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(54) Title: METHOD FOR PREDICTING RISK OF DEVELOPING CANCER

(57) Abstract: A method for predicting the risk in a subject of developing cancer, the method comprising: a) assessing in a sample of genomic DNA from said subject the methylation status of one or more genes selected from a target gene of NIPP1, MSX1 or NANOG, a polycomb group target gene (PCGT) or a gene with an AACTTT promoter motif; and b) predicting the subject's risk of developing cancer based on said methylation status.



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METHOD FOR PREDICTING RISK OF DEVELOPING CANCER

Field of the Invention

The invention relates to predicting the risk in a subject of developing cancer, in particular breast cancer. The invention also relates to the selection of subjects suitable for prophylactic treatment of cancer.

Background to the Invention

Use of more accurate methods for predicting an individual's risk of developing cancer can lead to advances in cancer management and patient survival by enabling the selection of patients that would most benefit from preventative treatment and ultimately enhancing the potential for survival.

Breast cancer is the most common cancer affecting at least 1 in 10 women in the western world. Predicting the risk and offering preventive measures has been demonstrated to be an effective intervention in women with an inherited breast cancer predisposition. In particular, in screening programs clinicians currently use guidelines that recommend the identification of carriers of BRCA1 and BRCA2 mutations, which confer very high risks of breast cancer and ovarian cancer. However, BRCA1/2 mutations only account for approximately 10% of breast cancers. About 90% of breast cancers are sporadic and only about 10% inherited. Predicting the likelihood of developing breast cancer is therefore particularly important for women who have no particular family history of the condition.

Many traditional risk factors have been defined for breast cancer, for example age, geographic location, previous breast cancer, previous benign breast disease and reproductive history. Other factors such as diet, alcohol consumption, socioeconomic group and family history can also be considered. While modification of personal habits, reproductive considerations, and behavior can reduce risk, the benefits are modest and certainly offer no guarantees.

Genetic risk factors have also been investigated. Single-nucleotide polymorphisms (SNPs) have been shown to be associated with cancer in genome wide

association studies but confer only small increases in risk. In particular, the inclusion of newly discovered genetic factors only modestly improves the performance of existing risk models for breast cancer. In risk models for predicting cancer, a receiver-operating-characteristic (ROC) curve analysis is often used, in which the area under the curve (AUC) is assessed. Each point on the ROC curve shows the effect of a rule for turning a risk estimate into a prediction of the development of cancer in an individual. The AUC measures how well the model discriminates between case subjects and control subjects. An ROC curve that corresponds to a random classification of case subjects and control subjects is a straight line with an AUC of 50%. An ROC curve that corresponds to perfect classification has an AUC of 100%. Epidemiological models that also include risk associated SNPs for the prediction of breast cancer in an individual have been shown to yield a ROC AUC of only 62%, a modest 4% improvement over the AUC of epidemiological models.

Predicting the prospective risk of cancer, in particular breast cancer, is therefore still a very challenging problem.

Summary of the Invention

The present inventors have found that assessment of a healthy individual's DNA methylation profile up to several years in advance of any subsequent diagnosis of cancer has the potential to predict that individual's risk of developing cancer. In particular, the inventors have identified an aberrant DNA methylation profile in genes encoding developmental transcription factors required for the differentiation of stem or progenitor cells, as well as target genes of transcription factors that are involved in stem or progenitor cell differentiation, in individuals predisposed to cancer. Thus, aberrant DNA methylation profiles are seen in genes that are required for the differentiation of stem or progenitor cells. The genes in which aberrant methylation has been identified by the inventors include target genes of Nuclear Inhibitor of Protein Phosphatase-1 (NIPP1), Msh homeobox 1 (MSX1) or NANOG, Polycomb-group target genes (PCGTs) and genes with an AACTTT promoter motif.

Although DNA methylation profiles of patients who have already developed cancer are characterised by aberrant DNA methylation, the present inventors have analysed an individual's DNA methylation status several years in advance of any diagnosis of cancer. A statistical analysis of the DNA methylation status in samples
5 from initially healthy individuals and later samples from the same individuals, has revealed that target genes of NIPPI1, MSX1 or NANOG, Polycomb-group target genes (PCGTs) and/or genes with an AACTTT promoter motif can show a methylation profile that indicates a predisposition to developing cancer, such as breast cancer. Such aberrant DNA methylation profiles can be seen in advance of any signs or
10 clinical symptoms of cancer.

In addition, the present invention offers an advance indication of the risk of an individual dying from cancer, particularly breast cancer. This is the first time that a specific test performed on healthy individuals is not only indicative of the risk to
15 develop cancer, but also the risk of whether an individual is more likely to die from the disease. These findings open up an entirely new window of opportunity for assessing the risk of a common cancer such as breast cancer: to date strategies to early detect breast cancer have been hampered by detection of abnormalities that would not become clinically relevant over a lifetime, i.e. are over-diagnosed. These over-
20 diagnosed cancers cause huge anxiety, unnecessary treatment and are a major burden to the health system. Hence, a test which is able to indicate, up to five years in advance, the risk of developing a deadly cancer, is a significant and beneficial development.

25 Accordingly, the present invention provides a method for predicting the risk in a subject of developing cancer, the method comprising:

- a) assessing in a sample of genomic DNA from said subject the methylation status of one or more genes selected from a target gene of NIPPI1, MSX1 or NANOG, a polycomb group target gene (PCGT) or a
30 gene with an AACTTT promoter motif; and;

- b) predicting the subject's risk of developing cancer based on said methylation status.

The invention further provides a method for selecting a subject suitable for preventative treatment of cancer, the method comprising:

- 5 a) predicting the subject's risk of developing cancer as described above; and
- b) selecting a subject for preventative treatment of cancer based on the level of risk predicted

10 **Brief Description of the Figures**

Figure 1 outlines the study design and identification/validation of DNA methylation breast cancer risk profile. (A) Flowchart depicting strategy used to derive and validate a serum DNA methylation based risk predictor of breast cancer. (B) Histogram of P-values derived in discovery set. (C) FDR estimation using q-value
15 procedure: for each number of top ranked CpGs declared positive (x-axis) we plot the expected number of false positives (y-axis). (D) Mean ROC curve, AUC and 95%CI for the 100 elastic net (ELNET) classifiers trained in the discovery set. (E) Penalty parameter ($\log(\lambda)$ x-axis) estimation using internal cross-validation procedure in the elastic net. y-axis denotes error as a function of penalty parameter. Number of
20 CpGs in classifier at each parameter value given on top axis. (F) ROC curve, AUC and 95%CI of the ensemble ELNET classifier in the validation set. (G) ROC curve, AUC and 95%CI of an ELNET classifier trained on whole discovery set in the validation set. Dashed green line denotes the line of AUC=0.5.

Figure 2 shows a Gene Set Enrichment Analysis (GSEA) of breast cancer risk signature. (A) GSEA of genes significantly hypermethylated in prospective
25 cases. Enriched gene categories are sorted in a network according to their P-values of enrichment (dark to light shading indicates decreasing levels of significance). Edges between gene categories reflect significant overlap in the corresponding gene sets (as measured by Jaccard coefficient). Dark shading to light shading indicate decreasing
30 levels of gene overlap. * Pujana *BRCA1* network is specially highly ranked when

considering samples from prospective cases well before diagnosis. (B) Heatmap of normalised methylation values (dark shading=relative high methylation, lighter shading=relative low methylation) in the discovery set and across the top 1000 cancer-risk CpGs. CpGs and samples have been clustered using hierarchical clustering and a Pearson correlation metric. The shaded bars denote the two main clusters (lighter bar on the left, darker bar on the right) and if sample is a case (black) or control (white). Distribution of cases/controls is given and associated P-value is that of a Fisher-test. Right panel shows the enrichment of stem-cell related gene sets among CpGs hypermethylated in cases relative to controls. Dashed line separates hypermethylated from hypomethylated CpGs.

Figure 3 show a comparison of DNA methylation signature in cases diagnosed early and late after sample collection. (A) Comparison of P-value histograms from the supervised multivariate regression analysis of methylation beta values against case control status, using 50 cases who were diagnosed early (<1.5 years since sample draw) (top left panel), and separately, using 50 cases who were diagnosed late (>2.5 years after sample draw). (B) Left panel plots the t-statistics from the top 500 risk CpGs as derived from a multivariate regression using early diagnosed cases vs controls (x-axis) against their corresponding t-statistics using cases who were diagnosed later (defined as in panel A) (y-axis). Right panel shows the same plot but selecting the top 500 risk CpGs using cases who were diagnosed later. Dark dots (light dots) denotes significant hyper (hypo) methylated in cases of the first set. The number of CpGs broken up according to their hypermethylated and hypomethylated pattern in early and late diagnosed cases is given, together with the associated Fisher-test P-value.

Figure 4 shows a breast cancer risk signature in non-neoplastic and cancerous breast and in peripheral blood cells from cancer-free *BRCA1* mutation carriers. Boxplots show the average methylation levels of top cancer risk CpGs, hypermethylated (hyperM) and hypomethylated (hypoM) in prospective UKCTOCS cases. The number of samples/data points in each boxplot are given on the bottom axis. P-values are either from a linear regression (A) or from a Wilcoxon rank sum test (B).

Tables give the distribution of the top hypermethylated and hypomethylated cancer risk CpGs according to whether hypermethylated or hypomethylated in breast cancer tissue or the blood samples from *BRCA1* mutation carriers. P-value is from a Fisher-test. (A) Non-neoplastic breast tissue (N) (n=23) and ER positive invasive breast cancer samples (n=112) of different grade (G1, G2, G3). (B) Peripheral blood DNA samples of healthy *BRCA1* mutation carriers (mt-H) and age-matched healthy *BRCA1* wild type controls (wt-H).

Figure 5 is an enhanced version of Figure 2B, denoting information gained from at least 6 years of follow up since the sample was provided. Of the 180 women (134 in discovery and 48 in validation set) who developed breast cancer, 15 women died of breast cancer within six years after they provided the sample (indicated with additional vertical bars at the top of the discovery set).

Figure 6 shows a Kaplan Meier curve and likelihood ratio test pvalue derived from the data of Figure 5: women who demonstrated a stem cell hypermethylation profile had a higher chance of developing breast cancer 0.5 – 5 years after their sample was taken, but also demonstrated a substantially higher risk of dying from their breast cancer within 6 years.

Detailed Description of the Invention

Summary

The present invention relates to the assessment of a subject's DNA methylation status in target genes of NIPPI1, MSX1 or NANOG, polycomb group target genes (PCGT) and/or genes with an AACTTT promoter motif and the use of this methylation status to predict the risk of developing cancer in that subject. Preferably, said target genes of NIPPI1, MSX1 or NANOG, polycomb group target genes (PCGT) and/or genes with an AACTTT promoter motif are required for the differentiation of stem or progenitor cells.

Genes of interest

Typically, in the methods of the invention said one or more genes selected from target genes of NIPPI1, MSX1 or NANOG, polycomb group target genes (PCGT) and/or genes with an AACTTT promoter motif are involved in stem cell biology and/or the differentiation of stem cells. In particular, these genes may encode
5 developmental transcription factors needed for differentiation of stem cells, and/or are target genes of transcription factors that are involved in stem cell biology. Most preferably, said one or more genes are required for the differentiation of stem or progenitor cells, for example stem or progenitor cells in breast tissue. As such the genes of interest may be involved in the loss of pluripotency and proliferative potential
10 and the development of a more specialized cell type.

NIPPI1, Polycomb-group proteins, MSX1 and NANOG all suppress differentiation by occupying and suppressing certain sets of genes. NIPPI1 is a transcriptional repressor and contributes to the recruitment of the Polycomb Repressor Complex (PRC2). PCGTs are genes that are targeted by polycomb-group proteins
15 such as PRC1, PRC2 and PhoRC. Such Polycomb-group proteins act in a multiprotein complex to repress gene expression from the target gene, such as a target gene involved in differentiation of a stem cell. MSX1 is a transcriptional repressor involved in mammary development and breast cancer. NANOG is a transcriptional factor known to maintain pluripotency of stem cells.

20 Thus in one embodiment of the invention, the genes of interest are genes required for the differentiation of stem or progenitor cells, the expression of which is regulated by either NIPPI1, Polycomb-group proteins, MSX1 and/or NANOG. Most preferably, the genes of interest are genes required for the differentiation of stem or progenitor cells, the expression of which is regulated by Polycomb-group proteins.

25 Genes with an AACTTT promoter motif, are heavily enriched for developmental transcription factors. Thus, in another embodiment of the invention, the genes of interest are genes with an AACTTT promoter motif that encode transcription factors required for the differentiation of stem or progenitor cells, for example stem or progenitor cells in breast tissue.

In one embodiment of the invention, said one or more genes of interest are required for the differentiation of stem or progenitor cells and are selected from genes in Table 2 that are target genes of NIPPI1, MSX1, NANOG or polycomb group proteins (PCGTs) or genes with an AACTTT promoter motif. Most preferably, said
5 one or more genes selected from Table 2 are required for the differentiation of stem or progenitor cells in breast tissue.

Typically, the DNA methylation status is assessed in 1 or more, 3 or more, 5 or more, or 10 or genes selected from Table 2 that are target genes of NIPPI1, MSX1 or NANOG, polycomb group target genes (PCGT) or genes with an AACTTT promoter
10 motif. Preferably, the DNA methylation status of 1 or more, 3 or more or 5 or more PCGTs selected from Table 2 are assessed.

Sample of genomic DNA

In the methods of the invention, the sample of genomic DNA may be obtained
15 from any available source of tissue or cells isolated from the subject. This may include but is not limited to solid tissue samples, liquid tissue samples, biological fluids, aspirates, cells and cell fragments.

In particular, such samples may be isolated from blood, serum, plasma, peripheral blood cells, cerebrospinal fluid, urine, fine needle aspirate, saliva, sputum,
20 breast or other hormone dependent tissue, breast milk, bone marrow, skin, epithelia (including buccal, cervical or vaginal epithelia) or other tissue derived from the ectoderm. In some embodiments, the sample of genomic DNA comprises cells from a tissue that is involved in the type of cancer concerned. Most preferably, the sample of genomic DNA is isolated from breast or other hormone dependent tissue, serum,
25 peripheral blood cells, buccal epithelia, cervical epithelia or vaginal epithelia.

Methods for sample isolation and for the subsequent extraction and isolation of DNA from such cell or tissue samples in preparation for assessing DNA methylation, are well known to those skilled in the art. Any suitable methods may be used.

30 DNA methylation status

Typically, an assessment of DNA methylation status involves analysing the presence or absence of methyl groups in DNA, for example methyl groups on the 5 position of one or more cytosine nucleotides. Preferably, the methylation status of one or more cytosine nucleotides present as a CpG dinucleotide (where C stands for Cytosine, G for Guanine and p for the phosphate group linking the two) is assessed. Such “CpG sites” may occur in the promoter or regulatory regions of a gene of interest. Most typically, the methylation status of CpGs clustered in CpG islands is assessed, for example CpG islands present in the regulatory regions of genes, especially in their promoter regions.

A promoter is a nucleotide sequence, which initiates and regulates transcription of a polypeptide-encoding polynucleotide. As well as promoters the genes used in the methods of the present invention may comprise further regulatory regions comprising one or more cytosine residues. Typically, such further regulatory regions provide additional levels of transcription control, for example ensuring cell specific gene expression or expression under certain conditions. Further regulatory regions, such as enhancer elements, may be downstream or upstream of the gene of interest or of the promoter.

Thus, in the methods of the invention, the methylation of at least one, at least 2, at least 3, at least 5, at least 10 or at least 20 CpG sites is assessed in the regulatory region of one or more genes selected from target genes of NIPP1, MSX1 or NANOG, polycomb group target genes (PCGT) or genes with an AACTTT promoter motif. Preferably, said target genes of NIPP1, MSX1 or NANOG, polycomb group target genes (PCGT) or genes with an AACTTT promoter motif are selected from Table 2. In general, it will be sufficient to assess one CpG per gene, because the methylation status of one CpG in a CpG island tends to be representative of that of other CpGs in the island. However, multiple CpGs per gene can also be assessed.

The methods of the invention may involve an assessment of the methylation of CpG sites in the genes of interest identified in Table 2. Table 2 provides CpG loci identifiers under the column entitled “CpG”. These CpG loci identifiers refer to individual CpG sites used in the commercially available Illumina® Infinium Human

Methylation27 BeadChip kit. The identity of each CpG site represented by each CpG loci identifier is publicly available from the Illumina, Inc website under reference to the CpG sites used in the Infinium Human Methylation27 BeadChip kit. For example, the identity of each CpG site can be found under the link to

5 HumanMethylation27 270596 v.1.2.bpm (deposited 6 February 2008) at the following website:

<ftp://ftp.illumina.com/Methylation/InfiniumMethylation/HumanMethylation27/>.

Further information regarding CpG loci identification used in Illumina, Inc products is found in the technical note entitled "Technical Note: Epigenetics. CpG Loci Identification. A guide to Illumina's method for unambiguous CpG loci identification and tracking for the Golden Gate® and Infinium® Assay for Methylation" published

10 in 2010 and found at:

http://www.illumina.com/documents/products/technotes/technote_cpg_loci_identification.pdf.

15 As explained in this technical note, rather than using the evolving public databases to provide accurate CpG loci identifiers and strand orientation, Illumina has developed a method to consistently designate CpG loci based on the actual or contextual sequence of each individual CpG locus. To unambiguously refer to CpG loci in any species, Illumina® has developed a consistent and deterministic CpG loci

20 database to ensure uniformity in the reporting of methylation data. The Illumina® method takes advantage of sequences flanking a CpG locus to generate a unique CpG locus cluster ID. This number is based on sequence information only and is unaffected by genome version. Illumina's standardized nomenclature also parallels the TOP/BOT strand nomenclature (which indicates the strand orientation) commonly used for single

25 nucleotide polymorphism (SNP) designation.

Preferably, the methylation of at least one, at least 2, at least 3, at least 5, at least 10 or at least 20 CpG sites listed in Table 2 that exist in one or more genes selected from target genes of NIPP1, MSX1 or NANOG, polycomb group target genes (PCGT) or genes with an AACTTT promoter motif are assessed. Typically the

30 methylation of at least one, at least 2, at least 3, at least 5, at least 10 or at least 20 CpG

sites that are used in the Illumina® Infinium Human Methylation27 BeadChip kit and that are present in one or more genes selected from target genes of NIPPI1, MSX1 or NANOG, polycomb group target genes (PCGT) or genes with an AACTTT promoter motif are assessed.

5 The CpG sites in the promoters or regulatory regions of the genes of interest identified in Table 2 are typically unmethylated in samples from patients that are not at significant risk of developing cancer. On the contrary, the methylation of one or more CpG sites in the promoter or regulatory regions of these genes correlate with an increased risk of developing cancer. Thus, these subjects display hypermethylation.

10 Such aberrant hypermethylation can result in transcriptional silencing, for example by impeding the binding of transcriptional factors to the target gene or by recruitment of proteins such as methyl-CpG-binding domain proteins (MBDs). MBD proteins then recruit additional proteins to the locus, such as histone deacetylases and other chromatin remodeling proteins that can modify histones thereby forming
15 compact, inactive chromatin. As the genes in Table 2 selected from target genes of NIPPI1, MSX1 or NANOG, polycomb group target genes (PCGT) or genes with an AACTTT promoter motif are required for the differentiation of stem or progenitor cells, the aberrant hypermethylation can lead to the silencing of genes that are normally required for the differentiation of stem or progenitor cells and can thus
20 promote maintenance of a stem or progenitor cell state.

 Thus in one embodiment, the methods of the invention involve an assessment of hypermethylation of DNA, wherein hypermethylation is predictive of a risk of developing cancer, for example breast cancer. Preferably, hypermethylation refers to the methylation of at least one, at least two or at least three CpG sites in the promoter
25 or regulatory region of a gene of interest. Thus, typically methylation of one or more CpG sites in the promoter or regulatory region of at least 1, at least 2, at least 3 or at least 5 genes selected from Table 2 that are target genes of NIPPI1, MSX1 or NANOG, polycomb group target genes (PCGT) or genes with an AACTTT promoter motif, is predictive of a risk of developing breast cancer.

However, in certain embodiments, it may be a lack of methylation, i.e. hypomethylation, that is predictive of a risk of developing cancer. This is aberrant hypomethylation is less common than aberrant hypermethylation but is observed in some genes.

5 Methods of detecting DNA methylation are well known to those skilled in the art. For example, techniques including methylation specific polymerase chain reaction (PCR), use of antibodies to DNA methylation associated proteins, methylated DNA immunoprecipitation (MeDIP), or use of restriction enzymes specific to fully methylated or unmethylated sites may be used in the methods of the present invention.

10 In addition, commercial kits for detecting DNA methylation are widely available and may also be used. For example, commercially available kits such as the Illumina® methylation assay (e.g. Illumina® Infinium Human Methylation27 BeadChip kit), which allow the simultaneous analysis of the methylation status of multiple CpG sites arranged on a microarray or chip, may be used in the methods of
15 the invention.

 In one embodiment, the assessment of the methylation status of one or more genes of interest involves use of a microarray on which oligonucleotides comprising one or more CpG sites from a plurality of genes selected from Table 2 are bound. Typically, a plurality of oligonucleotides comprising one or more CpG sites from at
20 least 3, at least 5, at least 7 or at least 10 genes selected from Table 2 are bound to the microarray. Most typically, a plurality of oligonucleotides comprising one or more CpG sites from at least 5, at least 10, at least 15 or at least 20, at least 30, at least 40 or at least 50 genes selected from the PCGT genes in Table 2 are bound to the microarray.

25 In accordance with the methods of the invention, samples of genomic DNA isolated from a subject may be contacted with such microarrays in order to assess the DNA methylation status and thus to predict that subject's risk of developing cancer.

Predicting risk of developing cancer in a subject

Based on an assessment of the DNA methylation status of samples according to the methods of the invention, the risk of a subject developing cancer can be predicted. Preferably, the subject is a human subject, which is to say a female human subject in the case of breast cancer.

5 The methods of the invention may be used to predict the risk of developing any type of cancer, such as any type of sarcoma, carcinoma, lymphoma, leukaemia or blastoma. Reference to cancer is intended to cover hyperproliferative disorders such as tumours and neoplasms. Typically, the tumour or neoplasm is malignant (undergoing invasion or metastasis). In a preferred embodiment, the cancer is breast
10 cancer.

Typically, the risk of developing cancer, for example breast cancer is predicted in advance of the onset of signs or clinical symptoms of cancer, for example up to 2 years, up to 5 years or up to 10 years, or at least 2, 3, 4 or 5 years in advance of the onset of signs or clinical symptoms of cancer. The risk may be predicted in healthy
15 subjects that have never had cancer, subjects that have had at least one benign tumour and subjects that have had cancer but at the time of assessment are showing no signs or clinical symptoms of the disease. Thus, the methods of the invention may be used to predict the risk of recurrence of cancer as well as the risk of its occurrence for the first time.

20 Preferably, the risk of developing breast cancer is predicted based on the DNA methylation status of one or more CpG sites from at least 2, or at least 5, 10 or 20 genes selected from Table 2 that are target genes of NIPPI1, MSX1 or NANOG, polycomb group target genes (PCGT) or genes with an AACTTT promoter motif. Most preferably, this risk is predicted based on the DNA methylation status of at least
25 2, or at least 5, 10 or 20 PCGTs. Combinations of the above types of genes may also be tested.

The methods of the invention may be used to predict the risk of developing sporadic cancer. Alternatively, the methods of the invention can be used to predict the risk of onset of disease in hereditary cancer, i.e. in individuals already carrying a high-
30 risk genetic factor.

As well as an assessment of DNA methylation status, the prediction of risk of a subject developing cancer may be based on presence or absence of one or more genetic risk factors such as gene variants or single nucleotide polymorphisms (SNPs) associated with a risk of developing cancer.

5 Gene variants may include mutations in one or more oncogenes or tumor suppressor genes that are known to be associated with a predisposition to developing cancer. For example, in the case of predicting risk of developing breast cancer, an individual may be assessed for the presence of mutations in the BRCA1 and/or BRCA2 gene.

10 Alternatively or in addition to the use of SNPs alongside the methods of the invention, the prediction of risk of developing cancer may be based on the assessment of traditional risk factors of cancer. Traditional risk factors of breast cancer may include, but are not limited to age, geographic location, previous incidence of breast cancer, pre-existing non-cancer disease, previous benign breast disease, breast density
15 (e.g. on a mammogram) and reproductive history. Other factors such as diet, alcohol consumption, socioeconomic group and family history can also be considered.

 In the light of a subject's DNA methylation status together with the presence or absence of one or more genetic risk factors and/or the presence of one or more traditional risk factors, a prediction of the risk of the subject developing cancer can be
20 made.

 A subject may be categorised as being at low, medium or high risk of developing cancer based for example on the degree of hypermethylation (or, less commonly, hypomethylation, or both hypermethylation and hypomethylation) amongst the genes assessed - for example number of CpG sites per gene promoter or regulatory
25 region, and/or the number of genes that are hypermethylated (or hypomethylated, or both) - and the presence or absence of one or more genetic or traditional risk factors. A subject at risk of developing cancer refers to a subject that is predisposed to developing a particular type of cancer, including subjects in remission that are predisposed to develop recurrence of cancer.

For instance, in a subject showing no signs or clinical symptoms of the disease, the hypermethylation of several genes selected from target genes of NIPPI1, MSX1 or NANOG, polycomb group target genes (PCGT) or genes with an AACTTT promoter motif, together with either the presence of a mutation in BRCA1/2 associated with a risk of developing breast cancer, or a previous history of cancer, may indicate a high level risk of a subject developing breast cancer. A subject showing no or a low degree of hypermethylation of the genes assessed and with a low risk based on genetic or traditional risk factors for breast cancer, may indicate a low level risk of developing breast cancer.

In one embodiment, the level of risk identified may indicate a low, medium or high level of risk for developing cancer in the next 2 years, in the next 5 years or in the next 10 years following the assessment. The presence of one or more methylated CpG sites in at least 1, at least 2 or at least 5 genes selected from Table 2 that are target genes of NIPPI1, MSX1 or NANOG, polycomb group target genes (PCGT) or genes with an AACTTT promoter motif may increase the subject's risk of developing cancer by age 90 by up to 2%, up to 5%, up to 10% or up to 20%.

In preferred embodiments, the methods of the invention are used to predict the risk of the subject dying from said cancer.

20

Selecting patients for preventative treatment

The invention also provides a method for selecting a subject suitable for preventative treatment of cancer, for example breast cancer, comprising or essentially consisting of:

- 25 a) predicting the subject's risk of developing cancer according to the methods described herein; and
- b) selecting a subject for preventative treatment of cancer based on the level of risk predicted.

The invention can thus enable a screen amongst healthy subjects to identify those subjects at most risk of developing cancer. In the clinic, this can enable subjects

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suitable for preventative or prophylactic treatment to be selected based on the level of risk identified. Thus, in one embodiment, the subjects selected for preventative treatment show a medium or high risk of developing cancer. For example, an individual with medium risk may have a 20%, 30% or 40% risk of developing cancer by age 90. An individual with a high risk may have a 50%, 60%, 70%, 80% or 90% risk of developing cancer by age 90.

Preventative measures include any treatment for cancer that can completely prevent incidence of cancer or partially prevent cancer, for example such that the occurrence of pathological cells, severity of disease and/or prognosis is better than would have occurred without such treatment.

Such preventative treatment for cancer may include surgical intervention, increased screening programs and/or administration of a pharmaceutical drug.

In the case of breast cancer, surgical intervention may include mastectomy.

The pharmaceutical drug may include a small molecule drug, or biological drug such as a nucleic acid molecule or antibody suitable for the preventative treatment of cancer. For example, in the case of breast cancer an antihormone such as tamoxifen, raloxifen, aromatase inhibitor, GnRH analogs or antiprogesterin may be administered. Drugs that inhibit targets involved in the onset or development of cancer may alternatively, or additionally be used. For example small molecule inhibitors or antibodies against RANKL (e.g. Denosumab) can be used as preventative treatment for breast cancer.

Increased screening programs may be used in order to detect onset of the cancer earlier in subjects identified as being at risk of developing the disease. For example, in the case of breast cancer, screening programs may include use of mammography, ultrasound or magnetic resonance imaging (MRI).

The following Examples illustrate the invention. In these Examples the following general experimental techniques were employed:

Examples

UKCTOCS serum DNA samples

The serum samples in these Examples were drawn from the UK Collaborative Trial of Ovarian Cancer Screening (UKCTOCS). Having recruited 202,638 women between 2001-2005, this is one of the largest prospectively randomised clinical trials.

5 The trial aims to assess the impact of screening on mortality from ovarian cancer in a population with low genetic ovarian and breast cancer risk. Up to February 2009, a total of 2,629 women developed breast cancer after they have been recruited into UKCTOCS. In a nested prospective case control design we identified 382 healthy postmenopausal women (aged 50-75 years). Of these women 182 (mean age 62.26)

10 were cases as they developed ER-positive invasive breast cancer after their recruitment into the trial, were not on HRT treatment, and had donated a serum sample between 6 months and 5 years prior to diagnosis. The remaining 200 age-matched women (mean age 61.87) served as controls as they had neither previous history of breast cancer nor subsequent development of breast cancers by the last follow-up and were also not on

15 HRT.

Non-neoplastic breast and breast cancer tissue samples

We analyzed 23 non-neoplastic breast tissue (mean age 47.61; 12 fibroadenoma, 6 mastopathic and 5 normal breast samples) and 112 estrogen receptor

20 (ER) positive breast cancer samples with different grade (mean age 60.77) collected between February 1989 and August 2004.

Blood samples from BRCA1 mutation carriers and wild type controls

Whole blood samples were drawn from 15 healthy BRCA1 mutation carriers

25 (mean age 57.13) and 15 age-matched healthy females without a BRCA1 mutation (mean age 56.8, Wilcoxon test p-value=0.66). An additional independent set of blood samples were drawn from 7 healthy BRCA1 mutation carriers (mean age 30.43) and 42 healthy females without a BRCA1 mutation (mean age 43.57, Wilcoxon test p-value=0.016).

For BRCA1 mutation testing in DNA from whole blood, both BRCA1 mutation carriers and controls were tested for the presence of germ-line BRCA1 mutation, including large genomic rearrangements. Protein truncation test (PTT) was used as a prescreening method for exon 11 and direct sequencing was used as a
5 detection method for exons 2-10 and 12-24 (exons 1a and 1b are non-coding exons and are not analyzed in standard protocols). All the mutations detected were confirmed by direct sequencing using at least two different primers on original and re-sampled DNA. Multiplex ligation-dependent probe amplification (MLPA) was used to detect large genomic rearrangement. Long-range PCR, isolation of certain alleles and direct
10 sequencing were used to identify break-point of those rearrangements (Pohlreich *et al* 2005).

DNA methylation analysis

The DNA from 500 μ L serum was extracted at Tepnel (www.tepnel.com),
15 using Qiagen QiAamp Blood Mini Kit (51106). The overall average DNA concentration in all samples was 5.82 ng/ μ L, with the controls had a mean concentration of 5.59 ng/ μ L, whereas prospective cases had 6.07 ng/ μ L.

In principle, serum DNA represents a pool of DNA from various organs and tissues, and potentially may include DNA from preneoplastic cells. But if the serum
20 has not been spun down within 1-2 hours after the blood was taken, the dominant component of serum DNA however is likely to be blood cell DNA. To test this, we compared DNA methylation profiles, all obtained using Illumina's 27k Methylation beadchip, across various normal tissues, including serum DNA from our 282 samples (discovery set), whole blood samples from an independent set of 148 postmenopausal
25 healthy women [Teschendorff *et al* Genome Res (2010) Apr;20(4):440-6], whole blood samples from another independent set of 94 pre and postmenopausal women with type-1 diabetes [Teschendorff *et al* Genome Res (2010) Apr;20(4):440-6], 30 normal cervical smears [Teschendorff *et al* Genome Res (2010) Apr;20(4):440-6], 23 normal endometrial samples, and 23 non-neoplastic breast tissue samples. To
30 overcome unwanted inter-study variability and to allow objective comparison of β -

value methylation profiles across studies, we assigned methylation values to three states: unmethylated (0) if $\beta < 0.3$, hemimethylated (1) if $0.3 < \beta < 0.7$, and methylated (2) if $\beta > 0.7$. We verified that these thresholds were sensible choices for calling unmethylated (0) and methylated (2) loci given that the corresponding peaks were
5 located in all studies at less than 0.3 or more than 0.7 in the beta-scale. Nevertheless, to ensure that differences in methylation between samples from different studies were genuine and not caused by study-specific biases, we treated the hemimethylated state as a buffer zone, only counting CpGs as differentially methylated between two samples, if the corresponding β -values were less than 0.3 in one sample but larger than
10 0.7 in the other, or vice versa if greater than 0.7 in one sample and less than 0.3 in the other. This definition of a differentially methylated CpG naturally leads to a distance metric which counts the number of CpGs with an absolute difference in methylation state of 2 (i.e 0-2, or 2-0). Thus, for any given pair of tissue types we computed the average distance (i.e average number of differentially methylated CpGs) between the
15 samples in one tissue type and the samples of the other. This analysis showed that average serum DNA methylation profiles were much more similar to whole blood DNAm profiles, than to those of epithelial tissues (cervix, endometrium, breast) (data not shown). We can thus conclude that most of the DNA in our serum samples is likely to be blood cell DNA.

20 The DNA from whole blood and breast tissues was extracted using a chloroform based extraction method from 400 μ L of blood and Qiagen DNeasy Blood & Tissue Kit (69504), respectively.

All DNA samples were bisulphite modified using the EZ DNA Methylation Kit D5008 (Zymo Research, Orange, CA, USA) according to the manufacturer's
25 instructions.

Methylation analysis was performed using the validated Illumina Infinium Human Methylation27 BeadChip. The methylation status of a specific CpG site was calculated from the intensity of the methylated (M) and unmethylated (U) alleles, as the ratio of fluorescent signals $\beta = \text{Max}(M,0) / [\text{Max}(M,0) + \text{Max}(U,0) + 100]$. On this
30 scale, $0 < \beta < 1$, with β values close to 1 (0) indicating methylation (no methylation).

Quality control procedures were also performed. The raw data has been deposited on GEO (<http://www.ncbi.nlm.nih.gov/geo/>) under accession number GSE26102.

Statistical analysis

5 Diagnostic Singular Value Decomposition (SVD) analysis

SVD and randomisations were used to determine the number and nature of the largest components of variation. Beadchip effects were adjusted for using a Bayesian algorithm.

Singular value decomposition (SVD) has also proven to be an efficient method
10 for identifying complex methylation patterns in disease. We applied SVD to the centred methylation β -value data (i.e the average methylation value of each CpG across samples was set to zero) to determine the nature of the largest components of variation and hence to assess the variations caused by experimental factors (e.g. variable bisulfite conversion efficiency, plate and chip effects etc.). Before performing
15 the SVD analyses, missing β -value data were imputed using the k-nearest neighbours procedure [Leek and Storey 2008]. The number of missing values was less than 0.1% of the data and were caused by probes with inadequate number of good quality bead-level replicates, for which no β -values were reported. Significance of singular values/principal components was evaluated by randomly redistributing the centred data
20 values (i.e within each sample, CpG values were randomly permuted) and comparing the observed singular values to the corresponding values obtained from the permuted data matrix. The centering of the CpG profiles is important, as otherwise the top principal component would only capture the inherent bi-modality of the beta-value distribution, thus providing the wrong null distribution. SVD analysis on the discovery
25 set predicted 16 significant principal components, which were then correlated to the experimental factors, including plate, sentrix chip, bisulphite conversion (BSC) efficiency (as assessed using the built-in BSC efficiency controls), DNA concentration, and the centre and season in which the sample was collected, as well as age (data not shown). Most of the variation was associated with potentially confounding plate and
30 chip effects, hence, we first tried to adjust for these.

Batch/chip effects are often detected in large-scale microarray experiments. In this study, we applied the “ComBat” method [Johnson and Li Biostatistics (2007); 8.1:118-27] under a parametric empirical Bayes framework to correct both the discovery and validation sets for chip effects. The “ComBat” method is robust to outliers and allows for adjustment in the case where sample sizes per chip are small. To evaluate “Combat”, we performed the same diagnostic SVD analysis on the Combat-adjusted-data from the discovery set. This showed that the number of significant principal components that correlated with experimental factors was reduced from 16 to 6, and moreover “Combat” efficiently removed the chip effects (data not shown). “Combat” was also applied to the 207 samples of the second set and over all 27,578 CpGs, to correct for chip effects (data not shown).

Supervised analysis

We used adjusted t-statistics to identify CpGs with β -value methylation profiles associated with disease status (i.e. future cancer or healthy), where adjustment was made for age and experimental factors (plate, DNA concentration, season and centre). To correct for multiple testing, we estimated the false discovery rate (FDR) using both an analytical procedure (q-values), and a permutation approach that preserves the potential correlations between CpGs.

Classification analysis

The aim was to determine if DNA methylation profiles in serum DNA could be used to predict breast cancer risk. We chose an elastic net (ELNET) classification framework, which has been shown to work effectively and to avoid overfitting in high-dimensional data sets. First of all, each CpG methylation profile was adjusted for potential confounders using a linear model with the confounders as covariates. The adjusted CpG methylation profiles were subsequently standardised in the discovery and validation sets, by setting its mean across samples to zero and its standard deviation across samples to 1. Denoting by Y the case-control status, and by B the

adjusted and standardized methylation profiles, our model is

$E[Y | B] = \eta_0 + B^T \eta$ where η denotes the regression parameters to be estimated. To estimate the regression coefficients, we used the elastic net algorithm as implemented in the the *glmnet* R-package. For an independent test sample t with adjusted and

5 standardized methylation profile β_t , its risk score is then computed as $R_t = \sum_{c=1}^{N_{cpg}} \hat{\eta}_c \beta_{t,c}$

where the sum can be done over all CpGs since those that do not contribute to the classifier have zero regression coefficients. The risk scores for an independent test set can then be correlated to disease outcome to obtain an AUC value.

We used two complementary strategies designed to test the robustness of the
10 results. In the first strategy, we constructed an ensemble ELNET classifier in the discovery set and then tested this classifier in the validation set. The ensemble ELNET classifier was constructed by using 100 distinct training/test set partitions within the discovery set to construct 100 distinct elastic net classifiers. The ensemble risk score of an independent sample is then obtained by averaging the predicted risk scores of each
15 of the 100 classifiers. This procedure was used to evaluate classification performance of the ensemble classifier in the discovery set.

In the second approach, we applied the elastic net classification on the top 5482 ranked CpGs (FDR<0.3) derived from the whole discovery set and selected the optimal features using an internal 10-fold cross-validation as implemented in the
20 *glmnet* package. This classifier was then tested in the validation set by computing the predicted risk scores and the AUC.

Gene set enrichment analysis (GSEA)

In order to determine if cancer risk CpGs were enriched for gene ontologies,
25 molecular pathways, chromosomal locations, or targets of regulatory motifs and miRNAs, we applied gene set enrichment analysis (GSEA) to an expanded version of the Molecular Signatures Database (MSigDB), representing a total collection of 6811 gene sets [Mootha *et al* (2003) Nat Genet; 34, 267-73 and Subramanian *et al* (2005)

PNAS 102, 15545-50]. One important set of genes which were included in the database were Polycomb group targets (PCGTs) for which we defined two sets by single occupancy of any one of SUZ12, EED, and H3K27me3 in human embryonic stem cells (hESCs) and by triple occupancy of all three [Lee et al (2006) Cell Apr 21;125(2):301-13]. We focused on the subset of 6266 gene sets in MSigDB that had over 60% of their genes represented on the Illumina Infinium Methylation array. We applied GSEA to the top 5482 ranked hyper and hypomethylated CpGs derived from the discovery set, using a sliding threshold Fisher-test analysis. Briefly, we picked 20 equally distant centiles in the range 1% to ~20% (5482/27578) and performed a Fisher-
 5 test of enrichment at each of these centiles on each gene set in MSigDB. FDR correction was done using the Benjamini-Hochberg procedure. For each gene set, the centile at which the best P-value was obtained, was recorded and gene sets were then ranked according to this best P-value. This sliding threshold analysis allows for a more unbiased estimation of enriched gene sets irrespective of gene set size. Finally, we
 10 selected from the top 500 enriched gene sets those with an FDR<0.1.

GSEA network

Differently annotated gene sets may share a significant overlap, which may thus lead to enrichments which are not independent of each other. To address this we
 20 constructed a dependency network of the selected enriched gene sets, with each node representing an enriched gene set and an edge in the network representing a statistically significant dependency between two enriched gene sets. To compute the dependency between two gene sets we use the Jaccard coefficient, defined as the ratio

$$JC(gset1, gset2) = \frac{|gset1 \cap gset2|}{|gset1 \cup gset2|} \leq 1$$

25 which is a positive fraction less than 1. To derive a null distribution, we randomly picked 10,000 pairs of gene sets from the MSigDB database (>6000 gene sets) and computed their Jaccard coefficients. We then took the 99.5% quantile of this distribution of null Jaccard coefficients, which corresponded to a value of $JC \sim 0.05$.

We used this threshold to assign edges representing dependencies, so that two gene sets with a JC larger than 0.05 were assigned an edge. This yielded GSEA networks with approximately 10% of the maximum possible number of edges. Significant dependencies could then be drawn as edges with the strength of the JC represented by different tones of grey.

Example 1

In order to address if CpG methylation is able to predict the risk of developing breast cancer, we analyzed 27,578 CpGs in DNA extracted from the serum of 382 healthy postmenopausal women in a nested case control design within the UKCTOCS trial encompassing serum DNA samples from over 200,000 women. Within the nested study, a total of 182 women developed an estrogen receptor positive (ER+) breast cancer 0.5 to 5 years *after* they had provided their serum sample. After a stringent quality control analysis we split the samples into a discovery set (134 cases and 148 controls) and a validation set (48 cases and 52 controls) (Figure 1A).

We used the discovery set to identify risk associated CpGs and to construct a risk predictor, which would then be tested in the validation set (Figure 1A). We used a multivariate regression model that included other potential confounders to rank CpGs according to the significance of the association between their DNA methylation profile and case/control status. The histogram of P-values and the corresponding estimated false discovery rate (FDR) values indicated a remarkably strong association between DNA methylation and case control status (Figures 1B-C). Among the top 100 ranked CpG sites, we estimated an average of only 10 false positives. The analytical and empirical FDR estimates were also in strong agreement. Using a relaxed threshold of $FDR < 0.3$ we observed a total of 5482 cancer-risk CpGs, of which 3395 (62%) were hypermethylated (hyperM) and 2087 (38%) were hypomethylated (hypoM) in women who subsequently developed breast cancer (Figure 1A), representing a highly significant skew towards hypermethylated CpGs (Binomial test $P < 2 \times 10^{-16}$).

Example 2

Next, we investigated if the risk of developing breast cancer could be predicted in an independent prospectively collected sample set. We used the elastic net
5 (ELNET), a state of the art statistical framework designed to avoid overfitting in high-dimensional data, to construct a classifier from the full set of 27,578 CpGs. We used two complementary strategies to build an ELNET classifier, which would also allow us to test the robustness of the predictions. In the first strategy, we used training-test partitions in a 10-fold cross-validation procedure to build an ELNET classifier, which
10 yielded an AUC of 0.64 (0.58-0.71) ($P<0.05$, Figures 1D-E) in the test sets. This analysis was repeated 100 times to build an ensemble classifier over all 100 predictors, which was then tested in the independent validation set. The ensemble classifier attained a value of AUC=0.62 (0.51-0.74) ($P<0.05$, Figure 1F) in line with the AUC in the discovery set. In the second strategy, we trained one ELNET classifier using the
15 whole discovery set from the top 5482 ranked CpGs, and with a built-in internal cross-validation for optimal feature selection. The resulting ELNET classifier also predicted breast cancer risk in the independent validation set (AUC=0.65, (0.54-0.76), $P<0.05$, Figure 1G). To further demonstrate that this result could not have arisen by chance we randomised the phenotype labels 100 times in the discovery set, retrained 100 ELNET
20 classifiers and evaluated them in the validation set. We obtained a mean AUC=0.51 (0.41-0.65), and in only 3 runs did we observe an AUC as extreme as the observed one ($P<0.05$). By dividing the predicted individualised risk values into high, intermediate and low risk groups we have estimated a 3-fold increase in the odds of developing breast cancer for those in the highest risk category compared to women with the lowest
25 predicted risk (see Table 1 below).

Table 1

Discovery Set						
Risk Group	Cases	Controls	OR (95% CI)	P	tD	tLF
Low	30	63	1.00	NA	1.7	6.8
Int	44	49	1.88 (1.00-3.50)	0.05	2.1	6.7
High	60	36	3.48 (1.86-6.63)	<0.0001	1.6	6.9
All	134	148			1.8	6.8
Validation Set						
Risk Group	Cases	Controls	OR (95% CI)	P	tD	tLF
Low	13	20	1.00	NA	1.9	7.0
Int	12	21	0.88 (0.30-2.49)	1	1.6	7.2
High	23	11	3.16 (1.10-8.91)	0.03	1.7	7.6
All	48	52			1.8	7.3

Table 1 shows the distribution of cases and controls with associated odds ratios (OR), 95% confidence intervals, and P-values of significance (Fisher-test) in the three risk groups of the discovery and validation sets. Risk groups are defined based on tertiles and ranked according to the predicted risk index: High (33% with highest predicted risk), Intermediate (33% with next highest risk), Low (34% with lowest predicted risk). OR values are expressed relative to the lowest risk group. Also provided is the median time to diagnosis (tD, cases) and median last follow-up time (tLF, controls) in each risk group. NA=not applicable.

Example 3

In order to shed light on the genes differentially methylated between cases and controls, we performed a GSEA on CpGs which were either hyper or hypomethylated. The top five categories of genes hypermethylated in cases were all crucially involved in stem cell differentiation and biology (Figure 2A): (1) Target genes of Nuclear inhibitor of protein phosphatase-1 (NIPP1), which is a transcriptional repressor and contributes to the recruitment of the Polycomb Repressor Complex (PRC2), (2) A selected set of stem cell polycomb group target genes (PCGTs) previously reported to undergo widespread methylation in cancer tissue, (3) Target genes of MSX1, a developmental regulator involved in mammary development and breast cancer, (4) Genes with an AACTTT promoter motif, which are heavily enriched for developmental transcription factors and (5) target genes of NANOG, a factor known to maintain pluripotency.

Stem cell polycomb group target genes were also highly enriched among hypermethylated cancer-risk CpG sites (Figure 2A). The degree of overlap between enriched gene sets was often insignificant (e.g NANOG targets and PCGTs), indicating that the enrichment of many gene sets were independent of each other (Figure 2A). Most importantly, these stem cell gene categories were not enriched among CpGs hypomethylated in cases, and in fact were often underenriched (Figure 2B). These observations gain special importance in light of the fact that NIPP1, PRC2, MSX1 and NANOG all suppress differentiation by occupying and suppressing certain sets of genes.

Example 4

We and others have demonstrated that PCGTs are frequently methylated in cancer cells. Thus, our serum DNA methylation risk signature could in principle have been due to the presence of disseminated preneoplastic or tumour cells well in advance of clinical diagnosis of breast cancer. Alternatively, it could also reflect a systemic breast cancer predisposition. To exclude this possibility, we first asked if the time from sample draw to diagnosis has an impact on the strength of the association between

DNA methylation and cancer risk. This association, as well as gene set enrichment analysis, was largely unchanged when we used a Cox-regression model framework that takes the time from sample draw to diagnosis or last follow-up into account. From the 134 cases in the discovery set, we next selected 50 who developed breast cancer earlier (i.e all within 1.5 years after sample draw) and 50 who developed the disease much later (more than 2.5 years after draw) and compared both sets separately to the 148 controls. This showed that while there were significantly more CpGs associated with cancer risk for cases detected early after sample draw, this difference was not substantial (Figure 3A). Moreover, the top risk CpGs obtained from both sets of cases exhibited very strong correlations (Figure 3B) and overlap, and enriched GSEA categories were also very similar. In addition when applying the risk signature to the 50 cases who developed breast cancer within 1.5 years and to the 50 who developed breast cancer after 2.4 years, we find exactly the same ROC AUC.

Therefore, we conclude that the DNA methylation risk signature was not due to the presence of disseminated preneoplastic or tumour cells, but rather represents a genuinely predictive tool in currently healthy individuals.

Example 5

In order to demonstrate a link of the risk signature identified in serum DNA well in advance of breast cancer development and breast cancer biology we selected the 1500 most significant cancer risk CpGs from the serum data and asked if these CpGs were differently methylated in DNA from non-neoplastic breast and breast cancer. We found a highly significant increase of hypermethylated risk CpGs in breast cancer (Figure 4A). Strikingly, there is also a significant increase of methylation with increase of cancer grade (Figure 4A) supporting the view that the risk signature is linked to differentiation capacity. Risk CpGs hypermethylated in cases were also highly enriched for a *BRCA1* functional gene network, consistent with the view that disruptions to this gene network may increase susceptibility to breast cancer. We therefore posited that our cancer risk hypermethylation signature could also be increased in the DNA of healthy *BRCA1* mutation carriers who did not yet develop

cancer. To address this, we analyzed DNA methylation of peripheral blood cells from 15 healthy *BRCA1* mutation carriers and 15 age matched non-carriers. We selected the 1500 most significant cancer risk CpGs from the serum data and asked if these CpGs were discriminatory of *BRCA1* mutation status in this independent set. We observed
5 that the cancer risk CpGs which were hypermethylated in prospective cases also showed higher methylation levels in healthy *BRCA1* mutation carriers compared to non-carriers (Figure 4B), while cancer-risk CpGs which were hypomethylated did not. This result was replicated in another independent set of peripheral blood samples from 7 healthy *BRCA1* mutation carriers and 42 non-carriers (data not shown).

10 In summary, our data demonstrate for the first time that DNA methylation profiles obtained in serum up to five years in advance of diagnosis have the potential to indicate breast cancer risk. Perhaps more importantly our data show that genes encoding developmental transcription factors needed for differentiation of stem cells, as well as target genes of transcription factors that are crucially involved in stem cell
15 biology, are hypermethylated in women predisposed to breast cancer. Crucially those CpGs are also hypermethylated in breast cancer and are also significantly enriched in peripheral blood cells of *BRCA1* mutation carriers. Therefore, these data fit well with a stem cell origin model of cancer in which preneoplastic cells acquire an irreversible block in differentiation due to DNA methylation, increasing their susceptibility to
20 acquire further mutations and predisposing them to neoplastic transformation. Our study is not able to fully address whether the serum DNA methylation signature is an early detection marker (DNA from subclinical breast cancer lesions or circulating tumour cells) or is a surrogate marker for accumulating breast cancer susceptibility. Although more evidence points towards the latter: (a) The risk signature does not
25 substantially change even if only considering cases diagnosed 2.5 – 5.0 years after sample collection. (b) Analyzing peripheral blood cells of *BRCA1* mutation carriers who have not yet developed breast cancer demonstrates a strong overlap with our risk signature. (c) By far the majority of DNA in serum from the UKCTOCS samples is DNA from peripheral blood cells. (d) Circulating epithelial cells are very rare in
30 healthy women (mean, 0.1 ± 0.2 per 7.5 ml of whole blood) and in patients with benign

breast disease (mean, 0.1 ± 0.9 per 7.5 ml of whole blood). Even in women with metastatic breast cancer more than 50% have less than 5 epithelial cells in 7.5 ml of whole blood, making it extremely unlikely that these circulating epithelial or cancer cells contributed to our DNA methylation risk signature or to the strong overlap of this signature with methylation profiles specific to peripheral blood cells of BRCA1 mutation carriers.

