG00000105053 0.035322296 0.618523 0.70008691
0.458827356 0.363699827 0.471730191 rs13345672:50479887:C:T
ENSG00000105053
rs35937899:50480004:ATT:AT:ENSG00000105053 0.035322296 0.605632687
0.683035763 0.455203609 0.347424829 0.451526982
rs35937899:50480004:ATT:AT ENSG00000105053
rs722121:50480164:A:G:ENSG00000105053 0.035322296 0.543518091
0.618696386 0.226823504 0.112902598 0.201281701 rs722121:50480164:A:G
ENSG00000105053
rs55706842:50480657:T:C:ENSG00000105053 0.035322296 0.543518091
0.618696386 0.226823504 0.112902598 0.201281701
rs55706842:50480657:T:C ENSG00000105053
rs56140915:50480668:C:T:ENSG00000105053 0.035322296 0.618523 0.70008691
0.458827356 0.363699827 0.469127215 rs56140915:50480668:C:T
ENSG00000105053
rs16981592:50480709:T:C:ENSG00000105053 0.035322296 0.618523 0.70008691
0.458827356 0.363699827 0.469127215 rs16981592:50480709:T:C
ENSG00000105053
rs73933923:50480726:G:A:ENSG00000105053 0.035322296 0.290843861
0.400191924 0.072575018 0.069942274 0.063994875
rs73933923:50480726:G:A ENSG00000105053
rs73933924:50480762:G:A:ENSG00000105053 0.035322296 0.461224231
0.568366244 0.072575018 0.069942274 0.063994875
rs73933924:50480762:G:A ENSG00000105053
rs16981594:50480767:G:A:ENSG00000105053 0.035322296 0.618523 0.70008691
0.458827356 0.363699827 0.469127215 rs16981594:50480767:G:A
ENSG00000105053
rs10413752:50480909:A:G:ENSG00000105053 0.035322296 0.651399716
0.762115044 0.505302083 0.538368464 0.56328436
rs10413752:50480909:A:G ENSG00000105053
rs10414478:50480919:G:A:ENSG00000105053 0.035322296 0.611028519
0.762115044 0.520505218 0.595947504 0.477177495
rs10414478:50480919:G:A ENSG00000105053
rs34958342:50481082:A:T:ENSG00000204666 0.035322296 0.651227337
0.184980376 0.379688866 0.9305498 0.063994875
rs34958342:50481082:A:T ENSG00000204666
rs10416166:50481154:T:C:ENSG00000105053 0.035322296 0.440891171
0.545428271 0.072575018 0.069942274 0.063994875
rs10416166:50481154:T:C ENSG00000105053
rs10414636:50481271:A:T:ENSG00000105053 0.035322296 0.480240845
0.568513848 0.072575018 0.069942274 0.063994875
rs10414636:50481271:A:T ENSG00000105053
rs205338:50481284:G:A:ENSG00000105053 0.035322296 0.517058604
0.584308021 0.123210094 0.069942274 0.108665807 rs205338:50481284:G:A
ENSG00000105053
rs10416566:50481320:T:C:ENSG00000105053 0.035322296 0.600158632
0.664963743 0.390584104 0.237095457 0.390568128
rs10416566:50481320:T:C ENSG00000105053
rs73932218:50481411:A:G:ENSG00000105053 0.035322296 0.463260354
0.568513848 0.072575018 0.069942274 0.063994875
rs73932218:50481411:A:G ENSG00000105053

rs73932219:50481510:A:G:ENSG00000105053 0.035322296 0.612465533
0.680579361 0.408307051 0.311775972 0.441545027
rs73932219:50481510:A:G ENSG00000105053
rs73932220:50481645:C:T:ENSG00000105053 0.035322296 0.463260354
0.568513848 0.072575018 0.069942274 0.063994875
rs73932220:50481645:C:T ENSG00000105053
rs73932221:50481652:T:C:ENSG00000105053 0.035322296 0.604833185
0.674762224 0.438119062 0.340307796 0.441545027
rs73932221:50481652:T:C ENSG00000105053
rs755969:50481927:C:T:ENSG00000105053 0.035322296 0.604833185
0.674171317 0.438119062 0.340307796 0.441545027 rs755969:50481927:C:T
ENSG00000105053
rs15983:50482480:C:T:ENSG00000105053 0.035322296 0.604833185
0.674171317 0.438119062 0.340307796 0.441545027 rs15983:50482480:C:T
ENSG00000105053
rs35464650:50482910:C:T:ENSG00000105053 0.035322296 0.626739008
0.466752146 0.197042097 0.069942274 0.797872501
rs35464650:50482910:C:T ENSG00000105053
rs200204653:50483142:A:AG:ENSG00000105053 0.035322296 0.604833185
0.674171317 0.432896498 0.340307796 0.438723573
rs200204653:50483142:A:AG ENSG00000105053
rs10417880:50483149:T:C:ENSG00000105053 0.035322296 0.515426761
0.592067279 0.123210094 0.069942274 0.108665807
rs10417880:50483149:T:C ENSG00000105053
rs149213678:50483334:A:AAAAT:ENSG00000105053 0.035322296 0.535783092
0.605977561 0.165229468 0.069942274 0.140342165
rs149213678:50483334:A:AAAAT ENSG00000105053
rs16981613:50483670:T:C:ENSG00000105053 0.035322296 0.634930259
0.718826765 0.491850645 0.438540244 0.506819053
rs16981613:50483670:T:C ENSG00000105053
rs201173142:50484030:T:TTG:ENSG00000105053 0.035322296 0.634930259
0.718826765 0.491850645 0.438540244 0.506819053
rs201173142:50484030:T:TTG ENSG00000105053
rs59712866:50484032:T:TG:ENSG00000105053 0.035322296 0.634930259
0.718826765 0.491850645 0.438540244 0.506819053
rs59712866:50484032:T:TG ENSG00000105053
rs16981615:50484052:C:T:ENSG00000105053 0.035322296 0.634930259
0.718826765 0.491850645 0.438540244 0.506819053
rs16981615:50484052:C:T ENSG00000105053
rs56404076:50484208:G:A:ENSG00000105053 0.035322296 0.634930259
0.718826765 0.491850645 0.438540244 0.506819053
rs56404076:50484208:G:A ENSG00000105053
JHU_19.50484346:ENSG00000105053 0.035322296 0.634930259 0.718826765
0.489772876 0.438540244 0.506819053 JHU_19.50484346 ENSG00000105053
19:50484571:A:AG:ENSG00000105053 0.035322296 0.632005909 0.714717525
0.478009532 0.438540244 0.506819053 19:50484571:A:AG ENSG00000105053
rs73932222:50485134:A:G:ENSG00000105053 0.035322296 0.624052474 0.69711943
0.478009532 0.438540244 0.503271951 rs73932222:50485134:A:G
ENSG00000105053
rs73932225:50485384:G:T:ENSG00000105053 0.035322296 0.621180076
0.693319897 0.459055393 0.340307796 0.468334324
rs73932225:50485384:G:T ENSG00000105053

rs73932226:50485478:A:G:ENSG00000105053 0.035322296 0.626739008 0.70601294
0.447551187 0.328523647 0.467974804 rs73932226:50485478:A:G
ENSG00000105053

rs73932227:50485548:T:C:ENSG00000105053 0.035322296 0.632005909
0.717524365 0.486971863 0.438540244 0.503271951
rs73932227:50485548:T:C ENSG00000105053

rs57672084:50485747:G:GA:ENSG00000105053 0.035322296 0.613345947
0.680579361 0.401539023 0.218559406 0.419171564
rs57672084:50485747:G:GA ENSG00000105053

rs59324729:50486023:C:T:ENSG00000105053 0.035322296 0.614466288
0.685268659 0.401539023 0.266901314 0.401203391
rs59324729:50486023:C:T ENSG00000105053

rs61631403:50486056:T:C:ENSG00000105053 0.035322296 0.648883851
0.740552043 0.469436994 0.347424829 0.476127813
rs61631403:50486056:T:C ENSG00000105053

rs56793526:50486060:A:C:ENSG00000105053 0.035322296 0.64788567
0.740140062 0.472415297 0.340307796 0.476127813
rs56793526:50486060:A:C ENSG00000105053

rs16981625:50486314:G:C:ENSG00000105053 0.035322296 0.651227337
0.744376278 0.509242766 0.480692872 0.563139599
rs16981625:50486314:G:C ENSG00000105053

rs73932228:50486440:A:G:ENSG00000105053 0.035322296 0.650780207
0.743226112 0.512101623 0.477032507 0.563139599
rs73932228:50486440:A:G ENSG00000105053

rs73932230:50486521:G:A:ENSG00000105053 0.035322296 0.651399716
0.797880971 0.558498626 0.690981753 0.562535698
rs73932230:50486521:G:A ENSG00000105053

rs73932232:50486540:G:A:ENSG00000105053 0.035322296 0.637435282
0.738200785 0.463396258 0.355219989 0.457928806
rs73932232:50486540:G:A ENSG00000105053

rs73932233:50486687:G:A:ENSG00000105053 0.035322296 0.642113186
0.731144493 0.466610843 0.355219989 0.487204938
rs73932233:50486687:G:A ENSG00000105053

rs148093508:50487193:TG:T:ENSG00000105053 0.035322296 0.642113186
0.731144493 0.466610843 0.355219989 0.487204938
rs148093508:50487193:TG:T ENSG00000105053

rs12165126:50487432:G:C:ENSG00000105053 0.035322296 0.346656012
0.406502841 0.263905944 0.069942274 0.063994875
rs12165126:50487432:G:C ENSG00000105053

rs13382171:50487821:G:A:ENSG00000105053 0.035322296 0.62210204 0.70008691
0.463396258 0.395007577 0.477177495 rs13382171:50487821:G:A
ENSG00000105053

rs59634487:50487994:T:C:ENSG00000105053 0.035322296 0.62210204 0.69711943
0.463396258 0.395007577 0.477177495 rs59634487:50487994:T:C
ENSG00000105053

rs77696537:50488259:T:C:ENSG00000105053 0.035322296 0.62210204 0.69711943
0.463396258 0.395007577 0.477177495 rs77696537:50488259:T:C
ENSG00000105053

rs116574306:50488311:G:A:ENSG00000105053 0.035322296 0.621195464
0.694666609 0.459055393 0.395007577 0.4815871
rs116574306:50488311:G:A ENSG00000105053

rs55780989:50488495:C:T:ENSG00000105053 0.035322296 0.621195464
0.694666609 0.459055393 0.395007577 0.4815871
rs55780989:50488495:C:T ENSG00000105053

rs73932236:50488606:C:T:ENSG00000105053 0.035322296 0.621195464
0.694666609 0.459055393 0.395007577 0.4815871
rs73932236:50488606:C:T ENSG00000105053
rs73932237:50488639:C:T:ENSG00000105053 0.035322296 0.615606804
0.695869412 0.454179145 0.388754065 0.464247637
rs73932237:50488639:C:T ENSG00000105053
rs11083993:50488958:G:C:ENSG00000105053 0.035322296 0.603890882
0.670633075 0.429269101 0.288162171 0.441545027
rs11083993:50488958:G:C ENSG00000105053
rs11083994:50489044:G:T:ENSG00000105053 0.035322296 0.621195464
0.694666609 0.459055393 0.395007577 0.4815871
rs11083994:50489044:G:T ENSG00000105053
rs11083995:50489046:T:C:ENSG00000105053 0.035322296 0.621195464
0.694666609 0.459055393 0.395007577 0.4815871
rs11083995:50489046:T:C ENSG00000105053
rs10408871:50489359:C:G:ENSG00000105053 0.035322296 0.621195464
0.694666609 0.459055393 0.395007577 0.4815871
rs10408871:50489359:C:G ENSG00000105053
rs10409147:50489564:A:G:ENSG00000105053 0.035322296 0.621195464
0.694666609 0.459055393 0.395007577 0.4815871
rs10409147:50489564:A:G ENSG00000105053
rs11882374:50489825:T:C:ENSG00000105053 0.035322296 0.613345947
0.681949548 0.414104514 0.300892226 0.438723573
rs11882374:50489825:T:C ENSG00000105053
rs11879527:50489961:A:G:ENSG00000105053 0.035322296 0.629866286
0.712504133 0.491850645 0.403448628 0.51457021
rs11879527:50489961:A:G ENSG00000105053
rs11879568:50490075:C:T:ENSG00000105053 0.035322296 0.621195464
0.694666609 0.459055393 0.395007577 0.4815871
rs11879568:50490075:C:T ENSG00000105053
rs73932262:50490170:A:C:ENSG00000105053 0.035322296 0.62210204 0.69711943
0.463396258 0.395007577 0.477177495 rs73932262:50490170:A:C
ENSG00000105053
rs34927402:50490352:C:T:ENSG00000105053 0.035322296 0.623013991 0.69711943
0.463396258 0.395007577 0.477177495 rs34927402:50490352:C:T
ENSG00000105053
19:50490490-C-T:ENSG00000105053 0.035322296 0.628196016 0.707238467
0.491850645 0.445056985 0.535941137 19:50490490-C-T ENSG00000105053
rs11879659:50490522:C:T:ENSG00000105053 0.035322296 0.626739008 0.70601294
0.491850645 0.450253392 0.535941137 rs11879659:50490522:C:T
ENSG00000105053
19:50490539-C-T:ENSG00000105053 0.035322296 0.624868528 0.707238467
0.491850645 0.450253392 0.535941137 19:50490539-C-T ENSG00000105053
rs11879641:ENSG00000105053 0.035322296 0.626739008 0.704400012
0.491850645 0.450253392 0.535941137 rs11879641 ENSG00000105053
rs11882531:50490580:T:C:ENSG00000105053 0.035322296 0.626739008
0.704400012 0.491850645 0.450253392 0.535941137
rs11882531:50490580:T:C ENSG00000105053
rs72382574:50490686:GCTCC:G:ENSG00000105053 0.035322296 0.6447756
0.738200785 0.496527133 0.455878819 0.550290331
rs72382574:50490686:GCTCC:G ENSG00000105053
JHU_19.50490767:ENSG00000105053 0.035322296 0.651399716 0.767163632
0.546358114 0.550609082 0.613318589 JHU_19.50490767 ENSG00000105053

rs150922686:50491039:A:G:ENSG00000105053 0.035322296 0.651399716
0.767163632 0.546358114 0.550609082 0.613318589
rs150922686:50491039:A:G ENSG00000105053
rs181644066:50491047:A:C:ENSG00000105053 0.035322296 0.603890882
0.668344684 0.395341642 0.251839208 0.374953256
rs181644066:50491047:A:C ENSG00000105053
rs187102874:50491053:A:G:ENSG00000105053 0.035322296 0.628196016
0.708429962 0.450346002 0.395007577 0.469127215
rs187102874:50491053:A:G ENSG00000105053
rs73932267:50491346:T:G:ENSG00000105053 0.035322296 0.600158632
0.660396949 0.401539023 0.251839208 0.382106273
rs73932267:50491346:T:G ENSG00000105053
rs201067979:50491571:TCCACCTGCAGGGTTCTGCTGA:T:ENSG00000105053
0.035322296 0.612465533 0.679533134 0.399004389 0.173591669
0.401203391 rs201067979:50491571:TCCACCTGCAGGGTTCTGCTGA:T
ENSG00000105053
rs73932268:50491733:G:A:ENSG00000105053 0.035322296 0.592406993
0.655258797 0.395341642 0.173591669 0.382106273
rs73932268:50491733:G:A ENSG00000105053
exml493319:ENSG00000105053 0.035322296 0.612465533 0.679533134
0.399004389 0.198669295 0.414364157 exml493319 ENSG00000105053
rs59676748:50491936:T:TCTTA:ENSG00000105053 0.035322296 0.614466288
0.681949548 0.406267798 0.198669295 0.431187426
rs59676748:50491936:T:TCTTA ENSG00000105053
rs7254850:50492030:C:T:ENSG00000105053 0.035322296 0.608740409
0.678642404 0.399004389 0.266901314 0.431187426
rs7254850:50492030:C:T ENSG00000105053
rs7254964:50492120:C:T:ENSG00000105053 0.035322296 0.610547431
0.679533134 0.401539023 0.279727316 0.438723573
rs7254964:50492120:C:T ENSG00000105053
rs16981637:50492272:A:G:ENSG00000105053 0.035322296 0.619608693
0.687554362 0.406267798 0.218559406 0.419171564
rs16981637:50492272:A:G ENSG00000105053
rs56284138:50492308:C:T:ENSG00000105053 0.035322296 0.619608693
0.686442642 0.408307051 0.266901314 0.441545027
rs56284138:50492308:C:T ENSG00000105053
rs10418911:50492751:C:T:ENSG00000105053 0.035322296 0.604833185
0.671106111 0.385352708 0.237095457 0.401203391
rs10418911:50492751:C:T ENSG00000105053
rs10424249:50492813:C:T:ENSG00000105053 0.035322296 0.651399716
0.761772115 0.496527133 0.484480155 0.545172079
rs10424249:50492813:C:T ENSG00000105053
rs73932271:50493535:A:G:ENSG00000105053 0.035322296 0.596551252
0.655792554 0.350892299 0.173591669 0.295623551
rs73932271:50493535:A:G ENSG00000105053
rs80095022:50493581:T:C:ENSG00000105053 0.035322296 0.591771121 0.65418952
0.358702521 0.237095457 0.319318857 rs80095022:50493581:T:C
ENSG00000105053
rs10541451:50493976:CTA:C:ENSG00000105053 0.035322296 0.595671165
0.655792554 0.333474506 0.148497947 0.295623551
rs10541451:50493976:CTA:C ENSG00000105053
rs8102461:50493992:G:C:ENSG00000105053 0.035322296 0.634437555
0.717524365 0.469436994 0.340307796 0.469127215
rs8102461:50493992:G:C ENSG00000105053

rs11315688:50494040:AT:A:ENSG00000105053 0.035322296 0.624868528
0.828327833 0.491850645 0.438540244 0.550290331
rs11315688:50494040:AT:A ENSG00000105053
rs8103252:50494102:T:C:ENSG00000105053 0.035322296 0.63739825
0.721465596 0.459055393 0.328523647 0.467974804
rs8103252:50494102:T:C ENSG00000105053
rs8103340:50494123:T:C:ENSG00000105053 0.035322296 0.602503447
0.661919508 0.340834261 0.173591669 0.333543658
rs8103340:50494123:T:C ENSG00000105053
rs8103356:50494166:T:C:ENSG00000105053 0.035322296 0.607630844
0.674868706 0.424824518 0.311775972 0.451526982
rs8103356:50494166:T:C ENSG00000105053
rs8102635:50494242:C:T:ENSG00000105053 0.035322296 0.613345947
0.680579361 0.429269101 0.300892226 0.438723573
rs8102635:50494242:C:T ENSG00000105053
rs10406726:50494485:A:G:ENSG00000105053 0.035322296 0.631133206
0.712504133 0.435112224 0.347424829 0.467974804
rs10406726:50494485:A:G ENSG00000105053
rs10407109:50494563:C:A:ENSG00000105053 0.035322296 0.632005909
0.713452083 0.435112224 0.340307796 0.467974804
rs10407109:50494563:C:A ENSG00000105053
rs59511347:50494792:G:A:ENSG00000105053 0.035322296 0.469499546
0.642599458 0.379688866 0.266901314 0.308405655
rs59511347:50494792:G:A ENSG00000105053
rs10413464:50495076:C:T:ENSG00000105053 0.035322296 0.604833185
0.670633075 0.432896498 0.311775972 0.447199093
rs10413464:50495076:C:T ENSG00000105053
rs10413869:50495240:C:T:ENSG00000105053 0.035322296 0.596551252
0.655792554 0.387628207 0.218559406 0.369977602
rs10413869:50495240:C:T ENSG00000105053
rs7253014:50495527:A:G:ENSG00000105053 0.035322296 0.650780207
0.743226112 0.513724482 0.538368464 0.586168441
rs7253014:50495527:A:G ENSG00000105053
rs7253041:50495589:A:G:ENSG00000105053 0.035322296 0.649779607
0.743226112 0.519043541 0.538368464 0.58035006
rs7253041:50495589:A:G ENSG00000105053
rs10423200:50496444:T:C:ENSG00000105053 0.035322296 0.649779607
0.741940112 0.519043541 0.538368464 0.577395471
rs10423200:50496444:T:C ENSG00000105053
rs9304691:50496622:G:A:ENSG00000105053 0.035322296 0.651399716
0.800036916 0.546358114 0.54593522 0.593888412
rs9304691:50496622:G:A ENSG00000105053
rs9304692:50496783:G:A:ENSG00000105053 0.035322296 0.600790062
0.661919508 0.414104514 0.251839208 0.419171564
rs9304692:50496783:G:A ENSG00000105053
rs150214388:50496802:G:C:ENSG00000105053 0.035322296 0.602503447
0.668344684 0.419678998 0.266901314 0.423659401
rs150214388:50496802:G:C ENSG00000105053
rs145781311:50496804:T:C:ENSG00000105053 0.035322296 0.602503447
0.668344684 0.419678998 0.266901314 0.423659401
rs145781311:50496804:T:C ENSG00000105053
rs148928059:50496805:G:A:ENSG00000105053 0.035322296 0.604833185
0.669205477 0.414104514 0.251839208 0.423659401
rs148928059:50496805:G:A ENSG00000105053

rs9304693:50496814:C:A:ENSG00000105053 0.035322296 0.604833185
0.669205477 0.414104514 0.251839208 0.423659401
rs9304693:50496814:C:A ENSG00000105053
rs9304694:50496953:G:A:ENSG00000105053 0.035322296 0.604833185
0.671106111 0.429269101 0.251839208 0.423659401
rs9304694:50496953:G:A ENSG00000105053
rs9304695:50497084:C:T:ENSG00000105053 0.035322296 0.603890882
0.667476732 0.399004389 0.237095457 0.390568128
rs9304695:50497084:C:T ENSG00000105053
rs7247777:50497747:T:G:ENSG00000105053 0.035322296 0.604833185
0.669205477 0.401539023 0.237095457 0.390568128
rs7247777:50497747:T:G ENSG00000105053
rs73935115:50497783:C:T:ENSG00000105053 0.035322296 0.604833185
0.669205477 0.401539023 0.237095457 0.390568128
rs73935115:50497783:C:T ENSG00000105053
rs57668237:50497976:TG:T:ENSG00000105053 0.035322296 0.651399716
0.782893708 0.558498626 0.679445541 0.661034047
rs57668237:50497976:TG:T ENSG00000105053
rs10409085:50497987:A:T:ENSG00000105053 0.035322296 0.651399716
0.781136655 0.558498626 0.650850274 0.643131518
rs10409085:50497987:A:T ENSG00000105053
rs10411020:50498037:T:C:ENSG00000105053 0.035322296 0.651399716
0.788355591 0.558498626 0.676756626 0.663342074
rs10411020:50498037:T:C ENSG00000105053
exm1493342:ENSG00000105053 0.035322296 0.651399716 0.790544482
0.558498626 0.679445541 0.663342074 exm1493342 ENSG00000105053
exm1493346:ENSG00000105053 0.035322296 0.651399716 0.791608149
0.558498626 0.683006713 0.663342074 exm1493346 ENSG00000105053
rs9304696:50498328:T:C:ENSG00000105053 0.035322296 0.651399716
0.790544482 0.558498626 0.667917828 0.660124342
rs9304696:50498328:T:C ENSG00000105053
rs9304697:50498388:G:A:ENSG00000105053 0.035322296 0.654488658 0.80410788
0.563128951 0.690981753 0.707675982 rs9304697:50498388:G:A
ENSG00000105053
rs9304698:50498552:G:A:ENSG00000105053 0.035322296 0.651399716
0.795919388 0.558498626 0.676756626 0.681432383
rs9304698:50498552:G:A ENSG00000105053
rs9304700:50498635:C:T:ENSG00000105053 0.035322296 0.654488658
0.809082901 0.572233838 0.690981753 0.713958104
rs9304700:50498635:C:T ENSG00000105053
rs10417604:50499230:G:A:ENSG00000105053 0.035322296 0.654488658
0.808362103 0.572952418 0.690981753 0.713958104
rs10417604:50499230:G:A ENSG00000105053
rs10417608:50499240:G:A:ENSG00000105053 0.035322296 0.654488658
0.808362103 0.572952418 0.690981753 0.713958104
rs10417608:50499240:G:A ENSG00000105053
rs58859982:50499476:C:CT:ENSG00000105053 0.035322296 0.60953669
0.759245271 0.558498626 0.603364769 0.628577259
rs58859982:50499476:C:CT ENSG00000105053
rs116271340:50500126:A:G:ENSG00000105053 0.035322296 0.638346134
0.727343376 0.489772876 0.460100455 0.522761587
rs116271340:50500126:A:G ENSG00000105053

rs76503872:50500192:G:A:ENSG00000105053 0.035322296 0.651399716
0.782434772 0.553367313 0.54593522 0.615926697
rs76503872:50500192:G:A ENSG00000105053
rs57217408:50500283:T:C:ENSG00000105053 0.035322296 0.640371361
0.729810297 0.491850645 0.467095788 0.525367746
rs57217408:50500283:T:C ENSG00000105053
rs149403807:50500323:T:C:ENSG00000105053 0.035322296 0.638346134
0.726206733 0.491850645 0.429827068 0.52739468
rs149403807:50500323:T:C ENSG00000105053
rs61476152:50500386:T:C:ENSG00000105053 0.035322296 0.563654004
0.618696386 0.290136921 0.112902598 0.282646046
rs61476152:50500386:T:C ENSG00000105053
rs10425470:50500647:C:T:ENSG00000105053 0.035322296 0.563654004
0.618696386 0.290136921 0.112902598 0.282646046
rs10425470:50500647:C:T ENSG00000105053
rs10425307:50500697:A:G:ENSG00000105053 0.035322296 0.563654004
0.618696386 0.290136921 0.112902598 0.282646046
rs10425307:50500697:A:G ENSG00000105053
rs10404987:50500916:A:G:ENSG00000105053 0.035322296 0.581512524
0.644499314 0.326422852 0.069942274 0.319318857
rs10404987:50500916:A:G ENSG00000105053
rs10405594:50500970:G:A:ENSG00000105053 0.035322296 0.563654004
0.618696386 0.290136921 0.112902598 0.282646046
rs10405594:50500970:G:A ENSG00000105053
rs10407013:50501054:T:A:ENSG00000105053 0.035322296 0.563654004
0.618696386 0.290136921 0.112902598 0.282646046
rs10407013:50501054:T:A ENSG00000105053
rs10407036:50501097:T:C:ENSG00000105053 0.035322296 0.588835269
0.552896362 0.450346002 0.371793022 0.063994875
rs10407036:50501097:T:C ENSG00000105053
rs10405696:50501185:C:T:ENSG00000105053 0.035322296 0.583196386
0.644499314 0.326422852 0.069942274 0.319318857
rs10405696:50501185:C:T ENSG00000105053
rs59151138:50501240:C:T:ENSG00000105053 0.035322296 0.582202806
0.642599458 0.333474506 0.112902598 0.319318857
rs59151138:50501240:C:T ENSG00000105053
rs56969688:50501282:G:A:ENSG00000105053 0.035322296 0.56175896
0.618696386 0.290136921 0.112902598 0.282646046
rs56969688:50501282:G:A ENSG00000105053
rs72202397:50501428:TTAA:T:ENSG00000105053 0.035322296 0.650780207
0.743226112 0.498363812 0.429827068 0.556049114
rs72202397:50501428:TTAA:T ENSG00000105053
rs78635820:50501545:A:G:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.52739468
rs78635820:50501545:A:G ENSG00000105053
rs146029016:50501590:G:A:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs146029016:50501590:G:A ENSG00000105053
rs139597461:50501615:G:A:ENSG00000105053 0.035322296 0.651399716
0.757967988 0.513724482 0.477032507 0.571826948
rs139597461:50501615:G:A ENSG00000105053
rs149747798:50501683:G:T:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs149747798:50501683:G:T ENSG00000105053

rs199500647:50502044:CACACAT:C:ENSG00000105053 0.035322296
0.649989953 0.741940112 0.491850645 0.445056985 0.525367746
rs199500647:50502044:CACACAT:C ENSG00000105053
rs80198463:50502177:G:A:ENSG00000105053 0.035322296 0.651399716
0.759245271 0.513724482 0.472198515 0.566496688
rs80198463:50502177:G:A ENSG00000105053
rs28495077:50502314:T:A:ENSG00000105053 0.035322296 0.651399716
0.759245271 0.513724482 0.472198515 0.566496688
rs28495077:50502314:T:A ENSG00000105053
rs28417980:50502610:C:T:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs28417980:50502610:C:T ENSG00000105053
rs28585040:50502722:C:T:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs28585040:50502722:C:T ENSG00000105053
rs11881396:50502896:C:A:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs11881396:50502896:C:A ENSG00000105053
rs11881395:50502932:A:G:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs11881395:50502932:A:G ENSG00000105053
rs11881422:50502994:C:T:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs11881422:50502994:C:T ENSG00000105053
rs11881402:50502995:A:G:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs11881402:50502995:A:G ENSG00000105053
rs11878912:50503181:T:C:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs11878912:50503181:T:C ENSG00000105053
rs10408432:50503589:C:G:ENSG00000105053 0.035322296 0.649779607
0.743226112 0.491850645 0.445056985 0.525367746
rs10408432:50503589:C:G ENSG00000105053
rs142667207:50503645:TTC:T:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs142667207:50503645:TTC:T ENSG00000105053
JHU_19.50503893:ENSG00000105053 0.035322296 0.649989953 0.741940112
0.491850645 0.445056985 0.525367746 JHU_19.50503893 ENSG00000105053
rs11882190:50503904:G:A:ENSG00000105053 0.035322296 0.649989953
0.741940112 0.491850645 0.445056985 0.525367746
rs11882190:50503904:G:A ENSG00000105053
JHU_19.50503907:ENSG00000105053 0.035322296 0.649989953 0.743226112
0.491850645 0.445056985 0.525367746 JHU_19.50503907 ENSG00000105053
rs11882175:50503972:C:G:ENSG00000105053 0.035322296 0.649989953
0.743226112 0.491850645 0.445056985 0.525367746
rs11882175:50503972:C:G ENSG00000105053
19:50504056-TC:ENSG00000105053 0.035322296 0.649989953 0.743226112
0.491850645 0.445056985 0.525367746 19:50504056-TC ENSG00000105053
exm1493362:ENSG00000105053 0.035322296 0.6447756 0.734607875
0.491850645 0.450253392 0.549252346 exm1493362 ENSG00000105053
rs73935126:50504343:C:T:ENSG00000105053 0.035322296 0.624712816
0.702915418 0.459055393 0.300892226 0.467974804
rs73935126:50504343:C:T ENSG00000105053

rs73935127:50504368:C:T:ENSG00000105053 0.035322296 0.62210204
0.694666609 0.458827356 0.340307796 0.477177495
rs73935127:50504368:C:T ENSG00000105053
rs73935128:50504543:A:G:ENSG00000105053 0.035322296 0.535783092
0.605977561 0.276782326 0.148497947 0.225997306
rs73935128:50504543:A:G ENSG00000105053
rs28479082:50504584:T:C:ENSG00000105053 0.035322296 0.607630844
0.674762224 0.395341642 0.279727316 0.390568128
rs28479082:50504584:T:C ENSG00000105053
rs28492981:50504620:G:A:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.395341642 0.279727316 0.390568128
rs28492981:50504620:G:A ENSG00000105053
rs75265852:50504808:T:C:ENSG00000105053 0.035322296 0.607630844
0.674868706 0.390584104 0.173591669 0.390568128
rs75265852:50504808:T:C ENSG00000105053
rs73935129:50504968:G:C:ENSG00000105053 0.035322296 0.634930259
0.720006217 0.459055393 0.420268827 0.471730191
rs73935129:50504968:G:C ENSG00000105053
rs73935130:50505096:G:A:ENSG00000105053 0.035322296 0.604833185
0.671106111 0.463396258 0.311775972 0.476127813
rs73935130:50505096:G:A ENSG00000105053
rs10423007:50505316:G:A:ENSG00000105053 0.035322296 0.632005909
0.716164833 0.472415297 0.363699827 0.501122218
rs10423007:50505316:G:A ENSG00000105053
rs10423245:50505423:G:C:ENSG00000105053 0.035322296 0.631133206
0.710954776 0.466610843 0.410008196 0.497503372
rs10423245:50505423:G:C ENSG00000105053
rs141724231:50505549:A:AGG:ENSG00000105053 0.035322296 0.537967079
0.609676623 0.123210094 0.069942274 0.108665807
rs141724231:50505549:A:AGG ENSG00000105053
rs10423126:50505571:C:T:ENSG00000105053 0.035322296 0.537967079
0.611290285 0.123210094 0.069942274 0.108665807
rs10423126:50505571:C:T ENSG00000105053
rs28695592:50505797:G:A:ENSG00000105053 0.035322296 0.537967079
0.611290285 0.123210094 0.069942274 0.108665807
rs28695592:50505797:G:A ENSG00000105053
rs10403001:50505996:C:T:ENSG00000105053 0.035322296 0.555252837
0.618696386 0.276782326 0.069942274 0.269135872
rs10403001:50505996:C:T ENSG00000105053
rs10403418:50506135:C:T:ENSG00000105053 0.035322296 0.597037291 0.65652076
0.350892299 0.237095457 0.319318857 rs10403418:50506135:C:T
ENSG00000105053
rs10403900:50506321:C:G:ENSG00000105053 0.035322296 0.618523
0.685268659 0.445043357 0.328523647 0.469127215
rs10403900:50506321:C:G ENSG00000105053
rs73935135:50506872:C:T:ENSG00000105053 0.035322296 0.607630844
0.675900586 0.447551187 0.311775972 0.467974804
rs73935135:50506872:C:T ENSG00000105053
rs73935136:50507113:T:C:ENSG00000105053 0.035322296 0.605632687
0.674171317 0.445043357 0.288162171 0.467974804
rs73935136:50507113:T:C ENSG00000105053
rs10411332:50507196:G:A:ENSG00000105053 0.035322296 0.509235376
0.580001614 0.123210094 0.069942274 0.108665807
rs10411332:50507196:G:A ENSG00000105053

rs10411542:50507281:G:A:ENSG00000105053 0.035322296 0.552128457
0.618696386 0.165229468 0.069942274 0.140342165
rs10411542:50507281:G:A ENSG00000105053
rs10411204:50507336:A:G:ENSG00000105053 0.035322296 0.555252837
0.618696386 0.165229468 0.069942274 0.140342165
rs10411204:50507336:A:G ENSG00000105053
rs10412963:50507361:T:G:ENSG00000105053 0.035322296 0.563654004
0.618696386 0.333474506 0.069942274 0.282646046
rs10412963:50507361:T:G ENSG00000105053
rs10411985:50507495:G:C:ENSG00000105053 0.035322296 0.56559224
0.618696386 0.340834261 0.148497947 0.269135872
rs10411985:50507495:G:C ENSG00000105053
rs56154904:50507504:T:G:ENSG00000105053 0.035322296 0.606705251
0.674868706 0.419678998 0.251839208 0.441545027
rs56154904:50507504:T:G ENSG00000105053
rs56229440:50507535:C:T:ENSG00000105053 0.035322296 0.563654004
0.618696386 0.333474506 0.148497947 0.319318857
rs56229440:50507535:C:T ENSG00000105053
rs28594879:50507584:T:C:ENSG00000105053 0.035322296 0.607630844
0.674868706 0.419678998 0.251839208 0.441545027
rs28594879:50507584:T:C ENSG00000105053
rs28416420:50507678:T:C:ENSG00000105053 0.035322296 0.607630844
0.674762224 0.424824518 0.251839208 0.441545027
rs28416420:50507678:T:C ENSG00000105053
rs28637413:50507774:G:C:ENSG00000105053 0.035322296 0.635828582
0.683867068 0.459055393 0.279727316 0.460921055
rs28637413:50507774:G:C ENSG00000105053
rs28447400:50507827:C:T:ENSG00000105053 0.035322296 0.604833185
0.668344684 0.399004389 0.218559406 0.401203391
rs28447400:50507827:C:T ENSG00000105053
rs77184646:50508154:G:A:ENSG00000105053 0.035322296 0.607630844
0.674762224 0.450346002 0.237095457 0.453831125
rs77184646:50508154:G:A ENSG00000105053
rs114504678:50509638:A:C:ENSG00000105053 0.035322296 0.607630844
0.674762224 0.450346002 0.237095457 0.453831125
rs114504678:50509638:A:C ENSG00000105053
rs201998359:50509639:AT:A:ENSG00000105053 0.035322296 0.635547176
0.71850039 0.441817908 0.311775972 0.460921055
rs201998359:50509639:AT:A ENSG00000105053
rs148935239:50509790:A:G:ENSG00000105053 0.035322296 0.603890882
0.666514548 0.36680942 0.237095457 0.347302535
rs148935239:50509790:A:G ENSG00000105053
rs58558256:50509914:G:A:ENSG00000105053 0.035322296 0.607882402
0.678642404 0.408307051 0.328523647 0.423659401
rs58558256:50509914:G:A ENSG00000105053
rs7249301:50510604:C:T:ENSG00000105053 0.035322296 0.607882402
0.677261746 0.408307051 0.328523647 0.423659401
rs7249301:50510604:C:T ENSG00000105053
rs11547883:ENSG00000105053 0.035322296 0.60953669 0.678642404
0.408307051 0.328523647 0.423659401 rs11547883 ENSG00000105053
exml493371:ENSG00000105053 0.035322296 0.60953669 0.678642404
0.408307051 0.328523647 0.423659401 exml493371 ENSG00000105053

rs35914377:50511183:G:A:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.438119062 0.347424829 0.441545027
rs35914377:50511183:G:A ENSG00000105053
rs73935141:50512274:G:A:ENSG00000105053 0.035322296 0.621195464
0.778199855 0.399004389 0.484480155 0.51457021
rs73935141:50512274:G:A ENSG00000105053
rs16981659:50512316:G:A:ENSG00000105053 0.035322296 0.651399716
0.827435543 0.469436994 0.603364769 0.615926697
rs16981659:50512316:G:A ENSG00000105053
exml493378:ENSG00000105053 0.035322296 0.643711938 0.80525444
0.463396258 0.565674613 0.603453089 exml493378 ENSG00000105053
rs59977614:50513140:G:C:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.438119062 0.347424829 0.441545027
rs59977614:50513140:G:C ENSG00000105053
rs60638840:50513280:C:T:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.438119062 0.347424829 0.441545027
rs60638840:50513280:C:T ENSG00000105053
rs12151038:50513318:C:T:ENSG00000204666 0.035322296 0.281740211
0.090437058 0.350892299 0.525520858 0.295623551
rs12151038:50513318:C:T ENSG00000204666
rs10416613:50513377:C:T:ENSG00000105053 0.035322296 0.572794149 0.63054575
0.333474506 0.218559406 0.295623551 rs10416613:50513377:C:T
ENSG00000105053
rs10416851:50513565:A:G:ENSG00000105053 0.035322296 0.578883077
0.640107889 0.358702521 0.198669295 0.347302535
rs10416851:50513565:A:G ENSG00000105053
rs10417047:50513586:C:T:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs10417047:50513586:C:T ENSG00000105053
rs10417044:50513620:A:G:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.438119062 0.347424829 0.441545027
rs10417044:50513620:A:G ENSG00000105053
19:50513635-T-C:ENSG00000105053 0.035322296 0.572794149 0.628778955
0.333474506 0.218559406 0.295623551 19:50513635-T-C ENSG00000105053
rs10422826:50513882:C:A:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs10422826:50513882:C:A ENSG00000105053
rs60214147:50514261:C:CT:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs60214147:50514261:C:CT ENSG00000105053
rs58889703:50514289:G:A:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs58889703:50514289:G:A ENSG00000105053
rs60774863:50514336:G:A:ENSG00000105053 0.035322296 0.578883077
0.638829519 0.340834261 0.218559406 0.295623551
rs60774863:50514336:G:A ENSG00000105053
rs73935143:50515206:G:A:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs73935143:50515206:G:A ENSG00000105053
rs78109736:50515311:C:T:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs78109736:50515311:C:T ENSG00000105053