Our findings also serve as a solid basis to develop DNA methylation based tests to predict chronic diseases like cancer. In summary our data demonstrate the potential of the epigenome to complement genetic and epidemiological models to predict breast cancer risk.

Example 6

In Figure 2B (see above for details), we demonstrate a heatmap of normalized methylation values in the discovery set and across the top 1000 cancer-risk CpGs. CpGs and samples have been clustered using hierarchical clustering and a Pearson correlation metric. Colour bars denote the two main clusters (lighter bar on the left, darker bar on the right) and if sample is a case (black) or control (white). Distribution of cases/controls is given and associated P-value is that of a Fisher-test. Right panel shows the enrichment of stem-cell related gene sets among CpGs hypermethylated in cases relative to controls. The “light/left” cluster reflects those samples which demonstrate hypermethylation of genes which are crucial in stem cell biology and the “dark/right” cluster reflects samples with hypomethylation of these stem cell genes.

With reference to Figure 5, which is an enhanced version of Figure 2B, we have now at least 6 years of follow up since the sample was provided. Of the 180 women (134 in discovery and 48 in validation set) who developed breast cancer, 15 women died of breast cancer within six years after they provided the sample (indicated with additional vertical bars at the top of the discovery set). Women who demonstrated a stem cell hypermethylation profile had a higher chance of developing breast cancer 0.5 – 5 years after their sample was taken, but also demonstrated a substantially higher

risk of dying from their breast cancer within 6 years (Figure 6, Kaplan Meier curve and likelihood ratio test pvalue).

This is the first time that a specific test performed on healthy individuals is not only indicative of the risk to develop cancer, but also the risk of whether an individual is more likely to die from the disease. These findings open up an entirely new window of opportunity for assessing the risk of a common cancer such as breast cancer: To date strategies to early detect breast cancer have been hampered by detection of abnormalities that would not become clinically relevant over a lifetime, i.e. are over-diagnosed. These over-diagnosed cancers cause huge anxiety, unnecessary treatment and are a major burden to the health system. Hence, a test which is able to indicate (up to five years in advance) the risk of developing a deadly cancer, potentially provides a massive benefit for our society, both socially and economically.

Table 2

Table 2 below shows top ranked 5482 cancer risk CpGs, all passing $FDR < 0.3$, derived using a multivariate linear regression framework in the discovery set (148 controls and 134 cases), as described in the Examples above. We also provide the odds ratio and AUC values from logistic regression and Wilcoxon rank sum tests, respectively. Each gene is referred to as "Symbol", and each category of gene i.e. PCGTs, target of NIPPI1, MSX-1 or NANOG or genes with an AACTTT promoter motif are referred to under the appropriate titled columns ("PCGTs", "NIPPI1-T", "MSX1-T", "NANOG-T" and "AACTT-T" respectively). Under these columns, "1" denotes that the gene is a "PCGTs", "NIPPI1-T", "MSX1-T", "NANOG-T" or "AACTT-T" respectively. "0" denotes that the gene is not a member of that gene group.

CpG	Symbol	NCBI t.statistics	pvalue	qvalue	OR	AUC	PCGTs	NIPP1-T	MSX1-T	NANOG-T	AACTT-T
cg07715201	GDNF	2668 4.44621	1.30E-05	0.077279929	1.85249374	0.65162364	1	0	0	0	0
cg22181664	CLCA1	1179 -4.39491	1.62E-05	0.077279929	0.54208291	0.64466519	0	0	0	0	0
cg15321211	HNPF	3185 4.35973	1.88E-05	0.077279929	1.82317373	0.64290036	0	0	0	0	0
cg21105318	ITRB6	3694 -4.34704	1.98E-05	0.077279929	0.54419033	0.63165591	0	0	0	0	0
cg18967846	CLDN12	9069 4.32337	2.19E-05	0.077279929	1.82954375	0.63125252	0	0	0	0	0
cg05960024	CLOCK	9575 -4.29934	2.42E-05	0.077279929	0.5523098	0.63942114	0	0	0	0	0
cg23577242	MPED2	744 -4.18581	3.89E-05	0.079949004	0.5412263	0.62298306	0	0	0	0	0
cg18485955	TNFRSF17	608 -4.11214	5.26E-05	0.079949004	0.56651016	0.61244453	0	0	0	0	0
cg12623088	MGC4562	115752 4.0608	6.48E-05	0.079949004	1.79336627	0.63503429	0	0	0	0	0
cg05365525	DEPDC6	64798 4.06029	6.49E-05	0.079949004	1.74347572	0.6187979	0	0	0	0	0
cg23523368	AMPD1	270 -4.0561	6.60E-05	0.079949004	0.56138382	0.61910044	0	0	0	0	0
cg26738880	DPP6	1804 -4.05252	6.70E-05	0.079949004	0.5709803	0.61925171	1	0	0	0	0
cg09425228	CCL20	6364 -4.04297	6.96E-05	0.079949004	0.57366768	0.63967326	0	1	0	0	0
cg20683151	TM4SF20	79853 -4.0343	7.20E-05	0.079949004	0.56906	0.64103469	0	0	0	0	0
cg21209356	CSF2RB	1439 -4.03372	7.22E-05	0.079949004	0.57617048	0.62005849	0	0	0	0	0
cg03547924	GDF5	8200 -4.01631	7.74E-05	0.079949004	0.56979157	0.6136547	0	0	0	0	0
cg15182360	PCDH20	64881 4.01264	7.86E-05	0.079949004	1.77201927	0.63074829	0	0	0	0	0
cg07925687	RABL3	285282 4.01118	7.90E-05	0.079949004	1.72357784	0.63321904	0	0	0	1	0
cg17430393	VSNL1	7447 4.00988	7.94E-05	0.079949004	1.73383273	0.64264825	0	0	0	0	0
cg13593287	SPTB	6710 3.96524	9.48E-05	0.090674413	1.73686064	0.61572207	1	0	1	0	1
cg10654016	C12orf31	84298 3.94481	0.000102792	0.091018524	1.74552146	0.62580678	0	0	0	0	0
cg22487322	IL20RA	53832 -3.9401	0.000104712	0.091018524	0.57438128	0.63437878	1	0	0	0	0
cg16298282	KIAA0776	23376 3.92034	0.000113157	0.093395938	1.72934842	0.6260589	0	0	0	0	0
cg11304524	TSSK4	283629 -3.89926	0.000122874	0.093395938	0.58422396	0.62454619	0	0	0	0	0
cg05600174	C9orf95	54981 3.87698	0.000134006	0.093395938	1.71774563	0.63039532	0	1	0	0	0
cg04189838	CYP2C19	1557 -3.87497	0.000135053	0.093395938	0.57933807	0.63811013	0	0	0	0	0
cg01367992	LY9	4063 -3.84236	0.000153211	0.093395938	0.58320747	0.60689794	0	0	0	0	0
cg03349953	PCDHB5	26167 3.84001	0.000154605	0.093395938	1.71455808	0.6170835	0	0	0	0	0
cg13958426	C1orf114	57821 3.8277	0.000162104	0.093395938	1.71024134	0.6232856	0	0	0	0	0
cg04619381	LOC222171	222171 3.82477	0.000163943	0.093395938	1.67663908	0.62989109	0	0	0	0	0
cg15736336	PLCZ1	89869 -3.82276	0.000165213	0.093395938	0.59153164	0.63669827	0	0	0	0	0
cg15473868	MT1X	4501 3.82052	0.000166639	0.093395938	1.67418591	0.62651271	1	1	0	0	0
cg21581873	PLEKHA6	22874 3.81849	0.000167942	0.093395938	1.68009611	0.61849536	0	0	0	0	0
cg20443314	VPS25	84313 3.817	0.000168906	0.093395938	1.717277	0.62031061	0	0	0	0	0
cg04127255	PSG2	5670 -3.81388	0.000170939	0.093395938	0.58720725	0.61849536	0	0	0	0	0
cg20401549	PRKY	5616 3.79605	0.000183006	0.096384093	1.72391636	0.60377168	0	0	0	0	0
cg06324671	KRTAP19-7	337974 -3.77871	0.00019551	0.096384093	0.59583205	0.62273094	0	0	0	0	0
cg25924032	BMS1L	9790 3.77754	0.000196378	0.096384093	1.72598745	0.59772086	0	0	0	0	0
cg08550724	C6orf182	285753 -3.77729	0.000196569	0.096384093	0.59489753	0.62893304	0	0	0	0	0
cg12554857	PGDS	27306 3.75981	0.000210051	0.097975833	1.72649486	0.63049617	0	0	0	0	0

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cg02756614	FER1L3	26509	3.55545	0.000448155	0.103253481	1.65689154	0.61783986	0	0	0	0	0
cg5881193	BTN2A2	10385	3.55186	0.000454028	0.103359935	1.6210757	0.64078257	0	0	0	0	0
cg16466334	MMP3	4314	-3.54549	0.000464609	0.103359935	0.59784704	0.61103267	0	0	0	0	0
cg17022635	FUS	2521	3.53969	0.000474461	0.103359935	1.62859913	0.60271279	0	0	1	0	0
cg16752778	PIGK	10026	3.53748	0.000478271	0.103359935	1.65899335	0.60957039	0	0	0	0	0
cg03225779	COL27A1	85301	3.52574	0.000498951	0.103359935	1.64444084	0.61758774	1	0	0	1	0
cg27277403	KMO	8564	3.524	0.00050209	0.103359935	1.61985672	0.62172247	0	0	0	0	0
cg03993463	KCNJ15	3772	-3.52235	0.000505079	0.103359935	0.61091298	0.60881404	0	0	0	0	0
cg25299676	MET	4233	3.52079	0.000507913	0.103359935	1.6546297	0.63619403	0	0	0	0	0
cg08840010	TNFRSF9	3604	3.52023	0.000508954	0.103359935	1.63473928	0.61552037	1	0	0	0	0
cg12604192	KCNA10	3744	-3.51579	0.000517138	0.103359935	0.61169861	0.61027632	0	0	0	0	0
cg12444340	RBM5	10181	3.51237	0.000523533	0.103359935	1.62407567	0.60649455	0	0	0	0	0
cg04052038	CLDN8	9073	-3.50963	0.000528713	0.103359935	0.61343067	0.60140178	0	0	0	1	0
cg18796520	NDUFA9	4704	3.50825	0.000531325	0.103359935	1.62594521	0.62787414	0	0	0	0	0
cg26986815	CASP8	841	3.50554	0.000536516	0.103359935	1.63120449	0.62257967	0	0	0	0	0
cg08629913	IGFBP6	3489	3.50545	0.000536691	0.103359935	1.60941721	0.61546995	0	0	0	0	0
cg00746083	CHD8	57680	3.50463	0.000538268	0.103359935	1.60525779	0.62363856	0	0	0	0	0
cg22830590	SCRN3	79634	3.50348	0.000540503	0.103359935	1.62719153	0.62575635	0	0	0	0	0
cg15016628	BRN3	680	-3.49905	0.000549148	0.103701029	0.62055841	0.61118395	0	0	0	1	0
cg02998425	ADAM21	8747	-3.49486	0.000557436	0.103701029	0.61910233	0.6310004	0	0	0	0	0
cg08693325	LUZP4	51213	-3.48872	0.000569798	0.103701029	0.61344988	0.61506656	0	0	0	0	0
cg25310567	GALNTL5	168391	-3.488	0.000571284	0.103701029	0.62537627	0.6014522	0	0	0	0	0
cg10751811	CYP4Z1	199974	-3.48711	0.000573089	0.103701029	0.6209325	0.59721662	0	0	0	0	0
cg00669856	SPRY1	10252	3.48067	0.000586425	0.103701029	1.62396251	0.61516741	0	0	1	1	0
cg10951619	FAM5C	339479	3.48031	0.000587161	0.103701029	1.64512956	0.61960468	1	0	0	0	0
cg17524624	GSTK1	373156	3.47773	0.000592592	0.103701029	1.61853245	0.62353772	0	0	0	0	0
cg01798589	STAC	6769	3.47559	0.00059712	0.103701029	1.62981557	0.63200888	0	1	0	0	1
cg21410991	ISL1	3670	3.46851	0.000612357	0.103701029	1.61158441	0.62943727	1	1	0	0	1
cg21295467	LOH11CR2A	4013	3.46702	0.00061561	0.103701029	1.61056715	0.63200888	0	0	0	1	0
cg02774963	KEL	3792	-3.46661	0.000616523	0.103701029	0.62119545	0.61713393	0	0	0	0	0
cg25125453	C20orf38	55304	3.46436	0.000621454	0.103701029	1.61770662	0.61042759	0	0	0	0	0
cg08308510	C20orf173	140873	-3.46397	0.00062233	0.103701029	0.61442628	0.6187979	0	0	0	0	0
cg06281795	CALB1	793	3.46158	0.000627638	0.103701029	1.59962655	0.6222267	0	0	1	1	0
cg15502446	HSPC138	51501	3.45644	0.000639177	0.103701029	1.64937312	0.60341872	0	0	0	0	0
cg16855929	EGLN1	54583	-3.4533	0.000646342	0.103701029	0.62120574	0.61337737	0	1	0	0	0
cg13897449	PFKFB1	5207	-3.45239	0.000648424	0.103701029	0.61822561	0.60099839	0	0	0	1	0
cg25140370	IRF4	3662	3.4523	0.000648635	0.103701029	1.62214002	0.60967124	1	0	0	0	0
cg22436411	FCGR2B	2213	3.44915	0.000655892	0.103701029	1.67039287	0.60891489	0	0	0	0	0
cg07621456	CCDC48	79825	-3.44701	0.000660887	0.103701029	0.61305248	0.60503227	0	0	0	0	0
cg07957491	UCK1	83549	3.44671	0.000661589	0.103701029	1.6068116	0.60866277	0	0	0	0	0
cg08373610	C2orf11	130132	3.44382	0.000668398	0.103916557	1.64226763	0.61199072	0	0	0	0	0
cg15320474	UBD	10537	-3.43953	0.000678606	0.104652695	0.62501696	0.61188988	0	0	0	0	0

cg19258882	ERBB3	2065	3.43664	0.000685556	0.104878685	1.6090544	0.60170432	0	0	0	0	0
cg25070010	MYRIP	25924	3.43136	0.000698453	0.106003689	1.58146508	0.61627672	0	0	0	0	0
cg08559914	ACE2	59272	-3.42228	0.000721147	0.106529464	0.61981297	0.6196551	0	0	0	0	0
cg10238171	BDKRB1	623	-3.42069	0.000725199	0.106529464	0.6183714	0.62310912	0	0	0	0	0
cg06193397	ENPP2	5168	3.41907	0.000729329	0.106529464	1.62284975	0.6100242	0	0	1	1	0
cg03780486	ORGA2	8590	-3.41757	0.00073318	0.106529464	0.6180082	0.59091368	0	0	0	0	0
cg07232688	LRRRC39	127495	-3.41731	0.000733856	0.106529464	0.6111852	0.60760387	0	0	0	0	0
cg17124509	C17orf57	124989	3.41673	0.000735342	0.106529464	1.58974589	0.60114966	0	0	0	0	0
cg26232187	NTRK3	4916	3.40997	0.000753012	0.107416837	1.56637781	0.60170432	1	0	0	1	0
cg19953406	KLK7	5650	3.40256	0.000772831	0.107416837	1.57118312	0.61869706	0	0	0	0	0
cg26822241	CYP2C9	1559	-3.40138	0.000776025	0.107416837	0.61749974	0.60972166	0	0	0	0	0
cg00532335	LGI1	9211	-3.4001	0.000779506	0.107416837	0.62933751	0.61325131	0	0	0	0	0
cg06817917	BMPRI1A	657	3.39949	0.000781182	0.107416837	1.59230566	0.58874546	0	0	0	0	0
cg09816180	GC	2638	-3.3993	0.000781697	0.107416837	0.62169841	0.59519968	0	0	0	1	0
cg02210123	RHOJ	57381	3.39888	0.000782859	0.107416837	1.62785273	0.59741831	0	0	0	0	0
cg16927136	RPL35A	6165	3.39655	0.000789258	0.107416837	1.60314605	0.61264623	0	0	0	0	0
cg07172256	ERBB2IP	55914	3.39555	0.000792022	0.107416837	1.58751271	0.57971965	0	0	0	0	0
cg24469803	POLR3A	11128	3.38813	0.000812823	0.10816375	1.61389318	0.61113352	0	0	0	0	0
cg11976166	TGFB2	7042	3.38551	0.000820282	0.10816375	1.63219214	0.61824324	1	0	0	0	0
cg20261167	SPP1	6696	3.38519	0.000821207	0.10816375	1.58903509	0.60276321	0	0	0	1	0
cg14107638	MAGEA5	4104	-3.38355	0.000825909	0.10816375	0.62720725	0.61844494	0	0	0	0	0
cg20530314	AGTR1	185	3.38117	0.000832786	0.10816375	1.58528835	0.59635942	0	0	0	0	0
cg27398547	C14orf39	317761	3.37872	0.000839942	0.10816375	1.61720443	0.61466317	0	1	0	0	0
cg27032352	C21orf94	246705	3.3775	0.000843509	0.10816375	1.59608332	0.61897439	0	0	0	0	0
cg23279136	ABCB7	22	-3.37744	0.000843673	0.10816375	0.60958211	0.58007261	0	0	0	1	0
cg16729794	MOBP	4336	-3.37583	0.000848435	0.10816375	0.63469776	0.61037717	0	0	0	1	0
cg04368919	EFNB1	1947	3.37247	0.000858408	0.10871043	1.5904651	0.62802541	1	0	0	0	0
cg11899895	TAX1BP1	8887	3.36951	0.000867277	0.109110995	1.60924518	0.62172247	0	0	0	0	0
cg25226247	TFAP2B	7021	3.35993	0.000896619	0.110260578	1.56741242	0.61390682	1	0	0	0	0
cg01713938	IFNA13	3447	-3.35974	0.000897194	0.110260578	0.63032798	0.60452804	0	0	0	0	0
cg13364756	CYP3A43	64816	-3.35914	0.00089906	0.110260578	0.63092593	0.61264623	0	0	0	0	0
cg04365980	CLEC3A	10143	-3.35901	0.000899478	0.110260578	0.62802789	0.63037011	0	0	0	0	0
cg21578207	C1orf164	55182	3.35715	0.000905284	0.110265434	1.59857508	0.59862848	0	0	0	0	0
cg25294646	OBFC1	79991	3.35033	0.000926924	0.112043655	1.59848304	0.61995764	0	0	0	0	0
cg13729392	C14orf112	51241	3.34833	0.000933349	0.112043655	1.57457842	0.60841065	0	0	0	0	0
cg23129478	ST8IA5	29906	3.34706	0.00093746	0.112043655	1.6017982	0.6076543	1	0	0	0	0
cg12455187	CCL5	6352	-3.34285	0.000951211	0.112911736	0.63286039	0.61476402	0	0	0	0	0
cg17767184	DHFR1L1	200895	3.34123	0.000956532	0.112911736	1.61936342	0.61799113	0	0	0	0	0
cg21093060	TXLNA	200081	-3.33933	0.000962832	0.112958114	0.63396822	0.61526825	0	0	0	0	0
cg26771217	CLK2	1196	3.33057	0.00099236	0.115112733	1.57668962	0.60356999	0	0	0	0	0
cg18808261	SATB1	6304	3.33031	0.000993237	0.115112733	1.59545578	0.59958653	0	0	0	1	0
cg07510052	HIGD2A	192286	-3.32709	0.001004303	0.115276371	0.62089553	0.61037717	0	0	0	1	0

cg00037763	SETBP1	26040	-3.3264	0.001006705	0.115276371	0.64472235	0.60498185	0	1	0	0	0
cg06320982	FLJ10815	55238	3.31988	0.001029525	0.116976499	1.57955083	0.60417507	0	0	0	0	0
cg07328579	GLT8D2	83468	3.31788	0.001036617	0.116976499	1.60361992	0.60583905	0	1	0	0	0
cg10576828	LRRC7	57554	-3.31695	0.001039904	0.116976499	0.62828142	0.62041146	0	0	0	0	0
cg03430998	TLR1	7096	3.31286	0.001054631	0.117858768	1.59911179	0.62479831	0	0	0	0	1
cg15414833	RPIB9	154661	3.30942	0.001067107	0.117858768	1.55840506	0.62076442	0	0	0	0	0
cg04595835	WDFY3	23001	3.30668	0.001077185	0.117858768	1.58794648	0.61990722	0	0	0	0	0
cg27486427	RAB	5915	3.30441	0.001085598	0.117858768	1.58351014	0.61587334	0	0	1	1	1
cg02506908	HPD	3242	-3.30363	0.0010885	0.117858768	0.63414583	0.59197257	0	0	0	0	0
cg13696887	KRTHB2	3888	-3.30197	0.001094687	0.117858768	0.63563233	0.60689794	0	0	0	0	0
cg02280309	PKLR	5313	-3.30066	0.001099586	0.117858768	0.63447866	0.60109923	0	0	0	0	0
cg14472778	MTHFR	4524	-3.29888	0.001106301	0.117858768	0.63397224	0.59832594	0	0	0	0	0
cg21842274	CRHBP	1393	3.29811	0.001109215	0.117858768	1.59149975	0.62187374	1	0	0	0	1
cg20751395	KCNQ1	3784	-3.29639	0.00111576	0.117858768	0.64487299	0.60256152	1	0	0	0	0
cg18665023	ATP5O	539	3.29463	0.001122507	0.117858768	1.56947958	0.62479831	0	0	0	0	0
cg05596294	LPPR4	9890	3.28908	0.001143966	0.117858768	1.57562866	0.6018808	1	0	0	0	0
cg20695562	USP33	23032	3.28809	0.001147828	0.117858768	1.57180524	0.58864462	0	0	0	0	0
cg27513764	EFCA3	146779	-3.28532	0.001158723	0.117858768	0.63487581	0.6162263	0	0	0	0	0
cg06096336	HTR2B	3357	3.28409	0.001163566	0.117858768	1.58403617	0.6181424	0	0	0	0	1
cg25682559	FHOD3	80206	3.28229	0.001170722	0.117858768	1.58792224	0.60296491	0	0	0	0	0
cg12017007	PHF12	57649	3.2817	0.001173061	0.117858768	1.56135552	0.61703308	0	0	0	0	0
cg24325790	CCL23	6368	-3.28121	0.001175016	0.117858768	0.63578942	0.58919927	0	0	0	0	0
cg13765961	MS4A1	931	-3.27961	0.001181455	0.117858768	0.64093423	0.59207342	0	0	0	0	0
cg13919215	POLR2K	5440	3.27796	0.00118808	0.117858768	1.58522101	0.60548608	0	0	0	0	0
cg02430692	PEX5L	51555	3.27694	0.001192212	0.117858768	1.55993197	0.61486487	0	0	0	0	0
cg11822932	LMO2	4005	3.27658	0.001193673	0.117858768	1.59613596	0.61148649	0	0	0	0	0
cg06337239	DDX58	23586	3.27539	0.001198515	0.117858768	1.56555012	0.60397338	0	1	0	0	0
cg18085517	TRPM1	4308	-3.2746	0.001201747	0.117858768	0.63753303	0.59151876	0	0	0	0	0
cg06476337	NDUFS4	4724	3.27458	0.001201827	0.117858768	1.57145847	0.61229326	0	0	0	0	0
cg20837735	SERPINF5	5268	-3.26826	0.001227882	0.118380965	0.62312843	0.60518354	0	0	0	0	0
cg20543416	MMP25	64386	3.26583	0.001238035	0.118380965	1.5617078	0.60311618	0	0	0	0	0
cg06350796	CXorf41	139212	3.26415	0.001245125	0.118380965	1.54411947	0.61315046	0	0	0	0	0
cg24603941	MTA2	117153	-3.26362	0.001247349	0.118380965	0.63870213	0.60588947	0	0	0	0	0
cg13158571	CYP4X1	260293	3.26333	0.001248586	0.118380965	1.56611968	0.60286406	1	0	0	0	0
cg02229946	IL1F7	27178	-3.26308	0.001249632	0.118380965	0.63225886	0.60362041	0	0	0	0	0
cg15737168	TECTA	7007	-3.26246	0.001252254	0.118380965	0.61724978	0.59857806	0	0	0	0	1
cg04825431	ZNF239	8187	-3.26142	0.001256677	0.118380965	0.63570399	0.60931827	0	0	0	0	0
cg18992201	DPPA2	151871	-3.25381	0.001289477	0.118704866	0.64110079	0.59968737	0	0	0	0	0
cg26061772	CASC3	22794	3.25062	0.001303449	0.118704866	1.60027479	0.60412465	0	0	0	0	0
cg18794577	GRIN3A	116443	3.24901	0.001310568	0.118704866	1.55629752	0.61148649	1	0	0	0	1
cg15995002	RAD54B	25788	3.24807	0.001314734	0.118704866	1.59794574	0.60291448	0	0	0	1	0
cg13257485	NXT2	55916	-3.24803	0.001314915	0.118704866	0.64586938	0.61093183	0	0	0	0	0

[illegible]

cg05546383	OTUD4	54726	-3.18434	0.001627632	0.123812538	0.63787678	0.59787213	0	0	0	0	0
cg12879425	BRDG1	26228	3.18386	0.001630235	0.123812538	1.59865304	0.61133522	0	0	0	0	0
cg13875807	JMD2C	23081	3.18108	0.001645344	0.123812538	1.52539762	0.59792255	0	0	0	0	0
cg18223379	BPL3	128859	-3.18034	0.001649402	0.123812538	0.64786145	0.61163776	0	0	0	0	0
cg18636558	SLC15A2	6565	-3.18026	0.001649851	0.123812538	0.65174359	0.61098225	0	0	0	0	0
cg22402007	NTRK2	4915	3.17767	0.001664086	0.123812538	1.54410716	0.60810811	1	0	0	0	0
cg02192965	SLC3A1	6519	-3.17699	0.001667829	0.123812538	0.63898382	0.61224284	0	0	0	0	0
cg25890048	OR5I1	10798	-3.17345	0.001687535	0.123812538	0.64125039	0.6093687	0	0	0	0	0
cg2552945	C5	727	-3.17339	0.00168787	0.123812538	0.64618884	0.61080577	0	0	0	0	0
cg01193293	SIGLEC7	27036	-3.17258	0.0016924	0.123812538	0.64624287	0.60725091	0	0	0	0	0
cg04223956	NEK7	140609	-3.17211	0.00169504	0.123812538	0.64555036	0.6059399	0	0	0	0	0
cg00832994	ATPAF1	64756	3.17158	0.001698009	0.123812538	1.528984	0.6040238	0	0	0	0	0
cg12053284	SYT4	6860	3.17023	0.001705618	0.123812538	1.56843903	0.60886446	0	0	0	0	0
cg02415431	IGLL1	3543	3.16981	0.001708003	0.123812538	1.54402996	0.60972166	0	0	0	0	0
cg26660631	FLJ32011	148930	-3.1686	0.001714879	0.123812538	0.64495724	0.5997378	0	0	0	0	0
cg09309269	PSMD11	5717	3.16844	0.001715758	0.123812538	1.51453448	0.61466317	0	0	0	1	0
cg25488206	MBM9	23543	3.1652	0.001734285	0.124419993	1.55959688	0.6014522	0	0	1	0	0
cg09081544	RUC13	56667	-3.16469	0.001737189	0.124419993	0.64907511	0.61410851	0	0	0	0	0
cg20162076	LY86	9450	-3.15589	0.001788463	0.126656867	0.655459	0.59333401	0	0	0	0	0
cg05564266	C6orf204	387119	-3.1555	0.001790782	0.126656867	0.64899606	0.61511698	0	0	0	0	0
cg05825950	CR1	1378	3.15508	0.001793257	0.126656867	1.5389999	0.60669625	0	0	0	0	0
cg22110261	PGAP1	80055	3.15374	0.001801168	0.126656867	1.55143512	0.61304962	0	0	0	0	0
cg23709121	C14orf149	112849	3.15368	0.001801537	0.126656867	1.57709762	0.60639371	0	1	0	0	0
cg24597988	SELL	6402	-3.15008	0.001823038	0.127699029	0.64190196	0.60246067	0	0	0	0	0
cg04878152	AGTR1	185	3.14878	0.001830903	0.127704753	1.52147748	0.5864764	0	0	0	0	0
cg01684901	C3orf40	131408	-3.14466	0.001855888	0.127704753	0.64560439	0.58889673	0	0	0	0	0
cg03359285	TOP2A	7153	3.14446	0.001857118	0.127704753	1.54223486	0.61975595	0	0	1	0	0
cg13406768	C2orf33	56947	-3.1441	0.001859328	0.127704753	0.65221207	0.59398951	0	0	0	0	0
cg24426405	AGR2	10551	-3.14342	0.001863472	0.127704753	0.64885447	0.57407221	0	0	0	0	0
cg09847584	RIMBP2	23504	-3.14305	0.001865717	0.127704753	0.64894282	0.59661154	0	0	0	0	0
cg18215716	TMEM111	55831	3.14238	0.001869867	0.127704753	1.57292299	0.60946954	0	0	0	0	0
cg26741595	HIST1H2BD	3017	3.14045	0.001881775	0.12772372	1.54792383	0.59131706	0	1	0	0	0
cg11809091	PCDHB7	56129	3.14017	0.001883503	0.12772372	1.53732336	0.62318475	0	0	0	0	0
cg26354398	RGS3	5998	-3.13888	0.001891516	0.127735665	0.64904441	0.60437677	0	0	0	1	0
cg21291985	BTBD4	140685	-3.13731	0.001901258	0.127735665	0.65269584	0.60362041	0	0	0	0	0
cg22188495	PRICKLE1	144165	3.13692	0.001903718	0.127735665	1.53645341	0.60790641	1	0	0	1	0
cg03137322	RUFY3	22902	-3.13487	0.001916564	0.128147976	0.64972784	0.58534187	0	0	0	0	0
cg24576425	GALNT5	11227	3.1336	0.001924582	0.128235679	1.56477469	0.60951997	0	0	0	0	0
cg18766755	SPRR2A	6700	-3.13105	0.001940734	0.128289318	0.64459814	0.60588947	0	0	0	0	0
cg19632206	FAM5C	339479	3.12909	0.001953262	0.128289318	1.56120575	0.59318274	1	0	0	0	0
cg26390526	FLG	2312	-3.12894	0.001954221	0.128289318	0.64528031	0.59993949	0	0	0	0	0
cg16579101	NOL1	4839	3.12865	0.001956117	0.128289318	1.58385383	0.64113554	0	0	0	0	0

cg020305726	DEFB126	81623	-3.12667	0.001968859	0.128289318	0.64962612	0.59061113	0	0	0
cg07602200	P2RX7	5027	3.12593	0.001973579	0.128289318	1.54417582	0.59898144	0	0	0
cg22875391	FAM79B	285386	-3.12516	0.00197856	0.128289318	0.64713168	0.59721662	0	0	0
cg13982505	KCNJ13	3769	-3.12258	0.001995362	0.128289318	0.64008133	0.59938483	0	0	0
cg08899632	ZFP64	5734	3.1225	0.001995911	0.128289318	1.5379776	0.5971662	0	0	0
cg06352750	SDPR	8436	3.12137	0.002003286	0.128289318	1.5459513	0.60200686	0	0	0
cg13897627	FLJ44674	400535	-3.11915	0.002017877	0.128289318	0.65545786	0.61128479	0	0	0
cg18931888	A4GNT	51146	-3.11735	0.002029818	0.128289318	0.65453338	0.58239209	0	0	0
cg17651821	HIST1H4L	8368	3.11668	0.002034249	0.128289318	1.55106081	0.60165389	1	0	0
cg00729275	C18orf16	147429	-3.11588	0.002039599	0.128289318	0.64249303	0.59454417	0	0	0
cg12598364	GCAT	23464	3.11517	0.002044284	0.128289318	1.53232771	0.59767043	0	0	0
cg05845357	PGEA1	25776	3.11467	0.002047657	0.128289318	1.51566106	0.62020976	0	0	0
cg11944393	CSPG6	9126	3.11321	0.00205745	0.128289318	1.55226712	0.60820896	0	0	0
cg10677144	MYOM1	8736	-3.11301	0.00205879	0.128289318	0.64849221	0.59837636	0	0	0
cg04340502	GSTA3	2940	3.11292	0.002059371	0.128289318	1.52873363	0.60215813	0	0	0
cg08668790	ZNF154	7710	3.1123	0.002063534	0.128289318	1.51576784	0.61456232	0	0	0
cg19595170	SRF	6722	-3.1117	0.002067587	0.128289318	0.65119763	0.59469544	0	0	0
cg19042062	KCNJ2	3759	3.11091	0.002072977	0.128289318	1.52938462	0.59434248	1	0	0
cg13847070	KLHL3	26249	3.10955	0.002082185	0.128443475	1.54646042	0.61234369	0	1	0
cg20066677	CHFR	55743	-3.10835	0.002090323	0.128530852	0.63645252	0.61244453	0	0	0
cg18022926	MAWBP	64081	3.10603	0.002106223	0.12861118	1.51307697	0.59620815	0	0	0
cg04845579	SULF1	23213	3.10469	0.002115424	0.12861118	1.5210996	0.61574728	0	0	1
cg03617456	EXOSC10	5394	3.10355	0.002123311	0.12861118	1.52186691	0.60004034	0	0	0
cg25465634	DLG7	9787	3.1029	0.002127758	0.12861118	1.5544725	0.60261194	1	0	0
cg03059018	SIX4	51804	3.10268	0.002129316	0.12861118	1.53710364	0.60699879	0	0	0
cg12424907	TAS2R49	259295	-3.1023	0.002131982	0.12861118	0.63877131	0.60667104	0	0	0
cg26265060	SON	6651	3.10099	0.002141074	0.128753494	1.5448071	0.61229326	0	0	1
cg14003512	PLGLB2	5342	-3.09439	0.002187543	0.130150367	0.65896426	0.60261194	0	0	0
cg08307963	GJA5	2702	3.09357	0.002193329	0.130150367	1.5146256	0.59615773	0	0	0
cg03712237	SSX2	6757	-3.09257	0.002200476	0.130150367	0.64924562	0.61355385	0	0	0
cg10507231	PIK3C2B	5287	-3.0925	0.002201003	0.130150367	0.64297253	0.59635942	0	0	0
cg02880679	MBTD1	54799	-3.09244	0.002201446	0.130150367	0.63637696	0.60442719	0	0	0
cg20308679	FRZB	2487	3.0906	0.002214591	0.130150367	1.54624099	0.60351956	0	0	0
cg21226225	TXNRD1	7296	3.0902	0.002217467	0.130150367	1.54165477	0.6119403	0	0	1
cg11062095	C5orf15	56951	3.08914	0.002225166	0.130150367	1.53934068	0.60185559	0	0	0
cg13274254	GULP1	51454	3.08908	0.002225557	0.130150367	1.53695554	0.59323316	0	0	0
cg10848367	SCGB1D2	10647	-3.08744	0.002237417	0.130424062	0.64984614	0.60014119	0	0	0
cg11064797	C5orf16	285613	-3.08656	0.002243878	0.130424062	0.64958602	0.60735176	0	0	0
cg19584733	DENND4C	55667	-3.08502	0.002255087	0.130678377	0.65815833	0.6012505	0	0	0
cg25293251	GOLGA5	9950	3.08172	0.002279333	0.13168433	1.53713393	0.61834409	0	0	0
cg15091410	IL31RA	133396	-3.07837	0.00230416	0.132717708	0.66171461	0.59595603	0	0	0
cg11901954	C1orf73	25896	3.07375	0.002338841	0.133019881	1.55235643	0.59282977	0	0	0

cg01143454	C20orf141	128653	3.07267	0.002347022	0.133019881	1.52036002	0.58874546	0	0	0	0	0	0
cg05141400	MAGEB4	4115	-3.072	0.002352113	0.133019881	0.66241869	0.60472973	0	0	0	0	0	0
cg06270401	DYRK4	8798	3.07104	0.00235943	0.133019881	1.53515549	0.59620815	0	0	0	0	0	0
cg04599297	GAD2	2572	3.07091	0.002360415	0.133019881	1.53233733	0.59918314	1	0	0	0	0	0
cg14930674	SLC12A1	6557	-3.07041	0.002364218	0.133019881	0.65148476	0.60140178	0	0	0	0	0	0
cg00342530	GARNL3	84253	-3.07029	0.002365152	0.133019881	0.65539085	0.60921743	0	0	0	0	1	0
cg16507522	SERPINA3	12	-3.06827	0.002381002	0.133019881	0.65723609	0.61244453	0	0	0	0	0	0
cg01305421	IGF1	3479	3.06757	0.002386027	0.133019881	1.52239021	0.6059399	0	0	0	0	1	0
cg27607639	UNC119	9094	3.06583	0.002399494	0.133019881	1.51306363	0.5849637	0	0	0	0	0	0
cg18593668	GNAX	2781	3.06508	0.002405309	0.133019881	1.51917847	0.6050827	0	0	0	0	0	0
cg09497789	SPAG17	200162	3.06501	0.002405855	0.133019881	1.50759723	0.58637556	0	0	0	0	0	0
cg22183706	CALCA	796	3.06385	0.002414825	0.133019881	1.52969494	0.61249496	1	0	0	0	0	0
cg09874127	UBE1L	7318	3.06382	0.002415054	0.133019881	1.51079695	0.61234369	0	0	0	0	0	0
cg08637669	C9orf102	56959	-3.0635	0.002417598	0.133019881	0.65914594	0.59893102	0	0	0	0	0	0
cg17237813	TLL7	79739	-3.06255	0.00242496	0.133019881	0.64540389	0.59474587	1	0	0	0	0	0
cg16521028	GLIPR1	11010	3.06221	0.002427658	0.133019881	1.51972922	0.59156918	0	0	0	0	0	0
cg22512531	CRAM	56253	-3.05873	0.002455032	0.133959346	0.64752017	0.59832594	0	0	0	0	0	0
cg01446692	CER1	9350	-3.05825	0.002458814	0.133959346	0.65664031	0.60079669	0	0	0	1	0	0
cg07453748	MGMT	4255	-3.05614	0.002475556	0.134137714	0.64933693	0.59535095	0	0	0	0	0	0
cg08771429	KRIT1	889	3.05607	0.002476117	0.134137714	1.56434674	0.59091368	0	0	0	0	0	0
cg26806924	PROCR	10544	3.0516	0.002511943	0.135694112	1.5021907	0.58526624	0	1	0	0	0	0
cg24777710	NAG8	27099	-3.04826	0.002539063	0.136350387	0.65148537	0.59998992	0	0	0	0	0	0
cg25538349	FLJ20035	55601	3.04759	0.002544573	0.136350387	1.54454194	0.60160347	0	0	0	0	0	0
cg08763351	SPRR4	163778	-3.04748	0.002545483	0.136350387	0.65780708	0.61007463	0	0	0	0	0	0
cg26946769	MAPK4	5596	-3.04488	0.002566778	0.136622007	0.65013919	0.59968737	1	0	0	0	0	0
cg08290628	CORO2B	10391	-3.04436	0.002571096	0.136622007	0.66342446	0.60135135	0	0	0	0	0	0
cg10375110	CHRNA9	55584	-3.04287	0.002583393	0.136622007	0.662656	0.60094796	0	0	0	0	0	0
cg20610545	WNK1	65125	3.04233	0.002587842	0.136622007	1.51879871	0.57175272	0	0	0	0	0	0
cg09519758	C9orf68	55064	-3.04197	0.002590832	0.136622007	0.65569999	0.60150262	0	0	0	0	0	0
cg05761971	FAM82A	151393	-3.04106	0.002598425	0.136622007	0.65615883	0.60447761	0	0	0	0	0	0
cg02105856	PIGR	5284	-3.04018	0.002605783	0.136622007	0.66078708	0.59141791	0	0	0	0	0	0
cg27146152	BIRC4BP	54739	3.03995	0.002607709	0.136622007	1.52577456	0.60372126	0	1	0	0	0	0
cg18946226	MYR8	23026	-3.03858	0.002619153	0.136654217	0.66588396	0.6023094	0	0	0	0	0	0
cg01897036	SCTR	6344	-3.03472	0.002651756	0.136654217	0.6517583	0.58627471	1	0	0	0	0	0
cg06255227	NPBWR2	2832	-3.03432	0.002655131	0.136654217	0.65617212	0.58945139	0	0	0	0	0	0
cg00368022	FLJ11193	55322	3.03405	0.00265738	0.136654217	1.51659056	0.60120008	0	0	0	0	0	0
cg14178991	RCHY1	25898	-3.03266	0.00266928	0.136654217	0.65676993	0.60946954	0	0	0	0	0	0
cg12453778	COMMD1	150684	3.03251	0.002670556	0.136654217	1.53293775	0.59651069	0	0	0	0	0	0
cg27087809	ACSBG1	23205	-3.03242	0.002671334	0.136654217	0.65760255	0.59968737	0	0	0	0	0	0
cg16405957	KRT2A	3849	-3.03219	0.002673246	0.136654217	0.6536188	0.58183743	0	0	0	0	0	0
cg20764656	GPX2	2877	3.03204	0.002674591	0.136654217	1.52659576	0.59620815	0	0	0	0	0	0
cg02175308	SORT1	6272	3.03143	0.002679785	0.136654217	1.52250526	0.60704921	0	0	0	0	0	0

C2orf25	cg12086773	27249	3.03036	0.002688933	0.136756065	1.50536759	0.6074526	0	0	0
	cg24528447	7025	3.02952	0.002696235	0.136763696	1.52356138	0.60321702	0	0	1
	cg15378655	23270	3.02842	0.002705687	0.136880065	1.54371367	0.59151876	0	0	0
UBE3A	cg00792740	7337	3.02579	0.00272854	0.136955816	1.50482069	0.60120008	0	0	0
	cg09867835	2740	3.02569	0.002729412	0.136955816	1.52522475	0.60165389	0	0	0
GSTP1	cg11566244	2950	3.02523	0.002733361	0.136955816	1.51304223	0.5980234	0	0	0
	cg11804789	8530	3.02414	0.002742914	0.136955816	1.52565185	0.59565349	0	0	0
SDC2	cg25070637	6383	3.02413	0.002742994	0.136955816	1.51552108	0.62424365	1	0	0
	cg25712380	9402	-3.02106	0.002769995	0.137371353	0.64954317	0.6085115	0	0	0
ABCG2	cg24207176	9429	3.02044	0.002775465	0.137371353	1.52431671	0.5935357	0	0	0
	cg04297093	337970	-3.02034	0.002776355	0.137371353	0.6611703	0.58960266	0	0	0
KRTAP19-3	cg16509569	3071	3.01993	0.002780051	0.137371353	1.51621472	0.60392295	0	0	0
	cg09358725	4005	3.01811	0.002796223	0.13781436	1.52090406	0.59282977	0	0	0
	cg21223353	10218	-3.01522	0.002822044	0.138729423	0.65888671	0.60684752	0	0	0
ANGPTL7	cg13336167	163033	3.01389	0.002834065	0.138963131	1.51857396	0.6023094	0	0	0
	cg24197445	79740	-3.01253	0.002846346	0.139208352	0.6569712	0.60235982	0	0	0
	cg10864501	84271	3.01028	0.002866747	0.139848485	1.51057707	0.6031666	0	0	0
POLIP3	cg11595245	3070	3.00905	0.002877973	0.139926731	1.52276679	0.59338443	0	0	1
	cg11595245	HELLS	3.00905	0.002877973	0.139926731	1.52276679	0.59338443	0	0	0
MAP1A	cg08880153	4130	-3.00851	0.002882986	0.139926731	0.66676566	0.60513312	0	0	0
	cg25466368	3280	3.00608	0.002905297	0.140116764	1.54477625	0.60306575	0	0	0
	cg08002996	8835	3.00535	0.002912019	0.140116764	1.50955525	0.60276321	0	0	0
OVOL1	cg20315951	5017	3.0052	0.002913392	0.140116764	1.52588015	0.58672852	1	0	0
	cg12783573	221302	3.00428	0.002921988	0.140116764	1.51195844	0.60321702	0	0	0
C6orf113	cg10485472	137695	3.00411	0.002923537	0.140116764	1.48740373	0.61375555	0	0	0
	cg03586029	256471	3.00212	0.002942064	0.140387734	1.48612685	0.61657927	0	0	0
SERPINE1	cg205833316	5054	3.00192	0.002943956	0.140387734	1.50817304	0.59378782	0	1	0
	cg08263647	56925	3.00114	0.002951215	0.140387734	1.50697239	0.60170432	0	0	0
C2orf195	cg05004940	79025	3.00023	0.002959768	0.140445257	1.50589137	0.58022388	0	0	0
	cg16509658	2561	2.9985	0.002976067	0.140616157	1.51834091	0.60397338	1	0	0
GABRB2	cg01598642	3047	-2.99828	0.002978076	0.140616157	0.66252418	0.6014522	0	0	0
	cg10266490	26027	2.99535	0.003005931	0.141404745	1.51320701	0.60795684	0	0	0
ACOT11	cg03959079	257397	-2.99496	0.003009567	0.141404745	0.66486875	0.6012505	0	0	0
	cg12733079	11179	2.99321	0.003026334	0.141517858	1.51596877	0.58400565	0	0	0
ZNF277	cg13943564	5055	-2.99206	0.003037402	0.141517858	0.66832504	0.60518354	0	1	0
	cg20637307	2066	2.99177	0.003040139	0.141517858	1.50066954	0.60417507	1	0	0
ERBB4	cg15952725	63036	-2.99162	0.003041576	0.141517858	0.66393695	0.60301533	0	0	1
	cg15952725	ELA2A	-2.99162	0.003041576	0.141517858	0.66393695	0.60301533	0	0	0
TAL2	cg24073022	6887	-2.98853	0.003071458	0.141947616	0.65292796	0.61178903	0	0	0
	cg10895130	149428	-2.98817	0.00307497	0.141947616	0.65051846	0.60135135	0	0	0
BNIP1	cg27510871	257169	2.9878	0.003078558	0.141947616	1.50974581	0.61763816	0	0	0
	C9orf43	50624	-2.98667	0.003089557	0.141947616	0.65288457	0.60346914	1	0	0
CUZD1	cg03283421	373	2.98564	0.003099701	0.141947616	1.51711385	0.60694837	0	0	0
	cg18741962	TRIM23	2.98564	0.003099701	0.141947616	1.51711385	0.60694837	0	0	0
KIAA1008	cg02162950	22894	2.98525	0.00310347	0.141947616	1.52357433	0.60800726	0	1	0