rs10405404:50515456:C:T:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs10405404:50515456:C:T ENSG00000105053
JHU_19.50515576:ENSG00000105053 0.035322296 0.628930054 0.708429962
0.429269101 0.347424829 0.441545027 JHU_19.50515576 ENSG00000105053
rs10405664:50515579:C:T:ENSG00000105053 0.035322296 0.572794149 0.63054575
0.333474506 0.218559406 0.295623551 rs10405664:50515579:C:T
ENSG00000105053
JHU_19.50515592:ENSG00000105053 0.035322296 0.629866286 0.709425259
0.441817908 0.347424829 0.441545027 JHU_19.50515592 ENSG00000105053
rs10407701:50515804:T:G:ENSG00000105053 0.035322296 0.572794149 0.63054575
0.333474506 0.218559406 0.295623551 rs10407701:50515804:T:G
ENSG00000105053
rs10411894:50515880:G:A:ENSG00000105053 0.035322296 0.572794149 0.63054575
0.333474506 0.218559406 0.295623551 rs10411894:50515880:G:A
ENSG00000105053
rs28528240:50516146:C:T:ENSG00000105053 0.035322296 0.570701598
0.626634581 0.333474506 0.218559406 0.319318857
rs28528240:50516146:C:T ENSG00000105053
rs28580557:50516410:C:T:ENSG00000105053 0.035322296 0.600790062
0.655792554 0.406267798 0.300892226 0.431187426
rs28580557:50516410:C:T ENSG00000105053
rs28648807:50516528:A:G:ENSG00000105053 0.035322296 0.600158632 0.65900997
0.406267798 0.300892226 0.431187426 rs28648807:50516528:A:G
ENSG00000105053
rs59088209:50516871:C:G:ENSG00000105053 0.035322296 0.632692665
0.716164833 0.445043357 0.363699827 0.467974804
rs59088209:50516871:C:G ENSG00000105053
rs59731041:50517172:C:T:ENSG00000105053 0.035322296 0.651399716
0.765578222 0.558498626 0.559581427 0.615926697
rs59731041:50517172:C:T ENSG00000105053
rs57368713:50517191:T:C:ENSG00000105053 0.035322296 0.600158632 0.65900997
0.406267798 0.300892226 0.431187426 rs57368713:50517191:T:C
ENSG00000105053
rs76089359:50517212:A:G:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.288162171 0.438723573
rs76089359:50517212:A:G ENSG00000105053
rs74924314:50517249:C:A:ENSG00000105053 0.035322296 0.600158632 0.65900997
0.406267798 0.300892226 0.431187426 rs74924314:50517249:C:A
ENSG00000105053
rs146258686:50517521:TA:T:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.288162171 0.438723573
rs146258686:50517521:TA:T ENSG00000105053
rs10422211:50517672:T:C:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs10422211:50517672:T:C ENSG00000105053
rs10420790:50517715:C:T:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.288162171 0.438723573
rs10420790:50517715:C:T ENSG00000105053
rs10421202:50517785:G:A:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs10421202:50517785:G:A ENSG00000105053

rs10425966:50517815:A:C:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs10425966:50517815:A:C ENSG00000105053
rs10426566:50517899:G:T:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.441817908 0.347424829 0.441545027
rs10426566:50517899:G:T ENSG00000105053
19:50518571:A:AT:ENSG00000105053 0.035322296 0.646854489 0.799305445
0.558498626 0.636822477 0.522761587 19:50518571:A:AT ENSG00000105053
rs142980242:50518622:A:G:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.288162171 0.438723573
rs142980242:50518622:A:G ENSG00000105053
rs150658795:50518626:T:C:ENSG00000105053 0.035322296 0.629866286
0.709425259 0.438119062 0.347424829 0.441545027
rs150658795:50518626:T:C ENSG00000105053
rs58551501:50518949:T:C:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.300892226 0.441545027
rs58551501:50518949:T:C ENSG00000105053
rs57515835:50519216:G:A:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.300892226 0.441545027
rs57515835:50519216:G:A ENSG00000105053
rs57723601:50519240:T:C:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.300892226 0.441545027
rs57723601:50519240:T:C ENSG00000105053
rs61311983:50520231:GAGGTT:G:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.300892226 0.441545027
rs61311983:50520231:GAGGTT:G ENSG00000105053
rs115732142:50520432:G:C:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.300892226 0.441545027
rs115732142:50520432:G:C ENSG00000105053
rs59720830:50520447:T:C:ENSG00000105053 0.035322296 0.628930054
0.709425259 0.438119062 0.347424829 0.441545027
rs59720830:50520447:T:C ENSG00000105053
rs10418484:50520771:T:C:ENSG00000105053 0.035322296 0.610547431
0.679533134 0.408307051 0.311775972 0.441545027
rs10418484:50520771:T:C ENSG00000105053
rs10417302:50520772:G:A:ENSG00000105053 0.035322296 0.610547431
0.679533134 0.408307051 0.311775972 0.441545027
rs10417302:50520772:G:A ENSG00000105053
rs10416786:50520788:A:G:ENSG00000105053 0.035322296 0.632692665
0.713452083 0.438119062 0.347424829 0.441545027
rs10416786:50520788:A:G ENSG00000105053
rs10423821:50520826:T:C:ENSG00000105053 0.035322296 0.62210204
0.695869412 0.450346002 0.328523647 0.451526982
rs10423821:50520826:T:C ENSG00000105053
rs10423869:50520883:T:C:ENSG00000105053 0.035322296 0.628930054
0.709425259 0.438119062 0.347424829 0.441545027
rs10423869:50520883:T:C ENSG00000105053
rs10424288:50521061:T:C:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.300892226 0.441545027
rs10424288:50521061:T:C ENSG00000105053
rs73935146:50521391:T:C:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.300892226 0.441545027
rs73935146:50521391:T:C ENSG00000105053

rs73935147:50521476:C:T:ENSG00000105053 0.035322296 0.607882402
0.674868706 0.408307051 0.300892226 0.441545027
rs73935147:50521476:C:T ENSG00000105053
rs16981691:50521660:A:C:ENSG00000105053 0.035322296 0.571275414
0.626808341 0.333474506 0.218559406 0.319318857
rs16981691:50521660:A:C ENSG00000105053
rs55683678:50521751:T:C:ENSG00000105053 0.035322296 0.628930054
0.710954776 0.438119062 0.347424829 0.441545027
rs55683678:50521751:T:C ENSG00000105053
rs56934989:50521838:T:C:ENSG00000105053 0.035322296 0.628930054
0.709425259 0.438119062 0.347424829 0.441545027
rs56934989:50521838:T:C ENSG00000105053
rs61538099:50521850:G:C:ENSG00000105053 0.035322296 0.626068412
0.708429962 0.438119062 0.347424829 0.441545027
rs61538099:50521850:G:C ENSG00000105053
rs57270300:50522052:C:CA:ENSG00000105053 0.035322296 0.57709595
0.640107889 0.326422852 0.218559406 0.319318857
rs57270300:50522052:C:CA ENSG00000105053
rs60229698:50522194:G:C:ENSG00000105053 0.035322296 0.571275414
0.628654228 0.326422852 0.218559406 0.319318857
rs60229698:50522194:G:C ENSG00000105053
rs188426931:50522321:C:T:ENSG00000105053 0.035322296 0.628930054
0.709425259 0.438119062 0.347424829 0.441545027
rs188426931:50522321:C:T ENSG00000105053
rs192306884:50522379:A:G:ENSG00000105053 0.035322296 0.571275414
0.628302745 0.333474506 0.218559406 0.319318857
rs192306884:50522379:A:G ENSG00000105053
rs148767095:50522391:C:T:ENSG00000105053 0.035322296 0.571275414
0.628302745 0.333474506 0.218559406 0.319318857
rs148767095:50522391:C:T ENSG00000105053
rs182296059:50522464:A:T:ENSG00000105053 0.035322296 0.571275414
0.628302745 0.333474506 0.218559406 0.319318857
rs182296059:50522464:A:T ENSG00000105053
rs147510483:50522482:C:T:ENSG00000105053 0.035322296 0.58514239
0.625050185 0.350892299 0.148497947 0.369977602
rs147510483:50522482:C:T ENSG00000105053
rs140355106:50522546:A:G:ENSG00000105053 0.035322296 0.628930054
0.709425259 0.438119062 0.347424829 0.441545027
rs140355106:50522546:A:G ENSG00000105053
rs75805849:50523024:C:G:ENSG00000105053 0.035322296 0.628930054
0.710954776 0.438119062 0.347424829 0.441545027
rs75805849:50523024:C:G ENSG00000105053
rs145134642:50523156:G:A:ENSG00000105053 0.035322296 0.628930054
0.709425259 0.438119062 0.347424829 0.441545027
rs145134642:50523156:G:A ENSG00000105053
rs28601875:50523365:T:C:ENSG00000105053 0.035322296 0.571275414
0.628302745 0.333474506 0.218559406 0.319318857
rs28601875:50523365:T:C ENSG00000105053
rs28363699:50523367:A:G:ENSG00000105053 0.035322296 0.604833185
0.671106111 0.424824518 0.279727316 0.441545027
rs28363699:50523367:A:G ENSG00000105053
rs28687150:50523544:C:T:ENSG00000105053 0.035322296 0.571275414
0.628302745 0.333474506 0.218559406 0.319318857
rs28687150:50523544:C:T ENSG00000105053

rs28542894:50523623:T:G:ENSG00000105053 0.035322296 0.571275414
0.628302745 0.333474506 0.218559406 0.319318857
rs28542894:50523623:T:G ENSG00000105053
JHU_19.50523625:ENSG00000105053 0.035322296 0.628930054 0.709425259
0.438119062 0.347424829 0.441545027 JHU_19.50523625 ENSG00000105053
JHU_19.50523632:ENSG00000105053 0.035322296 0.651399716 0.747767793
0.519043541 0.467095788 0.569708815 JHU_19.50523632 ENSG00000105053
rs28656909:50523654:A:G:ENSG00000105053 0.035322296 0.568032122
0.621329859 0.350892299 0.148497947 0.295623551
rs28656909:50523654:A:G ENSG00000105053
rs10500302:50523722:T:C:ENSG00000105053 0.035322296 0.568032122
0.621329859 0.350892299 0.148497947 0.295623551
rs10500302:50523722:T:C ENSG00000105053
rs28416898:50524797:C:G:ENSG00000105053 0.035322296 0.645915879
0.736223303 0.496527133 0.455878819 0.563139599
rs28416898:50524797:C:G ENSG00000105053
rs28720999:50525002:T:G:ENSG00000105053 0.035322296 0.645915879
0.736223303 0.496527133 0.455878819 0.563139599
rs28720999:50525002:T:G ENSG00000105053
rs28446996:50525009:G:A:ENSG00000105053 0.035322296 0.645915879
0.738200785 0.496527133 0.455878819 0.56328436
rs28446996:50525009:G:A ENSG00000105053
rs61380983:50525196:G:T:ENSG00000105053 0.035322296 0.628930054
0.709425259 0.438119062 0.347424829 0.441545027
rs61380983:50525196:G:T ENSG00000105053
rs60827350:50525353:C:T:ENSG00000105053 0.035322296 0.645915879
0.736223303 0.496527133 0.455878819 0.563139599
rs60827350:50525353:C:T ENSG00000105053
rs10414564:50525640:C:G:ENSG00000105053 0.035322296 0.651399716
0.752478809 0.517229412 0.490050927 0.569708815
rs10414564:50525640:C:G ENSG00000105053
rs10416182:50525698:T:A:ENSG00000105053 0.035322296 0.566392291
0.618696386 0.333474506 0.148497947 0.308405655
rs10416182:50525698:T:A ENSG00000105053
rs10415168:50525781:G:A:ENSG00000105053 0.035322296 0.628930054
0.709425259 0.438119062 0.347424829 0.441545027
rs10415168:50525781:G:A ENSG00000105053
rs10420596:50525912:G:A:ENSG00000105053 0.035322296 0.56559224
0.618696386 0.314254491 0.148497947 0.295623551
rs10420596:50525912:G:A ENSG00000105053
rs10420278:50525956:C:T:ENSG00000105053 0.035322296 0.566392291
0.618696386 0.333474506 0.148497947 0.319318857
rs10420278:50525956:C:T ENSG00000105053
rs60002760:50526221:C:CA:ENSG00000105053 0.035322296 0.566392291
0.618696386 0.333474506 0.148497947 0.319318857
rs60002760:50526221:C:CA ENSG00000105053
rs115779557:50526251:A:G:ENSG00000105053 0.035322296 0.566392291
0.618696386 0.333474506 0.148497947 0.319318857
rs115779557:50526251:A:G ENSG00000105053
rs114425365:50526252:A:C:ENSG00000105053 0.035322296 0.590785513
0.651320451 0.408307051 0.251839208 0.401203391
rs114425365:50526252:A:C ENSG00000105053

rs60536986:50526278:T:C:ENSG00000105053 0.035322296 0.591220107
0.651509705 0.406267798 0.251839208 0.414364157
rs60536986:50526278:T:C ENSG00000105053
rs56821693:50526344:C:A:ENSG00000105053 0.035322296 0.590785513
0.650184334 0.350892299 0.173591669 0.269135872
rs56821693:50526344:C:A ENSG00000105053
rs59698565:50526345:T:C:ENSG00000105053 0.035322296 0.590785513
0.650184334 0.350892299 0.173591669 0.269135872
rs59698565:50526345:T:C ENSG00000105053
rs200170434:50526994:GGT:G:ENSG00000105053 0.035322296 0.616712847
0.686442642 0.406267798 0.300892226 0.419171564
rs200170434:50526994:GGT:G ENSG00000105053
19:50526998:G:C:ENSG00000105053 0.035322296 0.616712847 0.686442642
0.406267798 0.300892226 0.419171564 19:50526998:G:C ENSG00000105053
rs11880872:50527043:A:G:ENSG00000105053 0.035322296 0.602208356
0.601406435 0.333474506 0.173591669 0.24867752
rs11880872:50527043:A:G ENSG00000105053
rs10402421:50527442:A:G:ENSG00000105053 0.035322296 0.57709595
0.637161235 0.358702521 0.173591669 0.333543658
rs10402421:50527442:A:G ENSG00000105053
rs10409358:50527913:G:A:ENSG00000105053 0.035322296 0.590785513
0.650184334 0.350892299 0.173591669 0.269135872
rs10409358:50527913:G:A ENSG00000105053
rs10410818:50528062:T:G:ENSG00000105053 0.035322296 0.603890882
0.666514548 0.385352708 0.198669295 0.333543658
rs10410818:50528062:T:G ENSG00000105053
rs10411239:50528233:T:C:ENSG00000105053 0.035322296 0.604833185
0.671660261 0.401539023 0.300892226 0.419171564
rs10411239:50528233:T:C ENSG00000105053
rs10410111:50528284:G:A:ENSG00000105053 0.035322296 0.604833185
0.671660261 0.401539023 0.300892226 0.419171564
rs10410111:50528284:G:A ENSG00000105053
rs10410420:50528594:C:T:ENSG00000105053 0.035322296 0.604833185
0.671660261 0.401539023 0.300892226 0.419171564
rs10410420:50528594:C:T ENSG00000105053
19:50528696-T-C:ENSG00000105053 0.035322296 0.604833185 0.671660261
0.401539023 0.300892226 0.419171564 19:50528696-T-C ENSG00000105053
rs73935150:50528787:T:G:ENSG00000105053 0.035322296 0.604833185
0.668344684 0.395341642 0.266901314 0.390568128
rs73935150:50528787:T:G ENSG00000105053
rs144949081:50528949:CCTTA:C:ENSG00000105053 0.035322296 0.604833185
0.671660261 0.401539023 0.300892226 0.419171564
rs144949081:50528949:CCTTA:C ENSG00000105053
rs56660415:50529104:A:ACT:ENSG00000105053 0.035322296 0.604833185
0.671660261 0.401539023 0.300892226 0.419171564
rs56660415:50529104:A:ACT ENSG00000105053
rs58602067:50529356:G:A:ENSG00000105053 0.035322296 0.604833185
0.671660261 0.401539023 0.300892226 0.419171564
rs58602067:50529356:G:A ENSG00000105053
rs8108728:50529557:A:G:ENSG00000105053 0.035322296 0.605632687
0.672834733 0.401539023 0.300892226 0.419171564
rs8108728:50529557:A:G ENSG00000105053

rs11386821:50529603:G:GA:ENSG00000105053 0.035322296 0.603890882
0.664963743 0.399004389 0.300892226 0.401203391
rs11386821:50529603:G:GA ENSG00000105053
rs8109020:50529713:C:G:ENSG00000105053 0.035322296 0.604833185
0.671660261 0.401539023 0.300892226 0.419171564
rs8109020:50529713:C:G ENSG00000105053
rs8109836:50529739:T:C:ENSG00000105053 0.035322296 0.59034627
0.650184334 0.340834261 0.173591669 0.269135872
rs8109836:50529739:T:C ENSG00000105053
rs8112214:50529943:G:C:ENSG00000105053 0.035322296 0.604833185
0.671106111 0.401539023 0.300892226 0.419171564
rs8112214:50529943:G:C ENSG00000105053
19:50530289-T-C:ENSG00000105053 0.035322296 0.604833185 0.671106111
0.401539023 0.300892226 0.419171564 19:50530289-T-C ENSG00000105053
rs10425282:50530705:C:T:ENSG00000105053 0.035322296 0.604833185
0.671106111 0.401539023 0.300892226 0.419171564
rs10425282:50530705:C:T ENSG00000105053
rs143780611:50530964:GT:G:ENSG00000105053 0.035322296 0.604833185
0.671106111 0.401539023 0.300892226 0.419171564
rs143780611:50530964:GT:G ENSG00000105053
rs10406823:50531105:T:C:ENSG00000105053 0.035322296 0.563654004
0.618696386 0.290136921 0.173591669 0.24867752
rs10406823:50531105:T:C ENSG00000105053
rs10405466:50531188:C:T:ENSG00000105053 0.035322296 0.628196016
0.707238467 0.455203609 0.363699827 0.487204938
rs10405466:50531188:C:T ENSG00000105053
rs28677916:50531281:T:C:ENSG00000105053 0.035322296 0.654488658
0.760866298 0.491850645 0.490050927 0.563139599
rs28677916:50531281:T:C ENSG00000105053
rs28372420:50531540:A:G:ENSG00000105053 0.035322296 0.624868528
0.704400012 0.481611326 0.445056985 0.497503372
rs28372420:50531540:A:G ENSG00000105053
rs60810248:50531772:AT:A:ENSG00000105053 0.035322296 0.624238809
0.683035763 0.459055393 0.445056985 0.494607223
rs60810248:50531772:AT:A ENSG00000105053
rs10439113:50531946:A:G:ENSG00000105053 0.035322296 0.633580657
0.716164833 0.491850645 0.472198515 0.532059322
rs10439113:50531946:A:G ENSG00000105053
rs147669843:50532424:G:A:ENSG00000105053 0.035322296 0.632692665
0.713452083 0.478009532 0.438540244 0.503271951
rs147669843:50532424:G:A ENSG00000105053
rs76856727:50532462:C:A:ENSG00000105053 0.035322296 0.632005909
0.712504133 0.478009532 0.455878819 0.506819053
rs76856727:50532462:C:A ENSG00000105053
rs144667688:50532574:A:G:ENSG00000105053 0.035322296 0.628930054
0.708429962 0.478009532 0.467095788 0.506819053
rs144667688:50532574:A:G ENSG00000105053
rs146171887:50532683:A:G:ENSG00000105053 0.035322296 0.629866286
0.712504133 0.491850645 0.484480155 0.52739468
rs146171887:50532683:A:G ENSG00000105053
rs59552263:50532894:C:T:ENSG00000105053 0.035322296 0.614466288
0.681949548 0.466610843 0.395007577 0.497503372
rs59552263:50532894:C:T ENSG00000105053

rs10422354:50532917:A:G:ENSG00000105053 0.035322296 0.63739825
0.721465596 0.491850645 0.467095788 0.547086582
rs10422354:50532917:A:G ENSG00000105053
rs60448139:50532939:G:A:ENSG00000105053 0.035322296 0.615606804 0.65652076
0.429269101 0.251839208 0.401203391 rs60448139:50532939:G:A
ENSG00000105053
rs10422936:50532972:G:A:ENSG00000105053 0.035322296 0.610547431
0.679533134 0.438119062 0.347424829 0.467974804
rs10422936:50532972:G:A ENSG00000105053
rs8112474:50533194:T:C:ENSG00000105053 0.035322296 0.60953669
0.678642404 0.435112224 0.340307796 0.460921055
rs8112474:50533194:T:C ENSG00000105053
rs8112178:50533425:G:T:ENSG00000105053 0.035322296 0.607882402
0.677261746 0.435112224 0.340307796 0.457928806
rs8112178:50533425:G:T ENSG00000105053
rs11083998:50533767:C:A:ENSG00000105053 0.035322296 0.607882402
0.675900586 0.435112224 0.340307796 0.457928806
rs11083998:50533767:C:A ENSG00000105053
rs11083999:50534229:T:C:ENSG00000105053 0.035322296 0.607882402
0.677261746 0.419678998 0.288162171 0.441545027
rs11083999:50534229:T:C ENSG00000105053
rs58435652:50534556:C:T:ENSG00000105053 0.035322296 0.599639892
0.657729896 0.432896498 0.279727316 0.453831125
rs58435652:50534556:C:T ENSG00000105053
rs10405642:50534768:C:T:ENSG00000105053 0.035322296 0.604833185
0.671660261 0.432896498 0.328523647 0.457928806
rs10405642:50534768:C:T ENSG00000105053
rs10413334:50535205:T:C:ENSG00000105053 0.035322296 0.604833185
0.671106111 0.432896498 0.328523647 0.457928806
rs10413334:50535205:T:C ENSG00000105053
rs150208931:50535986:C:CT:ENSG00000105053 0.035322296 0.621180076
0.689151367 0.429269101 0.311775972 0.447199093
rs150208931:50535986:C:CT ENSG00000105053
rs57711730:50536756:C:T:ENSG00000105053 0.035322296 0.623013991
0.772899639 0.544839734 0.603710229 0.525367746
rs57711730:50536756:C:T ENSG00000105053
rs73935155:50536862:T:G:ENSG00000105053 0.035322296 0.618523
0.689151367 0.491850645 0.420268827 0.510329036
rs73935155:50536862:T:G ENSG00000105053
rs73935156:50536884:T:A:ENSG00000105053 0.035322296 0.592406993 0.65418952
0.326422852 0.173591669 0.308405655 rs73935156:50536884:T:A
ENSG00000105053
rs11880683:50536929:C:T:ENSG00000105053 0.035322296 0.583196386
0.645109255 0.36680942 0.198669295 0.358316132
rs11880683:50536929:C:T ENSG00000105053
rs11878219:50537085:T:C:ENSG00000105053 0.035322296 0.629866286
0.714717525 0.491850645 0.429827068 0.522761587
rs11878219:50537085:T:C ENSG00000105053
rs10408078:50538126:G:C:ENSG00000105053 0.035322296 0.597037291
0.657729896 0.419678998 0.251839208 0.419171564
rs10408078:50538126:G:C ENSG00000105053
rs10407938:50538247:C:T:ENSG00000105053 0.035322296 0.575799627
0.637161235 0.37163762 0.218559406 0.358316132
rs10407938:50538247:C:T ENSG00000105053