Dec-01	cg10683939	C16orf47	388289	-2.98456	0.003110221	0.141947616	0.65202038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0</
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[illegible]

cg21919219 cg03329572 cg17479357 cg13121699 cg14058345 cg15019617 cg12864903 cg00899659 cg27412093 cg11487967 cg04631202 cg12110626 cg08878352 cg26709859 cg11812202 cg15262928 cg25523753 cg04319097 cg24648715 cg07204803 cg24745738 cg06890553 cg19298821 cg07703337 cg15772361 cg26180557 cg21505886 cg06625811 cg19192316 cg27063986 cg03549127 cg08164315 cg15005385 cg11820734 cg17277939 cg23430634 cg12686915 cg10368842	AMY1A FCRL5 FLJ10803 C2orf10 TNND6 IFIT1 FLJ46247 ZNF22 CAPN9 FLJ41327 MAN1C1 FAM18B2 PPR1R11 SYNJ2BP PNLIP TIMM17A ABHD2 ZNF223 FLJ27505 ZNF610 SERPINB3 POU6F2 TMEM129 KIFAP3 SIRT1 NDST4 GCA PTGER4 CCL3L1 MRPL35 MGC13168 C8orf17 EIF3S3 C10orf81 WDR31 EAF1 ALDH1A1 UBE1L	276 83416 55744 91752 347736 3434 374786 7570 10753 401045 57134 201158 6992 55333 5406 10440 11057 7541 85012 200894 1910 7766 389320 162963 6317 11281 92305 22920 23411 64579 25801 5734 6349 51318 84821 56988 8667 79949 114987 85403 216 7318	-2.89943 -2.89929 2.89781 2.89736 2.89685 2.89629 -2.89606 2.89559 -2.89512 -2.89398 2.89391 2.89335 2.8933 2.89248 -2.8922 2.89087 2.89049 -2.89016 -2.88929 -2.88895 2.88888 2.88825 -2.88769 -2.88634 -2.88626 -2.88612 -2.88608 2.88552 -2.88508 -2.88497 2.88491 2.88481 -2.88478 2.88471 -2.88345 2.88315 -2.88314 -2.88262 2.88161 2.88136 2.88118 2.88049	0.004057731 0.004059467 0.004078138 0.004083802 0.004090161 0.004097264 0.0041002 0.004106133 0.004112023 0.004126593 0.004127476 0.004134609 0.004135279 0.004145733 0.004149257 0.004166269 0.004171256 0.004175498 0.004186647 0.00419102 0.004191944 0.00420007 0.004207348 0.004224843 0.004225919 0.004227766 0.004228255 0.004235559 0.00424122 0.004242711 0.004243478 0.004244842 0.004245131 0.004246143 0.004262608 0.004266563 0.0042667 0.004273514 0.00428676 0.004290085 0.004292383 0.004301584	0.151006209 0.151006209
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cg08056903	GPHN	10243	2.88037	0.004303162	0.151006209	1.49568833	0.61052844	0	0	0	0
cg22788223	NFYA	4800	2.88033	0.00430365	0.151006209	1.46902679	0.60356999	0	0	0	0
cg00646492	GSTO1	9446	2.87848	0.004328145	0.151587542	1.50539133	0.59434248	0	0	0	0
cg25866075	NALP12	91662	2.87716	0.004345723	0.151833537	1.49756195	0.59161961	0	0	0	0
cg23074401	DDX10	1662	2.87581	0.004363758	0.151833537	1.4750283	0.59701493	0	0	0	0
cg00410895	CCDC23	374969	-2.87547	0.004368384	0.151833537	0.67020901	0.59376261	0	0	0	0
cg19255783	PLAC8	51316	2.87512	0.00437301	0.151833537	1.48782475	0.58846813	0	0	0	0
cg15441973	HNMT	3176	-2.87498	0.004374868	0.151833537	0.66672773	0.56686164	0	0	0	0
cg09085198	ANKRD29	147463	2.87258	0.004407311	0.152519343	1.4835036	0.57260992	0	0	0	0
cg26540127	ACTR3	10096	2.87181	0.004417661	0.152519343	1.48369832	0.59101452	0	0	1	0
cg11921829	FCRL2	79368	2.87174	0.004418555	0.152519343	1.49633377	0.58420734	0	0	0	0
cg18876189	FGF	2244	-2.87012	0.004440558	0.152952124	0.67832609	0.58385438	0	0	0	0
cg06324094	JTB	10899	2.86935	0.004451114	0.152952124	1.49556563	0.59222469	0	0	0	0
cg00488718	MGC33302	256471	2.86906	0.004455088	0.152952124	1.48068822	0.59489714	0	0	0	0
cg20023231	HS3ST2	9956	2.86751	0.00447621	0.153401886	1.48946204	0.5945946	1	0	0	0
cg08474603	CRP	1401	-2.86692	0.004484286	0.15340371	0.68031188	0.59081283	0	0	0	0
cg13216057	DDK3	27122	2.86473	0.00451455	0.154021808	1.46736951	0.60740218	0	0	0	0
cg14191360	MET	4233	2.86411	0.00452302	0.154021808	1.50405785	0.60094796	0	0	0	0
cg04914105	PTPN9	5780	2.86386	0.004526517	0.154021808	1.49022422	0.59444332	0	0	0	0
cg11984608	CLDN16	10686	-2.86194	0.004553122	0.154416666	0.67389734	0.6065954	0	0	0	0
cg27609819	PLCL1	5334	-2.86103	0.004565874	0.154416666	0.67907415	0.60069585	0	0	1	0
cg18180783	MYOZ1	58529	-2.86094	0.004567118	0.154416666	0.67400329	0.5954518	0	0	0	0
cg12791554	TAS2R49	259295	-2.8607	0.004570421	0.154416666	0.67347303	0.58980436	0	0	0	0
cg27193335	EIF1B	10289	2.86008	0.004579102	0.154437094	1.48778457	0.60599032	0	0	0	0
cg04660410	VILL	50853	2.85853	0.00460083	0.1545222368	1.4854287	0.57820694	0	0	0	0
cg24683061	PAIP2	51247	2.8583	0.004604118	0.1545222368	1.46819411	0.59585518	0	0	0	0
cg24267801	COX6C	1345	2.85586	0.004638522	0.1545222368	1.46681861	0.60321702	0	0	0	0
cg14818279	SH3TC2	79628	-2.85425	0.004661392	0.1545222368	0.68131718	0.58607301	0	0	0	0
cg19125606	AGT	183	-2.85261	0.004684737	0.1545222368	0.68577092	0.58965309	0	0	0	0
cg18795395	GNG12	55970	2.85257	0.00468536	0.1545222368	1.4785503	0.60266236	1	0	1	0
cg00466436	DEFB126	81623	-2.85225	0.004689901	0.1545222368	0.66354246	0.60815853	0	0	0	0
cg03114244	FEN1	2237	2.8522	0.004690622	0.1545222368	1.47401965	0.5988806	0	0	0	0
cg21614638	DAPP1	27071	2.85201	0.004693286	0.1545222368	1.48456859	0.57815652	0	0	0	0
cg21770145	PCYT2	5833	-2.85112	0.004706023	0.1545222368	0.66785338	0.57729931	0	0	0	0
cg23479658	LIAS	11019	2.8509	0.004709205	0.1545222368	1.48429989	0.59020775	0	0	0	0
cg15540820	EOMES	8320	2.84992	0.004723335	0.1545222368	1.47974117	0.58879589	1	0	1	1
cg25162921	MTAP	4507	2.84976	0.004725625	0.1545222368	1.48347221	0.59550222	0	0	0	0
cg07792737	NPIP	9284	-2.84968	0.004726783	0.1545222368	0.66584433	0.60261194	0	0	0	0
cg12821045	ZNF573	126231	2.84943	0.004730338	0.1545222368	1.47308655	0.58254336	0	0	0	0
cg02863947	NR1J2	8856	2.84927	0.004732761	0.1545222368	1.47797095	0.59789734	0	0	0	0
cg19968631	GLRA3	8001	2.84919	0.004733897	0.1545222368	1.49026368	0.58602259	0	0	0	0
cg18432105	MYH2	4620	-2.84912	0.004734875	0.1545222368	0.6756022	0.60931827	0	0	0	0

cg18013830	RPUSD2	27079	2.84848	0.004744121	0.154522368	1.47123528	0.58793869	0	0	0	0
cg21228284	TXNL4B	54957	2.8482	0.004748073	0.154522368	1.47889172	0.60407422	0	0	0	0
cg27610250	LOC91137	91137	2.84789	0.004752637	0.154522368	1.48657545	0.60301533	0	0	0	0
cg14481339	KCNJ1	3758	-2.84742	0.0047594	0.154522368	0.67386377	0.60432634	0	0	0	0
cg00566759	DSC2	1824	2.84591	0.0047813	0.154569489	1.46894358	0.60725091	0	0	0	0
cg09699159	PRDM11	56981	-2.84552	0.004787015	0.154569489	0.67656026	0.6023094	0	0	0	0
cg16753336	NPAS1	4861	2.84496	0.004795157	0.154569489	1.45973076	0.58012303	1	0	0	0
cg01835489	KRT8	3856	-2.84493	0.004795579	0.154569489	0.66583464	0.59756959	0	0	0	0
cg11995303	DCUN1D5	84259	2.8441	0.004807824	0.154569489	1.46816426	0.60563735	0	1	0	0
cg21511069	UBAP2	55833	2.84366	0.004814208	0.154569489	1.49469213	0.58587132	0	0	1	0
cg15754109	COPS5	10987	2.84256	0.004830373	0.154569489	1.48077415	0.58854377	0	1	0	0
cg15942562	CDCA3	83461	-2.84253	0.004830734	0.154569489	0.67170647	0.58965309	0	0	0	0
cg09461185	PTGS2	5743	2.84155	0.004845243	0.154569489	1.47948669	0.57745059	0	1	0	1
cg18356799	DSC1	1823	-2.84103	0.004852827	0.154569489	0.67535637	0.60780557	0	0	0	0
cg13311440	CD48	962	2.83946	0.00487606	0.154569489	1.45563279	0.60987293	0	0	0	0
cg03532879	SMAF1	149685	-2.83928	0.004878704	0.154569489	0.67582322	0.60024203	0	0	0	0
cg13098960	SOX15	6665	-2.83857	0.004889308	0.154569489	0.67777591	0.58461073	0	0	0	0
cg10746737	HLA-DRB5	3127	-2.8383	0.004893353	0.154569489	0.67898914	0.59363655	0	0	0	0
cg25042226	PAX8	7849	2.83811	0.004896079	0.154569489	1.48353315	0.59227511	1	0	0	0
cg25536676	DHCR24	1718	2.83797	0.004898249	0.154569489	1.48425267	0.59827551	0	0	0	0
cg24408511	C12orf51	283450	-2.83763	0.004903214	0.154569489	0.67176901	0.57651775	0	0	0	0
cg04640886	C19orf30	284424	2.83741	0.004906521	0.154569489	1.47337575	0.57240823	0	0	0	0
cg06786424	PRPF4B	8899	2.8366	0.004918566	0.154569489	1.46917862	0.59817467	0	0	1	1
cg15888522	XCR1	2829	-2.83597	0.004928036	0.154569489	0.6748873	0.58420734	0	0	0	0
cg25782229	WT1	7490	2.83483	0.004945079	0.154569489	1.48639722	0.59265329	1	0	0	0
cg05301852	FABP1	2168	-2.83404	0.004957037	0.154569489	0.68511214	0.6014522	0	0	0	0
cg00384537	KRTHA5	3886	-2.83395	0.004958384	0.154569489	0.67323382	0.59363655	0	0	0	0
cg02275294	SOAT1	6646	2.83374	0.004961567	0.154569489	1.47867771	0.5997378	0	0	1	1
cg11558474	TMEM2	23670	2.83362	0.004963343	0.154569489	1.48272038	0.57896329	0	0	0	0
cg15946807	GADL1	339896	-2.83161	0.00499369	0.154569489	0.68109169	0.58935055	0	0	0	0
cg03973663	LYN	4067	2.83153	0.004994796	0.154569489	1.46850481	0.59656111	0	0	0	0
cg17500329	C8orf17	56988	-2.83112	0.005001047	0.154569489	0.6755015	0.58637556	0	0	0	0
cg04033774	GPM2	29899	-2.83025	0.005014307	0.154569489	0.67070942	0.59646027	0	0	0	0
cg18841894	SOD1	6647	2.83018	0.005015322	0.154569489	1.4664809	0.61340258	0	0	0	0
cg07086380	TNFAIP8	25816	-2.82991	0.005019402	0.154569489	0.6719729	0.60523397	0	0	0	0
cg11489580	G3BP2	9908	2.82951	0.005025569	0.154569489	1.47335512	0.60029246	0	0	0	0
cg00275232	ZNF342	162979	2.82938	0.005027589	0.154569489	1.47032921	0.57689593	0	0	0	0
cg14401837	GPR154	387129	-2.82762	0.005054472	0.154651986	0.68584959	0.59030859	0	0	0	0
cg00646140	ARSD	414	-2.82725	0.005060041	0.154651986	0.67878074	0.59030859	0	0	0	0
cg00112517	PPP1R1B	84152	-2.82703	0.005063512	0.154651986	0.67855209	0.58420734	0	0	1	1
cg04878842	ERCC2	2068	2.82673	0.005068037	0.154651986	1.46386004	0.60135135	0	0	0	0
cg11262874	ZNF681	148213	-2.82656	0.005070708	0.154651986	0.67673714	0.5881908	0	0	0	0

cg10917602	HSD3B7	80270	2.82582	0.005082076	0.154751858	1.46712352	0.5971662	0	1	0	1
cg08779777	PIK3CG	5294	2.82512	0.005092747	0.154830253	1.49061828	0.59333401	0	0	0	0
cg02499249	RARB	5915	2.8243	0.005105394	0.154930763	1.48328605	0.58909843	0	1	1	1
cg21142398	GLIS1	148979	-2.82326	0.005121613	0.154930763	0.67952985	0.59338443	0	0	0	0
cg05120715	UGCG	7357	2.82286	0.005127688	0.154930763	1.4583876	0.6181424	0	0	0	0
cg07122495	MLF1IP	79682	2.82281	0.00512846	0.154930763	1.48907117	0.58955224	0	0	0	0
cg04845063	FAM13A1	10144	2.82085	0.005158956	0.155099031	1.45941391	0.60299012	0	0	0	0
cg01418124	ARHGAP24	83478	2.82013	0.005170289	0.155099031	1.50442005	0.60921743	0	0	0	0
cg07292816	EFCAB3	146779	-2.81995	0.005173091	0.155099031	0.67579834	0.57926583	0	0	0	0
cg24812523	AKAP6	9472	-2.81985	0.005174655	0.155099031	0.67575109	0.58435861	0	0	0	0
cg05032943	SFRS4	6429	2.8195	0.005180039	0.155099031	1.47301127	0.59872933	0	1	0	0
cg15427774	GORASP1	64689	2.81933	0.005182694	0.155099031	1.46551487	0.60624244	0	0	0	0
cg14221831	CDH16	1014	-2.81804	0.005203006	0.155463605	0.68639994	0.57452602	0	0	0	0
cg12237269	SLN	6588	-2.81748	0.005211842	0.155484698	0.67858794	0.60351956	0	0	0	0
cg27147004	PIWIL1	9271	-2.8158	0.00523839	0.155703323	0.67634789	0.59298104	0	0	0	0
cg15248035	CCIN	881	2.81451	0.00525878	0.155703323	1.48488769	0.61062929	0	0	0	0
cg18117847	ZNFN1A1	10320	-2.81406	0.005265915	0.155703323	0.68252411	0.59378782	0	0	0	0
cg25206802	SACS	26278	-2.81021	0.005327339	0.155703323	0.68528999	0.59161961	0	0	0	0
cg14792155	PLA2G4E	123745	-2.81005	0.005333004	0.155703323	0.67840453	0.60856192	0	0	0	0
cg23740844	ATP5L	10632	2.80939	0.005340594	0.155703323	1.44804354	0.5995361	0	0	0	0
cg20867633	GOLT1A	127845	2.80842	0.005356207	0.155703323	1.45716049	0.59585518	0	0	0	0
cg17771150	LCPI	3936	2.8071	0.005377581	0.155703323	1.46948976	0.58617386	0	0	0	0
cg10002103	SLC38A2	54407	2.80649	0.00538746	0.155703323	1.46627197	0.60029246	0	0	0	0
cg07499806	ZSCAN5	79149	-2.80637	0.005389382	0.155703323	0.68419256	0.59383824	0	0	0	0
cg17108383	PCDHGC5	56097	-2.80632	0.005390261	0.155703323	0.68240357	0.57977007	0	0	0	0
cg07376232	AMICA1	120425	2.80631	0.00539041	0.155703323	1.48328206	0.59746874	0	0	0	0
cg05159188	HIST1H4F	8361	2.80583	0.005398174	0.155703323	1.48140589	0.58687979	1	0	0	0
cg16516400	FAM89A	375061	2.80558	0.005402221	0.155703323	1.47083192	0.58864462	0	0	0	0
cg19910382	FABP1	2168	-2.80519	0.005408492	0.155703323	0.67576516	0.5988806	0	0	0	0
cg16377872	SLC1A6	6511	-2.80515	0.005409279	0.155703323	0.67721788	0.57603873	0	0	0	0
cg02973883	WDR21A	26094	-2.80486	0.005413952	0.155703323	0.67440042	0.58012303	0	0	0	0
cg01519742	JAKMIP1	152789	2.8045	0.005419796	0.155703323	1.45549281	0.59651069	0	0	0	0
cg01605783	LOC284837	284837	2.80447	0.005420284	0.155703323	1.46101718	0.58642598	0	0	0	0
cg08707078	MGC72075	340277	2.80399	0.005428119	0.155703323	1.48142358	0.59540137	0	0	0	0
cg08241785	F2RL2	2151	2.80384	0.005430509	0.155703323	1.48188708	0.59963695	0	0	0	0
cg26331192	GMNN	51053	2.80374	0.005432173	0.155703323	1.46186701	0.59580476	0	0	0	0
cg15140807	FLJ31222	388387	-2.80342	0.005437524	0.155703323	0.67670925	0.61007463	0	0	0	0
cg16558203	SLC22A14	9389	-2.80265	0.005450124	0.155703323	0.67095336	0.59494756	0	0	0	0
cg03690162	BAG3	9531	2.80211	0.005458941	0.155703323	1.46440422	0.59378782	0	1	0	0
cg07947930	PRELP	5549	-2.80182	0.005463735	0.155703323	0.67720629	0.60024203	0	0	0	0
cg03570766	CATSPER1	117144	-2.80179	0.005464205	0.155703323	0.67223118	0.56852562	0	0	0	0
cg11903096	PPP2R5C	5527	2.80154	0.005468209	0.155703323	1.49821238	0.6031666	0	0	1	0

cg04689061	PKIA	5569	2.80154	0.005468309	0.155703323	1.49322078	0.58758572	0	0	0	0
cg55623640	IGJ	3512	-2.80132	0.005471924	0.155703323	0.6825235	0.59343485	0	0	0	0
cg25769980	TLR6	10333	-2.80099	0.005477348	0.155703323	0.67365549	0.58597217	0	0	0	0
cg16016036	TPO	7173	-2.8008	0.005480422	0.155703323	0.67066385	0.59091368	0	0	0	0
cg19205041	PHACTR2	9749	-2.80021	0.005490154	0.155703323	0.67331538	0.59666196	0	0	0	0
cg14696870	FCER1A	2205	-2.79986	0.005496007	0.155703323	0.66927873	0.57866075	0	0	0	0
cg02782630	FLJ13614	84142	2.7999	0.00551019	0.155733434	1.44950589	0.58985478	0	0	0	0
cg09230646	FLJ20718	55027	-2.79731	0.005538267	0.155733434	0.67332668	0.58254336	0	0	0	0
cg17186163	C10orf10	11067	2.79699	0.00554351	0.155733434	1.46596738	0.57190399	0	0	0	0
cg03777459	GATA5	140628	2.79681	0.005546561	0.155733434	1.47137628	0.59877975	1	0	0	0
cg22161476	FSTL5	56884	2.79596	0.005560717	0.155733434	1.48193981	0.59237596	0	0	0	0
cg00737514	TBC1D1	23216	2.79287	0.005612582	0.155733434	1.46003581	0.60498185	1	0	0	0
cg02377083	CCBP2	1238	-2.79255	0.00561786	0.155733434	0.67706152	0.58834207	0	0	0	0
cg01177524	NEDD9	4739	2.79235	0.005621307	0.155733434	1.46264334	0.59328358	0	0	0	0
cg07990489	NUP35	129401	2.79203	0.005626756	0.155733434	1.47194907	0.59797297	0	0	0	0
cg27250927	HPS5	11234	2.79168	0.005632544	0.155733434	1.45714506	0.60155305	0	0	0	0
cg12629083	SENPI	29843	2.79161	0.005633734	0.155733434	1.45407578	0.58531666	0	0	0	0
cg21652958	THBS2	7058	2.79147	0.005636102	0.155733434	1.47523885	0.58919927	1	0	1	0
cg01356829	IL12RB2	3595	2.7913	0.005639042	0.155733434	1.46841326	0.60457846	0	0	0	0
cg10078415	ACSM3	6296	2.79124	0.005639977	0.155733434	1.48174333	0.59746874	0	0	0	0
cg16418329	NYD-SP26	85438	-2.79117	0.005641159	0.155733434	0.68426575	0.59358612	0	0	0	0
cg25385272	TAF1A	9015	2.79068	0.005649461	0.155733434	1.46178117	0.57840863	0	0	0	0
cg06185738	SLC17A6	57084	2.79016	0.00565825	0.155733434	1.45920886	0.61138564	1	0	0	0
cg10056627	GNMT	27232	2.78997	0.00566152	0.155733434	1.44905583	0.58466115	0	0	0	0
cg21165909	CPS1	1373	-2.78883	0.005680872	0.155733434	0.68300445	0.59595603	0	0	0	0
cg06403553	PGK2	5232	-2.78878	0.005681766	0.155733434	0.68479941	0.58284591	0	0	0	0
cg17647273	UPB1	51733	-2.78877	0.005681876	0.155733434	0.68737678	0.5881908	1	0	0	0
cg04732193	HSD11B1	3290	-2.78732	0.005706676	0.155733434	0.67800994	0.58844292	0	0	0	0
cg18534872	ZWINT	11130	2.78698	0.005712423	0.155733434	1.46359559	0.58965309	0	0	0	0
cg19994834	GRIA3	2892	2.78639	0.005722538	0.155733434	1.46298366	0.59832594	0	0	1	0
cg13721560	LRPPRC	10128	2.78639	0.005722606	0.155733434	1.46729405	0.5866781	0	0	0	0
cg05969697	BICD2	23299	2.78605	0.005728371	0.155733434	1.45063732	0.59484671	0	0	0	0
cg17260725	CCNB2	9133	2.78595	0.005730211	0.155733434	1.47969404	0.58940097	0	0	1	0
cg23538854	IL7	3574	2.7855	0.005737907	0.155733434	1.46242888	0.59943526	1	0	0	0
cg04087608	HSD3B2	3284	-2.78544	0.005738971	0.155733434	0.68183001	0.59595603	0	0	0	0
cg11609344	YKT6	10652	2.7853	0.005741384	0.155733434	1.46933242	0.60341872	0	0	0	0
cg25533774	SOSTDC1	25928	2.78459	0.005753559	0.155843469	1.47516234	0.57724889	0	0	1	0
cg21094154	TNFSF11	8600	-2.78338	0.005774448	0.156067241	0.67970126	0.59378782	0	0	0	0
cg23455614	MRPS30	10884	2.78316	0.005778174	0.156067241	1.47427627	0.57719847	0	1	0	0
cg10537079	OTC	5009	-2.78249	0.005789864	0.156162418	0.6850984	0.58778741	0	0	1	0
cg16474696	MGC3207	84245	-2.78037	0.005826527	0.156724092	0.68560962	0.57740016	0	0	0	0
cg19928247	TCEAL1	9338	2.78019	0.005829715	0.156724092	1.45624891	0.60220855	1	0	0	0

cg19236745	CSTF3	1479	2.77987	0.005835275	0.156724092	1.47781032	0.60674667	0	0	1	0
cg08552121	TMEM14B	81853	2.7767	0.005890863	0.157995175	1.47496125	0.5858209	0	0	0	0
cg08008403	LHX9	56956	2.77604	0.005902525	0.158086237	1.46432999	0.59570391	0	0	0	0
cg06616147	ICK	22858	2.77484	0.005923608	0.158139398	1.45392515	0.5899052	0	0	0	0
cg24345247	HIST1H4A	8359	2.77474	0.005925489	0.158139398	1.47149108	0.59192215	1	0	0	0
cg05261824	ZNF165	7718	-2.77413	0.005936139	0.158139398	0.68232081	0.56983663	0	0	0	0
cg25461934	PROCR	10544	-2.77405	0.005937589	0.158139398	0.6662373	0.57946753	0	1	0	0
cg23352695	EV12A	2123	2.77219	0.005970592	0.158757012	1.4707431	0.60548608	0	0	0	0
cg08463061	RND3	390	2.77181	0.005977382	0.158757012	1.46684718	0.59005647	0	0	0	0
cg10194829	FGF17	8822	2.77052	0.006000423	0.158914524	1.46115129	0.58345099	0	0	0	0
cg14209870	TAS2R5	54429	-2.77023	0.006005671	0.158914524	0.67884118	0.59822509	0	0	0	0
cg05251000	FREQ	23413	-2.76939	0.006020796	0.158914524	0.68364461	0.58642598	0	0	0	0
cg01868128	LCE5A	254910	-2.76909	0.006026064	0.158914524	0.68576815	0.5830476	0	0	0	0
cg11631275	SDAD1	55153	-2.76872	0.006032777	0.158914524	0.68320953	0.57276119	0	1	0	0
cg07153965	ACRV1	56	-2.76845	0.006037631	0.158914524	0.67483647	0.59736789	0	0	0	0
cg17260449	TOPBP1	11073	2.76753	0.006054196	0.158914524	1.44652672	0.58229125	0	0	0	0
cg26702254	KCND2	3751	2.76742	0.006056075	0.158914524	1.47476219	0.60478015	0	0	0	0
cg03140978	C1orf201	90529	-2.76731	0.006058104	0.158914524	0.67855974	0.60785599	0	0	0	0
cg21263196	BCAM	4059	2.76636	0.006075236	0.158927534	1.46835046	0.6012505	0	0	0	0
cg08099701	GABRA5	2558	-2.76609	0.006080151	0.158927534	0.68800267	0.58143405	0	0	0	0
cg02641676	SLC20A2	6575	-2.76573	0.006086683	0.158927534	0.67860163	0.58501412	0	0	0	0
cg20267005	TYROBP	7305	2.76516	0.006097043	0.158927534	1.46323466	0.57578661	0	0	0	0
cg04473302	SLC26A4	5172	2.76486	0.006102571	0.158927534	1.45728614	0.59580476	1	0	0	0
cg15287183	PP1R9A	55607	2.76422	0.00611414	0.158927534	1.46085689	0.58103066	0	0	0	0
cg04106190	WNT16	51384	-2.76383	0.006121171	0.158927534	0.68766571	0.57977007	1	0	0	0
cg24818418	EGF	1950	-2.76362	0.006125087	0.158927534	0.68781166	0.60846107	0	0	0	1
cg17638468	CD200R1	131450	2.76245	0.006146328	0.159242271	1.46674339	0.58173659	0	0	0	0
cg09303642	NFE2	4778	2.76204	0.006153871	0.159242271	1.46296142	0.58909843	0	0	0	0
cg24110050	TCTEX1D1	200132	2.76001	0.006191228	0.159853708	1.46069197	0.58995563	0	0	0	0
cg08839620	POLD3	10714	2.75863	0.00621666	0.159853708	1.43611953	0.58698064	0	0	0	0
cg21434954	LCE1B	353132	-2.7582	0.006224497	0.159853708	0.68489041	0.58798911	0	0	0	0
cg10957680	G1P3	2537	2.75798	0.006228531	0.159853708	1.48023061	0.58461073	0	1	0	0
cg22268164	TRHR	7201	-2.75759	0.006235826	0.159853708	0.68086687	0.58077854	0	0	0	1
cg07117700	PSMC5	5705	-2.75746	0.006238277	0.159853708	0.68147572	0.57351755	0	0	0	0
cg18555555	FABP7	2173	-2.75664	0.006253518	0.159853708	0.68638109	0.59736789	0	0	0	0
cg01283289	FLJ21963	79611	2.75662	0.006253743	0.159853708	1.4371363	0.6059399	0	0	0	0
cg22931889	TUBB1	81027	-2.75634	0.006259047	0.159853708	0.67845289	0.59484671	0	0	0	0
cg18665563	HMGCB3	3149	-2.75623	0.006261093	0.159853708	0.68779739	0.57861033	0	0	0	0
cg21299958	ITM2C	81618	2.75488	0.006286164	0.160189917	1.47212795	0.57740016	0	1	0	1
cg18701598	LIPA	3988	2.75462	0.006291015	0.160189917	1.44344548	0.6023094	0	0	0	0
cg09161592	PANK1	53354	2.75342	0.006313453	0.160211416	1.46968032	0.58808996	0	0	0	0
cg17503750	KRTAP19-6	337973	-2.75256	0.006329729	0.160211416	0.6860459	0.59373739	0	0	0	0

90226	-2.75208	0.006338692	0.160211416	0.68479167	0.60866277	0	0	0	0
5122	2.75195	0.006341014	0.160211416	1.4562803	0.59746874	0	0	0	1
8463	2.75159	0.006347846	0.160211416	1.44474063	0.60195643	0	0	0	1
49954	-2.75001	0.006377726	0.160211416	0.68433213	0.60190601	0	0	0	0
10794	2.74987	0.006380357	0.160211416	1.44581474	0.59464502	0	0	0	0
90809	2.74984	0.006380903	0.160211416	1.43280487	0.59898144	0	0	0	1
8048	-2.74963	0.006384783	0.160211416	0.68266002	0.58778741	0	0	0	0
119699	2.74939	0.006389341	0.160211416	1.45570262	0.59580476	1	0	0	0
9077	-2.7489	0.006398631	0.160211416	0.68937388	0.58340057	0	0	0	0
56259	2.74885	0.006399609	0.160211416	1.44785704	0.60301533	0	0	0	0
2778	2.74879	0.006400773	0.160211416	1.46641853	0.60730133	1	0	0	0
51280	2.74691	0.006436477	0.160894498	1.46116456	0.60578862	0	0	0	0
60676	-2.74592	0.006455371	0.161156139	0.69060058	0.59293062	0	0	0	0
222183	-2.74548	0.006463821	0.161156709	0.69053298	0.5808996	0	0	0	0
9573	2.74481	0.006476634	0.161265904	1.45667549	0.58687979	0	0	0	1
7978	2.74426	0.006487187	0.16131862	1.45938544	0.58844292	0	0	0	0
3452	-2.743	0.00651141	0.161342372	0.66202738	0.58284591	0	0	0	0
23619	2.74287	0.006513879	0.161342372	1.4536839	0.59474587	0	0	0	0
9598	-2.74254	0.006520332	0.161342372	0.67523065	0.57503025	0	0	0	0
5424	2.74243	0.006522459	0.161342372	1.46440674	0.58788826	0	0	0	0
915	-2.74202	0.006530328	0.161342372	0.6889434	0.59857806	0	0	0	0
92715	-2.74094	0.006551211	0.161649463	0.69254381	0.58314845	0	0	0	0
7145	-2.74015	0.006566579	0.161819863	0.69169567	0.60175474	0	0	0	0
11080	2.73933	0.006582555	0.16200479	1.44727719	0.58627471	0	1	0	0
3437	2.73766	0.006615072	0.162024334	1.47483461	0.57477814	0	0	0	0
84450	2.73755	0.006617157	0.162024334	1.47464284	0.58945139	0	0	0	0
5577	-2.73748	0.006618581	0.162024334	0.68405026	0.589048	0	0	0	1
91807	2.73744	0.006619273	0.162024334	1.46776255	0.60054457	0	0	0	0
27180	2.73711	0.006625713	0.162024334	1.45805098	0.58445946	0	0	0	0
2903	2.73567	0.006654105	0.162138041	1.43464091	0.59787213	0	0	0	0
1630	2.73486	0.006669886	0.162138041	1.46879517	0.60044373	1	0	0	0
54552	-2.73416	0.006683723	0.162138041	0.69208825	0.59167003	0	0	0	0
221393	-2.73338	0.006699112	0.162138041	0.68347342	0.5875353	0	1	0	1
4438	-2.73334	0.006699882	0.162138041	0.68690285	0.59242638	0	0	0	0
7353	2.73304	0.006705838	0.162138041	1.46319824	0.6059399	0	0	0	1
44347	-2.73219	0.006722609	0.162138041	0.68254417	0.58909843	0	0	0	0
3568	-2.73068	0.00675279	0.162138041	0.68953722	0.59580476	0	0	0	0
93343	2.73052	0.006755878	0.162138041	1.4434936	0.59217426	0	0	0	0
9156	2.73038	0.006758743	0.162138041	1.44374514	0.58657725	0	0	0	0
8708	-2.73004	0.006765542	0.162138041	0.69057864	0.58007261	0	0	0	0
5481	2.72972	0.0067719	0.162138041	1.4477219	0.6059399	0	0	0	0
84417	2.72956	0.006775059	0.162138041	1.46873429	0.61057886	0	0	0	0

cg22313025	HACE1	57531	2.72939	0.006778351	0.162138041	1.44754013	0.57578661	0	0	0	0	0
cg03890877	PTK9L	11344	2.72916	0.006783007	0.162138041	1.46339808	0.59560307	0	0	0	0	0
cg01804844	SDCCAG33	10194	-2.7286	0.006794196	0.162138041	0.68486986	0.58587132	0	0	0	0	0
cg05343453	LOC136263	136263	-2.72812	0.006803868	0.162138041	0.67727379	0.58824123	0	0	0	0	0
cg24231716	OTP	23440	2.72771	0.006812119	0.162138041	1.45685279	0.59751916	1	0	0	0	1
cg20318748	NANP	140838	-2.72682	0.006829851	0.162138041	0.69480322	0.59656111	0	0	0	0	0
cg14444244	FLJ13096	80067	-2.72564	0.006853708	0.162138041	0.67406179	0.59429205	0	0	0	0	0
cg08983259	INSL5	10022	-2.72491	0.006868383	0.162138041	0.68701829	0.59111537	0	0	0	0	0
cg21460582	CSPG4	1464	-2.72486	0.006869551	0.162138041	0.68425907	0.58713191	0	0	0	0	0
cg03985136	ULBP2	80328	2.72475	0.006871645	0.162138041	1.43212979	0.59449375	1	0	0	0	0
cg17356252	AIRE	326	2.72446	0.006877639	0.162138041	1.44988206	0.60528439	0	0	0	0	0
cg17022914	BATF2	116071	2.7228	0.006911245	0.162138041	1.44600436	0.58430819	0	1	0	0	0
cg17474651	MAGEC3	139081	-2.72271	0.006913024	0.162138041	0.69004065	0.58975393	0	0	0	0	0
cg26864061	SACM1L	22908	2.72261	0.006915114	0.162138041	1.43876545	0.58340057	0	0	0	0	0
cg24546942	SERPINB4	6318	-2.72233	0.006920781	0.162138041	0.69104	0.60881404	0	0	0	0	0
cg15767406	ZNF660	285349	2.72215	0.006924435	0.162138041	1.44375703	0.59449375	0	0	0	0	0
cg27611781	PDXP	57026	2.72205	0.006926507	0.162138041	1.45947487	0.56817265	0	0	0	0	0
cg04183425	ASF1A	25842	-2.72133	0.006941164	0.162138041	0.68521617	0.58435861	0	0	0	0	0
cg24992780	OR7C1	26664	-2.72053	0.006957584	0.162138041	0.69385594	0.58854377	0	0	0	0	0
cg00615377	RBM9	23543	2.71903	0.00698832	0.162138041	1.46643036	0.59479629	0	0	0	1	0
cg13120814	FLJ11000	55281	2.71881	0.006992748	0.162138041	1.44745671	0.57795482	0	1	0	0	0
cg19817399	CYP1A1	1543	2.71854	0.006998304	0.162138041	1.45637942	0.59555264	0	0	0	0	0
cg09398185	IFIT2	3433	2.71816	0.007006191	0.162138041	1.46562076	0.59293062	0	0	0	0	0
cg01033938	ADAMTS8	11095	2.71804	0.007008641	0.162138041	1.44678233	0.60160347	0	0	0	0	0
cg14188232	ITGA11	22801	2.71793	0.007010756	0.162138041	1.44569252	0.57306374	1	0	0	0	0
cg19863003	REEP5	7905	2.71768	0.007015956	0.162138041	1.43997611	0.59202299	0	0	0	0	0
cg20542800	LTBR	1241	2.71751	0.007019578	0.162138041	1.46399596	0.58935055	0	0	0	0	0
cg25889160	SERPINA5	5104	-2.71735	0.007022868	0.162138041	0.68399152	0.57871117	0	0	0	0	0
cg16275172	TMOD3	29766	2.71732	0.007023478	0.162138041	1.45857548	0.58042558	0	0	0	0	0
cg13253729	Rgr	266747	-2.7169	0.007031993	0.162138041	0.68932124	0.57835821	0	0	0	0	0
cg20217872	NAV3	89795	2.71665	0.007037242	0.162138041	1.46569826	0.57694635	0	0	0	0	1
cg23927367	ACAD8	27034	2.71653	0.007039693	0.162138041	1.46078542	0.60220855	0	0	0	0	0
cg09340639	FCRL1	115350	2.71594	0.007052037	0.162138041	1.46403646	0.59530052	0	0	0	0	0
cg26759925	IL1F9	56300	-2.71527	0.00706582	0.162138041	0.69380533	0.58491327	0	0	0	0	0
cg20831492	BET1	10282	2.71522	0.007066879	0.162138041	1.45161707	0.58768657	0	0	0	0	0
cg15083227	PLEKHQ1	80301	2.71507	0.007070014	0.162138041	1.43107107	0.59293062	0	0	0	0	0
cg23087084	PXMP3	5828	2.71496	0.007072335	0.162138041	1.47423706	0.59348528	0	0	0	1	0
cg11695601	CHN1	1123	2.71474	0.007076805	0.162138041	1.46678469	0.59903187	0	0	0	0	1
cg11688469	TNNI1	7135	-2.71448	0.007082195	0.162138041	0.68566238	0.59323316	0	0	0	0	0
cg19046959	COL8A2	1296	2.71412	0.007089631	0.162138041	1.43727553	0.57785397	0	0	0	0	0
cg18023080	MASP2	10747	-2.71409	0.007090368	0.162138041	0.69110525	0.59509883	0	0	0	0	0
cg05059825	TTC9C	283237	2.71378	0.007096692	0.162138041	1.4382129	0.57664381	0	0	0	0	0

C1orf111	cg16359129	-2.71293	0.007114532	0.162351661	0.6835826	0.60614159	0	0	0
	cg08625022	2.7125	0.007123404	0.162360369	1.45334488	0.60356999	0	0	0
	cg08510456	2.71201	0.007133679	0.162401001	1.46124435	0.5839048	0	0	0
	cg14386061	2.71081	0.007158843	0.162579349	1.47422658	0.58456031	0	0	0
	cg22122449	-2.71047	0.007166051	0.162579349	0.68691493	0.58940097	0	0	0
	cg07285953	-2.70977	0.00718074	0.162579349	0.68575642	0.58849334	0	0	0
	cg05828624	-2.70962	0.007183929	0.162579349	0.67876494	0.59403994	0	0	0
	cg17502536	-2.70961	0.007184023	0.162579349	0.68193373	0.58188786	0	0	0
	cg09632136	-2.70845	0.007208582	0.162735929	0.68665403	0.59061113	0	0	0
	PITPNM2	57605	2.70833	0.00721117	0.162735929	1.46575304	0.58143405	0	0
TES	cg24621354	2.70621	0.00725607	0.162735929	1.43135762	0.58975393	0	0	0
	cg14409958	5168	2.70616	0.007257132	1.45819876	0.58501412	0	0	1
	cg11819637	7066	-2.70577	0.007265394	0.162735929	0.58632513	0	0	0
	cg14606768	735	-2.7057	0.007266894	0.162735929	0.67229504	0.584762	0	0
	cg14168975	212	-2.70517	0.007278059	0.162735929	0.69212262	0.5802743	0	0
	cg18408487	115024	-2.70506	0.007280436	0.162735929	0.68779488	0.57583703	0	0
	cg01618660	9830	2.70502	0.0072813	0.162735929	1.43502962	0.58884631	0	0
	cg12520111	5478	2.70453	0.007291808	0.162735929	1.44218205	0.58985478	0	0
	cg21721865	51569	2.70372	0.007308942	0.162735929	1.46001299	0.59519968	0	0
	TMEM100	55273	2.70283	0.007328115	0.162735929	1.45232154	0.59484671	0	0
PCTK3	cg07713493	5129	2.70243	0.00733671	0.162735929	1.45781081	0.57724889	0	0
	cg13349425	140947	-2.70219	0.00734187	0.162735929	0.68833473	0.59066156	0	0
	cg24949049	81550	-2.702	0.007345922	0.162735929	0.6860694	0.6050827	0	0
	cg23765993	57119	-2.70158	0.007354989	0.162735929	0.68946824	0.58642598	0	0
	cg10324224	79573	-2.70091	0.007369395	0.162735929	0.69467756	0.59640984	0	0
	cg07892051	10566	-2.70053	0.007377453	0.162735929	0.67870373	0.58405607	0	0
	cg15056412	63941	-2.70053	0.00737759	0.162735929	0.68965556	0.5717023	0	0
	cg11265916	5594	2.70022	0.007384215	0.162735929	1.45606491	0.58415692	0	0
	cg20851245	64320	-2.69983	0.007392721	0.162735929	0.68463694	0.59484671	0	0
	IFNA14	3448	-2.69968	0.007395872	0.162735929	0.68755928	0.59101452	0	0
ATXN7	cg27462371	6314	2.69943	0.007401295	0.162735929	1.43050835	0.59656111	0	0
	cg21416022	64927	2.69941	0.007401657	0.162735929	1.44858453	0.5873336	0	0
	cg11655691	10367	2.69932	0.007403691	0.162735929	1.45860739	0.59378782	0	0
	cg07347645	10388	-2.69852	0.007420927	0.162803529	0.68728237	0.58768657	0	0
	cg02780988	8689	-2.69832	0.007425426	0.162803529	0.6946185	0.58445946	0	0
	cg15997411	3716	-2.6998	0.007432307	0.162803529	0.68555823	0.59282977	0	0
	cg18357645	10956	2.69592	0.007477523	0.163294126	1.47169072	0.58443425	0	0
	cg15247144	29108	2.69588	0.007478451	0.163294126	1.43255972	0.57982049	1	0
	cg12531542	80168	-2.69579	0.007480322	0.163294126	0.68386391	0.58577047	0	0
	MOGAT2	5251	-2.69427	0.00751354	0.163786639	0.68487062	0.58864462	0	0
PHEX	cg10906663	80139	2.69398	0.007520013	0.163786639	1.42641269	0.60311618	0	0
	cg18379495	9630	2.69217	0.007559719	0.163870584	1.43267934	0.5998992	1	0
	GNA14								0

cg05754589	CBX5	23468	2.69187	0.007566511	0.163870584	1.44819658	0.59671238	0	1	1	0
cg19784477	TFPI2	7980	2.69086	0.007588677	0.163870584	1.44550775	0.59484671	0	0	0	0
cg04984513	BR13BP	140707	2.69076	0.007590841	0.163870584	1.48194601	0.58546793	0	0	0	0
cg10741369	TRIM7	81786	2.69075	0.00759127	0.163870584	1.45421658	0.58067769	1	0	0	0
cg25661781	WIP1	55062	2.69067	0.007592946	0.163870584	1.45862519	0.59061113	0	0	0	0
cg04972979	C20orf54	113278	2.69066	0.007593078	0.163870584	1.43963021	0.60407422	0	0	0	0
cg16004800	LDUFA9	4704	2.69034	0.007600307	0.163870584	1.4442651	0.57049213	0	0	0	0
cg14091657	NHX3	8022	-2.69031	0.007600991	0.163870584	0.68840858	0.58012303	1	0	0	0
cg06212607	GGPS1	9453	2.68864	0.007637984	0.163984926	1.45031569	0.58758572	0	0	0	0
cg08319404	THRB	7068	2.68748	0.007663766	0.163984926	1.44732762	0.60301533	0	0	0	0
cg13097407	CRIP3	401262	2.6871	0.007672347	0.163984926	1.44410919	0.60185559	0	0	0	0
cg22510822	OR1E2	8388	-2.68706	0.0076731	0.163984926	0.68280612	0.57205526	0	0	0	0
cg11422541	ADCY6	112	2.68605	0.007695793	0.163984926	1.4339218	0.59625857	0	0	0	1
cg12592779	ZNF12	7559	2.68589	0.007699447	0.163984926	1.44923174	0.59615773	0	0	0	0
cg26823505	CLPS	1208	-2.68581	0.007701234	0.163984926	0.68957555	0.57134933	0	0	0	0
cg17500962	C16orf47	388289	-2.68522	0.007714424	0.163984926	0.69030522	0.58022388	0	0	0	0
cg03317245	P2RX5	5026	2.68513	0.007716324	0.163984926	1.43777293	0.59817467	1	0	0	0
cg23599056	ZMYND17	118490	-2.6849	0.007721694	0.163984926	0.68524304	0.56837434	0	0	0	0
cg23855566	FAM73A	374986	2.68456	0.007729184	0.163984926	1.43943661	0.59706535	0	0	0	0
cg18489440	KIAA0746	23231	2.68427	0.0077357	0.163984926	1.45324749	0.57634127	0	0	0	0
cg23112213	CDC23	8697	2.68421	0.007737161	0.163984926	1.44734684	0.58914885	0	1	0	0
cg24399405	C16orf35	8131	2.68413	0.007738964	0.163984926	1.44479946	0.6012505	0	0	0	0
cg00063144	KRTHA1	3881	-2.68369	0.007748742	0.163984926	0.68869097	0.60427592	0	0	0	0
cg26366091	CHI3L2	1117	2.6834	0.007755377	0.163984926	1.44827385	0.59237596	0	0	0	0
cg15602809	CHRM3	1131	2.68307	0.007762861	0.163984926	1.45156105	0.60957039	0	0	0	0
cg07278207	DCDC1	341019	2.68249	0.007775806	0.163984926	1.44792442	0.59827551	0	0	0	0
cg22780428	CEPT1	10390	2.68215	0.007783633	0.163984926	1.44521054	0.59681323	0	1	0	1
cg04956511	PTPN6	5777	2.68207	0.007785482	0.163984926	1.43447629	0.56091166	0	0	0	0
cg26682500	FLJ40919	144809	-2.68166	0.007794704	0.163984926	0.69067726	0.58208955	0	0	0	0
cg23004625	PIGM	93183	2.68158	0.007796405	0.163984926	1.45799448	0.60548608	0	0	0	0
cg25736482	TMC4	147798	2.68127	0.007803527	0.163984926	1.44799751	0.58335014	0	0	0	0
cg15201291	CYP2C8	1558	-2.68083	0.007813609	0.164001653	0.68731297	0.56686164	0	0	0	0
cg24450631	IGF2BP2	10644	-2.67985	0.00783584	0.164001653	0.69211158	0.57392094	0	0	0	0
cg09536738	EFHD1	80303	2.67924	0.007849804	0.164001653	1.44989359	0.58622428	0	0	0	0
cg06366981	HPGD	3248	2.6782	0.007873396	0.164001653	1.42037063	0.58173659	0	0	0	0
cg23889010	SLPI	6590	2.67803	0.007877317	0.164001653	1.44584984	0.57331585	0	0	0	0
cg16598810	DEPDC1	55635	2.678	0.007878004	0.164001653	1.44020881	0.6040238	0	0	0	0
cg16177163	PTDSS1	9791	-2.67791	0.007879972	0.164001653	0.69833128	0.59368697	0	0	0	0
cg26767897	XDH	7498	-2.67744	0.007890935	0.164001653	0.68636062	0.58587132	0	0	0	0
cg17281600	FCRL4	83417	-2.67732	0.007893535	0.164001653	0.69263901	0.59464502	0	0	0	0
cg19556572	AKNA	80709	-2.67613	0.007920819	0.164001653	0.70196102	0.58188786	0	0	0	0
cg04095468	SECISBP2	79048	2.67576	0.007929341	0.164001653	1.44431287	0.60634328	0	1	0	1

Mar-05	cg08016363	TMEM11	8834	2.67575	0.007929606	0.164001653	1.47961061	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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cg13294439	TA-PP2C	160760	2.65887	0.008326667	0.164837003	1.43775466	0.59938483	0	0	0	0
cg5371560	MED18	54797	2.65856	0.008334158	0.164837003	1.43022678	0.5875353	0	0	0	0
cg26232558	OR3A1	4994	-2.65771	0.008354631	0.164837003	0.69311904	0.58173659	0	0	0	0
cg13983870	TSPAN12	23554	2.65755	0.00835858	0.164837003	1.43831493	0.59590561	0	0	0	0
cg16001913	HK1	3098	-2.6574	0.008362239	0.164837003	0.70049084	0.58950182	0	0	0	0
cg20442709	C1orf9	51430	2.65738	0.008362726	0.164837003	1.44713932	0.60331787	0	0	0	0
cg27475152	BTN1A1	696	-2.65687	0.008374922	0.164837003	0.68270306	0.58945139	0	0	0	0
cg17687282	A4GNT	51146	-2.65675	0.008377989	0.164837003	0.68598504	0.57624042	0	0	0	0
cg03752689	C1orf74	148304	2.65672	0.008378506	0.164837003	1.44198273	0.58859419	0	0	0	0
cg22464186	TNFRSF21	27242	-2.65626	0.008389635	0.164886316	0.69947651	0.5909641	0	0	1	0
cg08872493	HTR1D	3352	-2.65521	0.008415082	0.165191352	0.69306117	0.59461981	0	0	0	0
cg06698742	TMEM126A	84233	2.65472	0.008427151	0.165191352	1.44099058	0.60029246	0	0	0	0
cg01423840	FATE1	89885	-2.65456	0.008431071	0.165191352	0.6857885	0.59272892	0	0	0	0
cg11891583	GLUD2	2747	-2.65335	0.00846052	0.165378008	0.67841171	0.57336628	0	0	0	0
cg13281868	C6orf142	90523	-2.6531	0.008466508	0.165378008	0.68753147	0.59131706	0	0	0	0
cg12484193	DUSP19	142679	2.6531	0.008466542	0.165378008	1.44078379	0.59398951	0	1	0	0
cg03312792	SEMG2	6407	-2.65233	0.008485254	0.16545354	0.68830564	0.56923155	0	0	0	0
cg03554552	PPP1R13L	10848	2.65068	0.008525806	0.16545354	1.42893703	0.56882816	0	0	0	0
cg22001782	BCL9	607	2.6496	0.008552494	0.16545354	1.45003481	0.58450988	0	0	1	1
cg26449836	SSBP1	6742	2.64953	0.008554149	0.16545354	1.45197934	0.59126664	0	0	0	0
cg10929387	ITIH4	3700	-2.64896	0.008568056	0.16545354	0.69730695	0.58788826	0	0	0	0
cg25124223	NUP43	348995	2.6489	0.008569697	0.16545354	1.44408648	0.59066156	0	0	0	0
cg04970352	ALX4	60529	2.64868	0.00857517	0.16545354	1.44355259	0.60220855	1	0	0	1
cg02936740	TMPRSS11F	389208	-2.64852	0.008578984	0.16545354	0.69465429	0.59328358	0	0	0	0
cg08539991	ZBTB32	27033	-2.64832	0.008584011	0.16545354	0.69472284	0.60810811	0	0	0	0
cg09499849	ACVR1	90	2.64779	0.00859716	0.16545354	1.4535536	0.58400565	0	0	0	0
cg12783776	SERPING1	710	2.64686	0.008620021	0.16545354	1.45044734	0.59202299	0	0	0	1
cg24512303	HNF4G	3174	-2.64648	0.008629556	0.16545354	0.69392365	0.58687979	0	0	0	0
cg20870559	OAS2	4939	2.64628	0.008634432	0.16545354	1.43924329	0.58854377	0	1	0	0
cg11745019	ANGPT1	284	2.64628	0.008634472	0.16545354	1.43872946	0.58380395	0	0	1	0
cg06177698	GABRQ	55879	-2.64617	0.008637227	0.16545354	0.69266877	0.59247681	0	0	0	0
cg17177336	HSPC268	154791	2.64617	0.008637366	0.16545354	1.4405636	0.57714804	0	0	0	0
cg01172484	MAGEH1	28986	2.64583	0.008645676	0.16545354	1.42590047	0.57714804	0	1	0	0
cg12799265	C1orf50	79078	2.64577	0.008647128	0.16545354	1.43457422	0.57830779	0	0	0	0
cg20939319	TEX15	56154	2.64574	0.008647882	0.16545354	1.43360265	0.58244252	0	0	0	0
cg00546491	PDE1C	5137	-2.64527	0.008659538	0.16545354	0.67828845	0.56797096	0	0	0	0
cg18509239	IGSF10	285313	-2.6452	0.008661319	0.16545354	0.69062352	0.5954518	0	0	0	0
cg15207619	CAB39L	81617	2.64511	0.008663567	0.16545354	1.44564127	0.59298104	0	0	0	0
cg19754094	STAMPB	10617	2.64455	0.008677602	0.16545354	1.43937483	0.57926583	0	0	0	0
cg12256080	ABT1	29777	2.64428	0.008684343	0.16545354	1.43270525	0.62141993	0	0	0	0
cg10160407	PDGRL	5157	2.64338	0.008706911	0.16545354	1.43114254	0.55642396	0	0	0	0
cg03976567	C6orf199	221264	2.64336	0.008707284	0.16545354	1.44337654	0.59862848	0	0	0	0

cg06392589	FND C6	152028	-2.62581	0.009156745	0.166932256	0.69876831	0.59898144	0	0	0	0	0
cg11152574	ACSL5	51703	-2.62561	0.009161913	0.166932256	0.69000395	0.57245865	0	0	0	0	0
cg02311163	SEMG2	6407	-2.62517	0.009173647	0.166932256	0.69694155	0.58972872	0	0	0	0	0
cg14813406	CDC14A	8556	2.625	0.009178108	0.166932256	1.43847862	0.58763614	0	1	0	0	0
cg14490250	FAM96A	84191	2.6248	0.009183336	0.166932256	1.42997086	0.5665591	0	0	0	1	0
cg01889448	HLA-DQB1	3119	-2.62354	0.009216434	0.167274902	0.70264993	0.59701493	0	0	0	0	0
cg19275050	HAS2	3037	2.62341	0.009219704	0.167274902	1.45272335	0.58693021	0	1	0	0	0
cg09748960	BTNL2	56244	-2.6228	0.009235929	0.167410435	0.69261528	0.57845906	0	0	0	0	0
cg16625125	NUDT8	254552	2.62219	0.00925209	0.167544552	1.42004835	0.59570391	0	0	0	0	0
cg19548738	KIAA0738	9747	2.62052	0.009296271	0.167760539	1.44783905	0.60790641	0	0	0	1	0
cg08258650	SLC1A2	6506	2.62052	0.009296355	0.167760539	1.43259455	0.60825938	1	0	0	0	0
cg27351998	IFNA5	3442	-2.6204	0.009299463	0.167760539	0.70208825	0.57709762	0	0	0	0	0
cg16543027	PLCB2	5330	2.61988	0.009313212	0.167760539	1.41908197	0.58622428	0	0	0	0	0
cg27079104	HEXA	3073	2.61887	0.009340211	0.167760539	1.42198934	0.57371924	0	0	0	0	0
cg24777454	LRR C34	151827	2.61885	0.009340748	0.167760539	1.42618852	0.57649254	0	0	0	0	0
cg167371016	LGALS4	3960	-2.61845	0.009351317	0.167760539	0.69719295	0.57866075	0	0	0	0	0
cg21787280	FLJ25976	283579	-2.6182	0.009358135	0.167760539	0.69261759	0.58824123	0	0	0	0	0
cg16495265	HOXB5	3215	2.61783	0.009367871	0.167760539	1.45088958	0.58400565	0	0	1	0	0
cg10303842	CDH12	1010	2.61764	0.009372968	0.167760539	1.43698903	0.57977007	0	0	0	0	0
cg22334000	MG C35043	255119	2.61743	0.009378692	0.167760539	1.43225432	0.60074627	1	0	0	0	0
cg08496998	TRIAD3	54476	-2.61735	0.009380756	0.167760539	0.68634068	0.57987092	0	0	0	0	0
cg19447966	TEAD1	7003	-2.61679	0.009395748	0.167760539	0.6985668	0.59146833	0	0	0	1	0
cg20938689	COX7C	1350	2.6163	0.009408942	0.167760539	1.44690036	0.5742739	0	1	0	0	0
cg20576510	PROM1	8842	-2.61589	0.009419823	0.167760539	0.69858016	0.57608915	0	0	0	0	0
cg09911342	ASZ1	136991	-2.61572	0.009424475	0.167760539	0.69314205	0.58178701	0	0	0	0	0
cg15972294	GNAI2	2771	2.61566	0.009425965	0.167760539	1.43801244	0.56202098	0	0	0	0	0
cg03608974	ZAK	51776	2.61532	0.00943509	0.167760539	1.42675912	0.58682937	0	0	0	0	0
cg11434468	XKR6	286046	2.61525	0.009437142	0.167760539	1.42087668	0.58254336	0	0	0	0	0
cg11267879	CYP2F1	1572	-2.61454	0.009456328	0.167760539	0.69296843	0.57543364	0	0	0	0	0
cg17897236	NIPA2	81614	2.61406	0.009469236	0.167760539	1.42145634	0.56605486	0	0	0	0	0
cg01092036	MMP8	4317	-2.61396	0.009471943	0.167760539	0.6941989	0.57977007	0	0	0	0	0
cg13384498	CRYGB	1419	-2.61325	0.009491011	0.167760539	0.68522983	0.59530052	0	0	0	0	0
cg18665384	FLJ43505	400823	-2.61275	0.009504614	0.167760539	0.69375116	0.58970351	0	0	0	0	0
cg23737055	ANKRD46	157567	2.61246	0.009512398	0.167760539	1.45081905	0.57825736	0	1	0	0	0
cg00415993	F2RL2	2151	2.61233	0.009515833	0.167760539	1.44559189	0.59167003	0	0	0	0	0
cg10218646	ZBTB11	27107	2.61218	0.009520109	0.167760539	1.42262672	0.59535095	0	0	0	0	0
cg25756129	SFRS10	6434	2.61187	0.009528569	0.167760539	1.42779792	0.59812424	0	0	0	0	0
cg21615127	TMC04	255104	2.61164	0.009534682	0.167760539	1.43431537	0.58329972	0	0	0	0	0
cg26728886	C1orf118	374987	2.61162	0.009535116	0.167760539	1.42322595	0.57886245	0	0	0	0	0
cg00256166	KLHL25	64410	2.61159	0.009535972	0.167760539	1.42487441	0.57472771	0	0	0	0	0
cg27250462	OTEX	158800	-2.61072	0.00955976	0.168024454	0.6956577	0.58516539	0	0	0	0	0
cg05389183	PPIC	5480	2.60988	0.009582474	0.168269024	1.42731714	0.60009076	0	1	0	0	0

[illegible]

cg19478478	TRDN	10345	-2.58978	0.010145155	0.170689212	0.69598227	0.58203913	0	0	0	1
cg09305478	MGC15416	84331	-2.58972	0.010146949	0.170689212	0.70200648	0.58168616	0	0	0	0
cg15869642	CBLN1	869	-2.58952	0.010152559	0.170689212	0.70229027	0.580476	1	0	0	0
cg26560960	CBWD2	150472	2.58936	0.010157202	0.170689212	1.42406833	0.56348326	0	0	0	0
cg12561748	ZNF307	387032	2.58871	0.010175983	0.170689212	1.44147708	0.57059298	0	0	0	0
cg27185377	PTTG1	9232	2.5885	0.010182026	0.170689212	1.43750209	0.58930012	0	0	0	0
cg23850272	ZNF228	7771	2.58848	0.010182594	0.170689212	1.41499363	0.57845906	0	0	1	0
cg14659547	RETNLB	84666	-2.58831	0.010187459	0.170689212	0.69820647	0.58854377	0	0	0	0
cg06378617	KRT23	25984	-2.58774	0.010204081	0.170689212	0.699811	0.5751311	0	0	0	0
cg24731756	ILK	3611	2.58763	0.010207128	0.170689212	1.42645826	0.58450988	0	0	0	0
cg26555310	RPE65	6121	-2.58723	0.010218781	0.170689212	0.69386388	0.58466115	0	0	0	0
cg09142399	CRYZ	1429	-2.58669	0.010234295	0.170689212	0.69059426	0.5866781	0	1	0	0
cg26235710	FLJ38984	127703	2.58646	0.010241068	0.170689212	1.4404347	0.57795482	0	0	0	0
cg16863447	TMEM117	84216	-2.58605	0.010252683	0.170689212	0.70446102	0.58224082	0	0	0	0
cg12757684	PLAGL1	5325	2.58585	0.010258585	0.170689212	1.44049297	0.58481242	0	0	0	1
cg19358493	EMX2	2018	2.58573	0.010262045	0.170689212	1.42069537	0.58665781	1	0	0	1
cg21727574	ZNF137	7696	-2.58552	0.010268313	0.170689212	0.70201286	0.58521581	0	0	0	0
cg11701148	MYOM2	9172	2.58545	0.010270317	0.170689212	1.42041043	0.58198871	0	0	0	0
cg24801210	PCNP	57092	2.58523	0.010276579	0.170689212	1.43245339	0.58087939	0	0	0	0
cg19718882	WIT-1	51352	2.58519	0.010277857	0.170689212	1.42227961	0.60084712	1	0	0	0
cg24628744	H2AFY	9555	2.58473	0.010291242	0.170689212	1.43473712	0.57548407	0	0	1	0
cg10339201	F9	2158	-2.58439	0.010301119	0.170689212	0.70051226	0.59590561	0	0	0	0
cg06225581	ZMAT2	153527	2.58418	0.010307155	0.170689212	1.40876643	0.61541952	0	0	0	0
cg09412782	C15orf48	84419	-2.5841	0.010309406	0.170689212	0.68654719	0.57134933	0	0	0	0
cg27164762	HIGD2A	192286	2.58299	0.01034197	0.171080237	1.42254699	0.57916499	0	0	1	0
cg04658354	BRCA1	672	2.58204	0.010369676	0.171210043	1.4261389	0.58687979	0	0	0	0
cg21935083	RAD50	10111	2.58185	0.010375301	0.171210043	1.43995533	0.58002219	0	0	0	0
cg06122080	OXSM	54995	2.5818	0.010376676	0.171210043	1.42955326	0.57422348	0	1	0	0
cg23214764	PRSS23	11098	2.58115	0.010395821	0.171257263	1.43153932	0.57971965	0	0	0	0
cg24453353	HIST1H4C	8364	2.58109	0.010397449	0.171257263	1.42339419	0.58244252	1	0	1	0
cg21649520	PMP2	5375	-2.58068	0.010409582	0.171309553	0.6938363	0.58708148	0	0	0	0
cg22609784	MSX1	4487	2.57961	0.010440966	0.17167828	1.41878054	0.58173659	1	0	0	0
cg07356189	CXorf2	1527	-2.57904	0.010457876	0.171734933	0.69760012	0.58037515	0	0	0	0
cg19692710	DNAJB13	374407	-2.57839	0.010477119	0.171734933	0.70056613	0.56882816	0	0	0	0
cg27622610	OR1G1	8390	-2.57826	0.010480928	0.171734933	0.69327108	0.6012505	0	0	0	0
cg25203856	NALP14	338323	-2.57821	0.010482415	0.171734933	0.70467276	0.57709762	0	0	0	0
cg16434546	SDCCAG10	10283	2.57797	0.010489314	0.171734933	1.42443306	0.58042558	0	0	0	0
cg11808544	FKBP9L	360132	-2.57761	0.010499953	0.171762059	0.70147043	0.57780355	0	0	0	0
cg11390468	IFT57	55081	2.57717	0.010513022	0.171828858	1.43390585	0.5901069	0	0	0	0
cg14550518	ZNF659	79750	2.57645	0.010534525	0.171963257	1.42587234	0.58970351	0	0	0	0
cg06394897	AK2	204	2.57629	0.01053923	0.171963257	1.42915786	0.58491327	0	0	0	0
cg07211259	PDCD1LG2	80380	2.57525	0.010570271	0.172322703	1.43262579	0.59842679	0	0	0	0

cg14532519	TCF20	6942	-2.57303	0.010636513	0.172934782	0.69226299	0.59918314	1	0	0	1	0
cg02523400	SERPIND1	3053	-2.57271	0.010646184	0.172934782	0.70244384	0.57180315	0	0	0	0	1
cg06583518	ZNF571	51276	2.572	0.010667394	0.172934782	1.43416169	0.59373739	0	0	0	0	0
cg25355065	SFXN2	118980	2.57191	0.010669989	0.172934782	1.42102318	0.58052642	0	0	0	0	1
cg09794131	HYDIN	54768	2.57104	0.010696211	0.172934782	1.41297471	0.58314845	0	0	0	0	0
cg07236769	IFNW1	3467	-2.57063	0.010708433	0.172934782	0.70111328	0.58355184	0	0	0	0	0
cg05467167	GOSR2	9570	2.57015	0.010723199	0.172934782	1.4185169	0.59025817	0	0	0	0	0
cg03808835	PCDH15	65217	2.57007	0.010725331	0.172934782	1.41808469	0.59298104	0	0	0	0	0
cg17703324	OPTC	26254	-2.56991	0.010730333	0.172934782	0.70437064	0.58375353	0	0	0	0	0
cg18676679	BANP	54971	2.56989	0.010730883	0.172934782	1.42802092	0.58274506	0	0	0	0	0
cg20811607	SMPD2	6610	-2.5698	0.010733663	0.172934782	0.7072372	0.58123235	0	0	0	0	0
cg05661838	MOS	4342	2.56974	0.010735299	0.172934782	1.41268389	0.57780355	0	0	0	0	1
cg23822915	CYB5R4	51167	2.56944	0.010744353	0.172934782	1.41225281	0.57760186	0	0	0	0	0
cg16525692	CHD1L	9557	2.56854	0.010771742	0.172934782	1.42529963	0.58087939	0	0	0	0	0
cg23612220	TNFAIP8L2	79626	2.56782	0.010793585	0.172934782	1.43498693	0.58269464	0	0	0	0	0
cg05921581	KRT1B	374454	-2.56777	0.010795119	0.172934782	0.69226697	0.59343485	0	0	0	0	0
cg02686662	PPAP2C	8612	2.56754	0.010801958	0.172934782	1.43902212	0.57911456	0	0	0	0	0
cg02205739	PRR2	51450	2.56711	0.010815159	0.172934782	1.43409802	0.60437677	0	0	0	0	1
cg24387380	GABRA5	2558	-2.56681	0.010824145	0.172934782	0.70068377	0.58450988	0	0	0	0	0
cg20647137	AKR1D1	6718	-2.56625	0.010841172	0.172934782	0.68614792	0.58733336	0	0	0	0	0
cg14863484	GOT2	2806	2.56625	0.010841444	0.172934782	1.40444422	0.58783784	0	0	0	0	0
cg09845785	PDE1A	5136	2.56559	0.010861371	0.172934782	1.42622329	0.60094796	0	0	0	0	1
cg14654385	URP2	83706	2.56556	0.010862423	0.172934782	1.420115	0.60967124	0	0	0	0	0
cg12706983	ZNF435	80345	2.56536	0.010868438	0.172934782	1.43892495	0.57578661	0	0	0	0	0
cg10035303	TRPC4AP	26133	2.56533	0.010869392	0.172934782	1.42350899	0.58208955	0	0	0	1	0
cg14275779	PLEKHH3	79990	2.56529	0.010870533	0.172934782	1.40134336	0.60604074	0	0	0	0	0
cg11933375	FLJ10815	55238	2.56524	0.010872124	0.172934782	1.42516976	0.59252723	0	0	0	0	0
cg19033555	DEFB1	1672	-2.56513	0.010875595	0.172934782	0.70418363	0.57694635	0	0	0	0	0
cg01941619	MEP1B	4225	-2.56502	0.010878869	0.172934782	0.69699351	0.5969645	0	0	0	0	0
cg12965512	TSPAN8	7103	-2.56483	0.010884651	0.172934782	0.70248672	0.5943929	1	0	0	0	0
cg22244122	SURF4	6836	2.56471	0.010888159	0.172934782	1.40717398	0.57664381	0	0	0	0	0
cg21497439	HAPLN4	404037	-2.56434	0.010899758	0.172975352	0.70461102	0.58208955	0	0	0	0	0
cg05545504	HTN1	3346	-2.5638	0.010916143	0.173006385	0.6990323	0.57694635	0	0	0	0	0
cg11871280	SLC16A7	9194	-2.56327	0.010932526	0.173006385	0.69780354	0.58123235	0	0	0	0	0
cg20551517	GIP	2695	-2.56293	0.01094286	0.173006385	0.70060659	0.57503025	0	0	0	0	0
cg14281165	PIGO	84720	-2.56292	0.010943125	0.173006385	0.71297967	0.58007261	0	0	0	0	0
cg09244244	KIAA0372	9652	2.56256	0.010954377	0.173006385	1.42982037	0.59736789	0	0	0	0	0
cg05194726	NRIP2	83714	2.56247	0.010956875	0.173006385	1.41676476	0.58012303	0	0	0	0	0
cg13794642	ZNF157	7712	-2.56162	0.010983265	0.173006385	0.70526762	0.57573618	0	0	0	0	0
cg09212468	C16orf50	84229	2.56122	0.01099557	0.173006385	1.43783299	0.60281364	0	0	0	0	0
cg09906309	C11orf46	120534	2.56073	0.011010583	0.173006385	1.40842768	0.59288019	0	0	0	0	0
cg18986713	LEPROTL1	23484	-2.56068	0.011012346	0.173006385	0.70602021	0.60135135	0	0	0	1	0

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122665	cg00935388	RNASE8	-2.54689	0.011445841	0.173856824	0.7017762	0.59998992	0	0	0	0
51022	cg10704545	GLRX2	-2.54682	0.011448081	0.173856824	0.70186614	0.5785599	0	1	0	0
127255	cg00402366	LRRCA4	2.54659	0.011455337	0.173856824	1.42056515	0.59474587	0	0	0	0
7474	cg00828602	WNT5A	2.54601	0.01147389	0.173874711	1.42541963	0.5708451	0	0	0	0
6720	cg14808739	SREBF1	-2.54598	0.011474701	0.173874711	0.70129705	0.59227511	0	0	0	1
4904	cg27530424	YBX1	-2.54511	0.011502839	0.17401747	0.71023298	0.58803953	0	0	0	0
136541	cg14153740	TRY1	-2.54489	0.011509866	0.17401747	0.7019292	0.56897943	0	0	0	0
377677	cg18503260	CA13	2.54484	0.011511422	0.17401747	1.42194717	0.59172045	0	1	0	1
166336	cg23047271	PRICKLE2	2.54442	0.011524854	0.174081842	1.42612982	0.57724889	0	0	0	0
254778	cg17449882	C8orf46	-2.54414	0.011533887	0.174081842	0.69867724	0.57039129	0	0	0	0
9724	cg24167928	UTP14C	-2.54344	0.01155645	0.174284832	0.70216928	0.57734974	0	0	0	0
1937	cg20518716	EEF1G	2.54258	0.011584356	0.17443899	1.40810718	0.58138362	0	0	0	0
10972	cg18672421	TMED10	2.54256	0.011584916	0.17443899	1.41135673	0.56988705	0	0	1	0
8345	cg14776962	HIST1H2BH	2.54093	0.011637756	0.175096748	1.42368652	0.58314845	0	1	0	0
84108	cg27217148	PCGF6	2.53995	0.011669484	0.17540323	1.41255454	0.59429205	0	0	0	0
4889	cg13975625	NPY5R	2.53974	0.011676471	0.17540323	1.40425781	0.57634127	1	0	0	0
57002	cg08120190	C7orf36	2.53889	0.011704195	0.175622073	1.41280276	0.58698064	0	0	0	0
3713	cg05440289	IVL	-2.53866	0.011711543	0.175622073	0.70130033	0.58501412	0	0	0	0
57007	cg18694780	CMKOR1	2.53775	0.011741405	0.175622073	1.42009146	0.5935357	0	0	0	0
55816	cg09260441	DOK5	2.5376	0.011746445	0.175622073	1.41848298	0.60014119	0	0	0	0
55754	cg26174387	TMEM30A	2.53754	0.011748294	0.175622073	1.41323201	0.57175272	0	0	0	0
6362	cg08214029	CCL18	-2.53747	0.011750677	0.175622073	0.69739498	0.59363655	0	0	0	0
3696	cg17864730	ITGB8	2.5368	0.011772404	0.175622073	1.41354332	0.58042558	0	0	0	0
334	cg10882227	APLP2	2.53642	0.011785014	0.175622073	1.42606507	0.57366882	0	0	1	0
81603	cg14603406	TRIM8	-2.5364	0.011785585	0.175622073	0.71272663	0.58259379	0	0	0	1
83444	cg03490115	ZNHT4	2.53626	0.01179011	0.175622073	1.43694562	0.58319887	0	0	0	0
2297	cg03663715	FOXD1	2.53606	0.011796804	0.175622073	1.42010053	0.58062727	0	0	0	0
51000	cg01808130	SLC35B3	2.53592	0.011801245	0.175622073	1.41879834	0.58987999	0	0	0	0
79733	cg25685640	E2F8	2.53558	0.011812553	0.175651301	1.42948863	0.56842477	0	0	0	0
7991	cg19353006	TUSC3	-2.53531	0.01182158	0.175651301	0.70327676	0.5892497	0	0	0	0
149483	cg16907488	CCDC17	-2.5347	0.011841579	0.175720802	0.70091822	0.57119806	0	0	0	0
2086	cg27542948	ERV3	-2.53458	0.011845625	0.175720802	0.70512576	0.58098023	0	0	0	0
4004	cg11102794	LMO1	2.53382	0.011870429	0.175720802	1.41528172	0.59691408	1	0	0	0
401474	cg05040429	SAMD12	2.53326	0.011889144	0.175720802	1.41640993	0.58940097	0	0	0	0
8480	cg19734148	RAE1	2.53314	0.011893089	0.175720802	1.40901797	0.58113151	0	0	0	0
11257	cg13741326	TP53AP1	2.5331	0.011894422	0.175720802	1.41991407	0.57810609	0	0	0	0
57214	cg15973234	KIAA1199	-2.53294	0.011899531	0.175720802	0.71039095	0.57074425	1	0	0	0
5939	cg07589355	BMS2	2.53215	0.011925736	0.175720802	1.42904291	0.58395522	0	0	0	0
4838	cg04377282	NODAL	2.53201	0.011930382	0.175720802	1.40592688	0.5594998	0	0	1	0
26999	cg00986320	CYFIP2	-2.53195	0.01193238	0.175720802	0.69957498	0.5883925	0	0	0	0
400	cg08132767	ARL1	2.5319	0.011934061	0.175720802	1.41311578	0.6057382	0	0	0	0
284119	cg14070162	PTRF	2.53183	0.011936525	0.175720802	1.41745262	0.58486285	0	0	0	0

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cg03746685	TMEM126B	55863	2.50254	0.012945118	0.178644922	1.41182713	0.58814038	0	0	0	0
cg18787783	MMP19	4327	-2.50192	0.012967225	0.178644922	0.70898714	0.57745059	0	0	0	0
cg14378057	KIAA0240	23506	-2.50189	0.012968224	0.178644922	0.7189816	0.58229125	0	0	0	0
cg22211866	HMG20A	10363	2.50158	0.01297947	0.178644922	1.40477001	0.57694635	0	0	1	0
cg11015241	ATP10A	57194	-2.50152	0.012981329	0.178644922	0.70446715	0.57815652	0	0	0	0
cg05964373	TEX9	374618	2.50128	0.012990031	0.178644922	1.39459085	0.5945946	0	0	0	0
cg16998207	FCMD	2218	2.50123	0.012991882	0.178644922	1.40753986	0.57608915	0	0	0	0
cg01568335	C0X5B	1329	2.50115	0.012994615	0.178644922	1.38957321	0.59822509	0	0	0	0
cg06222800	KRTAP21-1	337977	-2.50021	0.013028362	0.178980199	0.69877372	0.58375353	0	0	0	0
cg14376424	FAM71B	153745	-2.49911	0.01306804	0.179396401	0.70844538	0.56615571	0	0	0	0
cg17017278	TRUB1	142940	2.49796	0.013109286	0.179702275	1.42310583	0.5881908	0	0	0	0
cg17918700	KCNK7	10089	-2.49795	0.013109742	0.179702275	0.71216681	0.58244252	0	0	0	0
cg02241259	IL23R	149233	-2.49771	0.013118512	0.179702275	0.70569416	0.56499597	0	0	0	0
cg19486271	DBB2	1643	2.49736	0.013131266	0.179748215	1.39489686	0.56418919	0	0	0	0
cg11189837	ADAMTS1	9510	2.49698	0.013144789	0.179804628	1.39075299	0.57719847	0	0	0	0
cg08001895	EPHA7	2045	2.49664	0.013157107	0.179844468	1.40803458	0.57250908	0	0	1	0
cg05181279	RIG	10530	-2.49632	0.013168895	0.179862907	0.7093879	0.59751916	0	0	0	0
cg12960248	MGC11335	81577	2.49585	0.013185769	0.179862907	1.40477443	0.59136749	0	0	0	0
cg17356112	PLXNA4B	91584	-2.49583	0.013186673	0.179862907	0.70925054	0.59045986	0	0	0	0
cg12846567	ZNF556	80032	-2.49534	0.013204138	0.179972768	0.7066548	0.58516539	0	0	0	0
cg13784855	PVT1	5820	2.49478	0.013224485	0.180029638	1.40031736	0.58324929	0	0	0	0
cg16619240	LIMA1	51474	2.49462	0.013230307	0.180029638	1.40037664	0.59832594	0	1	0	0
cg00354572	FLJ21963	79611	2.49429	0.01324254	0.180029638	1.41474587	0.58113151	0	0	0	0
cg04001668	GPR56	9289	-2.49419	0.013246208	0.180029638	0.71440649	0.58329972	0	0	0	0
cg14187678	TBR1	10716	2.49384	0.013258919	0.180029638	1.41538934	0.59056071	1	0	0	0
cg25507001	NME5	8382	2.49339	0.013275233	0.180029638	1.43248887	0.57291247	0	0	0	0
cg12788467	TCF2	6928	2.49329	0.013278942	0.180029638	1.40712604	0.58314845	1	0	0	0
cg06456031	FLJ11000	55281	2.49316	0.013283625	0.180029638	1.42056962	0.58970351	0	1	0	0
cg27269917	SLC5A10	125206	-2.49165	0.013339015	0.180384353	0.71997598	0.59499798	0	0	0	0
cg04878727	ZNF306	80317	2.49154	0.01334293	0.180384353	1.41301853	0.57800524	0	0	0	0
cg06434470	DPP6	1804	-2.49142	0.013347415	0.180384353	0.70220565	0.56197055	1	0	0	0
cg21230435	OPN1SW	611	-2.49133	0.013350637	0.180384353	0.70433102	0.59403994	0	0	0	0
cg24719601	PHOX2B	8929	2.49116	0.013356963	0.180384353	1.39873646	0.58773699	1	0	1	0
cg12775479	IGSF10	285313	-2.49071	0.013373344	0.180478119	0.71133929	0.56519766	0	0	0	0
cg03550002	ARSK	153642	2.48925	0.013427055	0.180925922	1.39648307	0.58849334	0	0	0	0
cg08812936	KCNMB2	10242	2.48903	0.013435376	0.180925922	1.43063808	0.5672146	0	0	0	0
cg14254380	WDR63	126820	2.48877	0.01344502	0.180925922	1.40693535	0.57412263	0	0	0	0
cg17853587	NDST3	9348	2.48857	0.013452193	0.180925922	1.41910507	0.5856192	0	0	1	0
cg13952892	SRPR	6734	-2.48827	0.013463163	0.180925922	0.71001227	0.57492941	0	0	0	0
cg22821930	RNPC2	9584	2.48827	0.013463293	0.180925922	1.39177227	0.5734167	0	0	1	0
cg25139619	C13orf25	407975	2.48768	0.01348521	0.18105519	1.41228949	0.58854377	0	0	0	0
cg09273772	TOP2A	7153	2.48716	0.013504307	0.18105519	1.40700635	0.56900464	0	0	1	0

cg14473145	CLEC14A	161198	2.48714	0.013505109	0.18105519	1.4007488	0.59378782	1	0	0	0	0
cg01138020	MGC29671	201305	2.48699	0.013510784	0.18105519	1.39260394	0.58546793	0	0	0	0	0
cg27402949	FLJ20097	55610	2.48669	0.013521904	0.181077311	1.39720379	0.59509883	0	0	0	0	0
cg11360718	TM9SF4	9777	-2.48621	0.013539649	0.181148717	0.70878595	0.57971965	0	0	0	0	0
cg07974891	ITGB1BP1	9270	-2.48571	0.013558074	0.181148717	0.70399221	0.58738403	0	0	0	0	0
cg27274728	CASP6	839	2.48564	0.013560773	0.181148717	1.40594312	0.5744756	0	0	0	0	0
cg09448880	PGLYRP3	114771	-2.48553	0.013565127	0.181148717	0.70531009	0.59172045	0	0	0	0	0
cg17858663	C16orf60	55839	2.48507	0.013581887	0.181245954	1.41239824	0.59015732	0	0	0	0	0
cg14159894	BTBD3	22903	2.48444	0.013605686	0.181436928	1.41052534	0.59817467	0	0	0	1	1
cg20950277	TNIP3	79931	-2.48406	0.013619922	0.181476391	0.71141084	0.57049213	0	0	0	0	0
cg08102619	TIAL1	7073	2.48364	0.013635294	0.181476391	1.40543972	0.58183743	0	0	0	1	0
cg25938646	SLITRK1	114798	2.48356	0.01363837	0.181476391	1.4041442	0.59429205	1	0	0	0	1
cg01454004	SLC17A5	26503	2.4832	0.013651709	0.181476391	1.40377287	0.58103066	0	0	0	0	0
cg18389810	C14orf8	122664	-2.48296	0.013660906	0.181476391	0.69166921	0.5674163	0	0	0	0	0
cg14659404	ASTN	460	2.48283	0.013665585	0.181476391	1.41455818	0.60372126	1	0	0	0	0
cg03593419	GABRA4	2557	2.48246	0.013679747	0.181518643	1.39469401	0.59842679	1	0	0	0	0
cg26824091	GLO1	2739	2.48224	0.013687751	0.181518643	1.40126283	0.5736184	0	0	0	0	0
cg04662451	RAD51	5888	-2.48069	0.013746056	0.182165514	0.70192479	0.59106495	0	0	0	0	0
cg05718625	TMEM85	51234	2.47995	0.013773963	0.182325768	1.41391855	0.58360226	0	0	0	0	0
cg20571908	MPHOSPH1	9585	2.47986	0.013777217	0.182325768	1.40234084	0.5849637	0	0	0	0	0
cg20832020	VSIG9	201633	-2.4793	0.013798459	0.182410054	0.71155002	0.58103066	0	0	0	0	0
cg02946850	GRM8	2918	-2.47913	0.013804886	0.182410054	0.71210251	0.57977007	0	0	0	0	0
cg21178548	SAMD14	201191	2.47888	0.01381452	0.182410054	1.40466264	0.58637556	0	0	0	0	0
cg17446142	GDF9	2661	-2.47841	0.013832023	0.182410054	0.70473611	0.56771884	0	0	0	0	0
cg24034289	SCAMP3	10067	2.47828	0.01383369	0.182410054	1.43500948	0.56106293	0	0	0	0	0
cg06667406	AASS	10157	-2.47807	0.013845167	0.182410054	0.71197252	0.56797096	0	0	0	0	0
cg19867899	PCDHAC2	56134	2.47791	0.013851268	0.182410054	1.40934407	0.58375353	0	0	0	0	0
cg144446712	SDPR	8436	2.47729	0.013874582	0.182410054	1.40824396	0.59414078	0	0	0	1	1
cg10198932	C21orf129	150135	-2.47706	0.013883491	0.182410054	0.71633052	0.57613957	0	0	0	0	0
cg08256027	HYMAI	57061	2.47697	0.013886834	0.182410054	1.4013788	0.58708148	0	0	0	0	0
cg17140815	ATP6V1F	9296	2.47663	0.013899856	0.182410054	1.40598144	0.56671037	0	0	0	0	0
cg09658342	TIA1	7072	2.47657	0.013901845	0.182410054	1.41003181	0.58733336	0	0	0	1	0
cg18993334	C1orf182	128229	2.47622	0.013915109	0.182410054	1.40125746	0.59736789	0	0	0	0	0
cg05052633	CENTA2	55803	2.47617	0.013917129	0.182410054	1.40098807	0.5697862	1	0	0	0	0
cg08358671	IVNS1ABP	10625	2.47528	0.013951041	0.18256556	1.39622097	0.58158532	0	0	0	0	0
cg22975712	GALR3	8484	-2.47521	0.01395386	0.18256556	0.70905327	0.58405607	0	0	0	0	0
cg04525496	CSPG2	1462	2.47502	0.013960841	0.18256556	1.41182718	0.58158532	0	0	0	1	0
cg19561186	GUCA1C	9626	-2.47453	0.013979888	0.18256556	0.7143934	0.5695593	0	0	0	0	0
cg01514487	MYO1A	4640	-2.47446	0.013982578	0.18256556	0.70755821	0.57407221	0	0	0	0	0
cg02301754	TMOD4	29765	-2.4743	0.013988687	0.18256556	0.71096161	0.59787213	0	0	0	0	0
cg16034652	KIAA1409	57578	2.47411	0.013995822	0.18256556	1.39203199	0.58360226	0	0	0	0	1
cg17302852	FXR1	8087	2.47333	0.014025503	0.18271396	1.41095374	0.5841065	0	0	0	0	0

cg23898073	GFRA1	2674	2.47281	0.01404572	0.18271396	1.40268215	0.59938483	1	0	0	0	1
cg09277365	FLJ90709	153129	2.4727	0.014049787	0.18271396	1.40258541	0.59348528	0	0	0	0	0
cg01342792	FAM71A	149647	-2.47268	0.01405074	0.18271396	0.70715675	0.57982049	0	0	0	0	0
cg24612198	CD3E	916	-2.47257	0.014054973	0.18271396	0.70091499	0.58385438	0	0	0	0	0
cg06501790	SLC34A1	6569	-2.47191	0.014080181	0.182779487	0.7065313	0.55768455	0	0	0	0	0
cg24315815	PLSCR4	57088	-2.47175	0.014086222	0.182779487	0.71874016	0.58052642	0	0	0	0	0
cg21296602	JOSD3	79101	-2.47141	0.014099475	0.182779487	0.70887823	0.58077854	0	0	0	0	0
cg15309578	PELI1	57162	-2.47064	0.01412907	0.182779487	0.71123669	0.58234167	0	0	0	0	0
cg02473123	CD7	924	-2.47047	0.014135577	0.182779487	0.71491389	0.57472771	0	0	0	0	0
cg17838516	MTNR1B	4544	-2.47046	0.014136105	0.182779487	0.71748456	0.56010488	0	0	0	0	0
cg12089169	PRR4	11272	-2.47045	0.014136381	0.182779487	0.70711742	0.58309802	0	0	0	0	0
cg20016845	CXXC1	30827	2.47036	0.014140084	0.182779487	1.40066684	0.57992134	0	0	0	0	0
cg26643856	HLA-DOA	3111	2.47014	0.014148581	0.182779487	1.40467912	0.58955224	0	0	0	0	0
cg19723473	B3GALT1	8708	-2.46995	0.014155594	0.182779487	0.71000837	0.59444332	0	0	0	0	0
cg23599843	JPH1	56704	2.46947	0.01417424	0.182896746	1.38544495	0.57503025	0	0	0	0	1
cg08819884	TRNT1	51095	2.4685	0.014212036	0.183235191	1.40520571	0.57835821	0	1	0	0	0
cg26258845	ADAM23	8745	2.4683	0.014219633	0.183235191	1.40961218	0.5768455	0	0	0	0	1
cg06790862	MPED2	744	-2.46764	0.014245207	0.18328155	0.7069293	0.56988705	0	0	0	0	0
cg12119029	CDK10	8558	-2.4674	0.014254513	0.18328155	0.71263817	0.58693021	0	0	0	0	0
cg21029904	ZNF91	7644	2.46728	0.014259357	0.18328155	1.41608391	0.59908229	0	0	0	0	0
cg07463059	IFI16	3428	2.46666	0.014283465	0.18328155	1.4093619	0.60150262	0	1	0	0	0
cg24675098	FLJ23577	79925	2.46631	0.014296944	0.18328155	1.40749423	0.58032473	0	0	0	0	0
cg25635316	LOC90693	90693	2.46628	0.014298329	0.18328155	1.4035271	0.58350141	0	1	0	0	0
cg18871276	FLJ46156	341883	2.46624	0.014299675	0.18328155	1.39948899	0.5866781	0	0	0	0	0
cg13792569	RP13-11B7.1	286464	-2.46624	0.014299906	0.18328155	0.72054992	0.59174566	0	0	0	0	0
cg15831515	ANXA3	306	2.4658	0.014316927	0.18334683	1.39338176	0.59043465	0	0	0	0	0
cg01078434	MAS1L	116511	-2.46554	0.014327145	0.18334683	0.70432732	0.57760186	0	0	0	0	0
cg14686321	FLJ31951	153830	2.4652	0.014340276	0.18334683	1.39121316	0.5794171	0	0	0	0	0
cg02844629	ARV1	64801	2.46512	0.01434335	0.18334683	1.38441345	0.58481242	0	1	0	0	0
cg08724517	FLJ21159	79884	2.46443	0.014370623	0.18350787	1.38673925	0.58067769	0	0	0	0	0
cg20614736	CCDC74B	91409	-2.46394	0.014389491	0.18350787	0.71824647	0.5672146	0	0	0	0	0
cg03426225	FAM38B	63895	-2.46385	0.014393307	0.18350787	0.71394121	0.57729931	0	0	0	0	0
cg13135121	HSPA2	3306	-2.46382	0.014394333	0.18350787	0.71278183	0.60442719	0	0	0	0	0
cg23617760	C16orf44	79786	2.4626	0.01444229	0.183996587	1.40641013	0.60543566	0	0	0	0	0
cg09059548	PHC1	1911	2.46205	0.014464033	0.184064377	1.40466353	0.58778741	0	0	0	0	0
cg01651364	FLJ23518	79780	2.4619	0.014469736	0.184064377	1.40025309	0.58637556	0	0	0	0	0
cg24454579	BIRC8	112401	-2.46121	0.014497248	0.184064377	0.70799817	0.57205526	0	0	0	0	0
cg18953280	TBC1D19	55296	2.46119	0.014497973	0.184064377	1.41345534	0.58224082	0	0	0	0	0
cg10087081	KIAA0355	9710	-2.4611	0.014501582	0.184064377	0.71801462	0.58314845	0	0	0	0	0
cg04632683	TFPT	29844	-2.46096	0.014507048	0.184064377	0.70691061	0.56867689	0	0	0	1	1
cg21538194	DZIP1L	199221	2.46023	0.014535756	0.184064377	1.38059114	0.58360226	0	0	0	0	0
cg16522484	C14orf49	161176	-2.46005	0.014542903	0.184064377	0.71532316	0.5883925	0	0	0	0	0

cg17266238	C21orf94	246705	-2.43296	0.015650935	0.187474756	0.70814191	0.58340057	0	0	0	0
cg07612655	PTGIS	5740	2.43252	0.015669225	0.187474756	1.40396218	0.56237394	0	0	0	0
cg17709884	H2AFZ	3015	2.43245	0.015672434	0.187474756	1.40203646	0.57951795	0	1	0	0
cg26829318	GLRX	2745	2.43243	0.01567317	0.187474756	1.39479407	0.57588746	0	0	0	0
cg16297030	AGXT2	64902	-2.43237	0.015675618	0.187474756	0.71493404	0.56857604	0	0	0	0
cg08093398	PSF1	9837	-2.43236	0.015676058	0.187474756	0.71747974	0.56585317	1	0	0	0
cg14831798	CDYL	9425	-2.43152	0.015711724	0.187640914	0.71554189	0.59741831	0	1	1	1
cg04893087	PPARGC1A	10891	2.43126	0.015722669	0.187640914	1.43965432	0.57114764	0	0	1	1
cg04324308	COL4A3	1285	2.43099	0.015734037	0.187640914	1.40596085	0.58294675	0	0	0	0
cg08878323	DLX5	1749	2.43094	0.01573609	0.187640914	1.3889551	0.57959359	1	0	0	0
cg09486093	HSD17B4	3295	2.43071	0.015746132	0.187640914	1.39666234	0.58002219	0	0	0	0
cg06496654	TAS2R7	50837	-2.43064	0.015748826	0.187640914	0.71469707	0.58521581	0	0	0	0
cg08338368	IL26	55801	-2.43029	0.015764081	0.187705725	0.71470823	0.58234167	0	0	0	0
cg15645605	MRPL35	51318	2.4299	0.015780332	0.187777738	1.42186357	0.58808996	0	0	0	0
cg21197871	C8orf38	137682	2.42915	0.015812259	0.187777738	1.40274747	0.57866075	0	0	0	0
cg17413703	TAF11	6882	2.42895	0.015820844	0.187777738	1.39552899	0.58521581	0	0	1	1
cg14341418	APOM	55937	-2.42858	0.015836626	0.187777738	0.72062627	0.57896329	0	1	0	0
cg11295113	FOLR2	2350	-2.42811	0.015856987	0.187777738	0.72050411	0.58637556	0	0	0	0
cg11884699	OR2A4	79541	-2.42789	0.015866359	0.187777738	0.72100629	0.58524103	0	0	0	0
cg03813215	BCL2	596	2.42785	0.015867848	0.187777738	1.37564713	0.58602259	1	0	0	0
cg06281719	GMNN	51053	2.42771	0.015874067	0.187777738	1.41339659	0.57654296	0	0	0	0
cg16204757	MSN	4478	-2.4277	0.01587443	0.187777738	0.70131372	0.56766842	0	0	0	0
cg08949296	JPH1	56704	2.42767	0.015875738	0.187777738	1.39895872	0.58803953	0	0	1	1
cg18704595	ADA	100	2.42761	0.015878143	0.187777738	1.39887145	0.58269464	0	0	0	0
cg15302379	KAZALD1	81621	2.42717	0.015896825	0.187868339	1.38473075	0.58662767	1	0	0	0
cg02044879	PLA2G12B	84647	-2.42689	0.015909016	0.187868339	0.71403318	0.58087939	0	0	0	0
cg23166289	C1orf107	27042	2.42674	0.015915277	0.187868339	1.38974113	0.58919927	0	0	0	0
cg26937530	SH3BGR1	6451	2.42532	0.015976259	0.188471839	1.39677653	0.59056071	0	0	1	1
cg13620808	UBE2S	27338	2.42463	0.016005882	0.188618255	1.40295423	0.57608915	0	1	0	0
cg05824215	CCR6	1235	-2.42451	0.016011436	0.188618255	0.7123625	0.57911456	0	0	0	0
cg02657721	SEMA3B	7869	2.42425	0.016022367	0.188618255	1.40665555	0.56665994	1	0	0	0
cg27298559	PTRH2	51651	2.42395	0.016035371	0.188618255	1.40126418	0.59403994	0	0	0	0
cg13928961	K6IRS3	319101	-2.42347	0.016056246	0.188618255	0.7074872	0.57099637	0	0	0	0
cg00674922	SATB1	6304	2.423	0.016076459	0.188618255	1.41820601	0.58324929	0	0	1	1
cg26200585	PRX	57716	2.42286	0.01608271	0.188618255	1.39402701	0.55914683	0	0	0	0
cg18222235	FBXW8	26259	2.42277	0.016086555	0.188618255	1.40845276	0.57795482	0	0	0	0
cg18195628	MRPL48	51642	2.42276	0.016086685	0.188618255	1.39790396	0.57795482	0	0	0	0
cg21032583	LMLN	89782	-2.42275	0.016087305	0.188618255	0.70888036	0.57689593	0	0	0	0
cg24754277	DAPK1	1612	2.42172	0.016131967	0.18901935	1.39958163	0.58082896	0	0	0	0
cg23683201	SLC22A9	114571	-2.42102	0.016162179	0.18901935	0.70812675	0.56802138	0	0	0	0
cg25134071	KLK8	11202	-2.42088	0.016168449	0.18901935	0.72403435	0.56393707	0	0	0	0
cg14879013	DTWD1	56986	2.42007	0.016203833	0.18901935	1.38953681	0.58435861	0	0	0	0

cg14167596	MSX1	4487	2.40896	0.016694126	0.190068854	1.38914582	0.56544978	1	0	0	1	0	0
cg04483754	NOS2A	4843	-2.40878	0.016702105	0.190068854	0.71691659	0.58798911	0	0	0	0	0	0
cg01862366	TMEM20	159371	2.40873	0.016704299	0.190068854	1.37569234	0.56948366	1	0	0	0	0	0
cg24147596	ARL14	80117	-2.40862	0.01670894	0.190068854	0.71882478	0.58849334	0	0	0	0	0	0
cg09572685	MKS1	54903	-2.40842	0.016717932	0.190068854	0.72066475	0.57571097	0	0	0	0	0	0
cg00979348	HPSE	10855	2.40785	0.016743599	0.190238032	1.37620808	0.55859217	1	0	0	0	0	0
cg12991341	TMEM74	157753	-2.40765	0.016752708	0.190238032	0.71301818	0.58294675	0	0	0	0	0	0
cg25943702	BRD1	23774	-2.40724	0.016770811	0.190330576	0.72505407	0.58629992	0	0	0	0	0	0
cg02300906	FANCF	2188	2.40593	0.016830054	0.190676326	1.39497865	0.57845906	0	0	0	0	1	0
cg00629217	LNX1	84708	-2.40585	0.01683337	0.190676326	0.71170818	0.57503025	0	0	0	0	0	0
cg20010565	FLJ37953	129450	2.40569	0.016840704	0.190676326	1.39590837	0.57699677	0	0	0	0	0	0
cg07846220	LAMA1	284217	2.40559	0.016845216	0.190676326	1.38237411	0.56797096	0	1	0	0	0	0
cg24777065	FBLN5	10516	2.4051	0.016867456	0.190676326	1.38017585	0.5866781	1	0	0	0	0	0
cg01214847	TMPRSS3	64699	-2.40479	0.016881383	0.190676326	0.72012926	0.59293062	0	0	0	0	0	0
cg22294908	ZHX3	23051	-2.40478	0.016881721	0.190676326	0.7176922	0.57492941	0	0	0	0	0	0
cg18113787	CRSP6	9440	2.40455	0.016892107	0.190676326	1.3762998	0.59282977	0	0	0	0	0	0
cg12581035	PHC1	1911	2.40439	0.016899334	0.190676326	1.3866867	0.56630698	0	0	0	0	0	0
cg19481811	UGT2B17	7367	-2.4042	0.016907835	0.190676326	0.72735269	0.57951795	0	0	0	0	0	0
cg20853593	DNPEP	23549	2.40408	0.016913431	0.190676326	1.40259832	0.58425777	0	0	0	0	0	0
cg00899641	SF3B1	23451	2.40391	0.01692093	0.190676326	1.41288467	0.56766842	0	0	0	0	1	0
cg09848074	FLJ44186	346689	2.4034	0.016944078	0.190824735	1.38708131	0.58587132	0	0	0	0	0	0
cg24777950	CTSG	1511	2.40287	0.016968194	0.190983852	1.39349839	0.59308189	0	0	0	0	0	0
cg26333317	METTL7A	25840	2.40188	0.01701334	0.191090328	1.38986471	0.57291247	0	0	0	0	1	0
cg05961827	UGT1A7	54577	-2.40177	0.017018049	0.191090328	0.71128953	0.58708148	0	0	0	0	0	0
cg00919857	TMOD2	29767	-2.40174	0.017019395	0.191090328	0.72246854	0.57195442	1	0	0	0	0	0
cg23741330	C6orf188	254228	-2.4017	0.017021362	0.191090328	0.71781086	0.57024002	0	0	0	0	0	0
cg17920197	LGI4	163175	-2.40141	0.017034395	0.191090328	0.71272391	0.58516539	0	0	0	0	0	0
cg13467814	C2orf30	27248	2.40116	0.017046178	0.191090328	1.39084941	0.58007261	0	0	0	0	0	0
cg02584520	STAU2	27067	2.40112	0.017047603	0.191090328	1.3698414	0.56867689	0	0	0	0	0	0
cg01724150	NMNAT3	349565	2.40059	0.017071894	0.191097646	1.38906322	0.56706333	0	0	0	0	0	0
cg00059225	GLRA1	2741	-2.4005	0.017075844	0.191097646	0.72038432	0.57558491	0	0	0	0	0	0
cg22997415	OVGP1	5016	-2.40045	0.017078235	0.191097646	0.72254425	0.56358411	0	0	0	0	0	0
cg14602578	CASP8AP2	9994	2.40008	0.0170953	0.191176721	1.38568972	0.57886245	0	0	0	0	0	0
cg16404689	C1orf156	92342	2.39939	0.017126666	0.191415551	1.39447406	0.57881202	0	0	0	0	0	0
cg00397740	PPOX	5498	2.39917	0.017136776	0.191416674	1.38611446	0.56923155	0	0	0	0	0	0
cg06815817	ZNF212	7988	2.3982	0.017181253	0.191640796	1.39418315	0.57039129	0	0	0	0	0	0
cg24286767	LOC51255	51255	2.39787	0.017196315	0.191640796	1.39655291	0.57523195	0	0	0	0	0	0
cg02360776	ZBTB3	79842	2.39786	0.017196655	0.191640796	1.39602041	0.55934853	0	0	0	0	1	0
cg12265604	HAS3	3038	2.39786	0.017196927	0.191640796	1.39051354	0.57583703	0	0	0	0	0	0
cg24936630	DDX10	1662	2.39733	0.017221416	0.1916956	1.39830961	0.5777027	0	0	0	0	0	0
cg10167296	RASSF5	83593	2.39662	0.01725403	0.1916956	1.38798716	0.56242437	1	0	0	0	0	0
cg07535879	MTRF1L	54516	2.39656	0.017256406	0.1916956	1.37738623	0.5785599	0	0	0	0	0	0

cg20546002	COL23A1	91522	2.38646	0.017727207	0.192075555	1.37776967	0.58269464	0	0	0	0	0
cg07900766	SPAG16	79582	2.38619	0.017739982	0.192075555	1.39905131	0.589048	0	0	0	0	0
cg15836660	EDNRB	1910	2.38607	0.017745392	0.192075555	1.40474312	0.59661154	0	0	0	0	0
cg18501026	DOCK3	1795	2.38585	0.017756054	0.192075555	1.36910233	0.56691206	0	0	0	1	0
cg25650811	LOC223075	223075	-2.38566	0.017764811	0.192075555	0.71192184	0.58123235	0	0	0	0	0
cg21663122	HIST1H2BH	8345	2.38566	0.017765	0.192075555	1.405816	0.60387253	0	1	0	0	0
cg04058675	HUWE1	10075	-2.38563	0.017766374	0.192075555	0.7208806	0.57503025	0	0	0	0	0
cg13162577	C11orf42	160298	-2.38559	0.017768286	0.192075555	0.71754179	0.57586224	0	0	0	0	0
cg02671171	RPH3AL	9501	-2.38484	0.017803837	0.19224483	0.72853363	0.58118193	0	0	0	0	0
cg19318511	C9orf30	91283	2.38481	0.017805344	0.19224483	1.4075833	0.5849637	0	0	0	0	0
cg07411229	LOC128153	128153	2.38462	0.017814104	0.19224483	1.39085625	0.57074425	0	1	0	0	0
cg10692870	FN1	2335	2.38398	0.017844653	0.192465888	1.38971159	0.57442517	0	0	0	0	0
cg11187508	CWF19L1	55280	2.38342	0.017870893	0.192640258	1.39428692	0.57992134	0	0	0	0	0
cg04702045	OPHN1	4983	-2.38304	0.017889306	0.192730095	0.72378652	0.56676079	0	0	0	0	0
cg02883161	MSI1	4440	2.38253	0.017913273	0.192800465	1.38723227	0.56958451	0	0	0	0	0
cg19706602	MGMT	4255	2.38247	0.017916002	0.192800465	1.3779427	0.57286204	0	0	0	0	0
cg20334738	MAB21L2	10586	-2.38212	0.017932929	0.192815378	0.7162851	0.58909843	1	0	1	0	0
cg02094237	HIST4H4	121504	2.38175	0.017950457	0.192815378	1.38426136	0.57755143	1	0	0	0	0
cg05749792	DGAT2L6	347516	-2.38148	0.017963543	0.192815378	0.72139026	0.57878681	0	0	0	0	0
cg12428604	TMEM60	85025	2.38121	0.017976284	0.192815378	1.3785217	0.59862848	0	0	1	0	0
cg14474880	MTF2	22823	2.38112	0.017980638	0.192815378	1.37125619	0.57689593	0	0	0	0	0
cg01968530	C18orf45	85019	2.38094	0.017989225	0.192815378	1.38920119	0.58052642	0	0	0	0	0
cg08109646	ZNF683	257101	-2.38078	0.017996583	0.192815378	0.72205008	0.56887858	0	0	0	0	0
cg24896109	CYP51A1	1595	2.38075	0.017998051	0.192815378	1.37797854	0.58607301	0	0	0	0	0
cg15582891	TAAR1	134864	-2.37985	0.01804129	0.192844085	0.72754747	0.58360226	0	0	0	0	0
cg16711185	SHC4	399694	2.37949	0.018058613	0.192844085	1.3981809	0.58148447	0	0	0	0	0
cg16377880	CYP4F3	4051	-2.37944	0.018060703	0.192844085	0.72837914	0.57422348	0	0	0	0	0
cg06166863	PNN	5411	2.3794	0.018062748	0.192844085	1.37942313	0.57472771	0	1	0	0	0
cg19848683	EVI1	2122	2.37903	0.018080722	0.192844085	1.39135629	0.58234167	0	0	0	0	0
cg26565975	KRTAP20-1	337975	-2.37862	0.018100279	0.192844085	0.71816051	0.57840863	0	0	0	0	0
cg06263495	ASCL2	430	2.37845	0.018108546	0.192844085	1.38202313	0.57134933	1	0	0	0	0
cg10893007	NBR2	10230	2.37832	0.018114482	0.192844085	1.40518355	0.57462687	0	0	0	0	0
cg17398613	SLC37A1	54020	2.3783	0.018115499	0.192844085	1.38006108	0.57855599	0	0	0	0	0
cg04451770	ENTPD1	953	2.37823	0.018119099	0.192844085	1.3993703	0.5860478	0	0	0	1	0
cg15604467	POU4F1	5457	2.37808	0.018126334	0.192844085	1.37477908	0.58884631	1	0	0	1	1
cg26256793	COL11A1	1301	2.378	0.018129907	0.192844085	1.37775176	0.57624042	0	0	0	0	0
cg14081015	RIOK2	55781	2.37778	0.018140479	0.192844085	1.39028363	0.57624042	0	0	0	0	0
cg23428445	GPCR37	2861	2.37749	0.018154699	0.192844085	1.38340763	0.5875353	0	0	0	1	0
cg23974202	CNT2	905	2.37699	0.018178591	0.192844085	1.38556581	0.58042558	0	1	0	0	0
cg22659426	CLN3	1201	2.37661	0.01819703	0.192844085	1.3730036	0.58128278	0	0	1	0	0
cg14145762	FLJ10726	55216	2.37634	0.018210001	0.192844085	1.39330691	0.58385438	0	0	0	0	0
cg15559700	UGT1A9	54600	-2.3763	0.018212156	0.192844085	0.71532677	0.57119806	0	0	0	0	0