rs10408370:50538287:G:T:ENSG00000105053 0.035322296 0.64771467
0.739251903 0.491850645 0.381322091 0.510329036
rs10408370:50538287:G:T ENSG00000105053
rs78682540:50539314:A:C:ENSG00000105053 0.035322296 0.646854489
0.739251903 0.491850645 0.381322091 0.510329036
rs78682540:50539314:A:C ENSG00000105053
rs145711982:50539475:T:C:ENSG00000105053 0.035322296 0.646854489
0.739251903 0.491850645 0.381322091 0.510329036
rs145711982:50539475:T:C ENSG00000105053
rs60740879:50539639:T:C:ENSG00000105053 0.035322296 0.643711938
0.732120658 0.491850645 0.395007577 0.511827661
rs60740879:50539639:T:C ENSG00000105053
rs58492510:50539656:T:C:ENSG00000105053 0.035322296 0.636565017
0.721465596 0.466610843 0.363699827 0.471730191
rs58492510:50539656:T:C ENSG00000105053
rs57997248:50539782:T:C:ENSG00000105053 0.035322296 0.632005909
0.713452083 0.463396258 0.328523647 0.476127813
rs57997248:50539782:T:C ENSG00000105053
rs59716573:50539791:C:T:ENSG00000105053 0.035322296 0.632692665
0.713452083 0.463396258 0.328523647 0.476127813
rs59716573:50539791:C:T ENSG00000105053
rs61217015:50539834:G:A:ENSG00000105053 0.035322296 0.616712847
0.683867068 0.438119062 0.340307796 0.457928806
rs61217015:50539834:G:A ENSG00000105053
rs157549:50540071:C:T:ENSG00000105053 0.035322296 0.651399716 0.80410788
0.558498626 0.672672971 0.547086582 rs157549:50540071:C:T
ENSG00000105053
rs10403049:50540975:A:G:ENSG00000105053 0.035322296 0.62003748
0.693319897 0.478009532 0.381322091 0.494607223
rs10403049:50540975:A:G ENSG00000105053
rs140481100:50541085:C:CTCTG:ENSG00000105053 0.035322296 0.621180076
0.693319897 0.478009532 0.381322091 0.494607223
rs140481100:50541085:C:CTCTG ENSG00000105053
rs75463469:50541477:A:G:ENSG00000105053 0.035322296 0.621180076
0.691910845 0.478009532 0.381322091 0.494607223
rs75463469:50541477:A:G ENSG00000105053
rs28575737:50541609:G:C:ENSG00000105053 0.035322296 0.621180076
0.691910845 0.478009532 0.381322091 0.494607223
rs28575737:50541609:G:C ENSG00000105053
rs10427079:50542716:T:C:ENSG00000105053 0.035322296 0.621180076
0.693319897 0.478009532 0.381322091 0.494607223
rs10427079:50542716:T:C ENSG00000105053
rs57195202:50542737:AGC:A:ENSG00000105053 0.035322296 0.621180076
0.693319897 0.478009532 0.381322091 0.494607223
rs57195202:50542737:AGC:A ENSG00000105053
rs10405885:50543125:G:A:ENSG00000105053 0.035322296 0.621180076
0.693319897 0.476011459 0.381322091 0.494607223
rs10405885:50543125:G:A ENSG00000105053
rs10405907:50543148:G:A:ENSG00000105053 0.035322296 0.621180076
0.693319897 0.476011459 0.381322091 0.494607223
rs10405907:50543148:G:A ENSG00000105053
rs10412562:50544043:A:G:ENSG00000105053 0.035322296 0.621180076
0.693319897 0.476011459 0.381322091 0.494607223
rs10412562:50544043:A:G ENSG00000105053

rs10419985:50544844:G:A:ENSG00000105053 0.035322296 0.621195464
0.691910845 0.476011459 0.381322091 0.494607223
rs10419985:50544844:G:A ENSG00000105053
exm1493401:ENSG00000105053 0.035322296 0.621195464 0.693319897
0.476011459 0.381322091 0.491393172 exm1493401 ENSG00000105053
exm1493402:ENSG00000105053 0.035322296 0.621195464 0.693319897
0.476011459 0.381322091 0.491393172 exm1493402 ENSG00000105053
rs10420700:50545344:C:T:ENSG00000105053 0.035322296 0.621195464
0.637161235 0.491850645 0.467095788 0.468334324
rs10420700:50545344:C:T ENSG00000105053
rs11882838:50545677:A:G:ENSG00000105053 0.035322296 0.621180076
0.690411919 0.476011459 0.371793022 0.494607223
rs11882838:50545677:A:G ENSG00000105053
rs11882888:50545740:C:T:ENSG00000105053 0.035322296 0.621180076
0.690411919 0.476011459 0.381322091 0.491393172
rs11882888:50545740:C:T ENSG00000105053
rs73932403:50545879:C:T:ENSG00000105053 0.035322296 0.621180076
0.691910845 0.476011459 0.381322091 0.494607223
rs73932403:50545879:C:T ENSG00000105053
rs11883417:50545969:A:G:ENSG00000105053 0.035322296 0.621195464
0.691910845 0.472415297 0.381322091 0.494607223
rs11883417:50545969:A:G ENSG00000105053
rs11881008:50546041:T:C:ENSG00000105053 0.035322296 0.621195464
0.691910845 0.469436994 0.381322091 0.494607223
rs11881008:50546041:T:C ENSG00000105053
rs73932405:50546277:G:T:ENSG00000105053 0.035322296 0.623013991 0.69711943
0.454179145 0.388754065 0.476127813 rs73932405:50546277:G:T
ENSG00000105053
rs151148846:50546514:A:G:ENSG00000105053 0.035322296 0.61756659
0.683867068 0.435112224 0.266901314 0.447199093
rs151148846:50546514:A:G ENSG00000105053
rs141086406:50546633:G:A:ENSG00000105053 0.035322296 0.555252837
0.618696386 0.226823504 0.069942274 0.140342165
rs141086406:50546633:G:A ENSG00000105053
rs116266419:50546648:T:C:ENSG00000105053 0.035322296 0.548404403
0.618696386 0.197042097 0.069942274 0.174366738
rs116266419:50546648:T:C ENSG00000105053
rs73932406:50546835:G:A:ENSG00000105053 0.035322296 0.619608693
0.689151367 0.432896498 0.266901314 0.451526982
rs73932406:50546835:G:A ENSG00000105053
rs149530081:50547107:T:TACTG:ENSG00000105053 0.035322296 0.62003748
0.690411919 0.435112224 0.288162171 0.441545027
rs149530081:50547107:T:TACTG ENSG00000105053
rs10410738:50547773:G:A:ENSG00000105053 0.035322296 0.614466288
0.683867068 0.438119062 0.266901314 0.441545027
rs10410738:50547773:G:A ENSG00000105053
exm1493403:ENSG00000105053 0.035322296 0.614466288 0.683867068
0.438119062 0.266901314 0.441545027 exm1493403 ENSG00000105053
exm1493413:ENSG00000105053 0.035322296 0.603890882 0.667476732
0.395341642 0.198669295 0.347302535 exm1493413 ENSG00000105053
exm1493423:ENSG00000105053 0.035322296 0.62210204 0.694666609
0.447551187 0.363699827 0.471730191 exm1493423 ENSG00000105053
exm1493426:ENSG00000105053 0.035322296 0.62210204 0.694666609
0.447551187 0.363699827 0.471730191 exm1493426 ENSG00000105053

exml493434:ENSG00000105053 0.035322296 0.604833185 0.672834733
0.458827356 0.347424829 0.467974804 exml493434 ENSG00000105053
rs10419043:50548687:T:C:ENSG00000105053 0.035322296 0.604833185
0.671660261 0.401539023 0.328523647 0.419171564
rs10419043:50548687:T:C ENSG00000105053
rs60764032:50548918:C:T:ENSG00000105053 0.035322296 0.62210204
0.694666609 0.447551187 0.363699827 0.471730191
rs60764032:50548918:C:T ENSG00000105053
rs10424220:50549461:A:G:ENSG00000105053 0.035322296 0.555150776
0.618696386 0.197042097 0.069942274 0.140342165
rs10424220:50549461:A:G ENSG00000105053
exml493487:ENSG00000105053 0.035322296 0.626739008 0.704400012
0.459055393 0.363699827 0.4815871 exml493487 ENSG00000105053
exml493489:ENSG00000105053 0.035322296 0.604833185 0.674762224
0.429269101 0.288162171 0.438723573 exml493489 ENSG00000105053
rs11881187:50550127:A:G:ENSG00000105053 0.035322296 0.574428997
0.634291162 0.414104514 0.251839208 0.438723573
rs11881187:50550127:A:G ENSG00000105053
rs9304701:50550811:C:T:ENSG00000105053 0.035322296 0.603890882
0.666514548 0.432896498 0.288162171 0.451526982
rs9304701:50550811:C:T ENSG00000105053
rs16981716:50551051:T:C:ENSG00000105053 0.035322296 0.62210204 0.69711943
0.491850645 0.381322091 0.497503372 rs16981716:50551051:T:C
ENSG00000105053
rs10412271:50551201:A:G:ENSG00000105053 0.035322296 0.604833185
0.668344684 0.458827356 0.371793022 0.477177495
rs10412271:50551201:A:G ENSG00000105053
rs10413068:50551302:G:C:ENSG00000105053 0.035322296 0.621583901
0.695869412 0.469436994 0.340307796 0.4815871
rs10413068:50551302:G:C ENSG00000105053
rs144085038:50551353:C:CAGAA:ENSG00000105053 0.035322296 0.604833185
0.668344684 0.455203609 0.363699827 0.471730191
rs144085038:50551353:C:CAGAA ENSG00000105053
rs10415125:50551665:T:C:ENSG00000105053 0.035322296 0.600158632
0.657729896 0.432896498 0.311775972 0.453831125
rs10415125:50551665:T:C ENSG00000105053
rs15189:ENSG00000105053 0.035322296 0.58514239 0.645109255
0.408307051 0.328523647 0.441545027 rs15189 ENSG00000105053
rs10406698:50551932:G:A:ENSG00000105053 0.035322296 0.560196984
0.618696386 0.314254491 0.112902598 0.225997306
rs10406698:50551932:G:A ENSG00000105053
rs11878761:50552473:C:G:ENSG00000105053 0.035322296 0.623013991
0.698688636 0.484670506 0.420268827 0.501122218
rs11878761:50552473:C:G ENSG00000105053
rs141207500:50552725:T:TTAAA:ENSG00000105053 0.035322296 0.62210204
0.695869412 0.484670506 0.395007577 0.501122218
rs141207500:50552725:T:TTAAA ENSG00000105053
rs9973262:50552894:A:T:ENSG00000105053 0.035322296 0.624238809 0.70008691
0.491850645 0.445056985 0.51457021 rs9973262:50552894:A:T
ENSG00000105053
rs371666786:50553367:GCTT:G:ENSG00000105053 0.035322296 0.624052474
0.70008691 0.491850645 0.455878819 0.52739468
rs371666786:50553367:GCTT:G ENSG00000105053

rs10415276:50553460:G:A:ENSG00000105053 0.035322296 0.624238809 0.70008691
0.491850645 0.445056985 0.51457021 rs10415276:50553460:G:A
ENSG00000105053

rs10416688:50553572:T:C:ENSG00000105053 0.035322296 0.621583901
0.693319897 0.455203609 0.340307796 0.476127813
rs10416688:50553572:T:C ENSG00000105053

rs10415604:50553809:C:T:ENSG00000105053 0.035322296 0.624238809 0.70008691
0.491850645 0.455878819 0.52739468 rs10415604:50553809:C:T
ENSG00000105053

rs58461157:50553877:TC:T:ENSG00000105053 0.035322296 0.624238809
0.70008691 0.491850645 0.445056985 0.51457021
rs58461157:50553877:TC:T ENSG00000105053

rs10421463:50553975:G:C:ENSG00000105053 0.035322296 0.624052474
0.698688636 0.491850645 0.455878819 0.52739468
rs10421463:50553975:G:C ENSG00000105053

rs11880182:50554201:C:T:ENSG00000105053 0.035322296 0.624238809 0.70008691
0.491850645 0.445056985 0.51457021 rs11880182:50554201:C:T
ENSG00000105053

rs10422147:50554238:G:A:ENSG00000105053 0.035322296 0.624238809 0.70008691
0.491850645 0.445056985 0.51457021 rs10422147:50554238:G:A
ENSG00000105053

19:50554711:G:<CN0>:50561348:ENSG00000105053 0.035322296 0.621195464
0.691910845 0.458827356 0.328523647 0.468334324
19:50554711:G:<CN0>:50561348 ENSG00000105053

rs55848232:50561424:T:A:ENSG00000105053 0.035322296 0.634930259
0.740804717 0.509242766 0.484480155 0.52739468
rs55848232:50561424:T:A ENSG00000105053

rs57867677:50561440:G:A:ENSG00000105053 0.035322296 0.632005909
0.740552043 0.509242766 0.477032507 0.51457021
rs57867677:50561440:G:A ENSG00000105053

rs58935183:50561659:C:T:ENSG00000105053 0.035322296 0.624238809 0.70008691
0.491850645 0.445056985 0.51457021 rs58935183:50561659:C:T
ENSG00000105053

rs60973487:50561779:A:G:ENSG00000105053 0.035322296 0.621195464
0.691910845 0.458827356 0.328523647 0.468334324
rs60973487:50561779:A:G ENSG00000105053

rs11879695:50562131:T:C:ENSG00000105053 0.035322296 0.621195464
0.691910845 0.438119062 0.288162171 0.468334324
rs11879695:50562131:T:C ENSG00000105053

19:50562175-T-C:ENSG00000105053 0.035322296 0.624238809 0.674171317
0.442167795 0.237095457 0.517746279 19:50562175-T-C ENSG00000105053

rs11882324:50562464:C:A:ENSG00000105053 0.035322296 0.621195464
0.691910845 0.438119062 0.288162171 0.468334324
rs11882324:50562464:C:A ENSG00000105053

rs10424346:50563114:T:A:ENSG00000105053 0.035322296 0.603261923
0.664963743 0.419678998 0.300892226 0.451526982
rs10424346:50563114:T:A ENSG00000105053

rs10422999:50563220:C:A:ENSG00000105053 0.035322296 0.603261923
0.664963743 0.419678998 0.311775972 0.451526982
rs10422999:50563220:C:A ENSG00000105053

rs10424602:50563300:T:C:ENSG00000105053 0.035322296 0.621195464
0.691910845 0.438119062 0.288162171 0.468334324
rs10424602:50563300:T:C ENSG00000105053

rs10424805:50563406:T:C:ENSG00000105053 0.035322296 0.619608693
0.686442642 0.435112224 0.340307796 0.447199093
rs10424805:50563406:T:C ENSG00000105053
rs10423709:50563545:C:T:ENSG00000105053 0.035322296 0.621180076
0.690411919 0.435112224 0.340307796 0.447199093
rs10423709:50563545:C:T ENSG00000105053
rs10423788:50563698:A:G:ENSG00000105053 0.035322296 0.621180076
0.690411919 0.435112224 0.340307796 0.447199093
rs10423788:50563698:A:G ENSG00000105053
rs10424489:50563726:G:A:ENSG00000105053 0.035322296 0.621180076
0.690411919 0.435112224 0.340307796 0.447199093
rs10424489:50563726:G:A ENSG00000105053
rs28707533:50564059:C:T:ENSG00000105053 0.035322296 0.621180076
0.690411919 0.435112224 0.340307796 0.451526982
rs28707533:50564059:C:T ENSG00000105053
rs28468531:50564088:C:T:ENSG00000105053 0.035322296 0.649779607
0.641688238 0.395341642 0.288162171 0.308405655
rs28468531:50564088:C:T ENSG00000105053
rs28504051:50564214:A:G:ENSG00000105053 0.035322296 0.621195464
0.691910845 0.438119062 0.340307796 0.453831125
rs28504051:50564214:A:G ENSG00000105053
rs145067293:50564413:A:AT:ENSG00000105053 0.035322296 0.621195464
0.691910845 0.438119062 0.340307796 0.453831125
rs145067293:50564413:A:AT ENSG00000105053
19:50564704:GTTT:GTT:ENSG00000105053 0.035322296 0.621195464
0.693319897 0.435112224 0.340307796 0.453831125 19:50564704:GTTT:GTT
ENSG00000105053
rs28658547:50564754:T:C:ENSG00000105053 0.035322296 0.621195464
0.695869412 0.435112224 0.347424829 0.457928806
rs28658547:50564754:T:C ENSG00000105053
rs28754527:50564755:G:A:ENSG00000105053 0.035322296 0.621583901 0.69711943
0.438119062 0.347424829 0.457928806 rs28754527:50564755:G:A
ENSG00000105053
rs10413512:50565321:T:C:ENSG00000105053 0.035322296 0.621180076
0.693319897 0.442167795 0.347424829 0.460921055
rs10413512:50565321:T:C ENSG00000105053
rs10413762:50565473:T:G:ENSG00000105053 0.035322296 0.603890882
0.667476732 0.399004389 0.237095457 0.419171564
rs10413762:50565473:T:G ENSG00000105053
rs28494717:50565851:C:T:ENSG00000105053 0.035322296 0.621583901
0.693319897 0.445043357 0.381322091 0.467974804
rs28494717:50565851:C:T ENSG00000105053
rs78838446:50566513:G:A:ENSG00000105053 0.035322296 0.631133206
0.712504133 0.459055393 0.381322091 0.471730191
rs78838446:50566513:G:A ENSG00000105053
rs78611692:50566613:G:C:ENSG00000105053 0.035322296 0.621180076
0.693319897 0.445043357 0.381322091 0.467974804
rs78611692:50566613:G:C ENSG00000105053
rs77491219:50566763:T:C:ENSG00000105053 0.035322296 0.624712816
0.701097355 0.445043357 0.371793022 0.471730191
rs77491219:50566763:T:C ENSG00000105053
rs28775570:50566968:A:G:ENSG00000105053 0.035322296 0.62003748
0.689151367 0.447551187 0.371793022 0.467974804
rs28775570:50566968:A:G ENSG00000105053