cg00195561	CHRM4	1132	-2.37592	0.018230171	0.192844085	0.72230683	0.57452602	0	0	0	0	0
cg11128808	CACNG6	59285	2.37578	0.018237292	0.192844085	1.38889399	0.56494554	0	0	0	0	0
cg05221167	ZNF560	147741	2.37559	0.018246139	0.192844085	1.3888861	0.57982049	0	0	0	0	0
cg20123891	NXPH3	11248	2.37542	0.018254501	0.192844085	1.37705928	0.580476	0	0	0	1	0
cg17714799	CASP6	839	2.37488	0.018280512	0.192844085	1.38102065	0.58415692	0	0	0	0	0
cg20622056	SLC7A3	84889	-2.37473	0.01828788	0.192844085	0.7246222	0.56307987	0	0	0	0	0
cg22971191	SLC10A2	6555	-2.37466	0.018291193	0.192844085	0.71910798	0.59530052	0	0	0	1	0
cg09033997	CCR9	10803	-2.37434	0.018306604	0.192844085	0.7162526	0.568929	0	0	0	0	0
cg12126248	NDUFA5	4698	2.37417	0.018314978	0.192844085	1.38836509	0.58042558	0	0	0	0	0
cg18581445	SHD	56961	2.37403	0.018322026	0.192844085	1.37473058	0.57129891	0	0	0	0	0
cg10236239	SULT1C2	27233	2.37398	0.018324511	0.192844085	1.40462516	0.58687979	0	0	0	0	0
cg18644543	HMHA1	23526	-2.3738	0.018333031	0.192844085	0.72452749	0.59227511	0	0	0	0	0
cg06567342	ZNF265	9406	2.37354	0.018345825	0.192844085	1.38030795	0.58002219	0	0	0	0	0
cg07331725	SERPINB5	5268	-2.37346	0.018349417	0.192844085	0.71565244	0.56328157	0	0	0	0	0
cg18504532	RABGAP1L	9910	2.3734	0.018352529	0.192844085	1.39079045	0.57871117	0	1	0	0	0
cg23231873	USP32	84669	2.37328	0.018358191	0.192844085	1.3797638	0.5926785	0	0	0	0	0
cg03417466	TYR	7299	-2.37314	0.018364962	0.192844085	0.72077044	0.56708854	0	0	0	0	0
cg16360372	SPINK1	6690	-2.37293	0.018375354	0.192844085	0.71216302	0.58824123	0	0	0	0	0
cg19706682	LRRC50	123872	2.37283	0.018380224	0.192844085	1.37540491	0.55980234	0	0	0	0	0
cg26670626	ZKSCAN1	7586	-2.37256	0.018393271	0.192844085	0.72769869	0.56010488	0	0	0	0	0
cg26683005	CARD8	22900	2.37243	0.018399484	0.192844085	1.38744714	0.58662767	0	0	0	0	0
cg01532771	CLEC4M	10332	-2.37234	0.018404109	0.192844085	0.71190339	0.57069383	0	0	0	0	0
cg10217449	GNPDA2	132789	2.37181	0.018429686	0.19288662	1.38901314	0.58380395	0	0	0	0	0
cg24053587	PTPRO	5800	2.37179	0.018430739	0.19288662	1.38722487	0.58450988	0	0	0	0	0
cg12866859	HEXIM1	10614	2.37164	0.018438428	0.19288662	1.38154422	0.5858209	0	0	0	0	0
cg06018072	CLN6	54982	2.37142	0.01844905	0.192892219	1.38627464	0.58365268	0	0	0	0	0
cg12815841	LHPP	64077	-2.371	0.018469252	0.192944167	0.7271304	0.56983663	0	0	1	0	0
cg15526708	TGFBR1	7046	2.3709	0.018474198	0.192944167	1.371202	0.58506454	0	0	0	0	0
cg17770886	ZNF511	118472	2.37026	0.018505606	0.193091175	1.38959818	0.57407221	0	0	0	0	0
cg24748945	MAP2K2	5605	2.3702	0.018508469	0.193091175	1.37086441	0.59570391	0	0	0	0	0
cg23097681	ARHGAP24	83478	2.36916	0.018559498	0.193450854	1.38287078	0.58002219	0	0	0	0	0
cg21270015	HDCMA18P	51574	-2.36889	0.01857285	0.193450854	0.72344016	0.57815652	0	0	1	0	0
cg06034822	USF1	7391	2.36888	0.018573294	0.193450854	1.4028585	0.56802138	0	0	0	0	0
cg00520708	FLJ37562	134553	2.36867	0.018583661	0.19345347	1.39195788	0.580476	0	0	0	0	0
cg07472159	COL10A1	1300	-2.36784	0.018624341	0.193717681	0.72390615	0.59106495	0	0	0	0	0
cg13705284	ACOX2	8309	-2.36743	0.018644905	0.193717681	0.72143583	0.5586426	0	0	0	0	0
cg00043080	PLD3	23646	-2.36721	0.018655724	0.193717681	0.71990594	0.58077854	0	0	0	0	0
cg12182525	ASB5	140458	-2.3671	0.018661081	0.193717681	0.71932255	0.584762	0	1	0	1	0
cg20402382	APEH	327	2.36675	0.018678268	0.193717681	1.39104756	0.5665591	0	0	0	0	0
cg16009558	GRIK2	2898	2.36619	0.018705838	0.193717681	1.38374061	0.60639371	0	0	0	0	0
cg12683929	BLOC1S1	2647	2.36618	0.018706294	0.193717681	1.38939132	0.58037515	0	0	0	0	0
cg14023558	HNRPA3	220988	2.36616	0.018707262	0.193717681	1.38493359	0.57755143	0	0	0	0	0

cg21817450	PIG38	55068	-2.36611	0.018709988	0.193717681	0.71362851	0.55786103	0	1	0	0	0
cg02115041	NPBWR1	2831	2.36585	0.018722749	0.193717681	1.36438313	0.62520169	0	0	0	0	0
cg14258236	OR5V1	81696	-2.36577	0.018726934	0.193717681	0.7137469	0.58380395	0	0	0	0	0
cg12315302	HIST1H4D	8360	2.36569	0.018730603	0.193717681	1.38642301	0.56958451	1	0	0	0	0
cg18328190	C3orf35	339883	-2.36519	0.018755248	0.193742055	0.72207118	0.56144111	0	0	0	0	0
cg24362401	PIK3C3	5289	2.36507	0.018761193	0.193742055	1.38629445	0.59192215	0	0	0	0	0
cg26790059	MGC27121	408263	-2.36481	0.018774133	0.193742055	0.71809729	0.58985478	0	0	0	0	0
cg01931893	TK2	7084	2.36444	0.018792824	0.193742055	1.3797282	0.57694635	0	0	0	0	0
cg08455548	PCDH11Y	83259	2.36435	0.018796838	0.193742055	1.38596398	0.59333401	1	0	0	0	1
cg21875234	GSPT1	2935	-2.364	0.018814674	0.193742055	0.72666307	0.56781969	0	0	0	0	0
cg24116886	DEFB127	140850	-2.36372	0.018828569	0.193742055	0.71902638	0.57003832	0	0	0	0	0
cg17991347	MAGED1	9500	2.36362	0.018833264	0.193742055	1.38374748	0.59247681	0	0	0	0	0
cg01439983	PEX13	5194	2.36335	0.018846854	0.193742055	1.38392698	0.57906414	0	1	0	0	0
cg07974303	DEFA6	1671	-2.36332	0.018848148	0.193742055	0.71682856	0.56287818	0	0	0	0	0
cg27170298	BCS1L	617	2.3631	0.01885913	0.193742055	1.38274327	0.57528237	0	0	0	0	1
cg19307060	FAM10A4	145165	-2.36269	0.018879774	0.193742055	0.72778248	0.57795482	0	0	0	0	0
cg07807817	C14orf44	145483	2.36262	0.018883024	0.193742055	1.40084229	0.56010488	0	0	0	0	0
cg21930712	FLJ40235	284369	-2.36207	0.018910808	0.193742055	0.71869914	0.56973578	0	0	0	0	0
cg27226949	EFNB2	1948	-2.36206	0.018910922	0.193742055	0.72746369	0.58889673	0	0	0	0	1
cg08251036	MGAT5	4249	-2.36199	0.018914649	0.193742055	0.71558955	0.56575232	0	0	0	0	0
cg15810326	LOC90826	90826	2.36188	0.018920196	0.193742055	1.38247604	0.5779044	0	0	0	0	0
cg11044823	PPWD1	23398	2.36164	0.018931837	0.193742055	1.37461928	0.57608915	0	0	0	0	0
cg15873715	DAB2	1601	2.36147	0.018940525	0.193742055	1.38053966	0.57613957	0	0	0	0	0
cg16176600	FRK	2444	-2.36145	0.018941442	0.193742055	0.71645097	0.55652481	0	0	0	0	0
cg25219134	IQWD1	55827	2.36137	0.01894572	0.193742055	1.3984333	0.59005647	0	0	0	0	0
cg27377450	ARHGEF18	23370	-2.35956	0.019036208	0.194466954	0.72219789	0.58082896	0	0	0	0	0
cg23414431	CAPN3	825	-2.35948	0.019040443	0.194466954	0.71654769	0.57311416	0	0	0	0	0
cg23889093	EIF1	10209	2.35934	0.019047114	0.194466954	1.38855588	0.57881202	0	0	0	0	0
cg25344639	SEC14L1	6397	2.35912	0.019058478	0.194479145	1.38092652	0.58456031	0	0	0	0	0
cg05413282	PRSS3	5646	-2.35858	0.019085298	0.194543161	0.72147201	0.56202098	0	0	0	0	0
cg05246522	KSR1	8844	-2.35822	0.019103757	0.194543161	0.7242382	0.53822106	0	0	0	0	0
cg22816171	DDX50	79009	2.35793	0.019118059	0.194543161	1.37048578	0.57629084	0	1	0	0	0
cg15844609	YIF1B	90522	-2.35776	0.01912686	0.194543161	0.72391784	0.60372126	0	0	0	0	0
cg24697329	ARHGEF4	50649	-2.3576	0.019134698	0.194543161	0.73082591	0.54618798	0	0	0	0	0
cg06192753	GADD45GIP1	90480	2.3575	0.019140016	0.194543161	1.37880865	0.59161961	0	0	0	0	0
cg26222407	STAG2	10735	-2.35734	0.019147806	0.194543161	0.72801799	0.57497983	0	0	0	0	1
cg12145907	PCDHGC4	56098	2.35733	0.019148479	0.194543161	1.37949005	0.59121622	1	0	0	0	0
cg03535648	PMCH	5367	-2.35703	0.019163663	0.194543161	0.72396974	0.57392094	0	0	0	0	0
cg06833562	C1orf181	54680	2.35692	0.019169016	0.194543161	1.38200068	0.58566963	0	0	0	0	0
cg06279414	TRIP11	9321	2.35677	0.019176658	0.194543161	1.39223752	0.57271077	0	1	0	0	0
cg07044282	ANGPTL1	9068	-2.35622	0.019204768	0.194725028	0.71716838	0.57926583	0	0	0	0	0
cg13514129	MACF1	23499	2.35529	0.019251721	0.194970359	1.37542242	0.58324929	0	0	0	0	0

cg118870231	C1orf87	127795	-2.35528	0.019251898	0.194970359	0.7173382	0.58188786	0	0	0	0
cg11286122	PHLDB1	23187	-2.35513	0.019259551	0.194970359	0.72556365	0.56358411	1	0	0	0
cg06060661	MAGEA11	4110	2.35464	0.019284633	0.195069806	1.37710867	0.57281162	0	0	0	0
cg00629585	GF1B	8328	2.35454	0.019289776	0.195069806	1.39763198	0.57845906	0	0	0	0
cg04887278	RWDD2	112611	2.35408	0.019312989	0.195201331	1.36918801	0.60599032	0	0	0	0
cg18201198	FLJ33708	285780	-2.35333	0.01935139	0.195472774	0.71952592	0.57810609	0	0	0	0
cg21669679	DDC	1630	2.35307	0.019364437	0.195472774	1.37384205	0.57326543	1	0	0	0
cg19302283	BTC	685	-2.35295	0.019370511	0.195472774	0.72630351	0.57074425	0	0	0	1
cg20353465	ABHD1	84696	2.35232	0.019402945	0.19548143	1.3813872	0.57029044	0	0	0	0
cg14260458	OCM	4951	-2.35222	0.019407856	0.19548143	0.72012671	0.57346712	0	0	0	0
cg06872381	DPPA3	359787	-2.3516	0.019439654	0.19548143	0.7202521	0.57366882	0	0	0	0
cg14426682	MORF4L1	10933	-2.3514	0.019449951	0.19548143	0.71261696	0.57563534	0	0	1	0
cg15083233	AKAP2	11217	2.35139	0.019450302	0.19548143	1.38641593	0.56595401	0	0	0	1
cg17624892	HMGNA4	10473	2.35139	0.019450352	0.19548143	1.38833874	0.56943324	0	0	1	0
cg22646710	SYT6	148281	2.35125	0.019457317	0.19548143	1.37877967	0.59847721	1	0	0	1
cg04677163	CAV1	857	2.35119	0.019460352	0.19548143	1.38001842	0.59797297	0	0	1	0
cg06275635	PGLYRP3	114771	-2.35111	0.01946448	0.19548143	0.72864104	0.58143405	0	0	0	0
cg27440834	SNX4	8723	-2.35055	0.019493452	0.19548143	0.71805319	0.56076039	0	0	0	0
cg26073856	FABP2	2169	-2.35055	0.019493531	0.19548143	0.72785034	0.58866983	0	0	0	0
cg01726767	LALBA	3906	-2.35018	0.019512408	0.19548143	0.72158847	0.59227511	0	0	0	0
cg13463167	FLJ20054	54530	-2.35	0.019521627	0.19548143	0.72535637	0.59363655	0	0	0	0
cg26091688	ZNF200	7752	2.35	0.019521655	0.19548143	1.38620695	0.58607301	0	0	0	0
cg14602658	TMEM39A	55254	2.3499	0.019526508	0.19548143	1.36750119	0.58440904	0	0	0	0
cg05399553	SNRPB	6628	2.34964	0.019539948	0.19548143	1.39706591	0.58017346	0	0	0	0
cg20506766	MFN1	55669	2.34935	0.019554848	0.19548143	1.37455536	0.59172045	0	0	0	0
cg02021817	RBL2	5934	2.34916	0.019564691	0.19548143	1.38830915	0.58143405	0	0	0	0
cg10608333	HIST1H4K	8362	2.34914	0.019565594	0.19548143	1.37920158	0.57180315	1	0	0	0
cg11388238	KCTD18	130535	2.34872	0.019587197	0.195499732	1.37043216	0.57926583	0	0	0	0
cg08158860	RAD51L1	5890	2.34838	0.019604823	0.195499732	1.39670771	0.568929	0	0	0	0
cg26277809	M6PR	4074	2.34832	0.019607954	0.195499732	1.38386134	0.59474587	0	0	0	0
cg14698961	LOC129285	129285	2.34831	0.019608319	0.195499732	1.38515693	0.56822307	0	0	0	0
cg13904771	C10orf47	254427	2.3475	0.019650015	0.195524562	1.35822044	0.59025817	0	0	0	0
cg08308257	SMNDC1	10285	2.34739	0.019655782	0.195524562	1.38900301	0.59514925	0	1	0	0
cg24926780	OR10H2	26538	2.34711	0.019670398	0.195524562	1.35662703	0.5796188	0	0	0	0
cg14184817	XTP7	90332	2.34703	0.019674561	0.195524562	1.38646085	0.57866075	1	0	0	0
cg20109151	NIPSNAP3A	25934	2.34679	0.01968686	0.195524562	1.38542499	0.56489512	0	0	0	0
cg08996986	EPS8L1	54869	-2.34659	0.019697157	0.195524562	0.71751519	0.58450988	0	0	0	0
cg03365354	MCAM	4162	-2.34642	0.01970609	0.195524562	0.72606981	0.57099637	0	0	0	0
cg09445097	ZNF79	7633	2.34639	0.019707418	0.195524562	1.37675251	0.59035902	0	0	0	0
cg06189133	INSL3	3640	2.34639	0.019707612	0.195524562	1.3817071	0.56237394	0	0	0	0
cg19789466	OAS1	4938	2.34589	0.019733513	0.195524562	1.41024289	0.57311416	0	1	0	0
cg05697976	MLSTD1	55711	2.34575	0.019740555	0.195524562	1.37766407	0.60024203	0	0	0	0

[illegible]

cg18344063 cg18350391 cg22416721 cg05396987 cg09234872 cg04691540 cg24653967 cg27589921 cg14251536 cg06938406	MGAT4C	25834	-2.33235	0.020445831	0.198278521	0.72174443	0.57210569	0	0	0
	IL32	9235	2.33233	0.020446933	0.198278521	1.3671982	0.59605688	0	0	0
	DMP1	1758	-2.33206	0.020461548	0.198319673	0.72660195	0.57331585	0	0	0
	FLJ30834	132332	2.33151	0.020491117	0.198505657	1.36352059	0.56948366	0	0	0
	TRAF7	84231	2.33044	0.020548087	0.198956099	1.37316462	0.5751311	0	0	1
	ABL2	27	2.33013	0.020565226	0.198956099	1.35951837	0.56348326	0	0	0
	PRH1	5554	-2.33006	0.020568827	0.198956099	0.71802056	0.59172045	0	0	0
	CIAPIN1	57019	-2.32939	0.02060648	0.199132985	0.72415261	0.57134933	0	0	0
	C20orf6	51575	2.3293	0.020609494	0.199132985	1.38583934	0.57740016	0	0	0
	COX6A1	1337	2.32903	0.020624359	0.199132985	1.37435556	0.57634127	0	0	1
cg15642326 cg12111714 cg15661409 cg08612871 cg21324308 cg19982860 cg22153481 cg19358442 cg17475456 cg10578779	MARK4	57787	-2.32894	0.020628767	0.199132985	0.72684588	0.58360226	0	0	0
	ATP8A2	51761	2.3284	0.020658007	0.199270318	1.36326786	0.58420734	0	0	1
	C14orf105	55195	-2.32812	0.020673376	0.199270318	0.72261784	0.59923356	0	0	0
	GJB5	2709	-2.32801	0.020678903	0.199270318	0.72592367	0.56988705	0	0	0
	PROK1	84432	-2.3278	0.020690682	0.199270318	0.72350229	0.57523195	0	0	0
	IFNA21	3452	-2.32755	0.020704205	0.199270318	0.7222146	0.57523195	0	0	0
	PRKAG1	5571	2.32752	0.020705517	0.199270318	1.3613461	0.58103066	0	0	0
	ALX4	60529	2.32721	0.02072262	0.199293882	1.37802714	0.5674163	1	0	0
	CLEC2B	9976	2.32709	0.020728809	0.199293882	1.37702894	0.58612344	0	0	0
	ZBTB37	22943	2.32654	0.020758632	0.199480321	1.36540173	0.57480335	1	0	1
cg11640565 cg21644826 cg12853521 cg17319849 cg12785689 cg20644453 cg17120423 cg16984812 cg08993267 cg06041363	STS	412	-2.32581	0.020798308	0.19966092	0.72483005	0.5841065	0	0	0
	ACSM3	6296	2.32538	0.020821444	0.199737066	1.38673916	0.58385438	0	0	0
	MC5R	4161	2.32492	0.020846664	0.199737066	1.38050864	0.57210569	0	0	0
	GBA	2629	2.32478	0.020853943	0.199737066	1.38066298	0.59121622	0	0	0
	ITGB4BP	3692	2.32478	0.020854212	0.199737066	1.36129321	0.59282977	0	0	0
	C21orf59	56683	2.3247	0.020858464	0.199737066	1.37178456	0.58345099	0	0	1
	CIRH1A	84916	2.32427	0.020881688	0.199859371	1.47240415	0.51144615	0	0	1
	PLEKH2	130271	-2.32335	0.02093219	0.199920095	0.72290795	0.56746672	0	0	0
	BRCA1	672	2.32323	0.020938893	0.199920095	1.38273422	0.57412263	0	0	0
	FLJ20699	55020	2.32299	0.020951854	0.199920095	1.36955064	0.58188786	0	0	0
cg08623383 cg08699435 cg16882703 cg15002204 cg16776350 cg03424436 cg13823136 cg17979628 cg23877385 cg09256683	C1orf38	9473	2.32288	0.020957502	0.199920095	1.35668394	0.58319887	0	1	0
	NAT5	51126	2.32259	0.020973551	0.199920095	1.37995238	0.5864764	0	0	0
	PSMB6	5694	2.32254	0.020976257	0.199920095	1.39354392	0.57785397	0	0	0
	C6orf139	55166	2.32231	0.020988873	0.199920095	1.383233964	0.57760186	0	0	0
	CD84	8832	2.32225	0.020991993	0.199920095	1.37666225	0.57180315	0	0	0
	CEP250	11190	2.32216	0.020996973	0.199920095	1.39134661	0.56184449	0	0	0
	ST6GALNAC5	81849	2.32206	0.02100025	0.199920095	1.38237712	0.58466115	0	0	0
	NENF	29937	2.32205	0.021003253	0.199920095	1.36454131	0.56787011	0	0	0
	GCNT3	9245	-2.32165	0.021024798	0.199920095	0.72299238	0.56706333	0	1	0
	CCL14	6358	-2.3216	0.021027922	0.199920095	0.73541853	0.57997176	0	0	0
cg21746887 FZD1		8321	2.32131	0.021043748	0.199920095	1.3680745	0.57729931	1	0	0

cg14757492	DDX49	54555	-2.32129	0.021044849	0.199920095	0.73164507	0.58042558	0	0	1	0
cg22396691	MRPS25	64432	2.32087	0.021067528	0.200018849	1.36050793	0.57024002	0	1	0	0
cg19932177	RFC3	5983	2.3205	0.021087904	0.200018849	1.36358992	0.5899052	0	0	0	0
cg08162780	GDF15	9518	2.32038	0.021094725	0.200018849	1.3799268	0.56676079	0	0	0	0
cg14104257	SLC36A1	206358	2.32034	0.021097083	0.200018849	1.35620591	0.57835821	0	0	0	0
cg26751195	SPN	6693	-2.32005	0.021112927	0.200068799	0.72864973	0.56101251	0	0	0	0
cg10887021	PCDH2	56133	2.31962	0.021136419	0.200068799	1.36637688	0.58597217	0	0	0	0
cg21909391	FLJ42393	401105	-2.31957	0.021139242	0.200068799	0.72776512	0.55097822	0	0	0	0
cg18221862	TMEFF2	23671	2.31941	0.021147982	0.200068799	1.36191949	0.57543364	1	0	0	1
cg26264314	NALP5	126206	-2.31929	0.021154663	0.200068799	0.73782605	0.58743445	0	0	0	0
cg13980719	TNP1	7141	-2.319	0.02117059	0.200120451	0.7303998	0.5813332	0	0	0	0
cg04915566	RUNX1	861	2.31872	0.021185812	0.200165396	1.38080629	0.58970351	0	0	0	1
cg10674793	DVL3	1857	2.31823	0.021212832	0.200321717	1.37564367	0.5787616	0	0	0	0
cg09325101	OSTbeta	123264	2.31797	0.021227227	0.200358707	1.3795295	0.58087939	0	0	0	0
cg17717588	GTDC1	79712	-2.31752	0.021252385	0.200427971	0.72841364	0.55813836	0	0	0	0
cg26149678	IL18BP	10068	2.31736	0.021261066	0.200427971	1.36740669	0.56948366	0	0	0	0
cg11959435	IFNA1	3439	-2.3172	0.021270158	0.200427971	0.72524091	0.57951795	0	0	0	0
cg18216249	FLJ21908	79657	2.31683	0.021290339	0.200427971	1.36680617	0.57260992	0	0	0	0
cg24812167	SNAPC4	6621	2.31677	0.021293953	0.200427971	1.36756676	0.58168616	0	0	0	0
cg03835332	ELL3	80237	2.3167	0.021297881	0.200427971	1.36208462	0.57588746	0	0	0	0
cg14934821	GPSM1	26086	-2.31652	0.021307932	0.200427971	0.72069468	0.57442517	0	0	0	0
cg11063110	CPA5	93979	-2.31622	0.021324275	0.200483084	0.72012072	0.5753328	0	0	0	0
cg24512973	MUC1	4582	-2.31555	0.021361362	0.200670171	0.72658784	0.56625656	0	0	0	0
cg25043279	C7orf33	202865	-2.31538	0.02137073	0.200670171	0.73591914	0.57629084	0	0	0	0
cg26647600	CCR8	1237	-2.31525	0.021378214	0.200670171	0.72583109	0.56799617	0	0	0	0
cg17758148	JMY	133746	-2.3149	0.021397738	0.200670171	0.73193193	0.57437475	0	0	0	0
cg25225238	GRM3	2913	2.31476	0.021405409	0.200670171	1.37378245	0.57664381	1	0	0	1
cg19067730	PPGB	5476	2.31473	0.021407137	0.200670171	1.36073869	0.58098023	0	0	0	0
cg08054038	PVRL2	5819	2.31409	0.02144295	0.200754657	1.37262686	0.56676079	0	0	0	0
cg14451276	AOAH	313	2.31369	0.021465271	0.200754657	1.38001552	0.57613957	0	0	0	0
cg02273078	USP14	9097	2.31336	0.021483234	0.200754657	1.37732737	0.57240823	0	0	0	0
cg26155617	DDO	8528	-2.31332	0.021485612	0.200754657	0.72186919	0.58652683	0	0	0	0
cg27606341	FYB	2533	2.31303	0.021501949	0.200754657	1.40072045	0.59378782	0	0	0	0
cg20423977	PLAC4	191585	-2.3129	0.021509193	0.200754657	0.7286203	0.57523195	0	0	0	0
cg07339138	CCDC13	152206	-2.31283	0.021513195	0.200754657	0.72283328	0.56318072	0	0	0	0
cg15107670	WT1	7490	2.31282	0.021513685	0.200754657	1.42196675	0.56197055	1	0	0	0
cg10347418	ZNF436	80818	-2.31271	0.02151958	0.200754657	0.72851332	0.5988806	1	0	0	1
cg19669439	BTRC	8945	2.31259	0.021526716	0.200754657	1.39116003	0.57931626	0	0	0	1
cg09455096	XPO1	7514	2.3123	0.021542781	0.200754657	1.37592058	0.58425777	0	0	0	1
cg25589890	ULBP1	80329	-2.31191	0.021564403	0.200754657	0.72433384	0.59343485	1	0	0	0
cg05732530	DUSP2	1844	2.31169	0.021577004	0.200754657	1.36261933	0.59792255	0	0	0	0
cg18107072	CGI-38	51673	2.31135	0.021596185	0.200754657	1.3733851	0.56544978	1	0	0	0

cg17073891	PLAC1	10761	-2.31118	0.021605277	0.200754657	0.73429641	0.59315752	0	0	1	0	0
cg26443244	GDPD4	220032	-2.31118	0.021605431	0.200754657	0.73437005	0.57366882	0	0	0	0	0
cg20141916	PLEK2	26499	2.31112	0.021608968	0.200754657	1.36949206	0.58894716	0	0	0	0	0
cg27437944	FXR1	8087	2.31105	0.021612876	0.200754657	1.37968357	0.57740016	0	0	0	1	0
cg09238677	C3AR1	719	2.311	0.021615614	0.200754657	1.36706246	0.59938483	0	0	0	0	0
cg17118262	CCL1	6346	2.31079	0.021627511	0.200767646	1.38835868	0.57089552	0	0	0	0	0
cg5095951	RPS26	6231	2.31016	0.021662731	0.200893967	1.39068393	0.57825736	0	0	0	1	0
cg02519806	SYNPO2	171024	2.31002	0.021670541	0.200893967	1.38313815	0.58400565	0	0	0	0	0
cg18655584	SLC22A18	5002	-2.30998	0.021672635	0.200893967	0.71904638	0.56630698	0	0	0	0	0
cg14437986	C6orf25	80739	2.3096	0.021694038	0.200994928	1.36089357	0.58713191	0	0	0	0	0
cg14118546	KIAA1012	22878	2.30908	0.02172343	0.201035192	1.36547768	0.55697862	0	0	0	0	0
cg21453309	FAM101A	144347	-2.30891	0.021733396	0.201035192	0.72675215	0.59056071	0	0	0	0	0
cg10124491	MGC29891	126626	2.30886	0.021735912	0.201035192	1.39919964	0.55783582	0	1	0	0	0
cg17648241	ALKBH8	91801	2.30878	0.021740435	0.201035192	1.39039228	0.5821904	0	0	0	0	0
cg06459378	CYP3A7	1551	-2.30856	0.021752652	0.201050944	0.72472265	0.56988705	0	0	0	0	0
cg16107172	SLC27A5	10998	-2.30825	0.021770612	0.201119737	0.72674154	0.55254135	0	0	0	0	0
cg07634191	SCAR5	286133	-2.30786	0.021792338	0.201223234	0.73208513	0.58173659	0	0	0	0	0
cg02855426	CPA5	93979	2.30758	0.02180796	0.20126028	1.36483489	0.58017346	0	0	0	0	0
cg12172720	SYNPO	11346	-2.30706	0.021837383	0.20126028	0.71394869	0.57180315	0	0	0	0	0
cg27050763	AHCTF1	25909	-2.30694	0.021844264	0.20126028	0.72708504	0.58965309	0	0	0	0	0
cg21842478	HOXB13	10481	2.30673	0.021856524	0.20126028	1.36886312	0.59056071	1	0	0	0	0
cg17460095	PLEKHC1	10979	2.30666	0.021860219	0.20126028	1.42776771	0.57477814	0	0	0	0	0
cg19091641	ZIP2	7783	-2.30662	0.021862551	0.20126028	0.73067086	0.57165188	0	0	0	0	0
cg19896347	DNAH10	196385	-2.30621	0.021885856	0.20126028	0.73235504	0.58491327	0	0	0	0	0
cg13450057	POLN	353497	-2.3061	0.02189191	0.20126028	0.71916291	0.58249294	0	0	0	0	0
cg20371650	PRAF2	11230	-2.3056	0.021920526	0.20126028	0.72548402	0.55269262	0	0	0	0	0
cg21624282	LOC122258	122258	-2.30542	0.021930466	0.20126028	0.72585689	0.56439088	0	0	0	0	0
cg19485804	NGEF	25791	-2.30521	0.021942853	0.20126028	0.72600262	0.56701291	0	0	0	0	0
cg04382920	SLC25A31	83447	-2.30519	0.021943499	0.20126028	0.73243438	0.54563332	0	0	0	0	0
cg02320454	GPR150	285601	2.30498	0.021955918	0.20126028	1.36413698	0.58229125	1	0	0	0	0
cg18219951	GABRG2	2566	2.3049	0.021960062	0.20126028	1.39448304	0.58284591	0	0	0	0	0
cg21115990	LRP5	4041	-2.30483	0.021964248	0.20126028	0.73056014	0.57422348	0	0	0	0	0
cg12001148	FLJ33790	283212	2.30482	0.021964743	0.20126028	1.37722012	0.5802743	1	0	0	0	0
cg21096915	MGC16291	84856	2.3044	0.021988856	0.201329949	1.35498101	0.56812223	0	0	0	0	0
cg18123596	PIP5K2B	8396	2.30432	0.021993402	0.201329949	1.35864021	0.58511497	0	0	0	0	0
cg12797788	NUTF2	10204	-2.3038	0.02202306	0.201438848	0.72547983	0.59656111	0	0	0	0	0
cg08434396	FMR1	2332	-2.30281	0.022079508	0.201438848	0.71155954	0.55395321	0	0	0	0	1
cg15298545	LOC81691	81691	-2.30278	0.022081349	0.201438848	0.7236536	0.57752622	0	0	0	0	0
cg12554573	LORP3	10039	2.30265	0.022088438	0.201438848	1.36422437	0.57356797	0	0	0	0	0
cg02580606	KRTHA3B	3884	-2.30261	0.022090791	0.201438848	0.72500779	0.57210569	0	0	0	0	0
cg05593325	GALNT12	79695	2.30227	0.022110205	0.201438848	1.37250493	0.57588746	0	0	0	0	0
cg14840416	ZFP36L2	678	-2.30224	0.022112089	0.201438848	0.73604562	0.57850948	0	0	0	0	1

cg14727952	BIRC2	329	2.30193	0.022129863	0.201438848	1.36234068	0.57714804	1	0	0	0
cg27194614	STK4	6789	2.30184	0.022134931	0.201438848	1.37585748	0.57392094	0	0	0	0
cg04595021	C21orf86	257103	-2.3018	0.022137232	0.201438848	0.73279267	0.57379488	0	0	0	0
cg05606799	KISS1	3814	-2.30169	0.022143366	0.201438848	0.72318406	0.57175272	0	0	0	0
cg06887167	CIT	11113	2.30167	0.022144661	0.201438848	1.38423958	0.58254336	0	0	0	0
cg16267266	IL17F	112744	-2.30167	0.022144698	0.201438848	0.72513585	0.57573618	0	0	0	0
cg07761912	TOR1AIP2	163590	2.30117	0.022173693	0.201438848	1.38531049	0.57835821	0	0	0	0
cg15423764	GLYAT	10249	-2.30098	0.022184156	0.201438848	0.72809518	0.56343284	0	0	0	0
cg09054876	PECI	10455	2.30081	0.022193908	0.201438848	1.35880048	0.58748487	0	0	0	0
cg04478795	SMO	6608	2.30076	0.022196743	0.201438848	1.36995649	0.57593788	0	0	0	0
cg07512345	TNP2	7142	-2.30024	0.022226788	0.201438848	0.71981788	0.55213796	0	0	0	0
cg03080985	SH3BGR12	83699	2.30005	0.022237851	0.201438848	1.38023429	0.55390278	0	1	0	0
cg20225275	ATP6V0E	8992	2.29997	0.022242415	0.201438848	1.37300176	0.58249294	0	0	0	0
cg06282059	UBE2E1	7324	-2.29983	0.0222507	0.201438848	0.72497534	0.55707947	0	0	0	1
cg15519208	HIST1H1E	3008	2.2998	0.022252334	0.201438848	1.37949634	0.58314845	0	1	0	0
cg21577049	WDR69	164781	2.29978	0.022253069	0.201438848	1.375374	0.58824123	0	1	0	0
cg15312323	KRTAP4-4	84616	-2.2997	0.022258112	0.201438848	0.7304872	0.57982049	0	0	0	0
cg03723845	BTNL8	79908	-2.29906	0.022294686	0.201608538	0.71866458	0.57175272	0	0	0	0
cg16792632	ESR2	2100	2.2989	0.022304127	0.201608538	1.36035817	0.5899052	0	0	0	0
cg00714377	SLA2	84174	2.29852	0.022325786	0.201608538	1.3691387	0.57039129	0	0	0	0
cg23003881	FAM44B	91272	2.29833	0.022337221	0.201608538	1.36885259	0.5744756	0	0	0	0
cg15796978	LHCR	3973	2.2981	0.022350041	0.201608538	1.36728606	0.58355184	0	0	0	0
cg03277051	COL8A1	1295	2.29809	0.022350837	0.201608538	1.37008386	0.58224082	1	0	0	0
cg12647320	POGZ	23126	-2.29806	0.022352494	0.201608538	0.7204094	0.57606394	0	0	0	0
cg19210770	ACCN4	55515	2.29791	0.022361204	0.201608538	1.3631687	0.59499798	0	0	0	0
cg17207590	APH1B	83464	2.29759	0.022379437	0.201677836	1.35528498	0.58899758	0	0	0	0
cg20609368	HBD	3045	-2.29719	0.022403096	0.201795948	0.72911735	0.58365268	0	0	0	0
cg05861567	MLC1	23209	2.29678	0.022426625	0.2018242	1.38493651	0.58461073	0	0	0	0
cg18913171	SLAMF9	89886	-2.29677	0.02242734	0.2018242	0.73004875	0.55702904	0	0	0	0
cg14916288	CCL23	6368	2.29634	0.022452142	0.201925181	1.38282857	0.57306374	0	0	0	0
cg24266542	POLR3B	55703	2.29612	0.022464694	0.201925181	1.3611097	0.57034086	0	0	0	0
cg27342801	REG3A	5068	-2.29603	0.02247024	0.201925181	0.72313341	0.56867689	0	0	0	0
cg22037919	CCM2	83605	2.29556	0.022497382	0.202047114	1.37361188	0.58387959	0	0	0	0
cg14120784	GTF2IRD1	9569	2.29542	0.022505539	0.202047114	1.3779043	0.58287112	0	0	0	0
cg06438300	FAM19A2	338811	2.29525	0.022515505	0.202047114	1.3714866	0.5577854	0	0	0	0
cg13697378	DIRAS3	9077	2.29466	0.022549752	0.202236566	1.35483393	0.59509883	0	0	0	0
cg05376895	PNMA3	29944	-2.29452	0.022557768	0.202236566	0.74038456	0.56983663	0	0	0	0
cg18329349	PXV1	857	2.29363	0.022609781	0.20255471	1.36029144	0.57029044	0	0	1	0
cg20951539	CAT1	222659	-2.29355	0.022614439	0.20255471	0.73029812	0.58808996	0	0	0	0
cg23909633	IL24	11009	-2.29281	0.022657938	0.202808925	0.71917516	0.5802743	0	0	0	0
cg09406238	MTMR8	55613	2.2927	0.022664032	0.202808925	1.36341655	0.57825736	0	0	0	0
cg23389061	C14orf122	51016	2.29231	0.022687179	0.202856775	1.37741813	0.58002219	0	0	1	0

[illegible]

cg00462311	NFATC4	4776	2.27326	0.023826424	0.204962214	1.38711374	0.57382009	0	0	0	1
cg15125634	RAB11A	8766	2.27303	0.023840636	0.204992253	1.36594971	0.57810609	0	0	0	0
cg14832358	FLJ10379	55133	2.2728	0.023854907	0.205022278	1.36616125	0.57422348	0	0	0	0
cg03157806	FAM11A	84548	-2.27227	0.023887454	0.20515741	0.73258805	0.58375353	1	0	0	0
cg03146158	MYO1E	4643	2.27211	0.023896984	0.20515741	1.36479617	0.58052642	0	0	0	1
cg24620905	MTMR11	10903	2.27198	0.023904898	0.20515741	1.35484651	0.58970351	0	0	0	0
cg10125119	CSDE1	7812	2.2717	0.023922153	0.20515741	1.38104829	0.57745059	0	0	0	0
cg07414384	BAZ1A	11177	2.27149	0.023935219	0.20515741	1.37073678	0.57734974	0	0	0	0
cg22187630	CACNA1A	773	2.27129	0.023947526	0.20515741	1.36593027	0.60669625	1	0	1	0
cg25936385	FAIM2	23017	-2.27127	0.023948361	0.20515741	0.72783211	0.57134933	0	0	0	0
cg10896886	ACTR3B	57180	2.27113	0.023956929	0.20515741	1.35298574	0.57588746	0	0	0	0
cg23570261	FLJ10006	55677	2.27073	0.023981798	0.20515741	1.35657793	0.56514724	0	0	1	0
cg01508386	SCYL1BP1	92344	2.27064	0.023987343	0.20515741	1.37533297	0.59172045	0	0	0	0
cg09551916	CFHR2	3080	-2.27062	0.023988584	0.20515741	0.72796609	0.5961073	0	0	0	0
cg24719575	REST	5978	2.26997	0.0240283	0.205405212	1.35997953	0.57079468	0	0	1	1
cg02002676	APOBEC3B	9582	2.26928	0.024070952	0.205623336	1.35869336	0.58506454	0	0	0	0
cg01103730	IL20	50604	-2.26921	0.024075321	0.205623336	0.73186927	0.5881908	0	0	0	0
cg16508857	WWOX	51741	2.2687	0.024106685	0.205799292	1.36524597	0.54921339	0	0	0	0
cg01405107	H0XB5	3215	2.26791	0.024155773	0.20612634	1.36591989	0.5665591	0	0	1	0
cg15905124	MGC13034	134288	-2.26726	0.024197555	0.206271915	0.7246222	0.59424163	0	0	0	0
cg07126559	SGCG	6445	-2.26684	0.024221556	0.206271915	0.7262578	0.59797297	0	0	0	0
cg00903242	CHL1	10752	2.26679	0.024225036	0.206271915	1.37358049	0.56388665	0	0	0	0
cg18139900	ZNF140	7699	2.26665	0.024233397	0.206271915	1.36059896	0.56857604	0	0	0	0
cg07841014	REG1B	5968	-2.26637	0.024250859	0.206271915	0.72577365	0.55339855	0	0	0	0
cg10150530	LRMP	4033	2.26636	0.024251375	0.206271915	1.3690895	0.57523195	0	0	0	0
cg11231018	LIPF	8513	-2.26625	0.024258326	0.206271915	0.73269029	0.57039129	0	0	0	0
cg27625732	TBC1D13	54662	2.26613	0.024265953	0.206271915	1.34734773	0.56519766	0	0	0	0
cg17329249	MAT2B	27430	2.26577	0.024288244	0.206271915	1.37192979	0.57250908	0	1	0	0
cg12343638	PCDHB12	56124	2.26574	0.024290166	0.206271915	1.35979346	0.57437475	0	0	0	0
cg14833385	HLA-DMA	3108	2.26572	0.024291486	0.206271915	1.37090254	0.58657725	0	0	0	0
cg06432655	CLIPR-59	25999	2.26541	0.024310553	0.206278553	1.36361986	0.5866781	0	0	0	0
cg25169784	UGCG12	55757	2.26504	0.024333783	0.206278553	1.36566743	0.57871117	0	0	0	0
cg08096038	C6orf111	25957	-2.26486	0.024345033	0.206278553	0.72544149	0.56668516	0	0	1	0
cg19252175	FLJ20035	55601	2.26484	0.024345736	0.206278553	1.38486158	0.57921541	0	0	0	0
cg19056418	TMC8	147138	2.26463	0.024358824	0.206278553	1.37334832	0.56706333	0	0	0	0
cg03163246	PBPL2	10895	-2.26459	0.024361715	0.206278553	0.73318711	0.57548407	0	0	0	0
cg12067287	MYOM1	8736	-2.26449	0.024367777	0.206278553	0.73358757	0.58743445	0	0	0	0
cg02005755	SLC13A4	26266	-2.26373	0.024414899	0.206355043	0.73389457	0.57608915	0	0	0	1
cg08274234	SEMA3E	9723	2.26361	0.024422487	0.206355043	1.37695336	0.59444332	0	0	0	0
cg23423382	ZNF287	57336	2.26327	0.024443658	0.206355043	1.35352472	0.56434046	1	0	0	0
cg03427831	MTHFR	4524	2.26313	0.024452583	0.206355043	1.34419586	0.56403792	0	0	0	0
cg06918467	OLIG3	167826	2.26307	0.024456304	0.206355043	1.35582584	0.57588746	1	0	0	1

cg23350274	RDH12	145226	-2.26266	0.02448189	0.206355043	0.7300081	0.57008875	0	0	0
cg13625113	ZNF482	10773	2.26266	0.024482277	0.206355043	1.37119834	0.57714804	0	0	0
cg22968727	RPL11	6135	2.26259	0.024486181	0.206355043	1.36155788	0.59540137	0	0	0
cg24274600	RHOBTB3	22836	2.26249	0.02449263	0.206355043	1.35166048	0.56792053	0	0	0
cg22367989	NRP2	8828	2.26249	0.024492668	0.206355043	1.364004	0.57750101	0	0	1
cg06434428	HAPLN1	1404	-2.26245	0.024495513	0.206355043	0.7346835	0.57694635	0	0	1
cg19530885	SCGB3A2	117156	-2.26176	0.024538454	0.206414566	0.72722152	0.57528237	0	0	0
cg15104484	PXB26	55670	2.26168	0.024543581	0.206414566	1.35584445	0.59172045	0	0	0
cg03575468	PDHA1	5160	-2.26157	0.024550131	0.206414566	0.72361303	0.60044373	0	0	0
cg10057218	GSDML	55876	-2.26128	0.024568669	0.206414566	0.73511652	0.56116378	0	0	0
cg25734864	PROZ	8858	-2.26123	0.024571787	0.206414566	0.74072293	0.57583703	0	0	0
cg23219570	FGF23	8074	2.2611	0.02458007	0.206414566	1.35501227	0.59116579	0	0	0
cg10957584	FAM86A	196483	2.26062	0.02460986	0.206414566	1.3698125	0.57018959	0	0	0
cg26066361	CLEC7A	64581	-2.26058	0.024612549	0.206414566	0.74213026	0.56524808	0	0	0
cg08687825	PRSS35	167681	2.26047	0.024619275	0.206414566	1.36002883	0.58763614	0	0	0
cg17051321	BNC1	646	2.25988	0.024656616	0.206414566	1.36535706	0.58123235	1	0	0
cg13640200	AMIGO2	347902	2.25977	0.024663517	0.206414566	1.35382778	0.5594998	0	0	1
cg13218435	PETI12L	5188	2.25975	0.024664814	0.206414566	1.37164858	0.5697862	0	0	0
cg02664205	PDE7B	27115	-2.2596	0.02467394	0.206414566	0.73645957	0.58319887	0	0	0
cg17939444	C8orf4	56892	-2.25951	0.024680036	0.206414566	0.73199438	0.57467729	0	0	0
cg18099844	C15orf24	56851	-2.25947	0.024682481	0.206414566	0.73389897	0.55334812	0	0	1
cg076554843	MYO18B	84700	-2.25947	0.024682678	0.206414566	0.72320234	0.56212182	0	0	0
cg00811081	FLJ21908	79657	2.25909	0.024706466	0.206414566	1.363026	0.57709762	0	0	0
cg09201327	TNC	3371	2.25898	0.024713584	0.206414566	1.3661205	0.57740016	0	0	1
cg03849074	ZNF306	80317	2.25885	0.024721618	0.206414566	1.38153795	0.5881908	0	0	0
cg27345286	FBXO3	26273	2.25877	0.024726736	0.206414566	1.35824243	0.5873336	1	0	0
cg10364182	LXC1	119710	2.25837	0.024751664	0.206414566	1.36539871	0.57003832	0	0	0
cg19228118	CSMD2	114784	2.25812	0.024767569	0.206414566	1.37227001	0.58153489	1	0	0
cg18152311	FAM49B	51571	2.25792	0.02478013	0.206414566	1.37001926	0.56106293	0	0	0
cg13131015	GUCY2C	2984	-2.25782	0.024786659	0.206414566	0.73671885	0.57034086	0	0	0
cg02091100	GUCA1A	2978	-2.25781	0.024787106	0.206414566	0.73766193	0.56358411	0	0	0
cg07461318	NTN4	59277	2.25762	0.024799007	0.206414566	1.35958393	0.55647439	1	0	0
cg14272706	ALS2CR12	130540	-2.25746	0.024809213	0.206414566	0.72386583	0.57795482	0	0	0
cg14981132	HNRPA1	3178	2.25742	0.024812171	0.206414566	1.36714436	0.57452602	0	0	1
cg26692016	APOBEC1	339	-2.25736	0.024815607	0.206414566	0.73105593	0.57417305	0	0	0
cg12348970	SLC24A2	25769	-2.25693	0.024843031	0.206552827	0.72320311	0.58541751	0	0	1
cg21828898	UBE1DC1	79876	2.25646	0.02487249	0.206558942	1.36397876	0.57387051	0	0	0
cg03038672	CLDN9	9080	-2.25618	0.024890244	0.206558942	0.72966087	0.57165188	0	0	0
cg24820809	MB	4151	-2.25616	0.024891883	0.206558942	0.72477194	0.58269464	0	0	0
cg23180270	RNF113A	7737	-2.25614	0.024892909	0.206558942	0.73181646	0.56681121	0	0	0
cg19130550	OLFML2B	25903	2.25607	0.024897774	0.206558942	1.38239405	0.56423961	1	0	0
cg27367554	CGI-09	51605	2.25552	0.024932509	0.206757407	1.35482126	0.55344897	0	0	0