rs58165054:50567055: TG:T:ENSG00000105053 0.035322296 0.621180076
0.687554362 0.445043357 0.381322091 0.467974804
rs58165054:50567055: TG:T ENSG00000105053
rs35133927:50567166:A:AAT:ENSG00000105053 0.035322296 0.62003748
0.687554362 0.445043357 0.371793022 0.467974804
rs35133927:50567166:A:AAT ENSG00000105053
rs11880741:50567279:C:T:ENSG00000105053 0.035322296 0.62003748
0.689151367 0.445043357 0.371793022 0.467974804
rs11880741:50567279:C:T ENSG00000105053
rs60342933:50567303:T:TA:ENSG00000105053 0.035322296 0.621180076
0.689151367 0.445043357 0.371793022 0.467974804
rs60342933:50567303:T:TA ENSG00000105053
rs11880791:50567523:A:G:ENSG00000105053 0.035322296 0.596705968
0.655792554 0.395341642 0.251839208 0.423659401
rs11880791:50567523:A:G ENSG00000105053
rs28721300:50567638:C:T:ENSG00000105053 0.035322296 0.59801686
0.655792554 0.399004389 0.288162171 0.390568128
rs28721300:50567638:C:T ENSG00000105053
rs28422915:50567680:A:G:ENSG00000105053 0.035322296 0.595671165
0.655792554 0.399004389 0.288162171 0.390568128
rs28422915:50567680:A:G ENSG00000105053
kgp9800030:ENSG00000105053 0.035322296 0.595671165 0.655792554
0.399004389 0.288162171 0.390568128 kgp9800030 ENSG00000105053
rs28469224:50567788:G:T:ENSG00000105053 0.035322296 0.596705968
0.655792554 0.399004389 0.288162171 0.390568128
rs28469224:50567788:G:T ENSG00000105053
rs73932413:50568001:G:A:ENSG00000105053 0.035322296 0.596705968
0.655792554 0.399004389 0.288162171 0.382106273
rs73932413:50568001:G:A ENSG00000105053
rs10407746:50568287:C:T:ENSG00000105053 0.035322296 0.654488658
0.828759186 0.466610843 0.480692872 0.510329036
rs10407746:50568287:C:T ENSG00000105053
rs10408187:50568447:C:T:ENSG00000105053 0.035322296 0.654488658
0.828327833 0.466610843 0.480692872 0.510329036
rs10408187:50568447:C:T ENSG00000105053
rs10408611:50568494:G:A:ENSG00000105053 0.035322296 0.654488658
0.828327833 0.466610843 0.480692872 0.510329036
rs10408611:50568494:G:A ENSG00000105053
rs10408644:50568628:C:T:ENSG00000105053 0.035322296 0.654488658
0.828759186 0.466610843 0.480692872 0.510329036
rs10408644:50568628:C:T ENSG00000105053
rs28408953:50570765:G:A:ENSG00000105053 0.035322296 0.603261923
0.655792554 0.399004389 0.288162171 0.374953256
rs28408953:50570765:G:A ENSG00000105053
rs28537906:50571310:G:A:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs28537906:50571310:G:A ENSG00000105053
rs374378306:50571403:AAAAC:AAAACAAAC:ENSG00000105053 0.035322296
0.602503447 0.655792554 0.399004389 0.279727316 0.382106273
rs374378306:50571403:AAAAC:AAAACAAAC ENSG00000105053
rs11881204:50572819:G:A:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs11881204:50572819:G:A ENSG00000105053

rs35523621:50574737:TA:TAA:ENSG00000105053 0.035322296 0.603261923
0.657729896 0.399004389 0.288162171 0.374953256
rs35523621:50574737:TA:TAA:ENSG00000105053
rs58295328:50574874:G:GC:ENSG00000105053 0.035322296 0.603261923
0.655792554 0.399004389 0.288162171 0.382106273
rs58295328:50574874:G:GC:ENSG00000105053
rs10421083:50575433:G:A:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs10421083:50575433:G:A:ENSG00000105053
rs58975054:50575721:A:G:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs58975054:50575721:A:G:ENSG00000105053
rs80090024:50575999:G:T:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs80090024:50575999:G:T:ENSG00000105053
rs55808345:50576747:A:G:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs55808345:50576747:A:G:ENSG00000105053
rs56165131:50576959:C:T:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs56165131:50576959:C:T:ENSG00000105053
rs76794257:50577110:G:T:ENSG00000105053 0.035322296 0.603261923
0.655792554 0.399004389 0.288162171 0.374953256
rs76794257:50577110:G:T:ENSG00000105053
rs367918715:50577449:GCAGAAAGAGAGGAAGGGAGAGGCC:G:ENSG00000105053
0.035322296 0.602503447 0.655792554 0.406267798 0.288162171
0.358316132 rs367918715:50577449:GCAGAAAGAGAGGAAGGGAGAGGCC:G
ENSG00000105053
JHU_19.50577782:ENSG00000105053 0.035322296 0.651399716 0.660396949
0.414104514 0.300892226 0.333543658 JHU_19.50577782:ENSG00000105053
rs73932419:50577889:A:G:ENSG00000105053 0.035322296 0.603890882 0.70008691
0.326422852 0.279727316 0.295623551 rs73932419:50577889:A:G
ENSG00000105053
19:50579005:G:A:ENSG00000105053 0.035322296 0.618523 0.828327833
0.466610843 0.480692872 0.494607223 19:50579005:G:A:ENSG00000105053
rs146805943:50579355:AAAG:A:ENSG00000105053 0.035322296 0.58760415
0.645217882 0.395341642 0.279727316 0.333543658
rs146805943:50579355:AAAG:A:ENSG00000105053
rs78554634:50580561:A:G:ENSG00000105053 0.035322296 0.665071191 0.84607387
0.492233123 0.614364441 0.487204938 rs78554634:50580561:A:G
ENSG00000105053
rs28523367:50581404:G:A:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs28523367:50581404:G:A:ENSG00000105053
19:50581612:A:AAGAG:ENSG00000105053 0.035322296 0.618523
0.761772115 0.512101623 0.54593522 0.497503372 19:50581612:A:AAGAG
ENSG00000105053
rs372342456:50581901:A:G:ENSG00000105053 0.035322296 0.571275414
0.663257863 0.390584104 0.279727316 0.333543658
rs372342456:50581901:A:G:ENSG00000105053
rs200619699:50582004:AAAG:A:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs200619699:50582004:AAAG:A:ENSG00000105053

rs10408185:50582187:T:C:ENSG00000105053 0.035322296 0.572794149
0.666514548 0.379688866 0.173591669 0.308405655
rs10408185:50582187:T:C ENSG00000105053
19:50582414:T:C:ENSG00000105053 0.035322296 0.602503447 0.655792554
0.399004389 0.288162171 0.374953256 19:50582414:T:C ENSG00000105053
rs146164051:50582753:T:A:ENSG00000105053 0.035322296 0.56559224
0.651509705 0.387628207 0.279727316 0.333543658
rs146164051:50582753:T:A ENSG00000105053
rs144485010:50583983:C:T:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs144485010:50583983:C:T ENSG00000105053
rs60315997:50584766:T:C:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs60315997:50584766:T:C ENSG00000105053
rs74182091:50585467:C:CA:ENSG00000105053 0.035322296 0.624712816
0.680579361 0.385352708 0.300892226 0.447199093
rs74182091:50585467:C:CA ENSG00000105053
rs7250130:50585959:A:G:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs7250130:50585959:A:G ENSG00000105053
rs7251267:50586013:T:C:ENSG00000105053 0.035322296 0.391301538
0.470302738 0.314254491 0.112902598 0.24867752
rs7251267:50586013:T:C ENSG00000105053
rs7250386:50586147:A:G:ENSG00000105053 0.035322296 0.623013991
0.694666609 0.466610843 0.429827068 0.476127813
rs7250386:50586147:A:G ENSG00000105053
rs78816884:50586534:G:A:ENSG00000105053 0.035322296 0.62210204
0.691910845 0.463396258 0.429827068 0.476127813
rs78816884:50586534:G:A ENSG00000105053
rs149110605:50586681:T:C:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs149110605:50586681:T:C ENSG00000105053
rs143151818:50586720:C:T:ENSG00000105053 0.035322296 0.604833185
0.663257863 0.399004389 0.300892226 0.414364157
rs143151818:50586720:C:T ENSG00000105053
rs59394422:50587450:A:G:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs59394422:50587450:A:G ENSG00000105053
rs201469467:50587542:AT:A:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs201469467:50587542:AT:A ENSG00000105053
rs10401508:50588722:T:C:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs10401508:50588722:T:C ENSG00000105053
rs188748297:50589019:A:G:ENSG00000105053 0.035322296 0.563654004
0.618696386 0.37163762 0.279727316 0.369977602
rs188748297:50589019:A:G ENSG00000105053
rs143256006:50589137:A:G:ENSG00000105053 0.035322296 0.569365854
0.661919508 0.390584104 0.279727316 0.333543658
rs143256006:50589137:A:G ENSG00000105053
rs184927043:50589227:C:G:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs184927043:50589227:C:G ENSG00000105053

rs188254493:50589345:G:C:ENSG00000105053 0.035322296 0.61756659
0.674762224 0.419678998 0.363699827 0.457928806
rs188254493:50589345:G:C ENSG00000105053
rs8106662:50590384:A:G:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs8106662:50590384:A:G ENSG00000105053
rs7257061:50591235:C:T:ENSG00000105053 0.035322296 0.616712847
0.756966764 0.551096242 0.57001038 0.503271951
rs7257061:50591235:C:T ENSG00000105053
rs7257211:50591348:C:T:ENSG00000105053 0.035322296 0.602503447
0.655792554 0.399004389 0.288162171 0.374953256
rs7257211:50591348:C:T ENSG00000105053
rs7257411:50591355:G:A:ENSG00000105053 0.035322296 0.603890882 0.65652076
0.395341642 0.218559406 0.369977602 rs7257411:50591355:G:A
ENSG00000105053
rs11882236:50592115:C:G:ENSG00000105053 0.035322296 0.604833185 0.65900997
0.399004389 0.288162171 0.374953256 rs11882236:50592115:C:G
ENSG00000105053
rs10416029:50592578:A:G:ENSG00000105053 0.035322296 0.573615857
0.671660261 0.399004389 0.288162171 0.333543658
rs10416029:50592578:A:G ENSG00000105053
rs10416773:50592691:G:C:ENSG00000105053 0.035322296 0.604833185
0.663257863 0.401539023 0.288162171 0.374953256
rs10416773:50592691:G:C ENSG00000105053
rs10422921:50593121:G:T:ENSG00000105053 0.035322296 0.604833185
0.668344684 0.406267798 0.288162171 0.382106273
rs10422921:50593121:G:T ENSG00000105053
rs142355017:50593367:G:T:ENSG00000105053 0.035322296 0.604833185
0.668344684 0.406267798 0.288162171 0.382106273
rs142355017:50593367:G:T ENSG00000105053
rs11878351:50593842:A:C:ENSG00000105053 0.035322296 0.651399716
0.613735952 0.419678998 0.251839208 0.419171564
rs11878351:50593842:A:C ENSG00000105053
19:50638726:C:T:ENSG00000105053 0.035322296 0.602503447 0.728288658
0.466610843 0.504458419 0.438723573 19:50638726:C:T ENSG00000105053
19:50642720:A:T:ENSG00000105053 0.035322296 0.681583873 0.837103534
0.7815717 0.861392531 0.813853703 19:50642720:A:T ENSG00000105053
rs34446688:50643321:T:A:ENSG00000105053 0.035322296 0.57709595
0.771670385 0.49621531 0.54593522 0.441545027
rs34446688:50643321:T:A ENSG00000105053
rs115487435:50643555:A:G:ENSG00000105053 0.035322296 0.57709595
0.771670385 0.49621531 0.54593522 0.441545027
rs115487435:50643555:A:G ENSG00000105053
rs114415709:50643558:C:T:ENSG00000105053 0.035322296 0.594149718
0.781136655 0.520505218 0.54593522 0.453831125
rs114415709:50643558:C:T ENSG00000105053
rs138208418:50643645:GTCTCCC:G:ENSG00000105053 0.035322296 0.61756659
0.761772115 0.507376693 0.54593522 0.497503372
rs138208418:50643645:GTCTCCC:G ENSG00000105053
rs28709104:50644269:T:C:ENSG00000105053 0.035322296 0.57709595
0.771670385 0.49621531 0.54593522 0.441545027
rs28709104:50644269:T:C ENSG00000105053

rs57154357:50645264:T:G:ENSG00000105053 0.035322296 0.57709595
0.771670385 0.49621531 0.54593522 0.441545027
rs57154357:50645264:T:G ENSG00000105053
rs55806553:50645324:C:G:ENSG00000105053 0.035322296 0.57709595
0.771670385 0.49621531 0.54593522 0.441545027
rs55806553:50645324:C:G ENSG00000105053
rs11280770:50645789:G:GAGACAGAGTC:ENSG00000105053 0.035322296
0.569365854 0.839186759 0.53594117 0.641673925 0.510329036
rs11280770:50645789:G:GAGACAGAGTC ENSG00000105053
rs11280771:50645817:G:GTGTTGC:ENSG00000105053 0.035322296 0.57709595
0.771670385 0.49621531 0.54593522 0.441545027
rs11280771:50645817:G:GTGTTGC ENSG00000105053
rs10414850:ENSG00000105053 0.035322296 0.505984373 0.791608149
0.491850645 0.544223189 0.333543658 rs10414850 ENSG00000105053
rs8107344:50648582:C:G:ENSG00000105053 0.035322296 0.562502946
0.747767793 0.491850645 0.467095788 0.358316132
rs8107344:50648582:C:G ENSG00000105053
rs58248621:50649583:T:C:ENSG00000105053 0.035322296 0.5418066 0.6569085
0.326422852 0.069942274 0.24867752 rs58248621:50649583:T:C
ENSG00000105053
rs10409245:50650877:A:G:ENSG00000105053 0.035322296 0.549880855
0.672834733 0.37163762 0.279727316 0.319318857
rs10409245:50650877:A:G ENSG00000105053
rs61743455:50651485:A:C:ENSG00000204666 0.035322296 0.33968813
0.269469279 0.459055393 0.625064162 0.616432465
rs61743455:50651485:A:C ENSG00000204666
rs10404214:50652095:C:T:ENSG00000204666 0.035322296 0.33968813
0.269469279 0.459055393 0.636822477 0.616432465
rs10404214:50652095:C:T ENSG00000204666
rs28656072:50652492:C:G:ENSG00000204666 0.035322296 0.33968813
0.269469279 0.459055393 0.635943247 0.619162849
rs28656072:50652492:C:G ENSG00000204666
rs28408383:50654623:T:C:ENSG00000204666 0.035322296 0.391301538
0.255451763 0.333474506 0.589126514 0.60918994
rs28408383:50654623:T:C ENSG00000204666
rs10426920:50655200:G:A:ENSG00000204666 0.035322296 0.401488341
0.255451763 0.350892299 0.574209974 0.611611212
rs10426920:50655200:G:A ENSG00000204666
rs4802726:51178687:G:C:ENSG00000161677 0.405404276 0.039514306
0.498407593 0.072575018 0.9305498 0.813853703
rs4802726:51178687:G:C ENSG00000161677
rs3987748:51179712:A:G:ENSG00000161677 0.338515132 0.039514306
0.450702715 0.072575018 0.910108997 0.813853703
rs3987748:51179712:A:G ENSG00000161677
rs60044434:51180058:T:C:ENSG00000161677 0.322853095 0.039514306
0.470302738 0.072575018 0.899275605 0.813853703
rs60044434:51180058:T:C ENSG00000161677
rs4802730:51180530:T:G:ENSG00000161677 0.312801549 0.039514306
0.443593462 0.072575018 0.899479198 0.813853703
rs4802730:51180530:T:G ENSG00000161677
JHU_19.51181415:ENSG00000161677 0.325001177 0.039514306 0.443593462
0.072575018 0.899275605 0.813853703 JHU_19.51181415 ENSG00000161677

rs111940724:51183976:G:A:ENSG00000161677 0.342246666 0.039514306
0.466752146 0.401539023 0.902894948 0.813853703
rs111940724:51183976:G:A ENSG00000161677
rs9304793:58129644:G:A:ENSG00000121417 0.035322296 0.602208356
0.575705306 0.751091602 0.54593522 0.469127215
rs9304793:58129644:G:A ENSG00000121417
rs9749439:58135349:T:G:ENSG00000121417 0.035322296 0.039514306
0.054815691 0.401539023 0.218559406 0.108665807
rs9749439:58135349:T:G ENSG00000121417
rs78390131:58137359:G:A:ENSG00000121417 0.035322296 0.039514306
0.054815691 0.226823504 0.069942274 0.063994875
rs78390131:58137359:G:A ENSG00000121417
rs12104224:58147563:C:T:ENSG00000121417 0.035322296 0.039514306
0.054815691 0.390584104 0.340307796 0.308405655
rs12104224:58147563:C:T ENSG00000121417
rs12104226:58147594:G:A:ENSG00000121417 0.035322296 0.039514306
0.054815691 0.390584104 0.340307796 0.308405655
rs12104226:58147594:G:A ENSG00000121417
rs74960156:58147989:A:C:ENSG00000121417 0.035322296 0.039514306
0.054815691 0.301206855 0.218559406 0.063994875
rs74960156:58147989:A:C ENSG00000121417
rs3746215:58153596:G:T:ENSG00000121417 0.035322296 0.039514306
0.054815691 0.390584104 0.340307796 0.308405655
rs3746215:58153596:G:T ENSG00000121417
rs1044985:58153656:A:G:ENSG00000121417 0.035322296 0.039514306
0.054815691 0.390584104 0.340307796 0.308405655
rs1044985:58153656:A:G ENSG00000121417
rs12276:58154092:G:A:ENSG00000121417 0.035322296 0.039514306
0.054815691 0.390584104 0.340307796 0.308405655 rs12276:58154092:G:A
ENSG00000121417
rs113757723:58993144:GGTTTTGTTTT:G:ENSG00000171574 0.035322296
0.689753164 0.5196698 0.718511196 0.438540244 0.201281701
rs113757723:58993144:GGTTTTGTTTT:G ENSG00000171574
rs77498029:58993254:G:A:ENSG00000171574 0.035322296 0.668532818
0.495886418 0.671961709 0.484480155 0.108665807
rs77498029:58993254:G:A ENSG00000171574
rs59286201:30812145:AG:A:ENSG00000101346 0.273365067 0.039514306
0.5196698 0.577552537 0.484480155 0.511827661
rs59286201:30812145:AG:A ENSG00000101346
rs7274665:30816456:T:C:ENSG00000101346 0.271758927 0.039514306
0.525522206 0.581928322 0.504458419 0.511827661
rs7274665:30816456:T:C ENSG00000101346
rs6058568:30817542:G:A:ENSG00000101346 0.271758927 0.039514306
0.525522206 0.581928322 0.504458419 0.511827661
rs6058568:30817542:G:A ENSG00000101346
rs113200303:30817961:C:G:ENSG00000101346 0.271758927 0.039514306
0.528262409 0.581928322 0.504458419 0.511827661
rs113200303:30817961:C:G ENSG00000101346
rs6058570:30820576:C:T:ENSG00000101346 0.271758927 0.039514306
0.528262409 0.581928322 0.504458419 0.511827661
rs6058570:30820576:C:T ENSG00000101346
rs142649615:30825768:TA:T:ENSG00000101346 0.271758927 0.039514306
0.525522206 0.580315256 0.504458419 0.510329036
rs142649615:30825768:TA:T ENSG00000101346

rs6120951:34045191:G:A:ENSG00000126001 0.31683404 0.039514306
0.470302738 0.740968155 0.595947504 0.762727032
rs6120951:34045191:G:A ENSG00000126001
rs12480121:34045513:A:G:ENSG00000126001 0.31683404 0.039514306
0.470302738 0.740968155 0.595947504 0.762727032
rs12480121:34045513:A:G ENSG00000126001
rs58458373:34045611:T:A:ENSG00000126001 0.31683404 0.039514306
0.470302738 0.740968155 0.595947504 0.762727032
rs58458373:34045611:T:A ENSG00000126001
rs3818441:34046501:G:A:ENSG00000126001 0.31683404 0.039514306
0.470302738 0.740968155 0.595947504 0.762727032
rs3818441:34046501:G:A ENSG00000126001
rs11433451:34047055:G:GT:ENSG00000126001 0.31683404 0.039514306
0.470302738 0.740968155 0.595947504 0.762727032
rs11433451:34047055:G:GT ENSG00000126001
rs1570841:ENSG00000126001 0.273365067 0.039514306 0.398350929
0.743867896 0.532319281 0.742226273 rs1570841 ENSG00000126001
rs736031:34048625:T:C:ENSG00000126001 0.282721177 0.039514306
0.400191924 0.746587726 0.54593522 0.740076738 rs736031:34048625:T:C
ENSG00000126001
rs736032:34048661:C:T:ENSG00000126001 0.300053761 0.039514306
0.443593462 0.745908079 0.565674613 0.758857069 rs736032:34048661:C:T
ENSG00000126001
rs8116304:34054409:C:T:ENSG00000126001 0.300053761 0.039514306
0.443593462 0.745908079 0.565674613 0.758857069
rs8116304:34054409:C:T ENSG00000126001
rs5841213:34055453:AG:A:ENSG00000126001 0.300053761 0.039514306
0.443593462 0.745908079 0.565674613 0.758857069
rs5841213:34055453:AG:A ENSG00000126001
rs1886696:34055706:T:C:ENSG00000126001 0.301603763 0.039514306
0.398350929 0.743867896 0.54593522 0.749650459
rs1886696:34055706:T:C ENSG00000126001
rs6060430:34056952:T:C:ENSG00000126001 0.301603763 0.039514306
0.398350929 0.743867896 0.54593522 0.749650459
rs6060430:34056952:T:C ENSG00000126001
rs6060431:34059337:T:C:ENSG00000126001 0.280686821 0.039514306
0.406502841 0.743314243 0.54593522 0.74132011
rs6060431:34059337:T:C ENSG00000126001
rs2281849:34060286:T:C:ENSG00000126001 0.280686821 0.039514306
0.406502841 0.743314243 0.54593522 0.74132011
rs2281849:34060286:T:C ENSG00000126001
rs4911503:34063095:C:T:ENSG00000126001 0.297292124 0.039514306
0.450702715 0.746587726 0.565674613 0.758857069
rs4911503:34063095:C:T ENSG00000126001
rs6119612:34065125:A:G:ENSG00000126001 0.297292124 0.039514306
0.450702715 0.746587726 0.565674613 0.758857069
rs6119612:34065125:A:G ENSG00000126001
rs6119613:34065195:A:G:ENSG00000126001 0.305615864 0.039514306
0.436932543 0.746587726 0.580298595 0.757470737
rs6119613:34065195:A:G ENSG00000126001
rs2004554:34066312:T:C:ENSG00000126001 0.297292124 0.039514306
0.450702715 0.746587726 0.565674613 0.758857069
rs2004554:34066312:T:C ENSG00000126001

rs750487:34066645:T:C:ENSG00000126001 0.297292124 0.039514306
0.450702715 0.746587726 0.565674613 0.758857069 rs750487:34066645:T:C
ENSG00000126001

rs58355182:34075687:T:G:ENSG00000126001 0.271758927 0.039514306
0.269469279 0.744964321 0.484480155 0.705938854
rs58355182:34075687:T:G ENSG00000126001

rs55969606:34075688:T:C:ENSG00000126001 0.25732594 0.039514306
0.238368074 0.729821915 0.450253392 0.684588293
rs55969606:34075688:T:C ENSG00000126001

rs6119614:34076780:A:G:ENSG00000126001 0.271758927 0.039514306
0.269469279 0.744540267 0.480692872 0.704314191
rs6119614:34076780:A:G ENSG00000126001

rs6120959:34077848:G:A:ENSG00000126001 0.271758927 0.039514306
0.310525978 0.741550909 0.490050927 0.723412688
rs6120959:34077848:G:A ENSG00000126001

rs6058254:34079494:T:C:ENSG00000126001 0.271758927 0.039514306
0.238368074 0.744540267 0.477032507 0.69542589
rs6058254:34079494:T:C ENSG00000126001

rs2236165:34096725:A:G:ENSG00000126001 0.271758927 0.039514306
0.255451763 0.743311155 0.472198515 0.699560088
rs2236165:34096725:A:G ENSG00000126001

exm-rs2236164:ENSG00000126001 0.271758927 0.039514306 0.310525978
0.742519542 0.480692872 0.710464737 exm-rs2236164 ENSG00000126001

rs2236160:34101821:A:G:ENSG00000126001 0.253880551 0.039514306
0.238368074 0.736267142 0.438540244 0.705938854
rs2236160:34101821:A:G ENSG00000126001

rs6027812:35191080:T:G:ENSG00000101084 0.035322296 0.529389495
0.722493939 0.767307763 0.794115648 0.748055982
rs6027812:35191080:T:G ENSG00000101084

rs114847319:35191867:C:G:ENSG00000101084 0.035322296 0.529389495
0.721465596 0.767307763 0.788891622 0.74132011
rs114847319:35191867:C:G ENSG00000101084

rs138422983:35192738:A:G:ENSG00000101084 0.035322296 0.517717788
0.707238467 0.761207831 0.777200875 0.735371396
rs138422983:35192738:A:G ENSG00000101084

rs6028155:35197712:A:G:ENSG00000101084 0.035322296 0.467084083
0.701097355 0.751091602 0.824032297 0.631825967
rs6028155:35197712:A:G ENSG00000101084

rs76169709:35201493:T:C:ENSG00000101084 0.035322296 0.467084083
0.701097355 0.751091602 0.823501477 0.631825967
rs76169709:35201493:T:C ENSG00000101084

rs35893501:35215104:CCCA:C:ENSG00000101084 0.035322296 0.257351931
0.78047011 0.751091602 0.774765425 0.742226273
rs35893501:35215104:CCCA:C ENSG00000101084

rs6028347:35238924:A:G:ENSG00000101084 0.035322296 0.469499546
0.679533134 0.734208802 0.801413132 0.684588293
rs6028347:35238924:A:G ENSG00000101084

rs76402820:35256388:C:A:ENSG00000101084 0.035322296 0.538459161
0.495886418 0.772750049 0.57001038 0.640308963
rs76402820:35256388:C:A ENSG00000101084

rs6101519:35256718:C:A:ENSG00000101084 0.035322296 0.53025993
0.495886418 0.772750049 0.54593522 0.628577259
rs6101519:35256718:C:A ENSG00000101084

rs189677451:35257127:A:T:ENSG00000101084 0.035322296 0.5418066
0.370396184 0.751091602 0.805872786 0.441545027
rs189677451:35257127:A:T ENSG00000101084
rs112402055:35257652:C:G:ENSG00000101084 0.035322296 0.533691809
0.492105461 0.772750049 0.54593522 0.629719559
rs112402055:35257652:C:G ENSG00000101084
rs113088286:35258150:A:C:ENSG00000101084 0.035322296 0.552128457
0.568513848 0.772750049 0.594105975 0.556049114
rs113088286:35258150:A:C ENSG00000101084
rs6093176:35258741:A:G:ENSG00000101084 0.035322296 0.533691809
0.492105461 0.770188417 0.54593522 0.629184088
rs6093176:35258741:A:G ENSG00000101084
rs6101529:35258830:G:A:ENSG00000101084 0.035322296 0.535783092
0.492105461 0.772750049 0.54593522 0.629184088
rs6101529:35258830:G:A ENSG00000101084
rs59586574:35259103:T:C:ENSG00000101084 0.035322296 0.535783092
0.492105461 0.772750049 0.54593522 0.629184088
rs59586574:35259103:T:C ENSG00000101084
rs113148107:35259446:A:G:ENSG00000101084 0.035322296 0.535783092
0.492105461 0.772111876 0.54593522 0.631825967
rs113148107:35259446:A:G ENSG00000101084
rs113759058:35259576:A:AG:ENSG00000101084 0.035322296 0.535783092
0.492105461 0.772111876 0.54593522 0.631825967
rs113759058:35259576:A:AG ENSG00000101084
rs6101542:35259654:T:C:ENSG00000101084 0.035322296 0.529389495
0.492105461 0.763588687 0.526407644 0.631825967
rs6101542:35259654:T:C ENSG00000101084
rs113167967:35259926:T:C:ENSG00000101084 0.035322296 0.537194194
0.492105461 0.772750049 0.54593522 0.631825967
rs113167967:35259926:T:C ENSG00000101084
rs75466212:35260221:A:C:ENSG00000101084 0.035322296 0.570701598
0.568513848 0.774949478 0.66458282 0.689693952
rs75466212:35260221:A:C ENSG00000101084
rs6101556:35260837:T:C:ENSG00000101084 0.035322296 0.566392291
0.568513848 0.772986267 0.647818531 0.663342074
rs6101556:35260837:T:C ENSG00000101084
rs113803332:35261681:A:G:ENSG00000101084 0.035322296 0.560196984
0.568513848 0.77086265 0.636822477 0.659336192
rs113803332:35261681:A:G ENSG00000101084
rs79781699:35261771:A:G:ENSG00000101084 0.035322296 0.560196984
0.568513848 0.771395682 0.636822477 0.657031972
rs79781699:35261771:A:G ENSG00000101084
rs59018650:35262288:G:A:ENSG00000101084 0.035322296 0.563997567
0.568513848 0.772750049 0.641673925 0.655547185
rs59018650:35262288:G:A ENSG00000101084
rs62202464:37379082:G:A:ENSG00000101442 0.542960896 0.039514306 0.515964
0.441817908 0.112902598 0.174366738 rs62202464:37379082:G:A
ENSG00000101442
rs11480019:37379778:AT:A:ENSG00000101442 0.543396977 0.039514306
0.515964 0.442167795 0.112902598 0.174366738
rs11480019:37379778:AT:A ENSG00000101442
rs113793312:37381562:C:CT:ENSG00000101442 0.515193516 0.039514306
0.677261746 0.539448558 0.218559406 0.063994875
rs113793312:37381562:C:CT ENSG00000101442

rs143267835:37383250:T:G:ENSG00000101442 0.556419241 0.039514306
0.562861286 0.469436994 0.112902598 0.174366738
rs143267835:37383250:T:G ENSG00000101442
rs62202471:37385921:C:G:ENSG00000101442 0.556889001 0.039514306
0.562861286 0.472415297 0.112902598 0.174366738
rs62202471:37385921:C:G ENSG00000101442
rs7267156:37387056:G:A:ENSG00000101442 0.534802497 0.039514306
0.360243455 0.165229468 0.148497947 0.24867752
rs7267156:37387056:G:A ENSG00000101442
rs6128906:37387582:A:T:ENSG00000101442 0.556889001 0.039514306
0.562861286 0.472415297 0.112902598 0.174366738
rs6128906:37387582:A:T ENSG00000101442
rs6128907:37387862:T:C:ENSG00000101442 0.556889001 0.039514306
0.562861286 0.472415297 0.112902598 0.174366738
rs6128907:37387862:T:C ENSG00000101442
rs62202472:37390786:G:A:ENSG00000101442 0.534802497 0.039514306
0.360243455 0.165229468 0.148497947 0.24867752
rs62202472:37390786:G:A ENSG00000101442
rs10485651:37394032:C:T:ENSG00000101442 0.534802497 0.039514306
0.360243455 0.165229468 0.148497947 0.24867752
rs10485651:37394032:C:T ENSG00000101442
20:37399488-C-T:ENSG00000101442 0.557545872 0.039514306 0.562861286
0.478009532 0.112902598 0.174366738 20:37399488-C-T ENSG00000101442
rs8125582:ENSG00000101442 0.525727277 0.039514306 0.360243455
0.165229468 0.198669295 0.597837774 rs8125582 ENSG00000101442
rs6128959:37402395:C:T:ENSG00000101442 0.557545872 0.039514306
0.562861286 0.478009532 0.112902598 0.174366738
rs6128959:37402395:C:T ENSG00000101442
rs1535431:37404419:T:G:ENSG00000101442 0.557545872 0.039514306
0.562861286 0.478009532 0.112902598 0.174366738
rs1535431:37404419:T:G ENSG00000101442
rs73104045:ENSG00000101442 0.533786189 0.039514306 0.360243455
0.165229468 0.148497947 0.269135872 rs73104045 ENSG00000101442
rs116490114:37408170:G:A:ENSG00000101442 0.557545872 0.039514306
0.560108139 0.478009532 0.112902598 0.174366738
rs116490114:37408170:G:A ENSG00000101442
rs62202485:37408568:G:A:ENSG00000101442 0.557545872 0.039514306
0.560108139 0.478009532 0.112902598 0.174366738
rs62202485:37408568:G:A ENSG00000101442
rs113875872:37413026:AT:A:ENSG00000101442 0.557545872 0.039514306
0.560108139 0.478009532 0.112902598 0.174366738
rs113875872:37413026:AT:A ENSG00000101442
rs6019535:47541517:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019535:47541517:G:A ENSG00000124207
rs34984028:47549047:C:T:ENSG00000124207 0.035322296 0.066642396
0.090437058 0.072575018 0.112902598 0.063994875
rs34984028:47549047:C:T ENSG00000124207
rs5841741:47549979:TA:T:ENSG00000124207 0.10009087 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs5841741:47549979:TA:T ENSG00000124207
rs6095367:47550488:C:T:ENSG00000124207 0.035322296 0.066642396
0.090437058 0.072575018 0.112902598 0.063994875
rs6095367:47550488:C:T ENSG00000124207

rs186527529:47552596:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs186527529:47552596:G:A ENSG00000124207
rs35166218:47552761:G:A:ENSG00000124207 0.035322296 0.066642396
0.090437058 0.072575018 0.112902598 0.063994875
rs35166218:47552761:G:A ENSG00000124207
rs6019545:47557014:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019545:47557014:G:A ENSG00000124207
rs1983639:47572282:G:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs1983639:47572282:G:A ENSG00000124207
rs2295027:47582884:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2295027:47582884:G:A ENSG00000124207
rs6019557:47583372:T:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6019557:47583372:T:G ENSG00000124207
rs6019558:47583480:C:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019558:47583480:C:A ENSG00000124207
rs6019567:47595961:G:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6019567:47595961:G:A ENSG00000124207
rs6090932:47598298:A:C:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6090932:47598298:A:C ENSG00000124207
rs1569749:47601509:A:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs1569749:47601509:A:G ENSG00000124207
rs1997854:47602339:A:G:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs1997854:47602339:A:G ENSG00000124207
rs1048590:47610297:G:T:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs1048590:47610297:G:T ENSG00000124207
rs2295033:47610896:C:T:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2295033:47610896:C:T ENSG00000124207
rs34537217:47624486:ATTT:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs34537217:47624486:ATTT:A ENSG00000124207
rs2869692:47638256:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2869692:47638256:G:A ENSG00000124207
rs7270848:47639737:A:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs7270848:47639737:A:G ENSG00000124207
rs6019591:47640029:T:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019591:47640029:T:A ENSG00000124207
rs6019593:47640168:T:C:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6019593:47640168:T:C ENSG00000124207

rs66970580:47641339:T:C:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs66970580:47641339:T:C ENSG00000124207
rs13041022:47642476:G:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs13041022:47642476:G:A ENSG00000124207
rs7262379:47642579:A:G:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7262379:47642579:A:G ENSG00000124207
rs6019594:47643554:C:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6019594:47643554:C:G ENSG00000124207
rs6019595:47644032:A:G:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019595:47644032:A:G ENSG00000124207
rs68087998:47644292:TGTA:T:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs68087998:47644292:TGTA:T ENSG00000124207
rs73623293:47645002:G:GT:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs73623293:47645002:G:GT ENSG00000124207
rs6095400:47645989:A:C:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6095400:47645989:A:C ENSG00000124207
rs71184247:47646132:AT:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs71184247:47646132:AT:A ENSG00000124207
rs139675382:47646437:G:GA:ENSG00000124207 0.035322296 0.159643516
0.121437838 0.123210094 0.237095457 0.108665807
rs139675382:47646437:G:GA ENSG00000124207
rs6095401:47646621:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6095401:47646621:G:A ENSG00000124207
rs6012586:47647417:T:C:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6012586:47647417:T:C ENSG00000124207
rs6019601:47647662:T:C:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019601:47647662:T:C ENSG00000124207
rs13042947:47647876:T:C:ENSG00000124207 0.035322296 0.12731097
0.090437058 0.072575018 0.237095457 0.063994875
rs13042947:47647876:T:C ENSG00000124207
rs1022688:47648856:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs1022688:47648856:G:A ENSG00000124207
rs6019602:47651492:G:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6019602:47651492:G:A ENSG00000124207
rs707533:47652254:A:G:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs707533:47652254:A:G
ENSG00000124207
rs707534:ENSG00000124207 0.035322296 0.039514306 0.054815691
0.072575018 0.112902598 0.063994875 rs707534 ENSG00000124207

rs16994347:47653361:T:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs16994347:47653361:T:G ENSG00000124207
rs6019603:47653406:T:C:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019603:47653406:T:C ENSG00000124207
rs6019604:47653498:G:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6019604:47653498:G:A ENSG00000124207
rs927160:47654564:C:G:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs927160:47654564:C:G
ENSG00000124207
rs6019609:47655768:C:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6019609:47655768:C:G ENSG00000124207
rs35167846:47655844:TG:T:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs35167846:47655844:TG:T ENSG00000124207
rs11905116:47658064:A:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs11905116:47658064:A:G ENSG00000124207
rs6095407:47661470:G:C:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6095407:47661470:G:C ENSG00000124207
rs3817652:47663368:A:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs3817652:47663368:A:G ENSG00000124207
rs6019613:47664667:C:T:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019613:47664667:C:T ENSG00000124207
rs6090939:47665825:A:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6090939:47665825:A:G ENSG00000124207
rs6090940:47666027:G:T:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6090940:47666027:G:T ENSG00000124207
rs6012590:47667237:C:T:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6012590:47667237:C:T ENSG00000124207
rs6012591:47667342:T:C:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6012591:47667342:T:C ENSG00000124207
rs35018308:47667922:A:AAG:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs35018308:47667922:A:AAG ENSG00000124207
rs7509369:47668037:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7509369:47668037:G:A ENSG00000124207
rs2869694:47668383:C:T:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs2869694:47668383:C:T ENSG00000124207
rs73611328:47669980:T:C:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs73611328:47669980:T:C ENSG00000124207

rs6019618:47671538:T:C:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019618:47671538:T:C ENSG00000124207
rs3795082:47673002:G:C:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs3795082:47673002:G:C ENSG00000124207
rs6090941:47676951:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6090941:47676951:G:A ENSG00000124207
rs6095416:47677007:C:T:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6095416:47677007:C:T ENSG00000124207
rs6012592:47677162:C:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6012592:47677162:C:A ENSG00000124207
rs6019619:47677834:T:C:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019619:47677834:T:C ENSG00000124207
rs6012593:47677835:G:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6012593:47677835:G:A ENSG00000124207
rs200355693:47678023:ATTAT:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs200355693:47678023:ATTAT:A ENSG00000124207
rs6095417:47678201:G:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6095417:47678201:G:A ENSG00000124207
rs6019620:47679300:T:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019620:47679300:T:A ENSG00000124207
rs10714453:47679655:AT:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs10714453:47679655:AT:A ENSG00000124207
rs6019621:47679963:C:T:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019621:47679963:C:T ENSG00000124207
rs2075675:47685493:T:C:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs2075675:47685493:T:C ENSG00000124207
rs6019624:47685815:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6019624:47685815:G:A ENSG00000124207
rs6512567:47688620:T:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs6512567:47688620:T:G ENSG00000124207
rs2075676:47691211:C:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2075676:47691211:C:A ENSG00000124207
rs2426117:47693160:G:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs2426117:47693160:G:A ENSG00000124207
rs199723911:47695997:T:TC:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs199723911:47695997:T:TC ENSG00000124207