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cg13553455	COL17A1	1308	-2.24511	0.025602099	0.208393663	0.73443046	0.5717023	0	0	0	0	0
cg18598959	PIK4CB	5298	-2.24466	0.025630998	0.208393663	0.73060558	0.56792053	0	0	0	0	0
cg04882759	MYOCD	93649	-2.2446	0.025635008	0.208393663	0.7338855	0.56181928	0	0	0	0	0
cg04391540	ZNF541	84215	2.24443	0.025646406	0.208393663	1.35250847	0.56701291	0	0	0	0	0
cg23414387	CYP4B1	1580	-2.24433	0.025652841	0.208393663	0.73343429	0.56650867	0	0	0	0	0
cg18502522	SCAMP2	10066	2.24433	0.025652906	0.208393663	1.34303653	0.57230738	0	0	0	0	0
cg08413366	PPP3CB	5532	2.24379	0.025687706	0.208587757	1.36050136	0.58158532	0	0	0	0	0
cg27553955	KCNQ3	170850	2.24352	0.0257057	0.208608783	1.34834781	0.57049213	0	0	0	1	0
cg10358212	ASCIZ	23300	-2.24337	0.025715472	0.208608783	0.73417295	0.58355184	0	0	0	0	0
cg06101225	STIL	6491	2.24324	0.025723599	0.208608783	1.35693854	0.58703106	0	0	0	0	0
cg18429742	ZDHC11	79844	-2.24309	0.025733931	0.208608783	0.73145	0.5864764	0	0	0	0	0
cg17452277	EBAG9	9166	2.24287	0.025748136	0.208635495	1.3688025	0.56736587	0	0	0	0	0
cg01500421	HARSL	23438	2.24231	0.025784897	0.208819955	1.36059013	0.56897943	0	0	0	0	0
cg03138405	GLT25D1	79709	2.2421	0.02579808	0.208819955	1.35161034	0.58687979	0	0	0	0	0
cg03400060	BHMT2	23743	2.24154	0.025835019	0.208819955	1.34629396	0.57049213	0	0	0	0	0
cg05421688	C1orf76	148753	2.24119	0.025858172	0.208819955	1.35530764	0.58466115	1	0	0	0	0
cg26428825	KCNV2	169522	-2.24117	0.025859508	0.208819955	0.73716541	0.56908027	0	0	0	0	0
cg01302245	P53AIP1	63970	-2.24102	0.025869289	0.208819955	0.73303558	0.5691307	0	0	0	0	0
cg13401681	GRPR	2925	2.24095	0.025873621	0.208819955	1.35920131	0.57326543	0	0	0	1	0
cg27305895	C9orf76	80010	2.24067	0.025892441	0.208819955	1.3636914	0.57422348	0	0	0	0	0
cg05186188	AQP8	343	-2.2405	0.025903515	0.208819955	0.73302366	0.5639875	0	0	0	0	0
cg27063607	MRPL33	9553	2.24036	0.025912351	0.208819955	1.35062577	0.56499597	0	0	0	0	0
cg10935550	BTG2	7832	-2.2401	0.025929426	0.208819955	0.73844431	0.5873336	1	0	0	0	0
cg08292050	SOC54	122809	-2.2401	0.025929809	0.208819955	0.73329022	0.57755143	0	0	0	0	0
cg27121132	DERL1	79139	2.24009	0.025930544	0.208819955	1.37631433	0.5586426	0	0	0	0	0
cg02705666	GTF2B	2959	2.24006	0.025932546	0.208819955	1.3766453	0.56928197	0	0	0	0	0
cg26450541	ZNF187	7741	2.24002	0.025934699	0.208819955	1.36326188	0.57371924	0	0	0	0	0
cg26716323	TOMM7	54543	2.23938	0.025976864	0.209063258	1.36038642	0.580476	0	0	0	0	0
cg08113203	SMR3B	10879	-2.23923	0.025986781	0.209063258	0.73324365	0.58435861	0	0	0	0	0
cg10333959	MGMT	4255	-2.23878	0.026016293	0.209212662	0.73195849	0.56988705	0	0	0	0	0
cg04691375	LRRCA2	115353	2.23859	0.026029348	0.209229664	1.36026848	0.57432432	0	0	0	0	0
cg24547948	ADPRHL2	54936	-2.23824	0.026052477	0.209301534	0.73531681	0.55682735	0	0	0	0	0
cg26550234	SLC39A12	221074	-2.23788	0.026075859	0.209301534	0.73145707	0.57351755	0	0	0	0	0
cg15765532	C11orf30	56946	2.23777	0.026083314	0.209301534	1.36062217	0.56693727	0	0	0	1	0
cg05633152	SLC10A1	6554	-2.23772	0.02608658	0.209301534	0.73708417	0.56983663	0	0	0	1	0
cg25065147	MCFD2	90411	2.23738	0.026109411	0.209301534	1.35557721	0.57321501	0	0	0	0	0
cg20399252	EBPL	84650	-2.2371	0.026127731	0.209301534	0.72055346	0.59933441	0	1	0	0	0
cg23877831	MRPL51	51258	2.23695	0.026137491	0.209301534	1.34944141	0.56736587	0	0	0	0	0
cg23769143	TIMP4	7079	2.23683	0.026145214	0.209301534	1.354939	0.59731747	0	0	0	1	0
cg10379112	LOC57146	57146	2.23661	0.026159808	0.209301534	1.36026531	0.58884631	0	0	0	0	0
cg05417950	SPATA5	166378	2.23644	0.026171663	0.209301534	1.37239687	0.58531666	0	0	0	0	0
cg23623692	ATP10A	57194	-2.23629	0.026181609	0.209301534	0.73337769	0.57301331	0	0	0	0	0

cg14246617	MITF	4286	2.23628	0.026181725	0.209301534	1.35365607	0.5751311	0	0	1	0	1
cg10426652	WDR75	84128	2.23627	0.026182592	0.209301534	1.37639701	0.57508068	0	0	0	0	0
cg23824713	SERPINB5	5268	-2.23614	0.02619152	0.209301534	0.73470297	0.57977007	0	0	0	0	0
cg09645888	ME3	10873	2.2351	0.026260425	0.209552789	1.34417126	0.59570391	0	0	0	0	0
cg04544498	MAGEE1	57692	2.23507	0.026262689	0.209552789	1.34276014	0.58461073	0	0	0	0	0
cg22309489	OKL38	29948	-2.235	0.026267022	0.209552789	0.73185146	0.564643	0	0	0	0	0
cg13243219	MDP1	4197	2.23457	0.026295525	0.209552789	1.3664981	0.56192013	1	0	0	0	0
cg02322989	LRP1B	53353	2.23458	0.026301571	0.209552789	1.35871759	0.59726704	0	0	0	0	1
cg02600394	TRX	7294	-2.23425	0.026317182	0.209552789	0.73492886	0.58264421	0	0	0	0	0
cg20477318	TIMM23	10431	2.23413	0.026324668	0.209552789	1.37807425	0.56423961	0	0	0	1	0
cg09296044	CCNDBP1	23582	2.23411	0.026326249	0.209552789	1.3548724	0.58158532	0	0	0	0	0
cg27420123	FSHB	2488	-2.23407	0.026329284	0.209552789	0.72898523	0.57271077	0	0	0	0	0
cg15812071	NXF5	55998	-2.23402	0.026332544	0.209552789	0.73596835	0.59328358	0	0	0	0	0
cg06340713	CHM	1121	-2.23319	0.026387532	0.209903032	0.73909317	0.57392094	0	0	0	0	0
cg12029639	MAB21L1	4081	2.23292	0.026405555	0.209908068	1.34677828	0.56726503	1	0	1	0	1
cg25302370	C6orf165	154313	2.23285	0.026410119	0.209908068	1.35609802	0.57805567	0	0	0	0	0
cg25635500	RRP22	10633	2.23268	0.026421827	0.209913877	1.3497627	0.57442517	1	0	0	0	0
cg00231644	TUBB2A	7280	2.23237	0.026442221	0.209956596	1.35854688	0.57200484	0	0	0	0	0
cg12259537	ZNF606	80095	2.23167	0.026489451	0.209956596	1.36254536	0.57205526	0	0	0	0	0
cg14173613	TMEM33	55161	2.23162	0.026492901	0.209956596	1.34747873	0.58471158	0	0	0	0	0
cg12530080	PMCHL1	5369	-2.23147	0.026502564	0.209956596	0.73718176	0.60311618	0	0	0	0	0
cg06250108	LOC92691	92691	2.23132	0.026512856	0.209956596	1.34769596	0.5507261	0	0	0	0	0
cg18630040	PLA2G7	7941	2.23127	0.026516203	0.209956596	1.36327721	0.57160145	1	0	0	0	0
cg16898420	PRG-3	54886	-2.2311	0.026527508	0.209956596	0.73778257	0.56227309	1	0	0	0	0
cg02126424	CTRL	1506	-2.23104	0.026531322	0.209956596	0.73426189	0.55687777	0	0	0	0	0
cg23655719	CCL19	6363	-2.23057	0.026563036	0.209956596	0.72435983	0.56469343	0	0	0	0	0
cg21091679	ELL2	22936	2.23044	0.026571904	0.209956596	1.34301525	0.58511497	0	1	1	0	0
cg18621299	EVL	51466	2.23038	0.026576024	0.209956596	1.36906601	0.57603873	0	0	0	0	0
cg09147222	CPNE4	131034	2.23026	0.026583776	0.209956596	1.37719591	0.57709762	0	0	0	0	1
cg21574752	COPG2	26958	2.2302	0.026587832	0.209956596	1.37425568	0.58743445	0	0	0	0	1
cg19591881	CD34	947	2.23016	0.026590497	0.209956596	1.35488791	0.59131706	1	0	0	0	1
cg11944101	CD40LG	959	-2.23014	0.026591893	0.209956596	0.7368079	0.59066156	0	0	0	0	0
cg21166999	ROS1	6098	-2.22979	0.02661565	0.210029114	0.7397225	0.58324929	0	0	0	0	0
cg04907664	EFNB1	1947	-2.22968	0.026623044	0.210029114	0.73375019	0.55042356	1	0	0	0	0
cg14366490	TXNL6	115861	-2.22915	0.026658402	0.210201904	0.74188643	0.5584409	0	0	0	0	0
cg19464944	FCGR1A	2209	2.22894	0.026673185	0.210201904	1.38406676	0.56665994	0	0	0	0	0
cg12216205	C6orf111	25957	-2.22877	0.026684465	0.210201904	0.74037478	0.57195442	0	0	0	1	0
cg25560840	KIAA0427	9811	2.2287	0.026689177	0.210201904	1.364818	0.56832392	0	0	0	0	0
cg03131527	BDH	622	-2.2282	0.026722542	0.210201904	0.74050964	0.56887858	0	0	0	0	0
cg22226839	ATP2B4	493	2.22818	0.026724045	0.210201904	1.36151364	0.57235781	0	0	0	0	1
cg08647727	MGC50559	254013	2.22817	0.026724907	0.210201904	1.35761919	0.5663574	0	0	0	0	0
cg21750602	PPP2R2D	55844	-2.22805	0.026732884	0.210201904	0.73330703	0.57039129	0	0	0	0	0

cg17693270	DGAT2L6	347516	2.20786	0.028127484	0.213613326	1.36288883	0.57321501	0	0	0	0	0
cg08647446	RASSF6	166824	2.20774	0.028135727	0.213613326	1.35621534	0.58289633	0	0	0	0	0
cg08847038	C10orf63	219670	2.20772	0.028136989	0.213613326	1.36312453	0.58516539	0	0	0	0	0
cg10590292	BIN2	51411	2.2077	0.028138576	0.213613326	1.34599584	0.57326543	0	0	0	0	0
cg09772827	PRCP	5547	2.20726	0.028169401	0.213739839	1.34726509	0.55859217	0	0	1	0	0
cg06500476	FLJ11017	55286	-2.20709	0.028181645	0.213739839	0.72491091	0.56519766	0	0	0	0	0
cg02077793	CARM1	10498	2.20651	0.028222409	0.213739839	1.36738359	0.589048	0	0	0	0	0
cg16205058	OSGE	55644	2.20631	0.028236905	0.213739839	1.36710701	0.57089552	0	0	1	0	0
cg26232005	SMOX	54498	2.20624	0.028242104	0.213739839	1.35135501	0.58345099	0	0	0	0	0
cg19412675	SNX24	28966	2.20619	0.0282453	0.213739839	1.34575696	0.57094595	0	0	0	0	0
cg20767356	HORMAD1	84072	-2.20606	0.02825464	0.213739839	0.72835812	0.56267648	0	0	0	0	0
cg14889768	RAB32	10981	-2.20602	0.028257689	0.213739839	0.73564904	0.58829165	1	0	0	0	0
DKFZp434N0												
cg26832154	35	84222	-2.20571	0.028279528	0.213739839	0.74080587	0.58577047	0	0	0	0	0
cg06000781	BST1	683	-2.20561	0.028286398	0.213739839	0.73918603	0.57155103	0	0	0	0	0
cg20587336	ARMC1	55156	2.20543	0.028299203	0.213739839	1.35552793	0.58042558	0	0	0	0	0
cg19403346	MGC45800	90768	2.20542	0.02829985	0.213739839	1.35911525	0.58103066	0	0	0	0	0
cg15001381	AXIN1	8312	2.20541	0.028300544	0.213739839	1.35166525	0.59898144	0	0	0	0	0
cg13221588	TTF2	8458	2.20488	0.028338366	0.213940997	1.36983211	0.57992134	0	0	1	0	0
cg01371258	ZNF184	7738	2.20465	0.028354793	0.213980539	1.34177512	0.57230738	0	0	0	0	0
cg11337780	ZNF439	90594	-2.20409	0.028394451	0.214195287	0.74744136	0.58738403	0	0	0	0	0
cg14826683	SPRR2D	6703	-2.20372	0.028420914	0.214310376	0.73589591	0.564643	0	0	0	0	0
cg0622677	TSPAN5	10098	2.20354	0.028433726	0.21432247	1.35332215	0.56847519	0	0	0	0	0
cg22778145	CLK4	57396	2.20305	0.028468838	0.214374517	1.33543959	0.58198871	0	0	0	0	0
cg10318258	RIPK3	11035	-2.203	0.028472309	0.214374517	0.73921677	0.56393707	1	0	0	0	0
cg01095482	TIE1	7075	-2.20289	0.02848003	0.214374517	0.73555171	0.57336628	0	0	0	0	0
cg20613889	FSHR	2492	-2.20275	0.028490053	0.214374517	0.74269678	0.56887858	0	0	0	0	0
cg18680021	OTUB2	78990	2.20238	0.028516505	0.214374517	1.34561058	0.58693021	0	0	0	0	0
cg12638745	C21orf13	150082	2.20234	0.028518993	0.214374517	1.35710583	0.57843384	0	0	0	0	0
cg18497960	RBM12	10137	2.20234	0.028519103	0.214374517	1.34384634	0.57563534	0	0	0	0	0
cg17269548	PPIA	5478	-2.20197	0.028545494	0.214419501	0.73415346	0.56887858	0	0	0	0	0
cg00840403	CHST4	10164	2.20195	0.028547513	0.214419501	1.35918572	0.57487898	0	0	1	0	0
cg20979602	PAPD4	167153	2.20153	0.028577105	0.214557496	1.35946064	0.58178701	0	1	0	0	0
cg25375711	TRMT12	55039	2.20126	0.028596221	0.214616755	1.36076564	0.56993748	0	0	0	0	0
cg20022122	GCKR	2646	-2.20089	0.028622753	0.214731607	0.72555425	0.5830476	0	0	0	0	0
cg02588309	OSRF	23548	2.20047	0.028653051	0.214810682	1.34019409	0.56408834	0	0	0	0	0
cg00884221	IGFBP7	3490	2.20015	0.028675949	0.214810682	1.34528758	0.5821904	1	0	0	0	0
cg08469834	CASP4	837	2.20004	0.028684084	0.214810682	1.35296664	0.57871117	0	1	0	0	0
cg19658284	FLJ45645	375287	2.20001	0.028686428	0.214810682	1.35149999	0.56983663	0	0	0	0	0
cg11334469	GTF2I	2969	2.19996	0.028689459	0.214810682	1.36799383	0.58738403	0	0	0	0	0
cg21596317	PAM	5066	2.1997	0.028708259	0.21486731	1.34015887	0.58834207	0	0	0	0	0
cg00405568	NMT1	4836	2.19932	0.028735966	0.214970656	1.35805549	0.56887858	0	0	1	1	1

cg04228573	MAP2K6	5608	2.1992	0.02874455	0.214970656	1.35721847	0.57371924	0	0	0	0	1
cg07221454	MS4A10	341116	-2.19899	0.028759765	0.215000362	0.72835255	0.58350141	0	0	0	0	0
cg21906716	TP73	7161	-2.1987	0.028780575	0.215071859	0.73069688	0.56771884	1	0	0	0	0
cg18317951	PLEKHF2	79666	2.19799	0.028831829	0.215191565	1.3558134	0.58158532	0	0	0	0	0
cg15583058	SDCCAG3	10807	2.19796	0.028833428	0.215191565	1.33720811	0.58783784	0	0	0	0	1
cg01846065	STAM2	10254	2.19785	0.02884155	0.215191565	1.34869067	0.57674466	0	0	0	0	0
cg11494656	ARR3	407	-2.19785	0.028841607	0.215191565	0.72971365	0.56887858	0	0	0	0	0
cg17214107	FGF2	2247	2.19768	0.028853919	0.215199466	1.34282088	0.57538322	0	0	1	0	0
cg13619915	SLITRK3	22865	2.19736	0.028876877	0.215286728	1.35651123	0.56519766	1	0	0	0	1
cg02046532	DEFB129	140881	-2.19682	0.028916055	0.215468169	0.73913967	0.57286204	0	0	0	0	0
cg25411725	SLC22A13	9390	-2.19653	0.028936844	0.215468169	0.74106403	0.56918112	0	0	0	0	0
cg04070847	CD200R1	131450	2.19636	0.028949365	0.215468169	1.34831838	0.57523195	0	0	0	0	0
cg25211252	KCNMB3	27094	2.19635	0.028950354	0.215468169	1.34046901	0.58703106	0	1	0	0	0
cg06240124	PLK1	5347	2.19622	0.02895968	0.215468169	1.34602654	0.59136749	0	0	0	0	0
cg01459955	AHR	57491	-2.19601	0.028974481	0.215468169	0.73270998	0.58380395	0	1	0	0	0
cg04969878	TMEM19	55266	-2.19576	0.028993037	0.215468169	0.74052818	0.57775313	0	0	0	0	0
cg05959392	C10orf32	119032	2.19546	0.029014838	0.215468169	1.36018685	0.59308189	0	0	0	0	0
cg26776069	C10orf176	64789	2.1954	0.029019162	0.215468169	1.36151671	0.56882816	0	0	0	0	0
cg25346576	CCDC55	84081	2.19539	0.029019684	0.215468169	1.34995005	0.58098023	0	0	0	0	0
cg17814481	FBP1	2203	2.1952	0.02903354	0.215468169	1.36214877	0.58370311	1	0	0	0	0
cg11204562	C10orf81	79949	-2.19505	0.029044383	0.215468169	0.72934831	0.57649254	0	0	0	0	0
cg04755662	AR	367	-2.195	0.029047692	0.215468169	0.74033192	0.57003832	0	0	0	0	0
cg20120491	DMC1	11144	2.19472	0.029068495	0.2155081	1.34125803	0.59270371	0	0	0	0	0
cg10564498	AXL	558	2.19462	0.029075615	0.2155081	1.36083696	0.56282775	0	0	0	0	1
cg10986043	TCAP	8557	2.19393	0.029125809	0.215677492	1.35232419	0.5899052	0	0	0	0	0
cg23055159	COMMD8	54951	2.19378	0.029136574	0.215677492	1.34587094	0.59479629	0	1	0	0	0
cg18114671	NOL4	8715	2.19374	0.029139726	0.215677492	1.36763449	0.58662767	1	0	0	1	0
cg14433673	UCP2	7351	-2.19368	0.029143582	0.215677492	0.74262033	0.56307987	0	0	0	0	0
cg06353345	OR51B4	79339	-2.19318	0.029180491	0.215827513	0.73204547	0.59318274	0	0	0	0	0
cg02786378	SLC7A2	6542	-2.19271	0.029214259	0.215827513	0.73907965	0.57220654	0	0	0	0	0
cg19791253	ATP2B4	493	2.19268	0.029217023	0.215827513	1.36086763	0.56817265	0	0	0	0	1
cg04774694	DPEP2	64174	-2.19265	0.029218775	0.215827513	0.74754606	0.55450787	0	0	0	0	0
cg25770411	WBSR23	80112	-2.19263	0.029220285	0.215827513	0.73633926	0.556071	0	0	0	0	0
cg23941599	FEM1C	56929	2.19182	0.029279382	0.216123659	1.35792415	0.56731545	0	0	0	1	0
cg15516226	BTNL9	153579	-2.19141	0.029309822	0.216123659	0.73446206	0.57205526	0	0	0	0	0
cg00746130	BAT5	7920	2.19134	0.029314536	0.216123659	1.37073559	0.57654296	0	0	0	0	0
cg22067472	CYB5-M	80777	2.19133	0.029315444	0.216123659	1.36021091	0.56514724	0	0	0	1	0
cg22593486	OR10H1	26539	-2.19123	0.029322887	0.216123659	0.73832364	0.57896329	0	0	0	0	0
cg14679587	GLS2	27165	2.19116	0.029328191	0.216123659	1.35813044	0.58506454	0	0	0	0	0
cg09735905	HHLA3	11147	2.19086	0.029350172	0.216136129	1.33193844	0.56307987	1	0	0	0	0
cg07409200	FLJ40919	144809	2.19073	0.02935906	0.216136129	1.36182662	0.58524103	0	0	0	0	0
cg11721194	SLAMF7	57823	-2.1904	0.029383177	0.216136129	0.7361097	0.57462687	0	0	0	0	0

cg10035922	C1orf102	127700	2.19025	0.02939437	0.216136129	1.3472648	0.55067568	0	0	0	0	0
cg22511262	WT1	7490	2.19018	0.029399997	0.216136129	1.35285658	0.5926785	1	0	0	0	0
cg04127303	ZZZ3	26009	2.19012	0.029404329	0.216136129	1.34632029	0.57845906	0	0	0	0	0
cg23306832	KIAA0999	23387	2.18971	0.029434479	0.216136129	1.35225995	0.56933239	0	0	0	0	0
cg17095936	TBX19	9095	-2.18965	0.029438893	0.216136129	0.72938602	0.57997176	0	0	0	0	0
cg26082838	FLRT3	23767	2.18945	0.029453209	0.216136129	1.35894404	0.57477814	0	1	0	0	1
cg10063179	MTNR1A	4543	2.18935	0.029460851	0.216136129	1.34572821	0.5550121	0	0	0	0	0
cg25539131	VHL	7428	-2.18929	0.029465222	0.216136129	0.74773934	0.5569282	0	0	0	0	0
cg23749046	GRP61	83873	-2.18923	0.029469204	0.216136129	0.74301411	0.56257564	0	0	0	0	1
cg12445208	ZNF583	147949	-2.18913	0.029476815	0.216136129	0.74494326	0.56862646	0	0	0	0	0
cg19471399	CCDC77	84318	-2.18842	0.029529034	0.216436032	0.73519248	0.5665591	0	0	0	0	0
cg19355919	MRO	83876	2.18806	0.029555283	0.216476827	1.35310913	0.57119806	0	0	0	0	0
cg08104838	SDHA	6389	-2.18801	0.029559465	0.216476827	0.73968229	0.57351755	0	0	0	0	0
cg18702197	HOXD3	3232	2.18779	0.029575222	0.216476827	1.34111656	0.57286204	1	0	1	0	1
cg02860543	IGF2BP3	10643	2.18773	0.029579881	0.216476827	1.37485075	0.58541751	0	0	0	1	0
cg24120841	THRB	7068	2.18704	0.029630406	0.216666317	1.34381381	0.54840662	0	0	0	0	0
cg19703628	PSMB4	5692	2.18688	0.029642336	0.216666317	1.33766618	0.56575232	0	0	1	0	0
cg24747396	BAP1	8314	2.18678	0.029649637	0.216666317	1.35136197	0.58309802	0	0	0	0	0
cg09955730	TMED5	50999	2.18644	0.029675296	0.216666317	1.35334678	0.56126462	0	1	0	0	0
cg24980583	SSBP1	6742	2.18643	0.029675849	0.216666317	1.35353055	0.57906414	0	0	0	0	0
cg01558777	C10orf99	387695	-2.1864	0.029677797	0.216666317	0.74222297	0.58269464	0	0	0	0	0
cg23619829	MTFR1	9650	2.18631	0.029685085	0.216666317	1.35573754	0.57785397	0	0	0	0	0
cg00630164	KCNQ4	9132	2.18599	0.029708486	0.216753319	1.36470362	0.56756757	0	0	0	1	1
cg03550508	SNRPD3	6634	-2.18584	0.029719674	0.216753319	0.75007377	0.58445946	0	0	0	0	0
cg21829265	ZNF451	26036	2.18554	0.029741456	0.216756638	1.34889442	0.57850948	0	0	0	0	0
cg15880738	CD3G	917	-2.18553	0.029742799	0.216756638	0.73805666	0.57719847	0	0	0	0	0
cg01840268	BTN3A1	11119	2.18525	0.029763018	0.216821359	1.35347943	0.56988705	0	0	0	0	0
cg26248486	C12orf58	79738	2.18489	0.029790171	0.216936526	1.34347053	0.57780355	0	1	0	0	0
cg24473385	ZNHIT3	9326	2.1847	0.029804169	0.216955838	1.34774912	0.5665591	0	0	0	0	0
cg01717706	SOCs1	8651	2.18392	0.029861598	0.217264683	1.34212041	0.580476	0	0	0	1	1
cg17676096	LEO1	123169	2.18371	0.029877794	0.217264683	1.34389722	0.58778741	0	0	0	0	0
cg24794992	OTOA	146183	-2.18353	0.029890682	0.217264683	0.74105059	0.58108108	0	0	0	0	0
cg19815589	LOC220070	220070	-2.18352	0.029892042	0.217264683	0.74006589	0.57326543	0	0	0	0	0
cg11384427	TNFRSF7	939	-2.18267	0.029954806	0.217371113	0.74165739	0.56948366	0	0	0	0	0
cg26282384	PCDHGB4	8641	2.1826	0.029960504	0.217371113	1.35046003	0.57356797	0	0	0	0	0
cg00209951	DENND2C	163259	2.18255	0.029963786	0.217371113	1.34931861	0.58045079	0	0	0	0	0
cg27188703	FAM2	23017	2.1823	0.029982679	0.217371113	1.3364085	0.57296289	0	0	0	0	0
cg22077101	MRPL22	29093	2.18218	0.029991409	0.217371113	1.35572807	0.58935055	0	0	0	0	0
cg17051440	CLDN2	9075	2.18199	0.03000553	0.217371113	1.33629991	0.58471158	0	0	0	0	0
cg27337148	CAMK1G	57172	2.18191	0.030011643	0.217371113	1.36627013	0.57760186	0	0	0	0	0
cg05936800	TNFSF18	8995	-2.18175	0.030023386	0.217371113	0.74661338	0.57036608	0	0	0	1	0
cg05102817	RBM18	92400	-2.18166	0.030030397	0.217371113	0.73785254	0.56857604	0	0	0	0	0

cg13615963	CCR6	1235	2.18158	0.030036489	0.217371113	1.35014014	0.58319887	0	0	0	0	0
cg02007463	ITGA7	3679	2.18147	0.030044573	0.217371113	1.34889341	0.57871117	0	0	0	0	0
cg19332710	RIMS4	140730	2.18137	0.030052078	0.217371113	1.34394494	0.58163574	1	0	0	0	0
cg04762346	EDG5	9294	2.18109	0.030072714	0.217371113	1.33974755	0.5821904	0	0	0	0	0
cg02477931	C11orf39	399980	-2.18105	0.030076308	0.217371113	0.74265794	0.57094595	0	0	0	0	0
cg00435408	RSPRY1	89970	2.18103	0.030077191	0.217371113	1.36362514	0.56857604	0	0	0	1	0
cg02441647	COL8A1	1295	2.18018	0.030141138	0.217643076	1.36229954	0.58143405	1	0	0	0	0
cg25758314	ARDA1	8260	2.18008	0.030148637	0.217643076	1.33705669	0.58299718	0	0	0	0	0
cg01293143	TCEA2	6919	2.17978	0.030171467	0.217643076	1.32768029	0.57165188	0	0	0	0	0
cg24243265	MLZE	56169	-2.17967	0.030179038	0.217643076	0.74119077	0.57563534	0	0	0	0	0
cg19644162	TXNL4A	10907	2.17944	0.030196319	0.217643076	1.33736807	0.55723074	0	0	0	0	0
cg01049530	BMP3	651	2.17944	0.030196329	0.217643076	1.36586029	0.57563534	1	0	0	0	0
cg08704509	GRAMD3	65983	2.17937	0.030202016	0.217643076	1.35621308	0.56671037	0	0	0	0	0
cg19756068	CYP2B6	1555	-2.17932	0.030205872	0.217643076	0.73850994	0.58178701	0	0	0	0	0
cg27558666	KLB	152831	-2.17901	0.03022925	0.217729485	0.74181391	0.58045079	0	0	0	0	0
cg15625636	GPR65	8477	-2.17854	0.030264156	0.217885279	0.74470182	0.55894514	0	0	0	0	1
cg26154999	FLJ22746	79843	2.17804	0.030301974	0.217885279	1.35127331	0.59252723	0	0	0	0	0
cg21484964	C15orf24	56851	-2.17781	0.030319309	0.217885279	0.73765323	0.57049213	0	0	1	0	0
cg19740969	CXCL9	4283	-2.17752	0.030341024	0.217885279	0.73896239	0.56887858	0	0	0	0	0
cg00010193	FLJ35816	401114	-2.17751	0.030341641	0.217885279	0.73838036	0.54891085	0	0	0	0	0
cg21700166	GPR68	8111	2.1775	0.030342898	0.217885279	1.34141838	0.59938483	0	0	0	0	0
cg05881762	UBE3A	7337	2.17744	0.030346874	0.217885279	1.34524336	0.57477814	0	0	0	0	0
cg01601573	GAB1	2549	2.17726	0.030360905	0.217885279	1.34215579	0.55516337	0	0	0	0	0
cg04633384	C18orf1	753	2.17709	0.030373666	0.217885279	1.35025553	0.58294675	0	0	0	0	0
cg24238205	FAM111A	63901	2.17692	0.03038616	0.217885279	1.35024112	0.57508068	0	0	0	0	0
cg14379865	GRM5	2915	-2.17683	0.030392817	0.217885279	0.74128352	0.56766842	0	0	0	0	0
cg17987660	C8orf37	157657	2.17658	0.030412378	0.217885279	1.33911609	0.58854377	0	0	0	0	0
cg05022306	HOXC8	3224	2.17621	0.030440121	0.217885279	1.34658482	0.58763614	1	0	0	0	1
cg09591663	C6orf66	29078	2.1762	0.030440513	0.217885279	1.35971096	0.5734167	0	0	0	0	0
cg10071275	MYT1	4661	-2.17604	0.030452546	0.217885279	0.73502772	0.56499597	0	0	0	0	1
cg20858478	B4GALNT2	124872	2.17599	0.0304569	0.217885279	1.35069321	0.56287818	0	0	0	0	0
cg05655041	ASB1	140456	-2.17588	0.030464908	0.217885279	0.73877926	0.56751714	0	0	0	0	0
cg13062935	MRGPRX2	117194	2.17586	0.030466644	0.217885279	1.37164235	0.58314845	0	0	0	0	0
cg25725843	ST6GAL2	84620	2.17585	0.030467365	0.217885279	1.34296255	0.56676079	0	0	0	0	0
cg18695429	CSTF2	1478	-2.17567	0.030481085	0.217901908	0.74308355	0.56766842	0	1	0	0	0
cg13323474	TTC18	118491	2.17543	0.030498971	0.217948298	1.35691948	0.58057685	0	0	0	0	0
cg14135551	DAAM2	23500	2.17518	0.030518004	0.218002842	1.34949319	0.59651069	0	0	0	0	1
cg13060646	ADFP	123	2.17467	0.030556923	0.218105627	1.35543856	0.56776926	0	0	0	1	0
cg21240812	TSNARE1	203062	2.17458	0.030563194	0.218105627	1.34594937	0.54800323	0	0	0	0	0
cg11221508	CCT6B	10693	2.17437	0.030579141	0.218105627	1.34918688	0.55944938	0	0	0	1	0
cg04339860	WWP2	11060	2.17396	0.030610714	0.218105627	1.34799915	0.57997176	0	0	0	0	1
cg17135325	NMD3	51068	2.17384	0.030619715	0.218105627	1.36857219	0.58975393	0	0	0	0	0

cg06186973	YWHA6	7532	2.17376	0.030625292	0.218105627	1.34014079	0.56096208	0	0	0
		196294	2.1737	0.030630536	0.218105627	1.35694492	0.56076039	0	0	0
cg11385473	IMMP1L	27309	2.17368	0.030631381	0.218105627	1.34309447	0.56287818	0	0	0
cg15098690	ZNF330	65078	-2.17352	0.030644084	0.218105627	0.73886003	0.57044171	0	0	0
cg08557686	RTN4R	1903	2.17346	0.030648084	0.218105627	1.34451509	0.60261194	0	0	0
cg11594137	EDG3	27344	-2.17334	0.030657853	0.218105627	0.74160407	0.56645825	1	0	0
cg07526675	PCSK1N	55236	2.17278	0.030700396	0.218183295	1.34400821	0.57563534	0	0	0
cg08928646	UBE1L2	400661	2.17276	0.030701626	0.218183295	1.35540687	0.5657019	0	0	0
cg2920417	FLJ44881	7710	2.17274	0.030702999	0.218183295	1.36148554	0.5682735	0	0	0
cg21790626	ZNF154	7827	2.17235	0.030732904	0.218314686	1.34572836	0.56857604	1	0	0
cg23045073	NPHS2	55771	2.17147	0.030800313	0.218603058	1.34794677	0.57780355	0	0	1
cg17989037	PRR11	6737	2.17132	0.030811888	0.218603058	1.3472881	0.55077652	0	0	0
cg09983885	TRIM21	1134	-2.17127	0.030815614	0.218603058	0.7364094	0.56242437	0	0	0
cg05649009	CHRNA1	81553	2.17122	0.030819225	0.218603058	1.34420263	0.56000403	0	0	0
cg24242519	FAM49A	966	2.17044	0.030878913	0.218945216	1.34479675	0.56141589	0	0	0
cg24453664	CD59	84324	2.17005	0.03090874	0.219075475	1.34258733	0.56761799	0	0	0
cg21667943	C1P29	1716	2.16979	0.030928707	0.219091269	1.33962357	0.56176886	0	0	0
cg22544376	DGUK	9929	-2.16972	0.030933919	0.219091269	0.74912325	0.57029044	0	0	1
cg09991975	JOSD1	7314	2.16943	0.030956539	0.219091269	1.36922741	0.589048	0	0	0
cg03954587	UBB	400002	-2.16942	0.030956797	0.219091269	0.7386855	0.57717326	0	0	0
cg20088913	FLJ46363	53826	2.16869	0.031013101	0.219408549	1.34630825	0.57901372	0	0	0
cg13828839	FXYD6	3397	2.16841	0.031034541	0.219479037	1.34912638	0.56272691	0	0	1
cg03154513	ID1	8170	-2.16825	0.03104697	0.219485762	0.74416152	0.57059298	0	0	0
cg22064129	SLC14A2	3633	2.16785	0.031077449	0.219620044	1.35427931	0.57008875	0	0	0
cg02309273	INPP5B	3075	-2.16728	0.031121196	0.219772281	0.74141227	0.57220654	0	0	0
cg24974599	CFH	7634	-2.16721	0.031127104	0.219772281	0.73752268	0.57850948	0	0	0
cg03109316	ZNF80	8204	-2.1669	0.031150487	0.219772281	0.74481316	0.57997176	0	0	0
cg21021629	NRIP1	119587	2.16665	0.031169832	0.219772281	1.34675543	0.57346712	0	0	0
cg03630088	CPRX2	140901	2.16659	0.031174691	0.219772281	1.33288267	0.57124849	0	0	0
cg23080667	STK35	51400	2.16644	0.031186285	0.219772281	1.34270489	0.55813836	0	0	0
cg17983274	PPME1	1378	2.16639	0.031189856	0.219772281	1.3534798	0.5663574	0	0	0
cg14726637	CR1	25844	2.16638	0.031190932	0.219772281	1.32906803	0.57886245	0	0	0
cg19506903	YIPF3	6342	2.16594	0.031225107	0.219932043	1.33021189	0.56474385	1	0	0
cg04310824	SCP2	256643	-2.16562	0.03124938	0.220007572	0.74464582	0.57326543	0	0	0
cg25257360	CXorf23	220296	-2.16534	0.03127157	0.220007572	0.74273149	0.56847519	0	0	0
cg06142324	FLJ25530	7436	2.16532	0.031272558	0.220007572	1.33706162	0.58052642	0	0	1
cg03591594	VLDLR	8424	-2.1652	0.03128185	0.220007572	0.74929956	0.58556878	0	0	0
cg20910746	BBOX1	169522	-2.16494	0.031302457	0.220068945	0.7456118	0.55304558	0	0	0
cg21331335	CKNV2	8655	-2.16479	0.031313593	0.220068945	0.74665914	0.57397136	0	0	0
cg02951021	DNCL1	990	2.16421	0.031359127	0.220247767	1.33768604	0.5759883	0	0	0
cg23188547	CDC6	2646	2.16385	0.031386831	0.220247767	1.3458637	0.56872731	0	0	0
cg20229788	GCKR	2999	-2.16382	0.031388768	0.220247767	0.7417446	0.57407221	0	0	0
cg02150910	GZMH									

cg27068170	HSD17B12	51144	2.16378	0.031391901	0.220247767	1.34273893	0	0	0	1	1	1
cg14707431	C9orf97	158427	2.16372	0.031396625	0.220247767	1.34257303	0	0	0	0	0	0
cg04557868	REL	5966	2.16338	0.031423271	0.220290606	1.34331509	0	0	0	0	0	1
cg06331674	KIAA0241	23080	2.16335	0.031425771	0.220290606	1.3407131	0	0	0	1	0	0
cg12264551	LOC283377	283377	2.16291	0.031459948	0.22044937	1.33597522	0	0	0	0	0	0
cg04618607	SQLE	6713	2.16219	0.031515654	0.22075829	1.33388091	0	0	0	0	0	0
cg21242004	VTI1A	143187	-2.16186	0.031541898	0.22086176	0.74208792	0	0	0	0	0	0
cg08818984	NR3C1	2908	2.16164	0.031558922	0.220900079	1.35543068	0	0	0	0	0	1
cg00810473	SNX22	79856	2.16138	0.031578716	0.220933356	1.34450033	0	0	0	0	0	0
cg13821008	WASPIP	7456	2.161	0.031608846	0.220933356	1.373977	0	1	0	0	0	0
cg23472215	GSTM3	2947	2.16093	0.031613803	0.220933356	1.34500617	1	1	0	0	0	0
cg14694011	CYP19A1	1588	-2.16088	0.031617649	0.220933356	0.74354439	0	0	0	0	0	0
cg00101227	MPZ	4359	-2.1607	0.031632073	0.220933356	0.74913036	0	0	0	0	0	0
cg10432859	UGT1A7	54577	-2.16069	0.031632996	0.220933356	0.74201974	0	0	0	0	0	0
cg16814399	HIBCH	26275	2.16053	0.031645043	0.220936803	1.34736326	0	1	0	0	0	0
cg13301014	SPINT2	10653	2.16023	0.031668641	0.221014104	1.33116002	0	0	0	0	0	0
cg06041240	NXT2	55916	-2.1601	0.03167923	0.221014104	0.74470972	0	0	0	0	0	0
cg19257550	CA9	768	-2.15953	0.031723594	0.221171758	0.74615646	0	0	0	0	0	0
cg19524009	NEK3	4752	-2.15951	0.031724959	0.221171758	0.74372014	0	0	0	0	0	0
cg23621817	CHRNA9	55584	-2.15911	0.031756566	0.221287697	0.74223702	0	0	0	0	0	0
cg06213598	ABCA9	10350	-2.15901	0.031764734	0.221287697	0.73947904	0	0	0	0	0	0
cg14990333	ZNF221	7638	2.15852	0.031802924	0.221473067	1.35341557	0	0	0	0	0	0
cg09509863	CUL3	8452	2.15818	0.031829758	0.221579249	1.34253295	0	0	0	0	1	0
cg00315936	SND1	27044	2.15779	0.031859947	0.221693968	1.34441633	0	0	1	0	0	0
cg23610820	PSG9	5678	2.15745	0.031886987	0.221693968	1.33804951	0	0	0	0	0	0
cg06339657	PDE8B	8622	2.15731	0.031897529	0.221693968	1.32654605	1	0	0	0	0	0
cg22799321	TFPI2	7980	2.15721	0.031906094	0.221693968	1.34860019	0	0	0	0	0	0
cg14853515	LSM5	23658	2.15717	0.031909323	0.221693968	1.33500591	0	0	0	1	0	0
cg11251877	C6orf54	26236	-2.15691	0.031929415	0.221693968	0.75256583	0	0	0	0	0	0
cg13946500	PPAN	56342	-2.15689	0.031930677	0.221693968	0.74874355	0	0	0	0	0	0
cg13678049	PARC	23113	2.15679	0.031938983	0.221693968	1.33933516	0	0	0	0	0	0
cg19110684	HAVCR2	84868	2.15569	0.032025843	0.222216222	1.34382522	0	0	0	0	0	0
cg14834436	MNAT1	4331	2.15548	0.032042128	0.222248575	1.34741143	0	0	0	0	0	0
cg13846796	LSM14A	26065	-2.15504	0.032077387	0.222303017	0.74513801	0	0	0	0	0	0
cg08524221	ET	79157	2.15493	0.032085356	0.222303017	1.33420019	0	0	0	0	0	0
cg16796951	C20orf152	140894	-2.15485	0.032092318	0.222303017	0.74651346	0	0	0	0	0	0
cg22685251	SAPK4	4216	2.15479	0.032096477	0.222303017	1.34801875	0	0	0	0	0	1
cg16433922	FRP4	6424	2.15459	0.032112751	0.222333521	1.3469252	1	0	0	0	0	0
cg08039281	PSMA6	5687	2.15425	0.03213963	0.222363391	1.33742855	0	0	0	0	0	0
cg09087966	CCNG2	901	2.15424	0.032140445	0.222363391	1.33217932	0	0	0	0	0	0
cg10832166	PWCR1	63968	-2.15401	0.03215896	0.222363391	0.7406944	0	0	0	0	0	0
cg10997248	FXYD2	486	-2.15395	0.032163431	0.222363391	0.75243563	0	0	0	0	0	0

cg26542130	PCBP1	5093	2.1538	0.032174962	0.222363391	1.33473274	0.5498689	0	0	0	1	0
cg03167339	MICAL-L2	79778	-2.15335	0.032211045	0.222480274	0.74949539	0.58965309	0	0	0	0	0
cg26898336	TEKT3	64518	2.15311	0.032230233	0.222480274	1.36657588	0.57777834	0	0	0	0	0
cg12611860	PIK3C2A	5286	-2.1531	0.032230402	0.222480274	0.74315604	0.5629286	0	0	0	0	0
cg22127491	NDUFC1	4717	2.1526	0.032270871	0.222480274	1.34001543	0.57437475	0	0	0	0	0
cg12343082	CA5A	763	-2.15258	0.03227211	0.222480274	0.74905934	0.59686366	0	0	0	0	0
DKFZp434N0												
cg25807810	62	151313	2.15234	0.032290987	0.222480274	1.33934352	0.58491327	0	0	0	0	0
cg03368758	LDB2	9079	-2.1521	0.032309998	0.222480274	0.74934423	0.5725595	0	0	0	0	1
cg11283860	SLC45A1	50651	2.15193	0.032323964	0.222480274	1.33564552	0.58743445	0	0	0	0	0
cg25149927	SSH1	54434	2.15178	0.032335553	0.222480274	1.33398984	0.56973578	0	0	0	0	0
cg18750756	MGC29671	201305	2.15168	0.032343425	0.222480274	1.32850707	0.56040742	0	0	0	0	0
cg11147886	NFAT5	10725	2.15159	0.032350597	0.222480274	1.33712513	0.56900464	0	0	0	1	1
cg17029168	NKX2-2	4821	2.15155	0.032354078	0.222480274	1.33901408	0.61476402	1	0	1	0	1
cg01166674	ABCB8	11194	2.15151	0.032357126	0.222480274	1.34122798	0.57906414	0	0	0	0	0
cg27159719	TMEM71	137835	2.15122	0.032380367	0.222480274	1.35883799	0.58178701	0	0	0	0	0
cg00134787	MYH1	4619	-2.15108	0.032391892	0.222480274	0.74095361	0.55955022	0	0	0	0	1
cg14964658	PEX19	5824	2.15105	0.032393609	0.222480274	1.34334303	0.57523195	0	0	0	0	0
cg03573747	ADIPOQ	9370	-2.15102	0.032395929	0.222480274	0.73632293	0.57301331	0	0	0	0	0
cg26267561	OXF	5020	2.15094	0.032402578	0.222480274	1.34783309	0.57548407	0	0	0	0	0
cg13022129	PHYHD1	254295	-2.15073	0.032419336	0.222480274	0.73614591	0.56454215	0	0	0	0	0
cg01909921	GF11B	8328	2.15067	0.032424559	0.222480274	1.34057687	0.57649254	0	0	0	0	0
cg07579404	RAET1L	154064	2.15044	0.032442357	0.222522554	1.33428022	0.58531666	0	0	0	0	0
cg08747889	PTK7	5754	2.14967	0.032504255	0.222813928	1.34904711	0.57472771	0	0	0	0	0
cg02381948	MGMT	4255	-2.14948	0.03251922	0.222813928	0.73554482	0.57203005	0	0	0	0	0
cg04048259	EDN3	1908	-2.1494	0.032525708	0.222813928	0.73927043	0.56368495	1	0	0	0	0
cg01733783	HSPA5	3309	-2.14911	0.032548595	0.222813928	0.74613784	0.57230738	0	0	0	1	0
cg17074212	ZNF215	7762	2.14907	0.032552444	0.222813928	1.34822381	0.56908027	0	1	0	0	0
cg05705583	CAMLG	819	2.14896	0.032560861	0.222813928	1.33758602	0.55753328	0	0	0	0	0
cg13396068	DCD	117159	-2.14886	0.032569141	0.222813928	0.72987277	0.55642396	0	0	0	0	0
cg23743472	C11orf38	399967	-2.14871	0.032581321	0.222813928	0.74452549	0.56605486	0	0	0	0	0
cg12975220	MEIS1	4211	2.1484	0.032605567	0.222813928	1.34557845	0.59025817	1	0	0	0	1
cg10787197	C6orf105	84830	2.14819	0.032622325	0.222813928	1.3334701	0.57926583	0	0	0	0	0
cg12696750	DNALI1	7802	2.14812	0.032628219	0.222813928	1.34526909	0.57296289	0	0	0	0	0
cg10065825	CDH11	1009	2.1481	0.032630095	0.222813928	1.32947353	0.5770472	1	0	0	0	1
cg21256656	KLK6	5653	2.14801	0.032637462	0.222813928	1.34562212	0.60195643	0	0	0	0	0
cg27610561	SLC2A10	81031	-2.14788	0.032647961	0.222813928	0.73028425	0.5841065	0	0	0	0	1
cg12969407	NCOA7	135112	2.14755	0.032674051	0.222912433	1.35171067	0.57397136	0	1	0	0	0
cg05395995	LOC221143	221143	2.14679	0.032735175	0.223249787	1.34047818	0.57366882	0	0	0	0	0
cg03986968	AVEN	57099	-2.14624	0.032779162	0.223463803	0.74983996	0.57825736	0	0	0	0	0
cg19555986	MAP7	9053	-2.14576	0.03281862	0.223463803	0.7520093	0.56847519	0	0	0	0	0
cg16564824	SNAP25	6616	2.14562	0.032829586	0.223463803	1.34567571	0.58703106	0	0	0	0	0

cg23759214	MRE11A	4361	2.14562	0.032829906	0.223463803	1.33151313	0.58052642	0	0	0	1	0
cg05647859	LIN7A	8825	2.14551	0.032838288	0.223463803	1.35304295	0.56383622	0	0	0	0	0
cg014447498	TSNAX	7257	2.14542	0.032845845	0.223463803	1.34743242	0.56968536	0	1	0	0	0
cg05788526	MTMR2	8898	2.14539	0.032848355	0.223463803	1.35162315	0.57523195	0	0	0	0	0
cg13044277	NRG4	145957	2.14515	0.032867104	0.22346704	1.35103548	0.58032473	0	0	0	0	0
cg15740366	IMPDH1	3614	2.14509	0.032872203	0.22346704	1.3666256	0.54991932	1	0	0	0	1
cg5979644	ATP8B1	5205	-2.14455	0.032916014	0.223685356	0.74444194	0.58193828	0	0	0	0	0
cg03918304	HOXD10	3236	2.14407	0.032955008	0.223820953	1.33429543	0.55259177	0	0	0	0	1
cg20083871	ACAD9	28976	2.14401	0.032959377	0.223820953	1.33416872	0.57331585	0	0	0	0	0
cg08623787	RXRG	6258	2.14365	0.032988983	0.223942477	1.3389918	0.55995361	1	0	0	0	0
cg16620731	ZNF583	147949	2.14344	0.033006188	0.223979767	1.3502866	0.57467729	0	0	0	0	0
cg16962970	RASAL2	9462	2.14325	0.033021288	0.22400274	1.35580361	0.57069383	0	0	0	0	0
cg09022808	GAL3ST1	9514	-2.1429	0.033049605	0.224070901	0.74814342	0.57271077	0	0	0	0	0
cg11386709	EPB41L2	2037	-2.14284	0.03305477	0.224070901	0.73903053	0.57150061	0	0	0	0	0
cg04532229	SLC9A2	6549	2.14193	0.033128259	0.224155104	1.3466405	0.56101251	1	0	0	0	0
cg04457794	CTSE	1510	-2.14161	0.033154472	0.224155104	0.75225194	0.56126462	0	0	0	0	0
cg17792192	CAMSAP1	157922	-2.14158	0.03315669	0.224155104	0.74613811	0.56902985	0	0	0	0	0
cg00431549	MGP	4256	2.14149	0.033164211	0.224155104	1.33365038	0.56726503	0	0	0	0	0
cg20573420	FLJ38451	126375	-2.14148	0.033164647	0.224155104	0.7431586	0.57467729	0	0	0	0	0
cg19965810	KCNH7	90134	2.14147	0.033165961	0.224155104	1.33602182	0.56494554	1	0	0	0	0
cg15890111	ABAT	18	2.14146	0.033166854	0.224155104	1.34523935	0.57664381	0	0	0	0	0
cg05263682	RNGT	8732	2.1414	0.033171598	0.224155104	1.34451173	0.56676079	0	0	0	0	0
cg24995381	GPR141	353345	-2.14139	0.033172688	0.224155104	0.74797967	0.59792255	0	0	0	0	0
cg20793071	TMEM59	9528	2.14042	0.033251029	0.224605103	1.34480341	0.58370311	0	0	1	0	0
cg21379008	ATP8B2	57198	2.13995	0.033290098	0.224677244	1.34316951	0.56439088	0	1	0	0	0
cg21561173	C21orf81	114035	-2.13989	0.033294459	0.224677244	0.74817957	0.58128278	1	0	0	0	0
cg09871043	PKHD1	5314	-2.13986	0.033296956	0.224677244	0.73685774	0.56323114	0	0	1	0	1
cg05270634	RND2	8153	2.13955	0.033222567	0.224770747	1.32918231	0.55808794	0	0	0	0	0
cg06617418	RGAG1	57529	-2.13907	0.033361365	0.224941938	0.75317752	0.5717023	0	0	0	0	0
cg07561400	ZC3HAV1	56829	2.13895	0.033371472	0.224941938	1.33114667	0.55944938	0	1	0	0	0
cg23303074	LRAT	9227	2.13868	0.033393538	0.224991712	1.33569609	0.5672146	1	0	0	1	0
cg16575408	MMP1	4312	-2.13833	0.033422353	0.224991712	0.74741623	0.5751311	0	0	0	0	0
cg26484333	TMEM34	55751	2.13831	0.033424281	0.224991712	1.34688516	0.58002219	0	0	0	0	0
cg26781886	EMB	133418	2.13821	0.03343174	0.224991712	1.34329522	0.55445744	0	0	0	0	0
cg15815843	MFAP5	8076	-2.13814	0.033437684	0.224991712	0.73817161	0.57397136	0	0	0	0	0
cg10261191	MGC39545	403312	2.13794	0.033454254	0.225024024	1.36842051	0.57508068	1	0	0	0	0
cg23074082	TRIM59	286827	2.1377	0.033474043	0.225025282	1.33395851	0.57104679	0	0	0	0	0
cg00155485	THRAP2	23389	2.13765	0.033477975	0.225025282	1.33909476	0.58113151	0	0	0	0	0
cg12723809	MGC26744	132989	2.13745	0.033494811	0.225053601	1.34325123	0.56166801	0	0	0	0	0
cg00554702	CHEK1	1111	2.13719	0.033516163	0.225053601	1.35087076	0.58713191	0	0	0	0	0
cg03503295	DNAH5	1767	-2.13717	0.033517495	0.225053601	0.74220438	0.58254336	0	0	0	0	0
cg224445920	SLC36A3	285641	-2.13694	0.033536303	0.225100851	0.74699909	0.59348528	0	0	0	0	0