20:47695999:A:T:ENSG00000124207 0.035322296 0.039514306 0.054815691
0.072575018 0.148497947 0.063994875 20:47695999:A:T ENSG00000124207
rs34799440:47696000:G:GA:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs34799440:47696000:G:GA ENSG00000124207
rs2426120:47697253:T:A:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs2426120:47697253:T:A ENSG00000124207
rs112964185:47697524:TTC:T:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs112964185:47697524:TTC:T ENSG00000124207
rs2426121:47697732:A:C:ENSG00000124207 0.035322296 0.066642396
0.054815691 0.072575018 0.198669295 0.063994875
rs2426121:47697732:A:C ENSG00000124207
rs2426122:47697939:A:G:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2426122:47697939:A:G ENSG00000124207
rs2426125:47700982:A:G:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs2426125:47700982:A:G ENSG00000124207
rs1885163:47701765:T:C:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs1885163:47701765:T:C ENSG00000124207
rs1538482:47705496:T:C:ENSG00000124207 0.035322296 0.089622533
0.054815691 0.072575018 0.198669295 0.063994875
rs1538482:47705496:T:C ENSG00000124207
rs3092348:47705763:GTT:G:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3092348:47705763:GTT:G ENSG00000124207
rs2295714:47739814:C:T:ENSG00000124207 0.301603763 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2295714:47739814:C:T ENSG00000124207
rs71337493:47746627:A:AATAG:ENSG00000124207 0.300053761 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs71337493:47746627:A:AATAG ENSG00000124207
rs6066979:47760856:A:G:ENSG00000124207 0.407773261 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6066979:47760856:A:G ENSG00000124207
rs348258:47768988:C:T:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875 rs348258:47768988:C:T
ENSG00000124207
rs56131635:47774343:G:A:ENSG00000124207 0.407773261 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs56131635:47774343:G:A ENSG00000124207
rs3092427:47774781:G:T:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs3092427:47774781:G:T ENSG00000124207
rs2426139:47780105:G:A:ENSG00000124207 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs2426139:47780105:G:A ENSG00000124207
rs237700:47909822:A:G:ENSG00000222365 0.415662768 0.039514306
0.539346559 0.617124137 0.804199657 0.832178722 rs237700:47909822:A:G
ENSG00000222365

rs73119461:48775989:T:A:ENSG00000237595 0.447672715 0.039514306
0.828327833 0.530641947 0.069942274 0.78856276
rs73119461:48775989:T:A ENSG00000237595
rs6020301:48776465:G:C:ENSG00000237595 0.600453444 0.039514306
0.828327833 0.558498626 0.069942274 0.813853703
rs6020301:48776465:G:C ENSG00000237595
rs13044470:48776806:A:G:ENSG00000237595 0.594931318 0.039514306
0.828327833 0.572233838 0.069942274 0.813853703
rs13044470:48776806:A:G ENSG00000237595
rs13044872:48776807:G:T:ENSG00000237595 0.594931318 0.039514306
0.828327833 0.572233838 0.069942274 0.813853703
rs13044872:48776807:G:T ENSG00000237595
rs11475322:48776989:AG:A:ENSG00000237595 0.611777942 0.039514306
0.828327833 0.574425668 0.069942274 0.813853703
rs11475322:48776989:AG:A ENSG00000237595
rs6020303:48777041:G:C:ENSG00000237595 0.61044023 0.039514306
0.828327833 0.576920785 0.069942274 0.813853703
rs6020303:48777041:G:C ENSG00000237595
rs2149895:48777401:G:A:ENSG00000237595 0.604255099 0.039514306
0.828327833 0.590665154 0.069942274 0.807989632
rs2149895:48777401:G:A ENSG00000237595
rs2149896:48777495:T:C:ENSG00000237595 0.601727875 0.039514306
0.828327833 0.593810582 0.069942274 0.806410789
rs2149896:48777495:T:C ENSG00000237595
rs1974103:48780079:G:A:ENSG00000237595 0.603511499 0.039514306
0.828327833 0.628695369 0.069942274 0.782163764
rs1974103:48780079:G:A ENSG00000237595
rs1974105:48780131:A:G:ENSG00000237595 0.608696126 0.039514306
0.828327833 0.626314657 0.069942274 0.786798608
rs1974105:48780131:A:G ENSG00000237595
exml557361:ENSG00000092758 0.461917041 0.039514306 0.42239248
0.424824518 0.069942274 0.451526982 exml557361 ENSG00000092758
rs243597:19158039:C:G:ENSG00000154642 0.035322296 0.039514306
0.360243455 0.072575018 0.716444316 0.282646046 rs243597:19158039:C:G
ENSG00000154642
rs243603:19160300:T:C:ENSG00000154642 0.035322296 0.066642396
0.390230616 0.072575018 0.690981753 0.269135872 rs243603:19160300:T:C
ENSG00000154642
rs243605:19161120:G:C:ENSG00000154642 0.035322296 0.039514306
0.238368074 0.072575018 0.526407644 0.174366738 rs243605:19161120:G:C
ENSG00000154642
rs243607:19161515:A:G:ENSG00000154642 0.035322296 0.066642396
0.390230616 0.072575018 0.690981753 0.269135872 rs243607:19161515:A:G
ENSG00000154642
rs12997656:55394166:T:G:ENSG00000162994 0.035322296 0.110495165
0.090437058 0.751091602 0.690981753 0.813853703
rs12997656:55394166:T:G ENSG00000162994
rs10167669:55397523:C:T:ENSG00000162994 0.035322296 0.329515493 0.14398786
0.561168554 0.838427208 0.813853703 rs10167669:55397523:C:T
ENSG00000162994
rs61119180:55399837:TA:T:ENSG00000162994 0.035322296 0.651399716
0.360243455 0.226823504 0.714300296 0.813853703
rs61119180:55399837:TA:T ENSG00000162994

rs11692206:ENSG00000162994 0.035322296 0.654488658 0.485354668
0.385352708 0.900733954 0.833818368 rs11692206 ENSG00000162994
rs12618111:55414364:G:A:ENSG00000162994 0.035322296 0.066642396
0.090437058 0.751091602 0.690981753 0.813853703
rs12618111:55414364:G:A ENSG00000162994
rs12615414:55419043:A:C:ENSG00000162994 0.035322296 0.53025993
0.324917292 0.569579255 0.770256297 0.813853703
rs12615414:55419043:A:C ENSG00000162994
rs62165172:55736237:A:G:ENSG00000138035 0.48524743 0.039514306 0.83357244
0.36680942 0.782536654 0.813853703 rs62165172:55736237:A:G
ENSG00000138035
rs62165173:55741666:T:C:ENSG00000138035 0.488334683 0.039514306
0.844049413 0.36680942 0.789584113 0.813853703
rs62165173:55741666:T:C ENSG00000138035
rs62165175:55745810:T:A:ENSG00000138035 0.515908395 0.039514306
0.828327833 0.463396258 0.9305498 0.804202828
rs62165175:55745810:T:A ENSG00000138035
rs6739513:55749902:G:A:ENSG00000138035 0.46913627 0.039514306
0.828327833 0.447551187 0.750632228 0.813853703
rs6739513:55749902:G:A ENSG00000138035
2:55762957-C-T:ENSG00000138035 0.466235935 0.039514306 0.828327833
0.450346002 0.74808171 0.813853703 2:55762957-C-T ENSG00000138035
rs4672054:55773093:C:A:ENSG00000138035 0.467901626 0.039514306
0.828327833 0.442167795 0.758499809 0.813853703
rs4672054:55773093:C:A ENSG00000138035
rs1058582:55775069:C:T:ENSG00000138035 0.467901626 0.039514306
0.828327833 0.442167795 0.758499809 0.813853703
rs1058582:55775069:C:T ENSG00000138035
rs62165182:55786311:C:T:ENSG00000138035 0.467901626 0.039514306
0.828327833 0.450346002 0.750632228 0.813853703
rs62165182:55786311:C:T ENSG00000138035
rs62165184:55788253:G:C:ENSG00000138035 0.467901626 0.039514306
0.828327833 0.450346002 0.74808171 0.813853703
rs62165184:55788253:G:C ENSG00000138035
rs12991267:55789414:T:C:ENSG00000138035 0.482848054 0.039514306
0.238368074 0.747187568 0.498016841 0.174366738
rs12991267:55789414:T:C ENSG00000138035
rs4672055:55797231:A:G:ENSG00000138035 0.466235935 0.039514306
0.828327833 0.450346002 0.74808171 0.813853703
rs4672055:55797231:A:G ENSG00000138035
2:55797507-T-C:ENSG00000138035 0.466235935 0.039514306 0.828327833
0.450346002 0.74808171 0.813853703 2:55797507-T-C ENSG00000138035
rs11358675:55798445:CA:C:ENSG00000138035 0.461917041 0.039514306
0.828327833 0.450346002 0.801413132 0.813853703
rs11358675:55798445:CA:C ENSG00000138035
rs4290693:55799991:C:G:ENSG00000138035 0.466235935 0.039514306
0.828327833 0.450346002 0.74808171 0.813853703
rs4290693:55799991:C:G ENSG00000138035
rs62165197:55801812:C:T:ENSG00000138035 0.466235935 0.039514306
0.828327833 0.450346002 0.74808171 0.813853703
rs62165197:55801812:C:T ENSG00000138035
2:55805172-A-C:ENSG00000138035 0.466235935 0.039514306 0.828327833
0.450346002 0.74808171 0.813853703 2:55805172-A-C ENSG00000138035

2:55806503-A-G:ENSG00000138035 0.466235935 0.039514306 0.828327833
0.450346002 0.74808171 0.813853703 2:55806503-A-G ENSG00000138035
2:55809054-A-G:ENSG00000138035 0.48524743 0.039514306 0.740140062
0.617124137 0.9305498 0.640308963 2:55809054-A-G ENSG00000138035
2:55812073-T-G:ENSG00000138035 0.466235935 0.039514306 0.828327833
0.450346002 0.74808171 0.813853703 2:55812073-T-G ENSG00000138035
rs2054728:55818419:C:T:ENSG00000138035 0.513785622 0.039514306
0.645217882 0.617124137 0.9305498 0.758762279
rs2054728:55818419:C:T ENSG00000138035
rs62165200:55824496:C:T:ENSG00000138035 0.513785622 0.039514306
0.645217882 0.617124137 0.9305498 0.758762279
rs62165200:55824496:C:T ENSG00000138035
rs935177:55826761:C:G:ENSG00000138035 0.513785622 0.039514306
0.645217882 0.617124137 0.9305498 0.758762279 rs935177:55826761:C:G
ENSG00000138035
rs2586968:55828718:G:T:ENSG00000138035 0.513785622 0.039514306
0.645217882 0.617124137 0.9305498 0.758762279
rs2586968:55828718:G:T ENSG00000138035
2:55836165-A-C:ENSG00000138035 0.466235935 0.039514306 0.828327833
0.450346002 0.746195972 0.813853703 2:55836165-A-C ENSG00000138035
2:55841640-T-C:ENSG00000138035 0.561476075 0.039514306 0.828327833
0.197042097 0.714734306 0.702759696 2:55841640-T-C ENSG00000138035
rs782590:ENSG00000138035 0.466235935 0.039514306 0.828327833
0.450346002 0.74808171 0.813853703 rs782590 ENSG00000138035
rs782595:55845596:C:G:ENSG00000138035 0.466235935 0.039514306
0.828327833 0.445043357 0.749667392 0.813853703 rs782595:55845596:C:G
ENSG00000138035
2:55847423-C-T:ENSG00000138035 0.33585794 0.039514306 0.83357244
0.276782326 0.66458282 0.813853703 2:55847423-C-T ENSG00000138035
2:55848244-T-C:ENSG00000138035 0.326821943 0.039514306 0.837990064
0.263905944 0.636822477 0.813853703 2:55848244-T-C ENSG00000138035
2:55853341-T-C:ENSG00000138035 0.461917041 0.039514306 0.831071716
0.492233123 0.746195972 0.782163764 2:55853341-T-C ENSG00000138035
rs143406758:55858767:T:TAA:ENSG00000138035 0.405404276 0.039514306
0.83357244 0.491850645 0.614364441 0.813853703
rs143406758:55858767:T:TAA ENSG00000138035
rs782650:55860399:T:C:ENSG00000138035 0.47802723 0.039514306
0.853698456 0.478009532 0.694942942 0.813853703 rs782650:55860399:T:C
ENSG00000138035
rs201929616:55864006:AAACAACAAC:AAAC:ENSG00000138035 0.554566691
0.039514306 0.801175004 0.558498626 0.90539517 0.66967784
rs201929616:55864006:AAACAACAAC:AAAC ENSG00000138035
rs10579642:55872969:ACTT:A:ENSG00000138035 0.552982152 0.039514306
0.805916186 0.558498626 0.899275605 0.674365303
rs10579642:55872969:ACTT:A ENSG00000138035
rs2627776:55873301:T:A:ENSG00000138035 0.552661405 0.039514306
0.809704997 0.558498626 0.897716677 0.674365303
rs2627776:55873301:T:A ENSG00000138035
rs62165226:55878339:C:T:ENSG00000138035 0.484913843 0.039514306
0.704400012 0.558498626 0.850094681 0.6481702
rs62165226:55878339:C:T ENSG00000138035
rs7557134:55878927:A:T:ENSG00000138035 0.606481133 0.039514306
0.690411919 0.519043541 0.934841002 0.282646046
rs7557134:55878927:A:T ENSG00000138035

rs782566:55880182:T:C:ENSG00000138035 0.552661405 0.039514306
0.809704997 0.558498626 0.897716677 0.674365303 rs782566:55880182:T:C
ENSG00000138035
2:55881538-T-C:ENSG00000138035 0.552661405 0.039514306 0.809704997
0.558498626 0.897716677 0.674365303 2:55881538-T-C ENSG00000138035
rs7571474:55882471:A:T:ENSG00000138035 0.552661405 0.039514306
0.809704997 0.558498626 0.897716677 0.674365303
rs7571474:55882471:A:T ENSG00000138035
rs2627765:ENSG00000138035 0.561173628 0.039514306 0.760415187
0.558498626 0.9305498 0.650718924 rs2627765 ENSG00000138035
rs2586952:55884363:C:T:ENSG00000138035 0.552268484 0.039514306
0.803318767 0.558498626 0.894985085 0.672369682
rs2586952:55884363:C:T ENSG00000138035
rs7596377:55888612:T:A:ENSG00000138035 0.548948418 0.039514306
0.695869412 0.648772991 0.873234478 0.813853703
rs7596377:55888612:T:A ENSG00000138035
2:55897700-T-C:ENSG00000138035 0.561219495 0.039514306 0.539346559
0.737553103 0.9305498 0.511827661 2:55897700-T-C ENSG00000138035
rs782632:55898290:C:G:ENSG00000138035 0.562225676 0.039514306
0.542268712 0.734208802 0.9305498 0.522761587 rs782632:55898290:C:G
ENSG00000138035
2:55899425-T-C:ENSG00000138035 0.561219495 0.039514306 0.539346559
0.737553103 0.9305498 0.511827661 2:55899425-T-C ENSG00000138035
2:55900459-A-G:ENSG00000138035 0.561219495 0.039514306 0.536792521
0.736814521 0.9305498 0.511827661 2:55900459-A-G ENSG00000138035
rs782619:55908317:G:C:ENSG00000138035 0.366255875 0.039514306
0.828327833 0.751091602 0.750632228 0.813853703 rs782619:55908317:G:C
ENSG00000138035
2:55912961-T-C:ENSG00000138035 0.359567157 0.039514306 0.828327833
0.751091602 0.758499809 0.813853703 2:55912961-T-C ENSG00000138035
rs12617719:55915826:G:C:ENSG00000138035 0.366255875 0.039514306
0.828327833 0.751091602 0.846769489 0.823761454
rs12617719:55915826:G:C ENSG00000138035
rs782579:55917604:A:G:ENSG00000138035 0.52990015 0.039514306
0.828369156 0.751091602 0.710284102 0.772415663 rs782579:55917604:A:G
ENSG00000138035
rs782584:55921116:C:G:ENSG00000138035 0.360450974 0.039514306
0.828327833 0.751091602 0.752490742 0.813853703 rs782584:55921116:C:G
ENSG00000138035
2:55922930-C-T:ENSG00000138035 0.363374684 0.039514306 0.828327833
0.732912465 0.760373793 0.813853703 2:55922930-C-T ENSG00000138035
rs2627769:55927288:G:C:ENSG00000138035 0.519923405 0.039514306
0.634291162 0.52264501 0.90539517 0.813853703
rs2627769:55927288:G:C ENSG00000138035
2:55928444-G-T:ENSG00000138035 0.525107551 0.039514306 0.618696386
0.558498626 0.9305498 0.813853703 2:55928444-G-T ENSG00000138035
rs1084525:ENSG00000138035 0.512944974 0.039514306 0.708429962
0.387628207 0.749667392 0.841430456 rs1084525 ENSG00000138035
rs2000415:38539844:G:A:ENSG00000185808 0.035322296 0.039514306
0.617060937 0.290136921 0.455878819 0.453831125
rs2000415:38539844:G:A ENSG00000185808
rs6586290:43415883:T:C:ENSG00000237232 0.035322296 0.571275414
0.683867068 0.756308082 0.173591669 0.813853703
rs6586290:43415883:T:C ENSG00000237232

rs469359:43416334:C:T:ENSG00000237232 0.035322296 0.607882402
0.853303291 0.751091602 0.774765425 0.813853703 rs469359:43416334:C:T
ENSG00000237232

rs6586291:43417417:G:T:ENSG00000237232 0.035322296 0.272806835
0.852758128 0.704759469 0.288162171 0.813853703
rs6586291:43417417:G:T ENSG00000237232

rs467618:43418579:T:C:ENSG00000237232 0.035322296 0.603890882
0.851622677 0.751091602 0.774765425 0.813853703 rs467618:43418579:T:C
ENSG00000237232

rs2187239:43420555:C:A:ENSG00000237232 0.035322296 0.240653097 0.83247031
0.69212661 0.328523647 0.813853703 rs2187239:43420555:C:A
ENSG00000237232

rs3074939:43422429:ACAGT:A:ENSG00000237232 0.035322296 0.590785513
0.845605705 0.751091602 0.784162464 0.813853703
rs3074939:43422429:ACAGT:A ENSG00000237232

rs469622:43423214:T:C:ENSG00000237232 0.035322296 0.189251465
0.828327833 0.670181625 0.340307796 0.813853703 rs469622:43423214:T:C
ENSG00000237232

rs8130883:43426260:A:G:ENSG00000237232 0.035322296 0.509235376
0.828327833 0.731916708 0.838427208 0.825642696
rs8130883:43426260:A:G ENSG00000237232

rs4919969:43426579:C:T:ENSG00000237232 0.035322296 0.066642396
0.766562582 0.611407088 0.438540244 0.818977027
rs4919969:43426579:C:T ENSG00000237232

rs8132937:ENSG00000237232 0.035322296 0.367821565 0.767163632
0.719332589 0.864250612 0.813853703 rs8132937 ENSG00000237232

rs987523:43427963:A:C:ENSG00000237232 0.035322296 0.039514306
0.560108139 0.580315256 0.512857075 0.813853703 rs987523:43427963:A:C
ENSG00000237232

rs7282789:ENSG00000237232 0.035322296 0.484305836 0.828327833
0.720321711 0.848727643 0.833818368 rs7282789 ENSG00000237232

rs7281176:43428378:A:G:ENSG00000237232 0.035322296 0.039514306
0.560108139 0.580315256 0.512857075 0.813853703
rs7281176:43428378:A:G ENSG00000237232

rs11405691:43429267:G:GT:ENSG00000237232 0.035322296 0.42813865
0.828327833 0.752110581 0.838427208 0.822016603
rs11405691:43429267:G:GT ENSG00000237232

rs1628526:43429434:G:A:ENSG00000237232 0.035322296 0.039514306
0.542268712 0.580315256 0.526407644 0.813853703
rs1628526:43429434:G:A ENSG00000237232

rs76434486:44487601:C:T:ENSG00000160200 0.605787723 0.039514306
0.568513848 0.491850645 0.683006713 0.382106273
rs76434486:44487601:C:T ENSG00000160200

rs114917457:45421081:A:G:ENSG00000160221 0.035322296 0.039514306
0.618696386 0.751091602 0.864454465 0.447199093
rs114917457:45421081:A:G ENSG00000160221

rs60407126:45424867:T:C:ENSG00000160221 0.035322296 0.265249339
0.745572892 0.663069216 0.550609082 0.464247637
rs60407126:45424867:T:C ENSG00000160221

rs3838123:45433031:CT:C:ENSG00000241945 0.035322296 0.651399716
0.651320451 0.558498626 0.218559406 0.619162849
rs3838123:45433031:CT:C ENSG00000241945

rs3788097:45433269:C:T:ENSG00000241945 0.035322296 0.696563739
0.642599458 0.705838141 0.279727316 0.785329549
rs3788097:45433269:C:T ENSG00000241945
rs4819366:45433468:G:A:ENSG00000160221 0.035322296 0.627222552
0.398350929 0.276782326 0.069942274 0.108665807
rs4819366:45433468:G:A ENSG00000160221
rs2838466:45435187:A:T:ENSG00000160221 0.035322296 0.651399716 0.42239248
0.276782326 0.069942274 0.108665807 rs2838466:45435187:A:T
ENSG00000160221
rs2838467:45436355:G:A:ENSG00000241945 0.035322296 0.651399716
0.619854485 0.549689754 0.173591669 0.586168441
rs2838467:45436355:G:A ENSG00000241945
rs2838468:45437074:G:C:ENSG00000160221 0.035322296 0.663854097 0.42239248
0.414104514 0.069942274 0.108665807 rs2838468:45437074:G:C
ENSG00000160221
rs60369997:45438024:CT:C:ENSG00000160221 0.035322296 0.664230643
0.42239248 0.419678998 0.069942274 0.108665807
rs60369997:45438024:CT:C ENSG00000160221
rs58479261:45438251:CT:C:ENSG00000160221 0.035322296 0.272806835
0.745572892 0.662029528 0.550609082 0.464247637
rs58479261:45438251:CT:C ENSG00000160221
rs9974165:45438432:T:C:ENSG00000241945 0.035322296 0.661628136
0.690411919 0.621489118 0.218559406 0.774345221
rs9974165:45438432:T:C ENSG00000241945
rs2299812:45438890:C:T:ENSG00000241945 0.035322296 0.661628136
0.690411919 0.621489118 0.218559406 0.774345221
rs2299812:45438890:C:T ENSG00000241945
rs2299813:45439053:T:G:ENSG00000241945 0.035322296 0.661628136
0.690411919 0.621489118 0.218559406 0.774345221
rs2299813:45439053:T:G ENSG00000241945
rs2299815:45439812:T:A:ENSG00000241945 0.035322296 0.661628136
0.690411919 0.621489118 0.218559406 0.774345221
rs2299815:45439812:T:A ENSG00000241945
rs4818878:45443290:C:T:ENSG00000160221 0.035322296 0.651399716 0.42239248
0.276782326 0.069942274 0.108665807 rs4818878:45443290:C:T
ENSG00000160221
rs2276530:45444829:C:G:ENSG00000160221 0.035322296 0.638346134
0.470302738 0.276782326 0.069942274 0.225997306
rs2276530:45444829:C:G ENSG00000160221
rs2256392:45446504:T:C:ENSG00000160221 0.035322296 0.634930259
0.485354668 0.276782326 0.069942274 0.108665807
rs2256392:45446504:T:C ENSG00000160221
rs2256441:45446589:G:A:ENSG00000160221 0.035322296 0.634930259
0.485354668 0.276782326 0.069942274 0.108665807
rs2256441:45446589:G:A ENSG00000160221
rs2238704:45448138:T:C:ENSG00000160221 0.035322296 0.651399716 0.42239248
0.276782326 0.069942274 0.108665807 rs2238704:45448138:T:C
ENSG00000160221
rs2238706:45448595:A:C:ENSG00000160221 0.035322296 0.634930259
0.485354668 0.276782326 0.069942274 0.108665807
rs2238706:45448595:A:C ENSG00000160221
rs2238707:45448793:T:C:ENSG00000160221 0.035322296 0.651399716 0.42239248
0.276782326 0.069942274 0.108665807 rs2238707:45448793:T:C
ENSG00000160221