cg11754343	NUP88	4927	2.1274	0.034328433	0.227070279	1.35017561	0.56938282	0	0	0
		117285	-2.12688	0.034371784	0.227234783	0.74830051	0.56060912	0	0	0
cg20312687	DEFB118	137835	2.12682	0.034377069	0.227234783	1.34437579	0.56580274	0	0	0
		4129	-2.12639	0.034412951	0.227281403	0.74517143	0.55743243	0	0	0
cg00121904	MAOB	64333	-2.12632	0.034419121	0.227281403	0.7477362	0.56897943	0	0	0
		116496	-2.12631	0.034419777	0.227281403	0.74859531	0.58284591	1	0	0
cg25182523	C1orf24	59084	2.12596	0.03444945	0.227329263	1.34288249	0.568929	0	0	0
		10744	-2.12594	0.034450801	0.227329263	0.73632265	0.58703106	0	0	0
cg19799744	ENPP5	112885	2.12548	0.034489295	0.227445813	1.33209575	0.57760186	0	0	0
		123016	2.12545	0.034492251	0.227445813	1.3337027	0.56706333	0	0	0
cg05755779	COLEC10	10584	-2.12517	0.034515915	0.227481243	0.74557832	0.57750101	0	0	0
		254042	2.1251	0.034521416	0.227481243	1.33289763	0.55682735	0	1	0
cg16449464	MAP1D	54988	-2.12462	0.03456189	0.2276695	0.74369522	0.56968536	0	0	0
		55222	2.12444	0.034576859	0.227689674	1.33464146	0.56434046	0	0	0
cg04428453	FLJ20581	8707	2.1238	0.034631238	0.227969256	1.33693364	0.58037515	0	0	0
		115290	2.12269	0.034724769	0.228486971	1.33426718	0.57281162	0	0	0
cg08820801	FBXALT2	7276	-2.12259	0.034733782	0.228486971	0.74929023	0.57336628	0	0	0
		cg08521225	TTR	27033	-2.122	0.034783906	0.228738019	0.74267012	0.5575837	0
cg12497692	ZBTB32	54440	-2.12147	0.034828835	0.228879328	0.75183122	0.5699879	0	0	0
		5550	2.12137	0.034837037	0.228879328	1.35635077	0.57987092	0	0	0
cg20612615	PREP	222894	2.12128	0.034844323	0.228879328	1.34062856	0.57306374	1	0	0
		5033	2.12114	0.034856896	0.228879328	1.34635501	0.58995563	0	1	0
cg14705927	P4HA1	1586	-2.12104	0.03486524	0.228879328	0.74394882	0.54734772	0	0	0
		cg24934431	CYP17A1	112487	2.12024	0.034933203	0.229246787	1.33300593	0.58329972	0
cg00832517	C14orf126	79023	-2.11922	0.035019991	0.229660921	0.74665114	0.56933239	0	0	0
		339669	2.11921	0.035021186	0.229660921	1.33959062	0.54921339	0	0	0
cg17699374	MGC35206	1270	-2.11907	0.035032339	0.229660921	0.74356465	0.56555063	0	0	0
		54554	2.11891	0.035046423	0.229674517	1.3439268	0.56968536	0	0	0
cg00571634	WDR5B	87178	2.11861	0.035071716	0.229695007	1.35643338	0.57225696	0	1	0
		6189	2.11859	0.035073573	0.229695007	1.33647099	0.59086325	0	0	0
cg03771255	RPS3A	2775	2.11836	0.035092978	0.229743413	1.33725234	0.56217225	1	0	0
		3184	2.11777	0.03514358	0.229995952	1.33898038	0.56544978	0	0	0
cg16438432	HNRPD	922	-2.11736	0.035178641	0.230145528	0.7527339	0.58037515	0	0	0
		50831	-2.11722	0.035190506	0.230145528	0.73873769	0.57543364	0	0	0
cg12337114	TAS2R3	7375	-2.11708	0.035202936	0.23014811	0.75330018	0.57845906	0	0	0
		3043	-2.1166	0.035243782	0.230336405	0.74721353	0.56186971	0	0	0
cg06233985	HBB	29895	-2.11637	0.035263843	0.230387228	0.74178144	0.5637858	0	0	0
		139065	2.11623	0.035275654	0.230387228	1.33615607	0.58602259	1	0	0
cg05801573	SLITRK4	11174	2.11591	0.035303327	0.230489246	1.36133512	0.57951795	0	1	0
		54474	-2.11571	0.035320716	0.230492424	0.74968511	0.55955022	0	0	0
cg25124433	KRT20	521	2.11547	0.035340756	0.230492424	1.33410886	0.54991932	0	0	0
		cg23970089	ATP5I	2299	2.11538	0.035348928	0.230492424	1.34457927	0.58466115	0

cg23818978	AMICA1	120425	2.11533	0.035352972	0.230492424	1.33570313	0.58380395	0	0	0	0	0
cg05245515	SLC39A2	29986	-2.1152	0.03536408	0.230492424	0.74403354	0.57114764	0	0	0	0	0
cg25559100	CSNK2A1	1457	2.11463	0.03541293	0.230732175	1.33224376	0.56882816	0	0	0	1	0
cg26372557	TTCAM1	148022	-2.11423	0.03544797	0.230812953	0.74716283	0.57044171	0	0	0	0	0
cg21363706	NAT1	9	-2.11421	0.035449468	0.230812953	0.74046263	0.57089552	0	0	0	0	0
cg20356482	FBP2	8789	-2.1135	0.035510586	0.231030831	0.74432905	0.56973578	0	0	0	0	0
cg06445611	GABRR2	2570	-2.11332	0.035526103	0.231030831	0.74435431	0.58007261	0	0	0	0	0
cg18678763	RRM1	6240	2.11328	0.035529922	0.231030831	1.34054712	0.56797096	0	0	0	0	0
cg17177699	COL5A3	50509	-2.11305	0.035549147	0.231030831	0.74967987	0.56731545	0	0	0	0	0
cg08659707	PUM2	23369	-2.11269	0.035580679	0.231030831	0.74436822	0.57439996	0	0	0	0	0
cg18763191	ST3GAL5	8869	2.11242	0.035604123	0.231030831	1.34443856	0.58062727	0	0	0	0	0
cg24459209	PRG3	10394	-2.11215	0.035626999	0.231030831	0.74680933	0.5830476	0	0	0	0	0
cg16046376	PC	5091	-2.11214	0.035628688	0.231030831	0.75568168	0.57250908	0	0	0	0	0
cg10457895	RSRC1	51319	2.11201	0.035639388	0.231030831	1.33849315	0.58098023	0	0	0	0	0
cg00941549	AKAP4	8852	-2.11189	0.035650035	0.231030831	0.74388364	0.56943324	0	0	0	0	0
cg14384532	NTRK3	4916	-2.11183	0.035655381	0.231030831	0.73718484	0.5796188	1	0	0	1	0
cg17812431	UMOD	7369	-2.11179	0.035658878	0.231030831	0.74949498	0.57079468	0	0	0	0	0
cg10187932	PARP11	57097	2.11178	0.035659789	0.231030831	1.33803728	0.5753328	0	0	0	0	0
cg07290435	CDH10	1008	2.1117	0.035666224	0.231030831	1.33304194	0.56736587	0	0	0	1	0
cg07730329	PCDHGA12	26025	2.11091	0.035734854	0.231030831	1.33903377	0.56081081	0	0	0	0	0
cg23328404	ChGn	55790	2.11078	0.035745759	0.231030831	1.33601089	0.55944938	0	0	0	0	0
cg21329628	CD320	51293	2.11069	0.035753795	0.231030831	1.32237094	0.58395522	0	0	0	0	0
cg08946117	MGC50273	408029	-2.11067	0.035755981	0.231030831	0.74671733	0.56197055	0	0	0	0	0
cg11577097	AQP9	366	-2.11058	0.035763609	0.231030831	0.74749916	0.58115672	0	0	0	0	0
cg24429836	LDHD	197257	-2.11056	0.035765098	0.231030831	0.75270314	0.55884429	0	0	0	0	0
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cg11909310	0121	85865	2.11016	0.035799679	0.231030831	1.32707536	0.564643	0	0	0	0	0
cg05663262	HY1	81888	-2.10997	0.035816566	0.231030831	0.75466366	0.56706333	0	0	0	0	0
cg15641998	DHRS8	51170	2.10986	0.03582624	0.231030831	1.33971249	0.57573618	0	0	0	0	0
cg09169283	GRIN2C	2905	2.1097	0.035839718	0.231030831	1.31467088	0.58355184	0	0	0	0	0
cg22451189	MRPS22	56945	2.10966	0.03584338	0.231030831	1.33876575	0.5866781	0	0	0	0	0
cg05026033	ELP3	55140	2.10955	0.035853245	0.231030831	1.34307261	0.55027229	0	0	0	0	0
cg15272690	HSPC065	29070	2.10944	0.035862222	0.231030831	1.33207952	0.56812223	0	0	0	0	0
cg00516481	PDE9A	5152	2.10944	0.035862897	0.231030831	1.32399905	0.57442517	0	0	0	1	0
cg07154408	PDE5A	8654	2.10939	0.035866652	0.231030831	1.34716092	0.5592981	0	0	0	0	0
cg08748415	CLIC5	53405	-2.10929	0.035875824	0.231030831	0.74872785	0.5481545	1	0	0	0	0
cg21347412	STAP2	55620	-2.10916	0.035886874	0.231030831	0.74859605	0.56671037	0	0	0	0	0
cg11243196	ADAMTS3	9508	2.10893	0.035906728	0.231030831	1.34748413	0.57442517	0	0	0	0	0
cg03876622	CSDA	8531	2.10885	0.035913719	0.231030831	1.33635444	0.5796188	0	0	0	0	0
cg06985415	C10orf39	282973	2.10873	0.035924608	0.231030831	1.33853083	0.58234167	0	0	0	0	0
cg08918431	MASK-BP3	404734	2.1085	0.035944803	0.231030831	1.32336415	0.580476	0	0	0	0	0

cg19133903	AVP1	60370	2.10836	0.035956846	0.231030831	1.32263561	0.57376967	0	0	0	0
cg10534672	C1QTNF2	114898	2.10832	0.035959924	0.231030831	1.32745324	0.56494554	0	0	0	0
cg26266326	GCG	2641	-2.10826	0.035965295	0.231030831	0.74610796	0.56103772	0	0	0	1
cg09065199	ASXL1	171023	2.10825	0.035966418	0.231030831	1.33012393	0.56877773	1	0	0	0
cg24515202	TTC9C	283237	2.10803	0.035985306	0.231030831	1.34204173	0.56277733	0	0	0	0
cg15676488	SNRPC	6631	2.10798	0.035990348	0.231030831	1.33735153	0.56101251	0	0	0	0
cg11058932	TSGA13	114960	2.10764	0.036019665	0.231083425	1.32513259	0.56454215	0	0	0	0
cg06386533	SOC5	9655	2.1076	0.036022709	0.231083425	1.32000842	0.55667608	0	0	0	0
cg20953047	PtGR	5284	-2.10721	0.03605706	0.231149898	0.74552015	0.5708451	0	0	0	0
cg03760483	ALOX12	239	2.10704	0.036072279	0.231149898	1.33751907	0.5796188	0	0	0	0
cg22751696	C3orf14	57415	2.10698	0.036077719	0.231149898	1.3328951	0.56534893	0	0	0	0
cg11735605	ZNFN1A2	22807	2.10665	0.03610654	0.231149898	1.35288753	0.57145018	0	0	0	0
cg19863405	ACTL7B	10880	-2.10658	0.036112751	0.231149898	0.73986388	0.58859419	0	0	0	0
cg16068780	SBN01	55206	-2.10647	0.036121701	0.231149898	0.73823275	0.56524808	0	0	0	0
cg17891149	SHC1	6464	2.10632	0.036134982	0.231149898	1.34327028	0.5642144	0	0	0	1
cg12936220	RPL26L1	51121	2.1062	0.036145706	0.231149898	1.32278169	0.55395321	0	0	0	0
cg06461848	WDR64	128025	-2.10616	0.036149417	0.231149898	0.75303889	0.56688685	0	0	0	0
cg16434306	FLJ14054	79614	-2.10611	0.036153947	0.231149898	0.75470203	0.58143405	0	0	0	0
cg06505666	FLJ40629	150468	2.1051	0.036242564	0.231432807	1.32064183	0.58577047	0	0	0	0
cg02512226	ARMC4	55130	2.10488	0.036261767	0.231432807	1.34288003	0.55859217	0	0	0	1
cg09667582	UBE2Q2	92912	2.10484	0.036264773	0.231432807	1.33428245	0.57382009	0	0	0	0
cg09778734	FLJ40142	400073	-2.10481	0.036267658	0.231432807	0.75030321	0.57044171	0	0	0	0
cg13282837	TCL1A	8115	2.10468	0.036278654	0.231432807	1.33696996	0.53005244	0	0	0	0
cg20483016	TTC5	91875	2.10457	0.036288428	0.231432807	1.33939121	0.58108108	0	0	0	0
cg17963840	ADRA1A	148	-2.10455	0.036290722	0.231432807	0.74959449	0.5839048	1	0	0	1
cg26661897	RTCD1	8634	2.10448	0.036296549	0.231432807	1.32525975	0.55657523	0	0	0	0
cg16240480	EDARADD	128178	2.10436	0.036307118	0.231432807	1.33319121	0.56212182	0	0	0	0
cg25780543	HTR5A	3361	2.10421	0.036320108	0.231438464	1.31947135	0.58269464	0	0	0	0
cg25048564	HUNK	30811	2.10379	0.036357379	0.231495498	1.32539491	0.57926583	0	0	0	0
cg23519969	CCR8	1237	-2.10369	0.036366613	0.231495498	0.73868005	0.5796188	0	0	0	0
cg14331163	RORB	6096	2.10342	0.036390256	0.231495498	1.35882826	0.56111335	1	0	0	1
cg00184893	ALOXE3	59344	2.10341	0.036390568	0.231495498	1.32895292	0.57654296	1	0	0	0
cg01402045	FLJ23356	84197	2.10338	0.036393197	0.231495498	1.32573428	0.54860831	0	0	0	0
cg10938486	FLJ20581	54988	-2.10329	0.036401692	0.231495498	0.75323096	0.56857604	0	0	0	0
cg08662074	PAPPA	5069	2.10308	0.03641993	0.231534479	1.33847653	0.57346712	1	0	0	0
cg00165981	COL4A3BP	10087	2.10289	0.036436795	0.231564717	1.34066091	0.57886245	0	0	0	0
cg13283751	GPX5	2880	2.1022	0.036497437	0.231805302	1.35010088	0.57044171	0	0	0	0
cg16792160	ASH2	56624	-2.10204	0.036511674	0.231805302	0.73843493	0.57472771	0	0	0	0
cg17769158	ODF1	4956	-2.10203	0.036513071	0.231805302	0.74839914	0.57422348	0	0	0	0
cg02630105	PRKCD	5580	2.10161	0.036550089	0.231805302	1.32290466	0.56706333	0	0	0	0
cg03278643	EVC2	132884	-2.10154	0.036556204	0.231805302	0.75576528	0.57558491	0	0	0	1
cg11021744	SLC6A1	6529	2.10151	0.036558406	0.231805302	1.32034097	0.5813332	1	0	0	1

cg17910564	VDAC3	7419	-2.09473	0.037162801	0.232257067	0.7550675	0.57689593	0	0	0
cg13216088	PSMD1	5707	2.09473	0.037163019	0.232257067	1.32521075	0.57039129	0	0	0
cg05511685	RGS9	8787	-2.09459	0.037175557	0.232257067	0.75030641	0.58798911	1	0	0
cg22854223	CD82	3732	2.09446	0.037187177	0.232257067	1.32091396	0.57982049	0	0	0
cg01651593	CDC20	991	2.09433	0.03719841	0.232257067	1.33950319	0.58415692	0	0	0
cg00930194	PROP1	5626	2.09391	0.037236694	0.232257067	1.34281721	0.59217426	0	0	0
cg18349258	SMEK2	57223	2.09382	0.037244698	0.232257067	1.32429141	0.57129891	0	0	0
cg02376163	FBXO38	81545	2.09372	0.037253479	0.232257067	1.33483637	0.57215611	0	0	0
cg03623878	MCF2L	23263	2.09364	0.037260553	0.232257067	1.32858484	0.57407221	0	0	0
cg10364513	RXRG	6258	2.09359	0.037265316	0.232257067	1.33154343	0.58450988	1	0	0
cg18641937	ITLN2	142683	-2.09345	0.037278287	0.232257067	0.73796203	0.56151674	0	0	0
cg07243519	UFM1	51569	2.09333	0.037289051	0.232257067	1.33393337	0.57276119	0	0	1
cg14243026	HMP19	51617	2.09294	0.037323876	0.232257067	1.33294082	0.58854377	0	0	0
cg19824441	ADMR	11318	-2.09293	0.03732449	0.232257067	0.75358828	0.55753328	0	0	0
cg21051086	PPAPR2	151987	-2.0928	0.03733666	0.232257067	0.74616138	0.55818879	0	0	0
cg18568838	MRPS10	55173	2.09276	0.037339711	0.232257067	1.34300308	0.5770472	0	0	0
cg18107827	ZNF593	51042	2.09271	0.037344237	0.232257067	1.32817854	0.56771884	0	0	0
cg18372353	ATPBD4	89978	2.09243	0.037370005	0.232257067	1.33479672	0.56439088	0	0	1
cg14408969	C8orf40	114926	2.09232	0.037380093	0.232257067	1.32177474	0.54996975	0	0	0
cg08527127	C1orf94	84970	-2.09228	0.037383032	0.232257067	0.7447837	0.55818879	1	0	0
cg16688376	AKAP9	10142	2.09228	0.037383775	0.232257067	1.32735528	0.56701291	0	0	0
cg21639401	FLJ31222	388387	-2.09206	0.037403612	0.232271364	0.74261758	0.56302945	0	0	0
cg07128330	MDS028	55846	2.09192	0.037415924	0.232271364	1.33105116	0.57619	0	0	0
cg06453691	FLJ32206	149421	-2.09177	0.037429131	0.232271364	0.74575685	0.57366882	0	0	0
cg21932814	CSTA	1475	2.09171	0.037434661	0.232271364	1.33629017	0.55279347	0	0	0
cg04394967	RDH12	145226	2.09148	0.037455109	0.23232286	1.33229691	0.57124849	0	0	0
cg06297145	NFXL1	152518	2.09122	0.037479118	0.232338899	1.33563058	0.59126664	0	0	0
cg08341874	VMO1	284013	2.09119	0.037481995	0.232338899	1.33406925	0.57271077	0	0	0
cg2024657	SLC13A1	6561	-2.0907	0.037526391	0.232445845	0.74904856	0.54881	0	0	0
cg17484237	HAVCR2	84868	2.09042	0.037551349	0.232445845	1.33179316	0.57225696	0	0	0
cg07398429	MAGEB4	4115	-2.09038	0.03755509	0.232445845	0.75791036	0.56660952	0	0	0
cg01602416	GCSH	2653	2.08992	0.037596681	0.232445845	1.32512116	0.57866075	0	0	0
cg01063813	STAT6	6778	2.08988	0.037600134	0.232445845	1.33023526	0.57124849	0	0	0
cg17400229	U2AF1	7307	2.08975	0.037612165	0.232445845	1.32258068	0.5708451	0	0	0
cg04286043	C6orf69	222658	2.08956	0.037628932	0.232445845	1.33688098	0.57089552	0	0	0
cg04249586	ELOVL6	79071	2.08948	0.03763646	0.232445845	1.32343748	0.55939895	0	0	0
cg23032316	AAAS	8086	2.08946	0.037638473	0.232445845	1.33213279	0.58148447	0	0	0
cg09685104	C18orf19	125228	2.08929	0.03765376	0.232445845	1.32869722	0.56479427	0	0	0
cg20185083	SERPINB9	5272	-2.08924	0.037658385	0.232445845	0.7575118	0.56776926	0	0	0
cg14665389	TCF7L2	6934	2.08911	0.037670425	0.232445845	1.32338011	0.56217225	0	0	1
cg03752087	CASP14	23581	-2.08909	0.037671755	0.232445845	0.74669833	0.57331585	0	0	0
cg02250787	HTR2A	3356	2.08905	0.037675286	0.232445845	1.32967509	0.58940097	0	0	0

cg14228238	EV11	2122	2.08898	0.037681578	0.232445845	1.32337699	0.5663574	0	0	0	0	0
cg22468055	PARP15	165631	-2.08873	0.037704341	0.232470343	0.750676	0.56625656	0	0	0	0	0
cg11435943	SERPINB12	89777	-2.08856	0.037720441	0.232470343	0.75144295	0.57316458	0	0	0	0	0
cg05190718	CASQ2	845	-2.08839	0.037735944	0.232470343	0.75040426	0.56756757	0	0	0	1	0
cg12315997	RPL9	6133	2.08813	0.037759288	0.232470343	1.33304888	0.57099637	0	0	0	0	0
cg20537325	MGMT	4255	-2.08809	0.037762642	0.232470343	0.7441994	0.57664381	0	0	0	0	0
cg10224037	ZNF354A	6940	2.08807	0.037764968	0.232470343	1.32486868	0.55642396	0	0	0	0	0
cg24793470	GOSR1	9527	2.08801	0.037770646	0.232470343	1.32596659	0.57535801	0	0	0	0	0
cg24091474	TYROBP	7305	2.08726	0.03783896	0.232803805	1.32877981	0.56504639	0	0	0	0	0
cg12925542	WDR49	151790	-2.08714	0.037849173	0.232803805	0.75227596	0.58972872	0	0	0	0	0
cg17351385	ALKBH6	84964	2.08694	0.037867453	0.232841353	1.3330895	0.57407221	0	0	0	0	0
cg26147657	FLJ13946	92104	2.08672	0.037888096	0.232869103	1.32296027	0.56469343	0	0	0	0	0
cg21973800	CINP	51550	2.08663	0.037896322	0.232869103	1.33923511	0.5858209	0	0	0	0	0
cg25041439	HYLS1	219844	-2.08635	0.037921267	0.232947536	0.75409612	0.57334107	0	0	0	0	0
cg23519022	CAPZB	832	-2.08576	0.03797579	0.233064673	0.75360491	0.55682735	0	0	0	0	0
cg19081759	YWHAQ	10971	-2.08573	0.037978097	0.233064673	0.75458362	0.57679508	0	0	0	0	0
cg24338843	C1orf158	93190	-2.08561	0.03798958	0.233064673	0.74014654	0.56020573	0	0	0	0	0
cg15873633	ZNF37A	7587	2.08545	0.038004197	0.233064673	1.33587902	0.56474385	0	1	0	0	0
cg03787486	ADH5	128	2.08538	0.038010297	0.233064673	1.32821054	0.5672146	0	0	0	0	0
cg00915206	GAD1	2571	2.08534	0.038013462	0.233064673	1.33479566	0.57815652	1	1	0	0	0
cg16666115	MRPS18A	55168	2.08494	0.038050228	0.233215317	1.32947483	0.54966721	0	0	0	0	0
cg18895972	PELO	53918	2.08462	0.038079547	0.233320236	1.32386845	0.56555063	0	0	0	1	0
cg03634997	GAS8	2622	2.08433	0.03810649	0.233410534	1.3343638	0.55919726	0	0	0	0	0
cg03919781	EFHA2	286097	2.0841	0.038127874	0.233466733	1.33944581	0.57997176	0	0	0	0	0
cg01169610	INPP4A	3631	-2.08388	0.038147701	0.23347379	0.75071908	0.57306374	1	0	0	0	0
cg07964538	CAV1	857	2.08382	0.038153445	0.23347379	1.33563701	0.60321702	0	0	0	1	0
cg09619786	RPP25	54913	2.08365	0.038169054	0.233494591	1.34316199	0.56348326	0	0	0	1	0
cg12645567	TFAP4	7023	2.08321	0.038209325	0.233503216	1.32300724	0.55712989	0	0	0	0	1
cg13794888	RNU11	10073	2.08293	0.038235132	0.233503216	1.32009826	0.56565147	0	0	0	1	0
cg15597540	CYB561D2	11068	-2.08289	0.038238297	0.233503216	0.757307	0.57175272	0	0	0	0	0
cg04531710	EIF4G1	1981	-2.08287	0.03824014	0.233503216	0.75305048	0.57407221	0	0	0	1	0
cg14696348	MC1R	4157	2.08283	0.038243726	0.233503216	1.32582251	0.54104478	0	0	0	0	0
cg19674669	LOC112937	112937	2.08283	0.038243728	0.233503216	1.32418368	0.56751714	0	0	0	0	0
cg16862838	RCN2	5955	-2.08246	0.038277893	0.23356692	0.74807122	0.56098729	0	1	0	0	0
cg22606869	TUBA6	84790	2.08246	0.038278589	0.23356692	1.32486974	0.5567265	0	0	0	0	0
cg01120308	PICALM	8301	2.08206	0.038315268	0.233716152	1.33366318	0.56338241	0	0	0	1	1
cg24254120	RFC3	5983	2.08161	0.038356317	0.233744496	1.33031363	0.55934853	0	0	0	0	0
cg10669058	CILP2	148113	2.08133	0.038382638	0.233744496	1.32071704	0.57392094	0	0	0	0	0
cg00600684	BRWD2	55717	-2.08132	0.038383594	0.233744496	0.74849028	0.57492941	0	0	0	0	0
cg19690404	CPA4	51200	-2.0813	0.038384973	0.233744496	0.75135142	0.56653389	0	0	0	0	0
cg16273524	THUMP2	80745	-2.08112	0.038401736	0.233744496	0.74829156	0.5717023	0	0	1	0	0
cg15056247	TSPYL1	7259	2.08083	0.038428272	0.233744496	1.32901897	0.57503025	0	0	0	0	0

cg05218490	ORC4L	5000	2.08083	0.038428795	0.233744496	1.35010219	0.5768455	0	0	0	1
cg09805010	THRB	7068	2.08076	0.038435037	0.233744496	1.3261636	0.57034086	0	0	0	0
cg04520084	CCNC	892	2.08057	0.038452372	0.233744496	1.32796404	0.58274506	0	0	0	1
cg09068492	CALCA	796	2.08028	0.038479507	0.233744496	1.34540037	0.57936668	1	0	0	0
cg00804392	RHOH	399	2.08019	0.038487639	0.233744496	1.337044	0.57699677	0	0	0	0
cg04502814	SEPP1	6414	2.08018	0.038488349	0.233744496	1.33858284	0.56726503	0	0	1	1
cg24776019	HYPB	29072	-2.08005	0.038500284	0.233744496	0.73672644	0.56116378	0	0	0	0
cg14462830	TRDN	10345	-2.08004	0.038501629	0.233744496	0.75900663	0.58183743	0	0	0	1
cg14911472	CRSP3	9439	2.07989	0.038515306	0.233744496	1.33472365	0.57276119	0	0	1	0
cg04563996	SPATA12	353324	2.07989	0.038515487	0.233744496	1.33379597	0.56882816	0	0	0	0
cg01794265	FAM105A	54491	-2.07888	0.038608554	0.234115797	0.74888936	0.58022388	0	0	0	0
cg26316946	GRIK2	2898	2.07881	0.038615392	0.234115797	1.33811743	0.55284389	0	0	0	0
cg14085328	DDX59	83479	2.07872	0.038623814	0.234115797	1.3337294	0.57205526	0	0	0	0
cg11565248	RPS6KA3	6197	-2.0787	0.038625639	0.234115797	0.74982221	0.55481041	0	0	0	1
cg26265187	USP52	9924	-2.0784	0.03865308	0.234207887	0.74783358	0.5592981	0	0	0	0
cg19465374	AZGP1	563	-2.07818	0.038674007	0.234260462	0.75355583	0.57079468	0	0	0	0
cg07259382	Mar-01	55016	-2.07789	0.038700345	0.234345769	0.73449704	0.56459258	0	0	0	0
cg04464559	PDSS2	57107	2.07768	0.038720147	0.234391455	1.33749744	0.58526624	0	0	0	0
cg18675600	PTP4A3	11156	-2.07725	0.038759853	0.234496954	0.7541569	0.56242437	0	0	0	0
cg17774418	FLJ33708	285780	-2.07719	0.038766056	0.234496954	0.75594977	0.5736184	0	0	0	0
cg26889928	TRIM24	8805	-2.07698	0.038785779	0.234496954	0.74776591	0.56287818	0	0	1	0
cg26174752	GPR63	81491	2.07689	0.038793892	0.234496954	1.32074633	0.57079468	0	0	0	1
cg15677294	TUBB4	10382	-2.07671	0.038810261	0.234496954	0.75610956	0.56161759	0	0	0	0
cg27412902	IL29	282618	-2.07667	0.038814283	0.234496954	0.74036579	0.5637858	0	0	0	0
cg12438666	C2orf15	150590	2.07642	0.038837957	0.234496954	1.33635027	0.55753328	0	0	0	0
cg04981492	SYDE1	85360	2.07634	0.038845246	0.234496954	1.33650817	0.54956636	0	0	0	0
cg09258965	TBC1D7	51256	-2.07631	0.038847938	0.234496954	0.74447188	0.5567265	0	1	0	0
cg16918585	NDUFS5	4725	2.07602	0.038875059	0.234557585	1.32783515	0.56514724	0	0	0	0
cg12113819	THRAP2	23389	2.07594	0.038882515	0.234557585	1.32567956	0.56958451	0	0	0	0
cg04172348	SYN2	6854	2.07531	0.038940773	0.234768758	1.31354591	0.56776926	0	0	0	0
cg02992647	DDX52	11056	-2.075	0.038970501	0.234768758	0.75328206	0.56338241	0	0	0	0
cg08970694	HBE1	3046	-2.07492	0.038977597	0.234768758	0.74890529	0.5672146	0	0	0	0
cg15664067	RASA1	5921	2.07491	0.038978242	0.234768758	1.32749872	0.57868596	0	0	1	0
cg25420398	RYK	6259	2.07491	0.038978905	0.234768758	1.32653682	0.55581888	0	0	0	0
cg10562586	MAP2	4133	2.07471	0.03899696	0.234803552	1.34565443	0.58385438	0	0	0	0
cg01045423	GLMN	11146	2.07445	0.03902161	0.234878014	1.3265916	0.57271077	0	0	0	0
cg14287742	BLZF1	8548	-2.07424	0.039041244	0.234883455	0.74234758	0.57745059	0	0	0	0
cg23864823	MRPL9	65005	2.07418	0.039047079	0.234883455	1.33794475	0.56620613	0	0	0	0
cg18112431	CDADC1	81602	2.07348	0.039112376	0.235052052	1.31784345	0.56756757	0	0	0	0
cg07817698	HDODH	1723	2.07334	0.039125747	0.235052052	1.33322533	0.5744756	0	0	0	0
cg25739003	EEF1G	1937	-2.07315	0.0391432	0.235052052	0.75702721	0.56005446	0	0	0	0
cg15937081	C14orf106	55320	2.07303	0.039154842	0.235052052	1.33322836	0.56408834	0	0	0	0

cg01727899	GPATC2	55105	-2.07293	0.039163872	0.235052052	0.75493066	0.57518153	0	0	0
cg25841987	C4orf18	51313	2.07287	0.03916976	0.235052052	1.34263899	0.57039129	0	0	0
cg23179321	RPP38	10557	2.07277	0.039178854	0.235052052	1.33802976	0.56681121	0	0	0
cg10173675	RAB17	64284	-2.07273	0.039182922	0.235052052	0.76019785	0.5699879	0	0	1
cg13118849	CSPG3	1463	-2.0727	0.039185731	0.235052052	0.76173295	0.56781969	0	0	0
cg21818252	SEC24B	10427	2.07256	0.039198434	0.235054515	1.32157847	0.56318072	0	0	0
cg15278682	TACR2	6865	-2.07204	0.03924769	0.235239141	0.75010137	0.57714804	0	0	0
cg02910574	PCOLN3	51119	-2.07171	0.0392783	0.235239141	0.7564552	0.53625454	0	0	0
cg13843773	MGC35043	255119	2.07162	0.039286925	0.235239141	1.3237113	0.58693021	1	0	0
cg10791260	TNFSF15	9966	2.07162	0.039287517	0.235239141	1.32777971	0.56212182	0	0	0
cg18679190	MFAP2	4237	-2.07158	0.03929073	0.235239141	0.75548793	0.56928197	0	0	0
cg16104446	MCM4	4173	-2.07119	0.039328054	0.235243741	0.75169361	0.56101251	0	0	0
cg21061811	DDA1	79016	-2.07114	0.039332372	0.235243741	0.74373558	0.56025615	0	0	1
cg23126947	NSUN3	63899	-2.07106	0.039339969	0.235243741	0.75210835	0.56560105	0	1	1
cg11228872	CALR	811	2.07105	0.039340705	0.235243741	1.31137065	0.55622227	0	0	1
cg08823182	S100A5	6276	-2.0708	0.039364508	0.235292503	0.76114105	0.57472771	0	0	0
cg12727795	PDPFRB	5159	-2.07053	0.039389658	0.235292503	1.3312807	0.56918112	0	0	0
cg18579447	MDG2K11P1	8649	2.07049	0.039396407	0.235292503	1.33916431	0.5802743	0	0	0
cg17751867	GOLPH3	64083	2.07044	0.039398076	0.235292503	1.32451164	0.57371924	0	0	0
cg16834187	BRD7	29117	-2.07014	0.039427012	0.235367055	0.75314776	0.56517245	0	0	0
cg06911113	UBXD3	127733	2.06997	0.03944258	0.235367055	1.32024434	0.55228923	0	0	0
cg00688421	RAP1GDS1	5910	-2.0699	0.039449454	0.235367055	0.75172894	0.57150061	0	0	0
cg21885525	SCYE1	9255	2.06979	0.039459792	0.235367055	1.32900692	0.56731545	0	0	0
cg06074920	KRTHA4	3885	-2.06934	0.039501872	0.235466795	0.75538117	0.55143203	0	1	0
cg22718139	HMGCS2	3158	-2.06914	0.039520973	0.235466795	0.74712	0.57276119	0	0	0
cg19985911	AVIL	10677	-2.06911	0.039523694	0.235466795	0.75417536	0.56247479	0	0	0
cg05615150	ARPP-21	10777	-2.06909	0.039525767	0.235466795	0.75129193	0.5794171	0	0	0
cg12775613	HTR1F	3355	-2.06866	0.039566805	0.235616833	0.75185926	0.54396934	0	0	0
cg09173897	KIAA1622	57718	2.06856	0.039575595	0.235616833	1.31890728	0.57230738	0	0	0
cg26053864	ACTC	70	2.068	0.039628887	0.235860683	1.32093759	0.56701291	0	0	0
cg17639290	TIMM8B	26521	2.06783	0.039645133	0.235883961	1.32024446	0.56605486	0	0	0
cg25391023	BTNL2	56244	-2.06718	0.039707178	0.236120222	0.75930181	0.57139976	0	0	0
cg10995359	LYCAT	253558	-2.06715	0.039709537	0.236120222	0.73645721	0.57402178	0	0	0
cg22534509	GPR81	27198	-2.06667	0.039754973	0.236171549	0.74775475	0.58556878	0	0	0
cg19308222	EREG	2069	2.06664	0.039757811	0.236171549	1.33377355	0.57276119	0	0	0
cg15271616	RUSC2	9853	2.06659	0.039763052	0.236171549	1.3210559	0.55889472	0	0	0
cg13605579	ALPP	250	-2.06642	0.039779059	0.236171549	0.74844692	0.54785196	0	0	0
cg16761041	C9orf100S	158293	2.06639	0.039781643	0.236171549	1.32731099	0.57175272	0	0	0
cg11075556	ANKRD7	56311	-2.06615	0.0398046	0.236171549	0.75251114	0.56872731	0	0	0
cg07656391	LOC84661	84661	2.06615	0.03980462	0.236171549	1.32177317	0.55470956	0	0	0
cg03665457	LOC158160	158160	-2.06574	0.039843941	0.236323995	0.76005854	0.57931626	0	0	0
cg20932053	CPM	1368	-2.06562	0.03985503	0.236323995	0.75116197	0.56388665	1	0	0

cg01618304	C11orf54	28970	2.06511	0.03990382	0.236539957	1.32212477	0.56645825	0	0	0	0	0
cg06248182	ERAL1	26284	2.06417	0.03999324	0.236944606	1.32925318	0.57240823	0	0	0	0	0
cg27160701	SBEM	118430	-2.06414	0.039996865	0.236944606	0.75668348	0.56706333	0	0	0	0	0
cg17165760	ANKRD26	22852	2.06378	0.040031371	0.237001746	1.32448735	0.57013917	0	0	0	0	0
cg20977411	PMVK	10654	2.06365	0.040043124	0.237001746	1.32223474	0.55985276	0	0	0	0	0
cg09527021	TADA1L	117143	2.06365	0.040043691	0.237001746	1.32434926	0.580476	0	0	0	0	0
cg23807646	SLC26A8	116369	2.06334	0.040072672	0.237057876	1.3099244	0.56761799	0	0	0	0	0
cg12085225	SETX	23064	2.06324	0.040082328	0.237057876	1.32090497	0.55264219	0	0	0	0	0
cg04457481	GNAS	2778	2.06316	0.040090364	0.237057876	1.3292649	0.56439088	1	0	0	1	0
cg23064554	CTRC	11330	-2.06277	0.04012809	0.237207602	0.75689191	0.57719847	0	0	0	0	0
cg05146762	GTF2IRD1	9569	2.06206	0.04019616	0.237414212	1.32986608	0.56106293	0	0	0	0	0
cg11043092	MCPH1	79648	-2.06203	0.040198199	0.237414212	0.75419482	0.57485377	0	0	0	0	0
cg18973389	NUP35	129401	2.06182	0.040218874	0.237414212	1.33501331	0.57145018	0	0	0	0	0
cg09954385	ARHGAP8	23779	2.06159	0.040241147	0.237414212	1.31642141	0.58899758	0	0	0	0	0
cg26128092	WDR8	49856	2.06155	0.040244627	0.237414212	1.30415511	0.57669423	1	0	0	0	0
RP11-												
cg21655480	450P7.3	257240	-2.0615	0.040249408	0.237414212	0.7590374	0.56676079	0	0	0	0	0
cg15798530	TRPC3	7222	-2.0615	0.040249948	0.237414212	0.75842962	0.57089552	0	0	0	0	0
cg18901940	FLJ14437	84665	-2.06112	0.040286261	0.237473246	0.7555486	0.57286204	0	0	0	0	0
cg08793459	PTRH2	51651	2.06089	0.040308039	0.237473246	1.34244662	0.58148447	0	0	0	0	0
cg09015232	SLC12A5	57468	-2.06084	0.040313372	0.237473246	0.75401546	0.56726503	1	0	0	0	0
cg27126442	FLJ20184	54848	-2.06055	0.040340419	0.237473246	0.75173404	0.57840863	1	0	0	0	0
cg18833140	HABP2	3026	-2.06043	0.040352107	0.237473246	0.74912773	0.5725595	0	0	1	0	0
cg06832950	SPG3A	51062	-2.06034	0.040360601	0.237473246	0.74677754	0.57281162	0	0	0	0	0
cg14758526	CASP5	838	-2.06023	0.040372129	0.237473246	0.74604121	0.55571803	0	1	0	0	0
cg06987504	EIF3S6	3646	2.06016	0.040378396	0.237473246	1.32223774	0.57044171	0	0	0	0	0
cg27298262	MGC3101	79007	-2.06006	0.040387682	0.237473246	0.7551494	0.568929	0	0	0	0	0
cg03482087	MGC33302	256471	2.05997	0.040396388	0.237473246	1.32591388	0.5708451	0	0	0	0	0
cg21279601	DRD5	1816	-2.05988	0.040405177	0.237473246	0.75202917	0.5541549	1	0	0	0	0
cg26294551	GP5	2814	-2.05975	0.040417476	0.237473246	0.75460641	0.56746672	0	0	0	0	0
cg21975377	FZD6	8323	2.05971	0.040421393	0.237473246	1.31721516	0.54946551	0	0	0	0	0
cg04668164	SMAP1L	64744	2.05934	0.040457346	0.237611466	1.32678034	0.58481242	0	0	0	0	0
cg12585282	PABPC4	8761	2.05914	0.040477266	0.237613931	1.32446936	0.5541549	0	0	0	0	0
cg27138018	HAPLN2	60484	2.05898	0.040492506	0.237613931	1.3353085	0.55985276	0	0	0	0	0
cg06392426	FLJ12949	65095	2.05895	0.040495042	0.237613931	1.33606791	0.56439088	0	0	0	0	0
cg07882535	TRPM5	29850	-2.05866	0.040523318	0.237706907	0.75188391	0.55763413	0	0	0	0	0
cg15895197	EMILIN1	11117	2.05848	0.040540746	0.237736214	1.31674433	0.58657725	0	0	0	0	0
cg04820387	PCMTD2	55251	2.05827	0.040560724	0.237780447	1.33544951	0.57452602	0	0	0	0	0
cg25908985	IHH	3549	2.05808	0.040579389	0.237816966	1.32423877	0.56751714	1	0	0	0	0
cg14197923	FGF5	2250	2.05765	0.040620666	0.237985935	1.32561867	0.56444131	1	1	0	0	0
cg18676393	GEMIN6	79833	2.05718	0.04066643	0.238082402	1.32024183	0.57926583	0	0	0	0	0
cg00690049	MAGED2	10916	-2.05706	0.040677863	0.238082402	0.75240309	0.56736587	0	0	0	0	0

cg19252956	DOCK8	81704	2.05693	0.040690928	0.238082402	1.32720522	0.55546591	0	0	0	0	0
cg22979433	CKMT2	1160	2.05685	0.040698538	0.238082402	1.32602797	0.56176886	0	0	0	0	0
cg00658007	C1orf36	343035	2.05676	0.040707569	0.238082402	1.32139241	0.5725595	0	0	0	0	0
cg04091078	SLCO1C1	53919	-2.05671	0.040711832	0.238082402	0.74755875	0.57649254	0	0	0	0	0
cg04950789	E2F5	1875	2.05629	0.040753146	0.238212323	1.32047734	0.58067769	0	0	0	0	0
cg20059312	NGEF	25791	-2.05615	0.040766036	0.238212323	0.75323167	0.56267648	0	0	0	0	0
cg08235271	LPHN2	23266	2.0561	0.040771419	0.238212323	1.33319254	0.57946753	0	0	0	1	0
cg17606683	HSPC138	51501	2.05544	0.040835365	0.238391531	1.33684623	0.57059298	0	0	0	0	0
cg10950297	EFNB1	1947	2.0553	0.040848619	0.238391531	1.33658861	0.58708148	1	0	0	0	0
cg17941312	PSF1	9837	-2.05522	0.040856742	0.238391531	0.75243539	0.57003832	1	0	0	0	0
cg06305312	PQLC2	54896	-2.05515	0.04086401	0.238391531	0.75526019	0.5883925	1	0	0	0	0
cg14176475	TTF1	7270	2.05514	0.040864423	0.238391531	1.32447824	0.56560105	0	0	1	0	0
cg20169062	HSPB3	8988	-2.05491	0.040887094	0.238451046	0.75863666	0.56403792	0	0	0	0	0
cg15384717	PRPF3	9129	2.0545	0.040926581	0.238571978	1.32484472	0.56434046	0	0	0	1	0
cg15925792	MX1	4599	2.05436	0.040940363	0.238571978	1.31620739	0.57382009	0	1	0	0	0
cg12641660	TTF2	8458	2.05431	0.040945257	0.238571978	1.33945543	0.57286204	0	0	1	0	0
cg06481786	RAD52B	201299	2.05406	0.040970021	0.238595296	1.3200612	0.56081081	0	0	0	0	0
cg18219418	PARP6	56965	-2.05401	0.040974213	0.238595296	0.75556793	0.57714804	0	0	0	0	0
cg15606663	KRTAP15-1	254950	-2.05364	0.041010481	0.238666164	0.7505318	0.5648447	0	0	0	0	0
cg21457147	KCTD4	386618	-2.05363	0.041011345	0.238666164	0.75228137	0.57518153	0	0	0	1	0
cg09989134	C12orf44	60673	2.05339	0.041035179	0.238732216	1.33192074	0.56968536	0	0	0	0	0
cg11903151	LOC388152	388152	2.05326	0.041048222	0.238735469	1.32562089	0.56161759	0	0	0	0	0
cg16051685	TRIM63	84676	-2.05303	0.041070544	0.238792664	0.75053577	0.57553449	0	0	0	0	0
cg27497900	NCSTN	23385	2.05265	0.041107345	0.238879079	1.3371532	0.57346712	0	0	0	0	0
cg09191232	PAPSS1	9061	2.05255	0.041117388	0.238879079	1.31683149	0.56434046	0	0	0	0	0
cg04527918	UCN	7349	2.05249	0.041122882	0.238879079	1.32685456	0.58894716	1	0	0	0	0
cg25955816	HIST3H3	8290	2.05236	0.041135877	0.238882004	1.32411224	0.57578661	0	0	0	0	0
cg26775866	PTTG1	9232	2.05205	0.041166633	0.238976524	1.32837598	0.5841065	0	0	0	0	0
cg12939547	C6orf27	80737	-2.05194	0.041177147	0.238976524	0.76068578	0.56081081	0	0	0	0	0
cg06277838	SLC16A2	6567	-2.05146	0.0412243	0.239133603	0.74543586	0.56590359	0	1	0	0	0
cg01414934	SH3BGRL3	83442	2.05141	0.041229223	0.239133603	1.32730793	0.56055869	0	0	0	1	0
cg16530429	LIN28	79727	2.05108	0.041261707	0.239249444	1.32476485	0.58098023	0	0	0	0	0
cg26478992	ASP	54829	-2.05086	0.041282864	0.239274155	0.75878189	0.56731545	0	0	0	0	0
cg07973390	CARF	55602	2.05075	0.041293792	0.239274155	1.32596849	0.57583703	0	0	0	0	0
cg16890267	CXCL2	2920	2.05065	0.041303506	0.239274155	1.3261502	0.55546591	0	1	0	0	0
cg15153383	KATNB1	10300	2.05018	0.041350128	0.239422809	1.31763952	0.56333199	0	0	0	1	0
cg14950072	LAMA1	284217	2.05013	0.041354207	0.239422809	1.31954583	0.54124647	0	1	0	0	0
cg03077836	DDEF2	8853	2.04946	0.041420378	0.239684977	1.32852683	0.56403792	0	0	0	0	0
cg18432384	FLJ32771	220004	-2.04942	0.041424737	0.239684977	0.759684	0.56171844	0	0	0	0	0
cg09827833	TEK	7010	2.04924	0.041441744	0.239684977	1.34211363	0.56313029	0	0	0	0	0
cg13694749	SCN4A	6329	-2.04916	0.041449625	0.239684977	0.75610201	0.57245865	0	0	0	0	0
cg24574111	EDG7	23566	-2.0489	0.041475314	0.239719551	0.74866083	0.56413877	0	0	0	0	0

[illegible]