rs2238709:45449218:A:C:ENSG00000241945 0.035322296 0.661628136
0.691910845 0.621111272 0.237095457 0.775020218
rs2238709:45449218:A:C ENSG00000241945
rs2838471:45449845:A:G:ENSG00000160221 0.035322296 0.621180076
0.360243455 0.165229468 0.069942274 0.108665807
rs2838471:45449845:A:G ENSG00000160221
rs2838472:45450717:C:T:ENSG00000160221 0.035322296 0.621180076
0.360243455 0.165229468 0.069942274 0.108665807
rs2838472:45450717:C:T ENSG00000160221
rs8126754:45450869:G:A:ENSG00000160221 0.035322296 0.658405986
0.360243455 0.36680942 0.069942274 0.108665807
rs8126754:45450869:G:A ENSG00000160221
rs2238710:45453616:C:T:ENSG00000241945 0.035322296 0.651399716 0.65244831
0.757384683 0.690981753 0.813853703 rs2238710:45453616:C:T
ENSG00000241945
rs2238711:45453956:A:G:ENSG00000241945 0.035322296 0.651399716
0.634291162 0.558498626 0.173591669 0.614118716
rs2238711:45453956:A:G ENSG00000241945
rs2238712:45454778:A:G:ENSG00000241945 0.035322296 0.690185039 0.65418952
0.714638955 0.614364441 0.775020218 rs2238712:45454778:A:G
ENSG00000241945
rs2247400:45456458:C:T:ENSG00000160221 0.035322296 0.40461139
0.090437058 0.072575018 0.069942274 0.063994875
rs2247400:45456458:C:T ENSG00000160221
rs729882:45457300:C:G:ENSG00000160221 0.035322296 0.665537052 0.42239248
0.414104514 0.069942274 0.108665807 rs729882:45457300:C:G
ENSG00000160221
rs56218303:45460697:A:G:ENSG00000160221 0.035322296 0.110495165
0.579532834 0.653716589 0.403448628 0.382106273
rs56218303:45460697:A:G ENSG00000160221
rs9982663:45464898:C:T:ENSG00000160221 0.035322296 0.603890882 0.42239248
0.165229468 0.069942274 0.108665807 rs9982663:45464898:C:T
ENSG00000160221
rs7279727:45465860:G:A:ENSG00000241945 0.035322296 0.693773499
0.655792554 0.660057498 0.690981753 0.674365303
rs7279727:45465860:G:A ENSG00000241945
rs2277805:45494183:G:A:ENSG00000160221 0.487561869 0.039514306
0.090437058 0.123210094 0.54593522 0.108665807
rs2277805:45494183:G:A ENSG00000160221
rs2000469:24245292:A:G:ENSG00000272787 0.268135474 0.039514306
0.090437058 0.442167795 0.069942274 0.457928806
rs2000469:24245292:A:G ENSG00000272787
rs4822451:ENSG00000272787 0.349088436 0.039514306 0.542268712
0.491850645 0.069942274 0.282646046 rs4822451 ENSG00000272787
rs4822451:ENSG00000273295 0.564612602 0.039514306 0.121437838
0.558498626 0.311775972 0.319318857 rs4822451 ENSG00000273295
rs2330635:24251344:T:C:ENSG00000272787 0.035322296 0.039514306
0.184980376 0.290136921 0.069942274 0.063994875
rs2330635:24251344:T:C ENSG00000272787
rs2330635:24251344:T:C:ENSG00000273295 0.515908395 0.039514306
0.466752146 0.751091602 0.355219989 0.319318857
rs2330635:24251344:T:C ENSG00000273295

rs2154594:24254055:C:T:ENSG00000273295 0.523334588 0.039514306
0.568513848 0.751091602 0.525520858 0.471730191
rs2154594:24254055:C:T ENSG00000273295
rs2186366:ENSG00000272787 0.081933656 0.039514306 0.184980376
0.333474506 0.069942274 0.201281701 rs2186366 ENSG00000272787
rs116096195:39522791:C:G:ENSG00000209482 0.556070492 0.039514306
0.618696386 0.072575018 0.574209974 0.72816107
rs116096195:39522791:C:G ENSG00000209482
rs6001451:39533012:G:T:ENSG00000209482 0.584874096 0.039514306
0.492105461 0.072575018 0.840433638 0.813853703
rs6001451:39533012:G:T ENSG00000209482
rs6001452:39536745:C:T:ENSG00000209482 0.528486083 0.039514306
0.568513848 0.072575018 0.455878819 0.740076738
rs6001452:39536745:C:T ENSG00000209482
22:39538969:T:C:ENSG00000209482 0.528851151 0.039514306 0.568513848
0.072575018 0.455878819 0.738263203 22:39538969:T:C ENSG00000209482
rs79092618:39541398:G:A:ENSG00000209482 0.582267342 0.039514306
0.466752146 0.072575018 0.835731578 0.813853703
rs79092618:39541398:G:A ENSG00000209482
rs192777317:39541721:C:G:ENSG00000209482 0.582488913 0.039514306
0.466752146 0.072575018 0.839071584 0.813853703
rs192777317:39541721:C:G ENSG00000209482
rs114941660:39557691:C:T:ENSG00000209482 0.527236261 0.039514306
0.594989053 0.072575018 0.498016841 0.753627885
rs114941660:39557691:C:T ENSG00000209482
rs9628166:50288611:G:A:ENSG00000182858 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs9628166:50288611:G:A ENSG00000182858
rs7285892:50291435:C:G:ENSG00000182858 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs7285892:50291435:C:G ENSG00000182858
rs4078978:ENSG00000221823 0.035322296 0.039514306 0.809082901
0.589583216 0.641673925 0.814013767 rs4078978 ENSG00000221823
rs77413521:68368278:A:G:ENSG00000221823 0.035322296 0.039514306
0.828327833 0.601101423 0.690981753 0.813853703
rs77413521:68368278:A:G ENSG00000221823
rs77735628:68378367:C:A:ENSG00000221823 0.035322296 0.039514306
0.828327833 0.593810582 0.690981753 0.813853703
rs77735628:68378367:C:A ENSG00000221823
rs17035043:68380184:C:G:ENSG00000221823 0.035322296 0.039514306
0.828327833 0.558498626 0.580298595 0.813853703
rs17035043:68380184:C:G ENSG00000221823
rs79883557:68383901:C:T:ENSG00000221823 0.035322296 0.039514306
0.828327833 0.558498626 0.629639249 0.813853703
rs79883557:68383901:C:T ENSG00000221823
rs76996709:68396495:A:C:ENSG00000221823 0.060909118 0.039514306
0.823177523 0.558498626 0.690981753 0.842355515
rs76996709:68396495:A:C ENSG00000221823
rs11676702:68410587:T:C:ENSG00000221823 0.035322296 0.039514306
0.812077641 0.524793443 0.647818531 0.83880684
rs11676702:68410587:T:C ENSG00000221823
rs76476469:68419127:G:A:ENSG00000221823 0.035322296 0.039514306
0.796832314 0.491850645 0.585329409 0.838472125
rs76476469:68419127:G:A ENSG00000221823

rs116211567:68425404:T:C:ENSG00000221823 0.035322296 0.039514306
0.812077641 0.492233123 0.595947504 0.839791486
rs116211567:68425404:T:C ENSG00000221823
rs80050140:68428541:C:T:ENSG00000221823 0.035322296 0.039514306
0.819328396 0.509242766 0.629639249 0.839299714
rs80050140:68428541:C:T ENSG00000221823
rs150805391:68436004:G:A:ENSG00000221823 0.035322296 0.039514306
0.818979265 0.52264501 0.650850274 0.840382108
rs150805391:68436004:G:A ENSG00000221823
rs75483778:68437802:A:G:ENSG00000221823 0.035322296 0.039514306
0.798594848 0.519043541 0.635943247 0.840382108
rs75483778:68437802:A:G ENSG00000221823
rs77412649:68440105:A:G:ENSG00000221823 0.035322296 0.039514306
0.803318767 0.491850645 0.54593522 0.839791486
rs77412649:68440105:A:G ENSG00000221823
rs77099646:68440779:C:T:ENSG00000221823 0.035322296 0.039514306
0.818604668 0.520505218 0.636822477 0.840209939
rs77099646:68440779:C:T ENSG00000221823
rs74577030:68445889:C:G:ENSG00000221823 0.035322296 0.039514306
0.818604668 0.520505218 0.636822477 0.840209939
rs74577030:68445889:C:G ENSG00000221823
2:68447156:T:TA:ENSG00000221823 0.035322296 0.039514306 0.818604668
0.520505218 0.636822477 0.840209939 2:68447156:T:TA ENSG00000221823
rs77227574:68455362:T:C:ENSG00000221823 0.035322296 0.039514306
0.806718901 0.491850645 0.559581427 0.84232591
rs77227574:68455362:T:C ENSG00000221823
rs80076253:68457046:A:G:ENSG00000221823 0.035322296 0.039514306
0.764690605 0.447551187 0.493250562 0.835748811
rs80076253:68457046:A:G ENSG00000221823
rs78665953:68468287:C:T:ENSG00000221823 0.035322296 0.039514306
0.720006217 0.390584104 0.403448628 0.837651503
rs78665953:68468287:C:T ENSG00000221823
rs148916743:68477949:A:AC:ENSG00000221823 0.035322296 0.039514306
0.757967988 0.385352708 0.388754065 0.842114526
rs148916743:68477949:A:AC ENSG00000221823
rs72901491:ENSG00000196975 0.035322296 0.637435282 0.560108139
0.706630618 0.688090257 0.140342165 rs72901491 ENSG00000196975
rs72901501:69954428:C:T:ENSG00000196975 0.035322296 0.422190018
0.324917292 0.730273051 0.574209974 0.319318857
rs72901501:69954428:C:T ENSG00000196975
rs73935682:69955214:A:G:ENSG00000196975 0.035322296 0.597037291
0.593231314 0.693177798 0.690981753 0.447199093
rs73935682:69955214:A:G ENSG00000196975
rs59451097:69955520:C:T:ENSG00000196975 0.035322296 0.600158632
0.419451892 0.716285682 0.746195972 0.358316132
rs59451097:69955520:C:T ENSG00000196975
rs78376655:69956334:C:A:ENSG00000196975 0.035322296 0.61756659
0.617060937 0.701179176 0.7140776 0.468334324
rs78376655:69956334:C:A ENSG00000196975
rs77740778:69956386:T:C:ENSG00000196975 0.035322296 0.599639892
0.592067279 0.678782234 0.690981753 0.441545027
rs77740778:69956386:T:C ENSG00000196975

rs149599981:69956405:CA:C:ENSG00000196975 0.035322296 0.596705968
0.48190184 0.709051726 0.74808171 0.431187426
rs149599981:69956405:CA:C ENSG00000196975
rs148456893:69956895:A:ATTAAAG:ENSG00000196975 0.035322296
0.573615857 0.370396184 0.709051726 0.714300296 0.225997306
rs148456893:69956895:A:ATTAAAG ENSG00000196975
rs79199854:69957206:A:T:ENSG00000196975 0.035322296 0.590785513
0.429802874 0.7025349 0.731951824 0.382106273
rs79199854:69957206:A:T ENSG00000196975
rs74908112:69957325:A:C:ENSG00000196975 0.035322296 0.607882402
0.605977561 0.701179176 0.694942942 0.457928806
rs74908112:69957325:A:C ENSG00000196975
rs116707357:69957613:G:A:ENSG00000196975 0.035322296 0.608740409
0.618696386 0.69625478 0.714734306 0.510329036
rs116707357:69957613:G:A ENSG00000196975
rs73935683:69957995:C:T:ENSG00000196975 0.035322296 0.651399716
0.685268659 0.731347216 0.837812565 0.631825967
rs73935683:69957995:C:T ENSG00000196975
rs73935684:69958664:G:A:ENSG00000196975 0.035322296 0.611028519
0.618696386 0.701179176 0.72290993 0.469127215
rs73935684:69958664:G:A ENSG00000196975
rs111596731:69959194:A:ACTC:ENSG00000196975 0.035322296 0.555252837
0.466752146 0.699249305 0.73787295 0.545172079
rs111596731:69959194:A:ACTC ENSG00000196975
rs73935685:69961199:G:T:ENSG00000196975 0.035322296 0.597037291
0.593231314 0.692903411 0.690981753 0.447199093
rs73935685:69961199:G:T ENSG00000196975
rs139026162:69964099:AATTTT:A:ENSG00000196975 0.035322296 0.597037291
0.593231314 0.692903411 0.690981753 0.447199093
rs139026162:69964099:AATTTT:A ENSG00000196975
rs116521792:69965891:G:T:ENSG00000196975 0.035322296 0.611028519
0.618696386 0.701179176 0.72290993 0.469127215
rs116521792:69965891:G:T ENSG00000196975
rs115970053:69965963:C:T:ENSG00000196975 0.035322296 0.57161313
0.568513848 0.676517018 0.704734536 0.447199093
rs115970053:69965963:C:T ENSG00000196975
rs79921370:69970649:G:A:ENSG00000196975 0.035322296 0.651399716 0.6569085
0.730273051 0.804199657 0.571826948 rs79921370:69970649:G:A
ENSG00000196975
rs73935689:69972338:C:A:ENSG00000196975 0.035322296 0.57709595
0.584308021 0.678140685 0.688090257 0.460921055
rs73935689:69972338:C:A ENSG00000196975
rs55901770:69974078:C:A:ENSG00000196975 0.035322296 0.592406993
0.597182664 0.678782234 0.690981753 0.464247637
rs55901770:69974078:C:A ENSG00000196975
rs13018652:86375470:A:G:ENSG00000273080 0.035322296 0.697692788
0.269469279 0.459055393 0.9305498 0.464247637
rs13018652:86375470:A:G ENSG00000273080
rs62150072:86394290:C:T:ENSG00000273080 0.464690917 0.039514306
0.054815691 0.276782326 0.069942274 0.063994875
rs62150072:86394290:C:T ENSG00000273080
rs2288114:86398206:C:T:ENSG00000273080 0.464133132 0.039514306
0.054815691 0.276782326 0.069942274 0.063994875
rs2288114:86398206:C:T ENSG00000273080

rs12475126:86421332:G:A:ENSG00000273080 0.41264224 0.039514306
0.054815691 0.123210094 0.069942274 0.063994875
rs12475126:86421332:G:A ENSG00000273080
JHU_2.87082678:ENSG00000183281 0.035322296 0.66742798 0.238368074
0.63969334 0.882854595 0.740998143 JHU_2.87082678 ENSG00000183281
JHU_2.87087811:ENSG00000183281 0.035322296 0.570701598 0.71850039
0.751091602 0.9305498 0.813853703 JHU_2.87087811 ENSG00000183281
rs11688548:98167134:G:C:ENSG00000196912 0.035322296 0.700769429
0.297111757 0.385352708 0.9305498 0.776319597
rs11688548:98167134:G:C ENSG00000196912
rs12998184:98169742:A:C:ENSG00000196912 0.035322296 0.700769429
0.222302049 0.37163762 0.9305498 0.75609486
rs12998184:98169742:A:C ENSG00000196912
rs12993250:98175712:C:T:ENSG00000196912 0.035322296 0.698760559
0.324917292 0.395341642 0.9305498 0.779852454
rs12993250:98175712:C:T ENSG00000196912
rs11681640:98177124:T:G:ENSG00000196912 0.035322296 0.699867874
0.297111757 0.379688866 0.9305498 0.776319597
rs11681640:98177124:T:G ENSG00000196912
rs4086889:98184234:C:A:ENSG00000196912 0.035322296 0.680193701
0.238368074 0.165229468 0.574209974 0.491393172
rs4086889:98184234:C:A ENSG00000196912
rs13027550:98188646:G:A:ENSG00000196912 0.035322296 0.698760559
0.255451763 0.379688866 0.9305498 0.758762279
rs13027550:98188646:G:A ENSG00000196912
rs9679339:98189508:T:C:ENSG00000196912 0.035322296 0.69822324
0.351078567 0.408307051 0.9305498 0.773208495
rs9679339:98189508:T:C ENSG00000196912
rs200863691:98191241:A:G:ENSG00000196912 0.035322296 0.69822324
0.351078567 0.408307051 0.9305498 0.773208495
rs200863691:98191241:A:G ENSG00000196912
rs6721032:103332511:G:A:ENSG00000135953 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs6721032:103332511:G:A ENSG00000135953
rs147365389:103333660:T:G:ENSG00000135953 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs147365389:103333660:T:G ENSG00000135953
rs111362163:103339733:A:T:ENSG00000135953 0.035322296 0.039514306
0.054815691 0.072575018 0.069942274 0.063994875
rs111362163:103339733:A:T ENSG00000135953
exm220234:ENSG00000198142 0.271758927 0.039514306 0.054815691
0.301206855 0.069942274 0.501122218 exm220234 ENSG00000198142
rs7421852:113990261:G:A:ENSG00000125618 0.175415731 0.039514306
0.165546404 0.66652992 0.504458419 0.491393172
rs7421852:113990261:G:A ENSG00000125618
rs10206269:113990393:C:A:ENSG00000125618 0.175415731 0.039514306
0.14398786 0.664350164 0.493250562 0.4815871
rs10206269:113990393:C:A ENSG00000125618
rs56703235:120423530:C:G:ENSG00000144120 0.035322296 0.451714699
0.5960947 0.608765679 0.832782751 0.358316132
rs56703235:120423530:C:G ENSG00000144120
rs11358505:120427014:CA:C:ENSG00000144120 0.035322296 0.12731097
0.054815691 0.463396258 0.603710229 0.713958104
rs11358505:120427014:CA:C ENSG00000144120

rs6754531:120431274:C:T:ENSG00000144120 0.035322296 0.272806835
0.360243455 0.539448558 0.789409778 0.374953256
rs6754531:120431274:C:T ENSG00000144120
rs72965093:120432159:A:T:ENSG00000144120 0.035322296 0.272806835
0.360243455 0.549689754 0.800338944 0.382106273
rs72965093:120432159:A:T ENSG00000144120
rs73948943:120432619:A:G:ENSG00000144120 0.035322296 0.33968813
0.411358711 0.558498626 0.837812565 0.423659401
rs73948943:120432619:A:G ENSG00000144120
rs11895880:ENSG00000144120 0.035322296 0.174910011 0.165546404
0.491850645 0.589126514 0.590052663 rs11895880 ENSG00000144120
exm223737:ENSG00000144120 0.035322296 0.089622533 0.054815691
0.472415297 0.644255189 0.731384436 exm223737 ENSG00000144120
rs1983406:120439230:C:G:ENSG00000144120 0.035322296 0.257351931
0.121437838 0.492233123 0.690981753 0.761962752
rs1983406:120439230:C:G ENSG00000144120
rs2280510:120439841:C:T:ENSG00000144120 0.035322296 0.145249232
0.054815691 0.486971863 0.629639249 0.691293333
rs2280510:120439841:C:T ENSG00000144120
2:128174054-G-A:ENSG00000236682 0.035322296 0.42180657 0.759245271
0.549689754 0.690981753 0.813853703 2:128174054-G-A ENSG00000236682
rs2069913:128178259:C:G:ENSG00000236682 0.035322296 0.668532818
0.568513848 0.76780829 0.580298595 0.739943978
rs2069913:128178259:C:G ENSG00000236682
rs2069914:128178272:G:A:ENSG00000236682 0.035322296 0.695446627
0.618696386 0.781060792 0.690981753 0.813853703
rs2069914:128178272:G:A ENSG00000236682
rs1880989:132186822:G:A:ENSG00000152117 0.035322296 0.661628136
0.756966764 0.647697296 0.942757737 0.813853703
rs1880989:132186822:G:A ENSG00000152117
rs2007666:132187644:G:T:ENSG00000152117 0.035322296 0.661628136
0.760415187 0.653716589 0.948389912 0.813853703
rs2007666:132187644:G:T ENSG00000152117
rs58765639:132202559:T:C:ENSG00000152117 0.035322296 0.461224231
0.828327833 0.606736417 0.9305498 0.813853703
rs58765639:132202559:T:C ENSG00000152117
rs7590173:132216315:G:T:ENSG00000152117 0.035322296 0.624238809
0.828327833 0.676517018 0.9305498 0.828182106
rs7590173:132216315:G:T ENSG00000152117
rs7600711:132216395:C:T:ENSG00000152117 0.035322296 0.451714699
0.454299825 0.509242766 0.920590777 0.664807456
rs7600711:132216395:C:T ENSG00000152117