[illegible]

cg24794734	AGL	178	2.03305	0.043063807	0.242684347	1.32170186	0.58945139	0	0	0	0	0
cg17048363	CDK8	1024	2.03287	0.043081299	0.242684347	1.31065277	0.56691206	0	0	0	0	0
cg15032239	CYFIP1	23191	2.03284	0.043085104	0.242684347	1.31746709	0.57417305	1	0	0	0	0
cg11764747	EFNB1	1947	-2.03219	0.043151099	0.242925693	0.75653826	0.55445744	1	0	0	0	0
cg02475653	KIAA0703	9914	-2.03206	0.043164376	0.242925693	0.75823191	0.56802138	0	0	0	0	0
cg18581221	FLJ45645	375287	2.03204	0.043166061	0.242925693	1.31880902	0.55087737	0	0	0	0	0
cg13462129	DLX5	1749	2.03187	0.043183576	0.242935363	1.32041902	0.58037515	1	0	0	0	0
cg01668126	MSR1	4481	-2.03174	0.043196742	0.242935363	0.75272794	0.56176886	0	0	0	0	0
cg22012054	ATP5B	506	2.03165	0.043205891	0.242935363	1.30966093	0.56081081	0	0	0	0	0
cg26045205	C1orf179	338094	-2.03114	0.043258515	0.243159756	0.75882559	0.55788624	0	0	0	0	0
cg02717866	FLJ32771	220004	-2.03093	0.04327926	0.243204876	0.74799739	0.55319685	0	0	0	0	0
cg01796228	LIFR	3977	-2.03072	0.043301364	0.243257605	0.76111029	0.56393707	0	0	0	0	0
cg01228636	PTEN	5728	2.03052	0.043321016	0.243286152	1.30560001	0.57553449	0	0	0	1	0
cg07393322	A4GALT	53947	2.03042	0.043333189	0.243286152	1.30783507	0.5541549	0	0	0	0	0
cg21311175	HIRA	7290	2.03029	0.043345354	0.243290317	1.32215135	0.56479427	0	0	0	0	0
cg05815893	C17orf80	55028	2.02949	0.043427401	0.24367931	1.31416251	0.57013917	0	0	0	0	0
cg09523691	ATG12	9140	2.02926	0.043450712	0.243724533	1.32153144	0.58007261	0	0	0	0	0
cg12648583	FBXO8	26269	2.02905	0.043471956	0.243724533	1.33842683	0.56605486	0	0	0	0	0
cg10615091	FAM13C1	220965	2.02903	0.043473696	0.243724533	1.31652659	0.56761799	0	0	0	0	0
cg06776256	GPRC5A	9052	2.02873	0.043504763	0.243827222	1.30023066	0.55793667	0	0	0	0	0
cg27638713	MCM3	4172	2.02856	0.043522679	0.243855434	1.31096675	0.57225696	0	0	0	0	0
cg058444583	SLC19A3	80704	2.02843	0.043535301	0.243855434	1.32638607	0.56323114	0	0	0	0	0
cg16959972	DMC1	11144	2.0281	0.043569995	0.243950889	1.32971846	0.56010488	0	0	0	0	0
cg01316071	C14orf139	79686	-2.02779	0.043601155	0.243950889	0.75430293	0.57528237	0	0	0	0	0
cg19526626	ZNF491	126069	2.02779	0.043601342	0.243950889	1.3173594	0.5436668	0	0	0	0	0
cg27221338	KDELR2	11014	-2.02777	0.043603371	0.243950889	0.75245216	0.57003832	0	0	0	1	0
cg06956273	GNAT2	2780	-2.02712	0.043670037	0.244030027	0.7509879	0.55425575	0	0	0	0	0
cg07611925	KCNE2	9992	-2.02705	0.043677338	0.244030027	0.7482482	0.56696249	0	0	0	1	0
cg05429895	TLR4	7099	2.02683	0.043700235	0.244030027	1.32601772	0.58254336	0	0	0	0	0
cg04126335	ITGA10	8515	-2.0267	0.043713494	0.244030027	0.75446923	0.56161759	0	0	0	0	0
cg17038116	ASH1L	55870	2.02651	0.043733607	0.244030027	1.32874738	0.56590359	0	0	0	0	0
cg22527415	LSM16	80153	2.02635	0.043749525	0.244030027	1.32447138	0.55718032	0	0	0	0	0
cg24532476	CHFR	55743	-2.02627	0.043757878	0.244030027	0.75499365	0.55233965	0	0	0	0	0
cg12774845	ENTPD5	957	2.02619	0.043765964	0.244030027	1.31178335	0.55425575	0	0	0	0	0
cg22899145	OPN1LW	5956	-2.02607	0.043778535	0.244030027	0.75887032	0.5507261	0	0	0	0	0
cg18674980	CA3	761	2.02606	0.043779673	0.244030027	1.32824713	0.56933239	1	0	0	1	0
cg14986136	WBP5	51186	2.02604	0.043781334	0.244030027	1.31851738	0.56257564	0	0	0	0	0
cg03608577	OR12D3	81797	-2.02604	0.043781829	0.244030027	0.75581211	0.5751311	0	0	0	0	0
cg14236389	FLJ33860	284756	2.02602	0.04378341	0.244030027	1.31195844	0.55042356	0	0	0	0	0
cg03862760	MGC10911	84262	-2.02556	0.043831498	0.244226864	0.75041164	0.56761799	0	0	0	0	0
cg00301864	RAB35	11021	-2.02506	0.043882624	0.244300727	0.75812073	0.55465914	0	0	0	0	0
cg26533949	DZIP1L	199221	2.02505	0.043884141	0.244300727	1.31612199	0.5639875	0	0	0	0	0

cg22189519	CDC37L1	55664	-2.02499	0.043889948	0.244300727	0.75807288	0.56625656	0	0	0	0
cg17610929	ACCN4	55515	2.02494	0.043895855	0.244300727	1.33464119	0.56212182	0	0	0	0
cg14043602	OR1E1	8387	-2.0247	0.043919824	0.244363006	0.75709865	0.56297902	0	0	0	0
cg26228569	CRSP8	9442	2.02429	0.043962545	0.244457133	1.32168306	0.57376967	0	0	0	0
cg14695751	ALS2CR7	65061	-2.02422	0.043969543	0.244457133	0.75295111	0.56146632	0	0	0	0
cg15167433	XRCC1	7515	2.02417	0.043975092	0.244457133	1.3227715	0.5639875	0	0	0	0
cg23504707	PPM1A	5494	-2.02399	0.043993523	0.244480842	0.75671862	0.56565147	0	0	0	1
cg22772878	DIRAS1	148252	2.02337	0.044057676	0.244480842	1.30844908	0.58501412	0	0	0	0
cg21667836	PRMT8	56341	2.0233	0.044065824	0.244480842	1.3146626	0.56358411	0	0	0	0
cg26399035	THUMPD1	55623	2.02328	0.04406795	0.244480842	1.31594699	0.55324728	0	0	0	0
cg18611122	LASS2	29956	2.02317	0.044079136	0.244480842	1.31974221	0.59590561	0	0	0	0
cg06516650	RAB30	27314	2.02315	0.044081238	0.244480842	1.30695855	0.56166801	0	0	0	1
cg02409351	CART1	8092	2.02289	0.044108119	0.244480842	1.32913943	0.56792053	1	0	0	0
cg00514407	SERPINE2	5270	2.02272	0.044125559	0.244480842	1.32240932	0.59403994	0	0	0	0
cg06154597	MGC4618	84286	-2.02257	0.044140968	0.244480842	0.76240253	0.55612142	0	0	0	0
cg14371329	GNAL	2774	-2.02243	0.044155482	0.244480842	0.74856762	0.57034086	0	0	0	0
cg16235034	FRMPD1	22844	-2.0224	0.044158666	0.244480842	0.76163443	0.58849334	1	0	0	0
cg16462075	MUC3B	57876	-2.02238	0.044160798	0.244480842	0.75234394	0.59454417	0	0	0	0
cg04021421	FANCC	2176	-2.02217	0.044182504	0.244480842	0.75340749	0.56943324	0	0	0	0
cg04826883	CA12	771	2.02214	0.04418549	0.244480842	1.32001341	0.56887858	0	0	0	1
cg18986964	ABL1	25	2.02179	0.044221848	0.244480842	1.32394359	0.57225696	0	0	0	1
cg03887534	BCL2L13	23786	2.02178	0.044223522	0.244480842	1.32014676	0.56776926	0	0	0	0
cg24959428	GBP6	163351	-2.02174	0.044227071	0.244480842	0.7575258	0.54931424	0	0	0	0
cg11564670	MC2R	4158	-2.02155	0.044247085	0.244480842	0.74816232	0.56973578	0	0	0	0
cg15277108	SDS	10993	-2.02155	0.044247615	0.244480842	0.7575294	0.55712989	0	0	0	0
cg06765947	UROCI	131669	-2.02149	0.044235367	0.244480842	0.76523436	0.56015531	0	0	0	0
cg22802439	UPK1A	11045	-2.02132	0.044271098	0.244480842	0.75089674	0.57139976	0	0	0	0
cg03574115	WDR65	149465	-2.02128	0.044275483	0.244480842	0.76192948	0.55233965	0	0	0	0
cg23096644	PEG10	23089	2.02117	0.044286824	0.244480842	1.32451084	0.5699879	0	0	0	0
cg03943081	TCERG1L	256536	-2.02111	0.0442927	0.244480842	0.76461687	0.54084308	0	0	0	1
cg00808492	REG4	83998	-2.02096	0.044308365	0.244480842	0.75885342	0.55960065	0	0	0	0
cg07577263	NUP205	23165	2.02085	0.044320756	0.244480842	1.31658356	0.56252521	0	0	0	0
cg22084336	UBP1	7342	2.02079	0.044326133	0.244480842	1.31769199	0.57074425	0	1	0	1
cg00882832	SPRY1	10252	2.02058	0.044348329	0.244480842	1.32597691	0.57644211	0	0	0	1
cg14723014	ZMYM5	9205	2.02035	0.044371919	0.244480842	1.31692471	0.55914683	0	0	0	0
cg00472814	ADAMTS1	9510	2.02025	0.044382992	0.244480842	1.33159588	0.57795482	0	0	0	0
cg12104707	ZNF426	79088	2.02019	0.044388653	0.244480842	1.33419692	0.57785397	0	0	0	0
cg002331920	VPS16	64601	2.02012	0.044396322	0.244480842	1.30573336	0.5462384	0	0	0	0
cg00309204	C17orf61	254863	2.02007	0.044401252	0.244480842	1.31446143	0.57094595	0	0	0	0
cg26640549	RAD18	56852	2.01939	0.044472481	0.244802556	1.32476675	0.57195442	0	0	0	0
cg15876417	ABCD2	225	2.01917	0.044496091	0.24484154	1.30894733	0.57167709	0	0	0	0
cg10971269	TMEM106B	54664	2.01901	0.044512162	0.24484154	1.31497308	0.58556878	0	1	0	0

cg06418219	SHC1	6464	2.01876	0.04453909	0.24484154	1.32068863	0.56812223	0	0	0	0	1
cg05001145	ELL2	22936	-2.01869	0.044546257	0.24484154	0.7594449	0.57719847	0	1	1	0	0
cg13954292	ZFR	51663	-2.01863	0.044552046	0.24484154	0.7606388	0.56267648	0	0	0	0	0
cg01299496	NOLA3	55505	2.01859	0.044556385	0.24484154	1.32753228	0.56575232	0	0	0	0	0
cg15491567	DYSF	8291	2.01821	0.044596097	0.244985623	1.31603223	0.56368495	0	0	0	0	0
cg24214470	SERPINF1	5176	-2.0181	0.044608227	0.244985623	0.76080945	0.56862646	0	0	0	0	0
cg11909865	LOC120379	120379	2.01787	0.044631751	0.245021438	1.33134442	0.56918112	0	0	0	0	0
cg12676081	RIOK2	55781	2.01779	0.044640374	0.245021438	1.32286693	0.56388665	0	0	0	0	0
cg05714729	GALNT1	2589	2.01736	0.044685247	0.245116767	1.32838772	0.56973578	0	0	0	0	0
cg07136254	HFE2	148738	-2.01727	0.044695205	0.245116767	0.75575888	0.58284591	0	0	0	0	0
cg21754343	LCE2B	26239	-2.01716	0.044706484	0.245116767	0.75439554	0.55965107	0	0	0	0	0
cg00792687	C8orf41	80185	2.01708	0.044714662	0.245116767	1.30696475	0.55874345	0	0	0	0	0
cg11005826	IGF2AS	51214	2.01701	0.044721832	0.245116767	1.32606379	0.58869504	1	0	0	0	0
cg15836722	IL1B	3553	2.01623	0.044804354	0.245447999	1.32025875	0.54765026	0	0	0	0	0
cg18450227	MAPK4	5596	-2.01611	0.044817355	0.245447999	0.75000522	0.53892699	1	0	0	0	0
cg07873128	OSBPL5	114879	-2.01607	0.044820772	0.245447999	0.7637744	0.59030859	0	0	0	0	0
cg06123346	ATP4A	495	-2.01582	0.044847053	0.245457587	0.75838349	0.56948366	0	0	0	0	0
cg17489752	BAT1	7919	2.01581	0.044848194	0.245457587	1.30729785	0.56282775	0	0	0	0	0
cg10215884	MGC33214	153396	2.01515	0.044917862	0.245659621	1.30542486	0.56060912	0	0	0	0	0
cg14893161	FLJ32569	148811	-2.01506	0.044928071	0.245659621	0.76281747	0.54563332	0	0	0	0	0
cg13735974	NFYC	4802	2.01503	0.044930681	0.245659621	1.32300589	0.54765026	0	0	0	0	0
cg16979445	NRM	11270	-2.01498	0.044936494	0.245659621	0.76329738	0.57397136	0	0	0	0	0
cg02307482	C12orf60	144608	2.01483	0.044951401	0.245670883	1.32310884	0.56792053	0	0	1	0	0
cg15373285	MEG3	55384	-2.01463	0.044972849	0.245677242	0.75481443	0.55995361	0	0	0	0	0
cg18878034	C6orf108	10591	2.01448	0.044988815	0.245677242	1.31313891	0.55702904	0	0	0	0	0
cg10158181	GRK4	2868	2.01446	0.044991106	0.245677242	1.3102899	0.56287818	0	0	0	0	0
cg22692158	PRB4	5545	-2.0142	0.045017913	0.245684854	0.75539199	0.57099637	0	0	0	0	0
cg19118077	AKR1C3	8644	2.0142	0.045018195	0.245684854	1.33025235	0.56025615	0	0	0	0	0
cg21169285	MAPK9	5601	-2.0139	0.045050365	0.245744353	0.75720289	0.56055869	0	0	0	0	0
cg17256555	C8orf53	84294	2.01374	0.045066845	0.245744353	1.31895465	0.57336628	0	0	0	0	0
cg19346899	MGC24665	116028	2.01373	0.04506765	0.245744353	1.31875027	0.57755143	0	0	0	0	0
cg16473288	OR1N1	138883	-2.01344	0.045098309	0.245822919	0.75630933	0.55813836	0	0	0	0	0
cg21325760	MAGEL2	54551	-2.01318	0.045126378	0.245822919	0.75774468	0.53721259	0	0	0	0	0
cg11177450	SENP5	205564	2.01315	0.045129447	0.245822919	1.31678942	0.57528237	0	0	0	0	0
cg18982568	KRT1B	374454	-2.01304	0.045141561	0.245822919	0.75915423	0.55697862	0	0	0	0	0
cg14285013	MYBL1	4603	2.01291	0.045154446	0.245822919	1.3418558	0.57281162	0	0	0	0	0
cg13916322	HRASLS3	11145	2.01261	0.045186796	0.245822919	1.31033256	0.58324929	0	0	0	0	0
cg13755070	FLI1	2313	2.0126	0.045187642	0.245822919	1.3222002	0.55304558	1	0	0	1	1
cg02992632	FGF12	2257	2.01254	0.045193928	0.245822919	1.31632386	0.55667608	0	0	0	0	0
cg08093211	CSTF2	1478	2.01248	0.045200236	0.245822919	1.31515006	0.56030658	0	1	0	0	0
cg04106641	ORC4L	5000	2.01238	0.045210607	0.245822919	1.33732028	0.57901372	0	0	0	1	0
cg16986494	FHIT	2272	2.01206	0.045245158	0.245875566	1.31309862	0.55546591	0	0	0	1	0

cg21194776	USP54	159195	-2.00461	0.046041594	0.247247996	0.75231639	0.55445744	0	0	0	0
cg02868123	REGL	5969	2.00432	0.04607251	0.247344556	1.32319354	0.55960065	0	0	0	0
cg05517572	STAP2	55620	-2.00403	0.046103787	0.247398607	0.76286513	0.58022388	0	0	0	0
cg08810779	DXH16	8449	2.00392	0.046115448	0.247398607	1.3108192	0.56595401	0	0	0	0
cg00967316	PPPIR3A	5506	-2.00381	0.046127871	0.247398607	0.76473311	0.54775111	0	0	0	0
cg24211388	AIF1	199	2.00369	0.046141208	0.247398607	1.31576839	0.5770472	0	0	0	0
cg13589108	FAM5B	57795	2.00363	0.046147264	0.247398607	1.31292451	0.56993748	1	0	0	0
cg26218269	MAB21L2	10586	-2.00328	0.04618536	0.247512672	0.76477241	0.55143203	1	0	1	0
cg21032203	ZNF265	9406	2.00319	0.046194427	0.247512672	1.31975615	0.57220654	0	0	0	0
cg07550278	C10orf4	118924	2.003	0.046215324	0.247555277	1.32212125	0.56524808	0	0	0	0
cg14341030	C12orf60	144608	2.00283	0.046233189	0.247581623	1.32642697	0.5742739	0	0	1	0
cg24975564	PDE3A	5139	2.00255	0.04626379	0.247624027	1.3133337	0.56050827	0	0	0	0
cg01671881	C20orf71	128861	-2.00244	0.046275385	0.247624027	0.76021989	0.55924768	0	0	0	0
cg26770882	AIP1	23746	2.00225	0.046296064	0.247624027	1.30981545	0.55939895	0	0	0	0
cg00399483	DCC	1630	-2.00224	0.04629775	0.247624027	0.76112319	0.56620613	1	0	0	0
cg18604842	FLJ36046	164592	2.00199	0.046324994	0.247624027	1.32047084	0.56423961	0	0	0	0
cg01875775	CHEK2	11200	-2.00182	0.046343398	0.247624027	0.76177958	0.57134933	0	0	0	0
cg22289115	MUCDHL	53841	-2.00177	0.046348432	0.247624027	0.7662319	0.57992134	0	0	0	0
cg25167447	NAV1	89796	-2.00156	0.046371197	0.247624027	0.76404048	0.57286204	0	0	0	0
cg13921319	PTMA	5757	-2.00139	0.04638981	0.247624027	0.75247003	0.58138362	0	0	1	0
cg25836326	DRD3	1814	2.00136	0.046392535	0.247624027	1.32679823	0.57482856	0	0	1	0
cg24949344	PLEKHA9	51054	2.00135	0.046394256	0.247624027	1.32562039	0.57795482	0	0	0	0
cg15756091	RGS12	84227	-2.00114	0.046416156	0.247624027	0.75558749	0.57694635	0	0	0	0
cg13683440	MGC39662	131831	2.00104	0.046427401	0.247624027	1.30806174	0.57432432	0	0	0	0
cg10883621	MGC16372	92749	2.00099	0.046433416	0.247624027	1.31195959	0.57896329	0	0	0	0
cg14727512	TSSK2	23617	2.00094	0.046438399	0.247624027	1.31846611	0.56988705	0	0	0	0
cg11158374	TFF2	7032	-2.00085	0.046448293	0.247624027	0.76183409	0.56544978	0	0	0	0
cg00524288	UPP1	7378	2.00061	0.046473837	0.24769009	1.32315841	0.57175272	0	0	0	0
cg22721827	NTN2L	4917	2.00048	0.046488153	0.24769009	1.30001139	0.57134933	0	0	0	0
cg03135127	TRMT1	55621	2.00034	0.046503217	0.24769009	1.30113335	0.57724889	0	0	0	0
cg06323290	HK1	3098	-2.00012	0.046527209	0.24769009	0.7453388	0.57336628	0	0	0	0
cg15751406	ZNF558	148156	-2.00007	0.046533178	0.24769009	0.75939775	0.55077652	0	0	0	0
cg09286787	LOC284361	284361	-1.99995	0.046546096	0.24769009	0.7509202	0.56691206	0	0	0	0
cg04036714	NAPE-PLD	222236	1.9999	0.046551352	0.24769009	1.32045467	0.55798709	0	0	0	0
cg08526867	COX7C	1350	1.99907	0.046641681	0.247876882	1.30866275	0.56015531	0	1	0	0
cg18277508	SLC39A8	64116	1.99903	0.046645909	0.247876882	1.32065245	0.56973578	0	0	0	0
cg03821311	HIST1H1B	3009	-1.999	0.046649423	0.247876882	0.75500283	0.5567265	0	0	0	0
cg04359302	MRPL47	57129	-1.99889	0.046661644	0.247876882	0.76220703	0.55909641	0	0	1	0
cg07940485	SLC16A10	117247	1.99887	0.046663534	0.247876882	1.3155397	0.59560307	0	0	0	0
cg20227165	PRDM11	56981	-1.99886	0.046664232	0.247876882	0.7645558	0.56630698	0	0	0	0
cg11801374	C20orf160	140706	-1.99872	0.046680217	0.247882253	0.76002786	0.57850948	0	0	0	0
cg20377762	TMEM61	199964	-1.99862	0.046691168	0.247882253	0.76408358	0.55763413	0	0	0	0

cg00819696	TIMELESS	8914	1.98964	0.047677883	0.249436918	1.31228807	0.57175272	0	0	0	0
cg21713257	ETFDH	2110	1.9895	0.047693683	0.249436918	1.31312592	0.54326341	0	1	0	0
cg21430666	HIST3H3	8290	1.98945	0.047698862	0.249436918	1.31974395	0.55193627	0	0	0	0
cg08376864	HRASLS	57110	1.98944	0.047700302	0.249436918	1.3197165	0.56953409	0	0	0	0
cg03841029	MBD1	4152	1.98903	0.047746377	0.249436918	1.32214945	0.56726503	0	0	0	0
cg10184886	PLA2G6	8398	1.98894	0.047755892	0.249436918	1.30824162	0.56610528	0	0	0	0
cg06742978	ACCN2	41	-1.98876	0.047775594	0.249436918	0.76346476	0.55339855	1	1	0	0
cg01428678	GPHN	10243	1.98866	0.047786611	0.249436918	1.31482494	0.56928197	0	0	0	0
cg07478208	MEIS3	56917	1.98866	0.047787325	0.249436918	1.31242905	0.55834006	0	0	0	0
cg18561362	C1QTNF4	114900	-1.98861	0.047792213	0.249436918	0.76018821	0.57134933	0	0	0	0
cg21604615	SYTL1	84958	1.98852	0.047802233	0.249436918	1.31861549	0.57286204	0	0	0	0
cg03873930	ARFRP1	10139	-1.98849	0.047805474	0.249436918	0.7571731	0.55697862	0	0	0	0
cg18587973	CDADC1	81602	1.98842	0.047814049	0.249436918	1.31053459	0.56358411	0	0	0	0
cg04237663	KCNV1	27012	1.98839	0.047816966	0.249436918	1.30825526	0.58481242	1	0	0	0
cg25368212	SSX1	6756	-1.98826	0.047831027	0.249436918	0.76464523	0.56126462	0	0	0	0
cg10861751	RGS1	5996	1.98824	0.047833761	0.249436918	1.3264015	0.57155103	0	0	0	0
cg07181881	KLHL23	151230	1.98817	0.047841383	0.249436918	1.30406442	0.56252521	0	0	0	0
cg11473104	NUDT15	55270	1.98806	0.047853267	0.249436918	1.31232185	0.56620613	0	0	0	0
cg15703690	IL6	3569	1.98804	0.047856388	0.249436918	1.32969883	0.5699879	0	0	0	0
cg09600520	CDYL	9425	-1.988	0.047860573	0.249436918	0.76083777	0.57714804	0	0	1	1
cg24448231	ZNFX1	57169	1.98792	0.047869066	0.249436918	1.32270363	0.56408834	0	1	0	0
cg19393233	ERV3	2086	-1.9878	0.047882707	0.249436918	0.75010553	0.56817265	0	0	0	0
cg21111868	EGR4	1961	1.98779	0.047884102	0.249436918	1.31069549	0.57109722	1	0	0	0
cg17729667	KIAA0980	22981	1.98778	0.047884373	0.249436918	1.31121161	0.56716418	1	0	0	0
cg01404615	DKK2	27123	1.98775	0.047888762	0.249436918	1.30708393	0.58612344	1	0	0	0
cg11373746	ALDH9A1	223	1.98773	0.047890491	0.249436918	1.31179747	0.56756757	0	0	0	0
cg12547930	WFDC6	140870	-1.98773	0.047890942	0.249436918	0.76217342	0.56353368	0	0	0	0
cg25172835	PUNC	9543	-1.98767	0.047897076	0.249436918	0.75899555	0.57467729	0	0	0	0
cg26062370	MGC18079	146395	1.98724	0.047945489	0.249621063	1.32296372	0.57921541	0	0	0	0
cg01770400	SERPINC1	462	-1.9868	0.047993754	0.249804336	0.76035527	0.56751714	0	0	1	1
cg06777581	RNF8	9025	1.98667	0.048008962	0.249815496	1.31867754	0.58602259	0	0	0	0
cg22153873	BCL11A	53335	1.98654	0.048023521	0.249816266	1.29555036	0.56746672	0	0	1	1
cg19157971	RAB1F	5877	1.98634	0.048045585	0.249816266	1.31203879	0.57145018	0	0	0	0
cg18129786	ZNF445	353274	-1.98631	0.048048301	0.249816266	0.74995846	0.56802138	0	0	0	0
cg10833014	HSP90AA1	3320	-1.98606	0.048076322	0.249870961	0.76719295	0.56504639	0	0	0	0
cg21596858	DCST2	127579	-1.98595	0.048088749	0.249870961	0.75490217	0.56333199	0	0	0	0
cg13652556	SEPI1	51734	1.98587	0.048098021	0.249870961	1.31971234	0.55551634	0	0	0	0
cg11593656	COMMD6	170622	1.98568	0.048118682	0.249910408	1.31417807	0.57492941	0	0	0	0
cg01065920	NDUFA12	55967	1.98521	0.048171763	0.249993651	1.30594724	0.57492941	0	1	0	0
cg06488678	TMPRSS9	360200	-1.98516	0.048177451	0.249993651	0.76252497	0.55985276	0	0	0	0
cg08493463	ENPP6	133121	1.98509	0.048185185	0.249993651	1.30647503	0.57558491	0	0	0	0
cg16777839	PHPT1	29085	1.98507	0.048187002	0.249993651	1.30797054	0.57654296	0	0	0	0

cg24997562	OASL	8638	1.98468	0.048231444	0.250150201	1.31590549	0.57916499	1	0	0	0	0
cg18632102	CNOT8	9337	1.98457	0.04824334	0.250150201	1.29740355	0.55541549	0	1	0	0	0
cg01934797	GLIS2	84662	-1.98441	0.048261528	0.250176676	0.76466141	0.55259177	0	0	0	0	0
cg21480743	PTEN	5728	1.98397	0.048311277	0.25029086	1.30321999	0.56933239	0	0	0	1	0
cg06590610	ZNFN1A1	10320	-1.98383	0.048326	0.25029086	0.76183151	0.60084712	0	0	0	0	0
cg14030083	CDR2L	30850	1.98377	0.048332889	0.25029086	1.3106694	0.56701291	0	0	0	0	0
cg16886259	CYSLTR2	57105	-1.98363	0.048348632	0.25029086	0.76141651	0.58350141	0	0	0	1	0
cg01471384	DKK2	27123	1.98363	0.048348998	0.25029086	1.30622614	0.58783784	1	0	0	0	0
cg22315542	MLR1	254251	1.98347	0.048367239	0.250317527	1.32550421	0.57775313	1	0	0	0	0
cg00069261	CDR2	1039	1.9832	0.048397206	0.250404848	1.31522474	0.5657019	0	0	0	0	0
cg11323230	AMFR	267	-1.98295	0.048425544	0.250425536	0.75043366	0.55748286	0	0	0	0	0
cg21643860	RBM21	64852	1.98293	0.048427396	0.250425536	1.30889642	0.56681121	0	0	0	0	0
cg27015931	MGC50721	255762	1.98269	0.048454038	0.250468282	1.29973406	0.57497983	0	0	0	0	0
cg15269875	H19	283120	-1.98259	0.048465641	0.250468282	0.76375955	0.54865873	0	0	0	0	0
cg00415978	SYNPO2	171024	1.98251	0.048474956	0.250468282	1.32037942	0.56600444	0	0	0	0	0
cg11500797	DLX5	1749	1.98222	0.04850692	0.250565741	1.32095746	0.57139976	1	0	0	0	0
cg01657380	NPFF	8620	-1.98181	0.048553587	0.250739068	0.75970427	0.5594998	0	0	0	0	0
cg08519905	CD9	928	1.98156	0.048581449	0.250788303	1.31386968	0.55294474	0	0	0	0	0
cg08062469	SPAG5	10615	1.98138	0.048601938	0.250788303	1.30418954	0.56706333	0	0	1	0	0
cg18644592	PLGLB2	5342	-1.98126	0.048615099	0.250788303	0.75507954	0.55904599	0	0	0	0	0
cg00433406	FLJ32784	127731	-1.98116	0.048626488	0.250788303	0.76562662	0.55859217	0	0	0	0	0
cg27056145	ATG7	10533	-1.98114	0.048628693	0.250788303	0.76104013	0.5680718	0	0	0	0	0
cg11313124	WIG1	64393	1.98073	0.048675006	0.250952721	1.30243255	0.57321501	0	0	0	0	0
cg21787206	PSMD9	5715	1.98053	0.048697929	0.250952721	1.30654439	0.57503025	0	0	1	0	0
cg25957124	DNAH3	55567	1.98051	0.048699944	0.250952721	1.30277061	0.5796188	0	0	0	0	0
cg22796458	UBQLN4	56893	-1.98027	0.048726887	0.251023914	0.75844823	0.5655002	0	0	1	0	0
cg09722397	GRIN2C	2905	1.98013	0.04874305	0.251039554	1.30924242	0.56580274	0	0	0	0	0
cg22854546	WDR33	55339	1.97971	0.048790825	0.251168702	1.30522436	0.55097822	0	0	0	0	0
cg10124201	BOLL	66037	-1.97968	0.048794395	0.251168702	0.76823742	0.58067769	0	0	0	0	0
cg04444771	C10orf10	11067	1.9795	0.048814577	0.251197865	1.31527526	0.56444131	0	0	0	0	0
cg15210999	DTNBP1	84062	-1.97929	0.048838635	0.251197865	0.77171197	0.5532977	0	0	0	0	0
cg25996835	BBS4	585	1.97926	0.048841459	0.251197865	1.31100555	0.57992134	0	0	0	0	0
cg21615171	SLC22A13	9390	-1.97909	0.04886042	0.251197865	0.75937625	0.56600444	0	0	0	0	0
cg27207274	MYC	4609	1.97905	0.04886574	0.251197865	1.30001285	0.57412263	0	0	0	1	0
cg25103286	NT5DC2	64943	-1.97883	0.048889953	0.251254789	0.76364015	0.56605486	0	0	0	0	0
cg08935243	CETN3	1070	1.97864	0.048912261	0.251301902	1.29558157	0.57346712	0	0	1	0	0
cg02284188	TRIM49	57093	-1.978	0.048984969	0.251515218	0.7596552	0.55420533	0	0	0	0	0
cg22721186	ATAD2	29028	-1.97785	0.049001321	0.251515218	0.76045156	0.56242437	0	0	1	0	0
cg09390792	TSPAN18	90139	-1.97764	0.049025048	0.251515218	0.74900883	0.56181928	0	0	0	0	0
cg07607462	UBR1	197131	1.97763	0.049026505	0.251515218	1.30883814	0.57729931	0	1	0	0	1
cg25802424	IRS2	8660	-1.97755	0.049035771	0.251515218	0.7582201	0.54679306	0	0	0	0	0
cg04943986	NR2F2	7026	1.97754	0.049036969	0.251515218	1.29867483	0.56842477	1	0	0	0	1

cg23310538	PLEKHA9	51054	-1.97746	0.049045848	0.251515218	0.76812732	0.55718032	0	0	0	0
cg04940515	RABGGTB	5876	1.97702	0.049095757	0.251636458	1.31212304	0.57129891	0	0	0	0
cg04439215	KCTD4	386618	-1.97702	0.049095808	0.251636458	0.75622031	0.57659338	0	0	1	0
cg08507270	TAS2R8	50836	-1.97672	0.049129865	0.251743542	0.76097844	0.57276119	0	0	0	0
cg12385643	UGT1A6	54578	1.97639	0.04916768	0.251755709	1.31045443	0.56015531	0	0	0	0
cg04719766	KCNQ1	3784	-1.97638	0.049168648	0.251755709	0.76316059	0.56519766	1	0	0	0
cg07376535	ADCYAP1	116	1.97635	0.049171735	0.251755709	1.29919144	0.58450988	1	0	0	0
cg12724466	ASB11	140456	-1.97611	0.049198998	0.251808066	0.77116861	0.5524405	0	0	0	0
cg19532954	ID3	3399	1.97602	0.049209301	0.251808066	1.31093747	0.5742739	0	0	1	0
cg10704923	HIST1H1T	3010	-1.97592	0.049221465	0.251808066	0.75605677	0.56020573	0	0	0	0
cg16648297	ZNF576	79177	-1.97569	0.04924732	0.251828588	0.76694065	0.55400363	0	0	0	0
cg23278885	TGM6	343641	-1.97565	0.049251814	0.251828588	0.76039026	0.57472771	0	0	0	0
cg20713492	AQP10	89872	1.97517	0.049306467	0.251976106	1.30340889	0.56474385	0	0	0	0
cg25248094	SH2D1A	4068	-1.9751	0.049314447	0.251976106	0.76644992	0.55299516	0	0	0	0
cg07598199	MYO22	51778	-1.97476	0.049352927	0.251976106	0.76624873	0.5532977	0	0	1	0
cg12213457	CHPT1	56994	1.97396	0.049444572	0.251976106	1.30730598	0.56600444	0	0	0	0
cg20802051	AK3L1	205	-1.97391	0.049450635	0.251976106	0.76095223	0.55707947	0	1	0	0
cg26354238	RQCD1	9125	1.97378	0.049465609	0.251976106	1.32498507	0.56615571	0	0	0	0
cg02457752	CDR1	1038	-1.97377	0.049466604	0.251976106	0.75298233	0.56111335	0	0	0	0
cg08831594	TSPAN15	23555	1.97371	0.049473434	0.251976106	1.30734422	0.55788624	0	0	0	0
cg09260089	NKX6-2	84504	-1.97367	0.049478562	0.251976106	0.7616518	0.58425777	1	0	0	0
cg06062132	SENP6	26054	1.97366	0.049479465	0.251976106	1.32436599	0.5734167	0	0	1	0
cg24739326	CHST8	64377	1.97363	0.049482007	0.251976106	1.30622905	0.57099637	1	0	1	0
cg09060914	SELP	6403	-1.97359	0.04948687	0.251976106	0.75933129	0.55254135	0	0	0	0
cg17460846	COX15	1355	1.97342	0.049506143	0.251976106	1.33397732	0.56736587	0	0	0	0
cg10466917	TRY1	136541	-1.97339	0.04950982	0.251976106	0.76096688	0.56262606	0	0	0	0
cg11212609	DULLARD	23399	1.97339	0.049510217	0.251976106	1.30603301	0.58859419	0	0	0	0
cg24734575	SLC7A9	11136	-1.97325	0.049526184	0.251976106	0.75293505	0.57155103	0	0	1	0
cg10078829	KLK4	9622	-1.97321	0.049530974	0.251976106	0.77393781	0.55803752	1	0	0	0
cg20241335	NUPL1	9818	1.97316	0.049536712	0.251976106	1.30522894	0.56539936	0	0	0	0
cg11032157	TAS2R50	259296	-1.97295	0.049560409	0.251976106	0.76651251	0.55516337	0	0	0	0
cg14817143	TTPA	7274	1.97284	0.049573555	0.251976106	1.31810655	0.55793667	1	0	0	0
cg13112511	PDE4D	5144	-1.97283	0.049574063	0.251976106	0.75731779	0.54714603	0	0	1	0
cg18003231	SLC25A18	83733	-1.9727	0.049589305	0.251976106	0.7630279	0.56706333	0	0	0	0
cg23863670	CCL28	56477	-1.97251	0.04961119	0.251976106	0.76324437	0.56751714	0	0	0	0
cg05521696	SLC2A14	144195	1.97237	0.049627261	0.251976106	1.30494108	0.59595603	0	0	0	0
cg22220722	PLA2G2A	5320	-1.97228	0.049637277	0.251976106	0.76484338	0.57538322	0	0	0	0
cg24901474	RG5	8490	-1.97219	0.049648193	0.251976106	0.76834049	0.57331585	0	0	0	0
cg25383242	CNTNAP4	85445	-1.972	0.049668991	0.251976106	0.76982165	0.57538322	0	0	0	0
cg15677344	ADH1A	124	-1.97191	0.049679977	0.251976106	0.76533153	0.56212182	0	0	0	0
cg16421285	SAE1	10055	1.97189	0.049681546	0.251976106	1.3021728	0.55914683	0	0	0	0
cg04167054	ATP2C1	27032	1.9718	0.049692068	0.251976106	1.3155188	0.58511497	0	0	0	0

cg23513690	SH3RF2	153769	1.9717	0.049703771	0.251976106	1.31528211	0.58708148	0	0	0	0
cg14076411	RNGTT	8732	1.97163	0.049711747	0.251976106	1.31505092	0.56313029	0	0	0	0
cg21068152	SIRT4	23409	1.9716	0.049715726	0.251976106	1.30980645	0.57740016	0	0	0	0
cg21263122	SSTR1	6751	1.97119	0.049762225	0.251976106	1.31386157	0.57260992	1	1	0	0
cg19318326	KIAA1919	91749	1.9711	0.049772935	0.251976106	1.31344514	0.55551634	0	0	0	0
cg01526089	P2RX1	5023	1.97096	0.049789415	0.251976106	1.32258357	0.57563534	0	0	0	0
cg12941931	SEMA6B	10501	1.97087	0.04979928	0.251976106	1.31665278	0.56489512	0	0	0	0
cg12406460	ATP5L	10632	1.97082	0.049804736	0.251976106	1.30638598	0.56963493	0	0	0	0
cg02828104	Kua	387521	1.9708	0.049807067	0.251976106	1.31264898	0.58423777	0	0	0	0
cg22617367	NKRF	55922	-1.9708	0.049807731	0.251976106	0.76482741	0.56070996	0	0	0	0
cg07757386	RAGE	5891	1.97053	0.049838867	0.252066938	1.30820833	0.56706333	0	0	0	0
cg19844287	MOCS2	4338	1.97018	0.049878778	0.252119204	1.30495949	0.56055869	0	0	0	0
cg12459502	BCL2	596	1.96996	0.049904526	0.252119204	1.31281865	0.56186971	1	0	0	0
cg16492735	PEG10	23089	-1.96992	0.049908803	0.252119204	0.76216493	0.56529851	0	0	0	0
cg07112210	MGAT5B	146664	-1.96976	0.049927578	0.252119204	0.76296717	0.575558491	1	0	0	0
cg13927251	FLT4	2324	1.96968	0.049936971	0.252119204	1.31289248	0.56575232	0	0	0	0
cg25371088	MRPL24	79590	1.96962	0.049943633	0.252119204	1.30582147	0.57235781	0	0	0	0
cg02266731	CPM	1368	1.96955	0.049951844	0.252119204	1.30621397	0.56388665	1	0	0	0
cg15804118	DPM3	54344	1.96952	0.049954674	0.252119204	1.30324068	0.56040742	0	1	0	0
cg03533858	MORN1	79906	-1.96899	0.050016689	0.25233615	0.75474342	0.56449173	0	0	0	0
cg25095814	CASP8	841	1.96888	0.050029076	0.25233615	1.32486772	0.55985276	0	0	0	0
cg25118574	PSMB7	5695	1.96873	0.050046589	0.252383264	1.31660783	0.55763413	0	0	0	0
cg06926735	UBE2V1	7335	1.96833	0.050092556	0.252413802	1.30585532	0.56686164	0	0	0	0
cg05657520	OPTC	26254	-1.96823	0.050104602	0.252413802	0.75941834	0.55728116	0	0	0	0
cg22699062	HSP90B1	7184	1.96794	0.050138084	0.252413802	1.30591227	0.58098023	0	0	0	0
cg10221736	TICAM1	148022	1.96791	0.050141002	0.252413802	1.30373544	0.58481242	0	0	0	0
cg03143365	MAN2B1	4125	1.96787	0.050145826	0.252413802	1.30678423	0.55107906	0	0	0	0
cg11113534	C20orf70	140683	-1.96778	0.050155933	0.252413802	0.76161191	0.56081081	0	0	0	0
cg26745032	REPS2	9185	-1.96778	0.050156422	0.252413802	0.7556316	0.55571803	1	1	0	1
cg18534730	CABP5	56344	1.96769	0.050166715	0.252413802	1.29493188	0.56408834	0	0	0	0
cg05587474	MOV10	4343	1.96753	0.050184752	0.252413802	1.30976175	0.56444131	0	0	0	0
cg22373097	KRTAP21-1	337977	-1.96746	0.050193712	0.252413802	0.76163145	0.5725595	0	0	0	0
cg09279263	TADA3L	10474	1.96742	0.050197839	0.252413802	1.31005354	0.55828963	0	0	0	0
cg22674717	SALL1	6299	1.96708	0.050236906	0.252526111	1.29745891	0.55153288	0	0	1	1
cg26035366	LRRC3B	116135	1.9669	0.050258611	0.252526111	1.30399477	0.54563332	1	0	0	0
cg08822227	SH3BP2	6452	-1.96688	0.05025987	0.252526111	0.76619152	0.57709762	0	0	0	0
cg14154330	ARHGAP27	201176	-1.96675	0.050275761	0.252526111	0.76047489	0.56630698	0	0	0	0
cg04513728	PPP1R10	5514	1.96663	0.050289627	0.252526111	1.31459437	0.54800323	1	0	0	0
cg16075384	FLJ10099	55069	1.96631	0.050326126	0.252526111	1.30892917	0.59373739	0	0	0	0
cg24608774	STEAP1	26872	1.96628	0.050329497	0.252526111	1.31035685	0.57104679	0	1	0	0
cg10771262	TCF21	6943	1.96622	0.050336775	0.252526111	1.30345819	0.55178499	1	0	0	0
cg02614187	TRIM45	80263	1.966	0.050362585	0.252526111	1.31521382	0.55738201	0	1	0	0

cg12792367	TFR2	7036	1.96597	0.050365863	0.252526111	1.3178533	0	0	0	0	0	0
cg01693157	TUBA1	7277	-1.9659	0.050374732	0.252526111	0.76998811	1	0	0	0	0	0
cg00364814	R3HDM2	22864	-1.96581	0.050385051	0.252526111	0.75873537	0	0	0	0	0	0
cg04217178	ITM2B	9445	1.96575	0.050391845	0.252526111	1.30076495	0	0	0	0	0	0
cg18374517	ALPPL2	251	-1.96522	0.050452878	0.252734143	0.76251703	0	0	0	0	0	0
cg21371335	DNAJC7	7266	1.96516	0.05045979	0.252734143	1.3156461	0	0	0	0	0	0
cg21665774	KIAA0355	9710	-1.96503	0.050474959	0.252743921	0.76635669	0	0	0	0	0	0
cg14289985	ZNF471	57573	1.9647	0.050513761	0.252872	1.30141733	0	0	0	0	0	0
cg22336401	ENTPD8	377841	1.96455	0.050531586	0.252895031	1.31314861	0	0	0	0	0	0
cg27457941	RBP1	5947	1.96398	0.050597894	0.253160624	1.30919636	0	0	0	1	0	0
cg22189618	NAP1L3	4675	1.96368	0.050632263	0.253164846	1.2989171	0	0	0	0	0	0
cg18834029	POLL	27343	-1.96359	0.050643184	0.253164846	0.75296263	0	0	0	1	0	0
cg07005767	ABRA	137735	-1.96347	0.05065689	0.253164846	0.75314133	0	0	0	0	0	0
cg21917349	APBA2	321	-1.96347	0.050657472	0.253164846	0.76200202	0	0	0	0	0	0
cg06468695	CCDC42	146849	-1.9634	0.050664932	0.253164846	0.76745059	0	0	0	0	0	0
cg13296371	TMEM128	85013	1.96322	0.050686033	0.253202744	1.32202102	0	0	0	0	0	0
cg24076830	OR5V1	81696	-1.96311	0.050698998	0.253202744	0.75730191	0	0	0	0	0	0
cg07374637	KRTAP19-5	337972	-1.96288	0.050725642	0.253217558	0.76612377	0	0	0	0	0	0
cg01152019	HOXD4	3233	1.96284	0.050730996	0.253217558	1.30349925	1	0	0	0	1	0
cg17291001	SERPINA13	388007	-1.96275	0.050741688	0.253217558	0.77039549	0	0	0	0	0	0
cg04574507	CD1B	910	-1.96242	0.050779613	0.253309815	0.76025048	0	0	0	0	0	0
cg19230917	C20orf24	55969	-1.96223	0.050801884	0.253309815	0.77256088	0	0	0	0	0	0
cg01693108	SRPK1	6732	1.96205	0.050823296	0.253309815	1.30495524	0	0	0	0	0	0
cg07967308	ACP5	54	1.9617	0.05086479	0.253309815	1.30172274	0	0	0	0	0	0
cg05817232	MARK4	57787	1.96133	0.050907553	0.253309815	1.32038833	0	0	0	0	0	0
cg24914244	RTN4IP1	84816	-1.96108	0.050936668	0.253309815	0.75571866	0	0	0	0	0	0
cg16746462	LNPEP	4012	1.96093	0.05095404	0.253309815	1.32148761	0	0	0	0	1	0
cg14481222	BIRC3	330	1.96088	0.050959958	0.253309815	1.3114467	0	1	0	0	0	0
cg25499017	CIT	11113	1.9608	0.050969287	0.253309815	1.33881543	0	0	0	0	0	0
cg15945754	C6orf204	387119	-1.9607	0.050981756	0.253309815	0.75978296	0	0	0	0	0	0
cg22197787	KCNH1	3756	1.96045	0.051011067	0.253309815	1.30037514	1	0	0	0	0	0
cg06655089	IMPDH2	3615	1.96007	0.051055342	0.253309815	1.30914129	0	0	0	0	1	0
cg15300989	SIP1	8487	1.95998	0.051066129	0.253309815	1.30376617	0	1	0	0	0	0
cg11225935	JARID1A	5927	1.95994	0.051070601	0.253309815	1.29799323	0	0	0	0	0	0
cg09196959	TRIM40	135644	1.95993	0.051072614	0.253309815	1.30805513	0	0	0	0	0	0
cg17342283	PRG1	5552	1.9597	0.051099107	0.253309815	1.30582141	0	0	0	0	0	0
cg13007988	MLL2	8085	-1.95956	0.051115874	0.253309815	0.76806225	0	0	0	0	1	0
cg20394284	JAK2	3717	-1.95938	0.051136945	0.253309815	0.76410167	0	0	0	0	0	0
cg09448875	ABCC2	1244	-1.95916	0.051162152	0.253309815	0.76229959	0	0	0	0	0	0
cg05895453	KBTBD7	84078	1.95915	0.051163426	0.253309815	1.31001898	0	0	0	0	0	0
cg15979098	ZNF615	284370	1.95905	0.051175799	0.253309815	1.30872928	0	0	0	0	0	0
cg02595219	KCNE3	10008	1.95882	0.051202947	0.253309815	1.30038343	0	0	0	0	0	0

cgl17296166	FLJ10781	55228	1.9588	0.051205486	0.253309815	1.30224019	0	0	0
cgl04667458	C1orf128	57095	1.95879	0.051205658	0.253309815	1.30758317	0	0	0
cgl05275752	GALM	130589	1.95873	0.051212918	0.253309815	1.31696025	0	0	0
cgl23110514	LCE3E	353145	-1.95863	0.051225513	0.253309815	0.76805287	0	0	0
cgl26052367	GANC	2595	1.95862	0.051226506	0.253309815	1.31458775	0	0	0
cgl14984307	ACYP1	97	1.95831	0.051263115	0.253309815	1.30827481	1	0	1
cgl11368791	PCFNP6	10471	1.9582	0.051275879	0.253309815	1.29043775	0	0	0
cgl18589624	INMT	11185	1.95814	0.051282917	0.253309815	1.30833651	0	0	0
cgl15760840	H0XA11	3207	1.95809	0.05128916	0.253309815	1.29504776	0	0	1
cgl02153871	HARSL	23438	1.95803	0.051296444	0.253309815	1.30408301	0	0	0
cgl08256781	ACSBG2	81616	-1.95802	0.051296746	0.253309815	0.77010222	0	0	0
cgl02691091	SP2	6668	-1.95798	0.051301715	0.253309815	0.75981804	0	0	1
cgl15470750	FDP5	2224	1.95791	0.051310062	0.253309815	1.30410519	0	0	1
cgl07534467	ZNF16	7564	1.9579	0.051310721	0.253309815	1.3070068	0	0	0
cgl00807586	DLEC1	9940	1.9577	0.051335013	0.253309815	1.30729926	0	0	0
cgl04270788	GTF2B	2959	1.95755	0.051352214	0.253309815	1.30866565	0	0	0
cgl10979891	SMOC1	64093	1.95729	0.051383434	0.253309815	1.29805424	0	0	0
cgl02498063	CCDC60	160777	1.95724	0.051389373	0.253309815	1.31240016	0	0	0
cgl14611112	LCN6	158062	1.95718	0.051395834	0.253309815	1.30199781	0	0	0
cgl04784672	LRFN5	145581	1.95698	0.051419548	0.253309815	1.30016936	1	0	0
cgl22478614	DEFB4	1673	-1.9569	0.051429657	0.253309815	0.77163905	0	0	0
cgl10521267	ZNF684	127396	1.95686	0.051434285	0.253309815	1.31291229	0	0	1
cgl24816866	PARK2	5071	-1.95677	0.051444638	0.253309815	0.75976974	0	0	0
cgl25095612	NFKB2	4791	1.95676	0.051446297	0.253309815	1.31981243	0	0	0
cgl08431931	MGC26816	164684	1.95671	0.051451365	0.253309815	1.30748804	0	0	0
cgl19305227	SLC28A2	9153	-1.95661	0.05146106	0.253309815	0.76376954	0	0	0
cgl09405612	GLI3	2737	1.95659	0.051465887	0.253309815	1.31481214	0	0	0
cgl03277112	CRSP3	9439	1.95658	0.051467474	0.253309815	1.31406927	0	0	1
cgl06479216	IFNA16	3449	-1.95657	0.051468105	0.253309815	0.77255594	0	0	0
cgl01425670	NEGR1	257194	1.95651	0.051475519	0.253309815	1.30856495	1	0	0
cgl15830940	SMARCA11	50485	-1.95646	0.051480857	0.253309815	0.76215765	0	0	0
cgl15357639	OGG1	4968	-1.95642	0.051485597	0.253309815	0.76355236	0	1	0
cgl23147597	CEACAM19	56971	-1.95622	0.051510143	0.253309815	0.76430153	0	0	0
cgl018336044	PCDH20	64881	1.95618	0.051515051	0.253309815	1.30190372	0	0	0
cgl03406535	RBP7	116362	1.95606	0.051528661	0.253309815	1.30469265	1	0	0
cgl09034836	POM121L1P	25812	1.956	0.05153562	0.253309815	1.30720209	0	0	0
cgl09772154	FGFR2	2263	1.95595	0.051541713	0.253309815	1.29760657	0	0	1
cgl20312475	GPRC5B	51704	1.95564	0.051577994	0.253422995	1.32109549	0	0	1
cgl10763059	PTPN12	5782	1.95506	0.051647296	0.2535601	1.3207792	0	1	0
cgl16169604	GPR148	344561	1.95493	0.051662613	0.2535601	1.29949596	0	0	0
cgl11114344	C17orf45	125144	1.95476	0.051683444	0.2535601	1.30751405	0	0	0
cgl20002248	ACN9	57001	1.95465	0.051695751	0.2535601	1.30283133	0	0	1

cg26124016	RARB	5915	1.94204	0.053212377	0.255552	1.29681375	0.57487898	0	0	1	1	1
cg00206052	RP11-	25911	1.94199	0.053218264	0.255552	1.31182591	0.57558491	0	0	0	1	0
cg08124030	TM4SF1	4071	-1.94188	0.053231311	0.255552	0.76344821	0.56973578	0	0	0	0	0
cg07177852	CCDC68	80323	1.94181	0.053240756	0.255552	1.29510541	0.5672146	0	0	0	0	0
cg18493147	C19orf19	284451	1.94156	0.053270824	0.255559783	1.30063074	0.54336426	0	0	0	0	0
cg00631230	VPS33A	65082	1.94122	0.053312677	0.255559783	1.30492714	0.55082695	0	0	0	0	0
cg19370284	ZNF38	7589	-1.94117	0.053318802	0.255559783	0.768333	0.57109722	0	0	0	0	0
cg11538128	ZNF354C	30832	1.94094	0.053345684	0.255559783	1.30086779	0.56302945	0	0	0	0	0
cg17978274	C15orf32	145858	-1.94093	0.053347284	0.255559783	0.76246044	0.57003832	0	0	0	0	0
cg04946916	HUS1B	135458	1.94088	0.053353827	0.255559783	1.31463156	0.55707947	0	0	0	0	0
cg22691736	MTRF1	9617	1.94081	0.05336185	0.255559783	1.31195664	0.56318072	0	1	0	0	0
cg12163132	TBX2	6909	-1.94048	0.05340199	0.255559783	0.76877334	0.55344897	1	0	0	0	0
cg19496782	GATA6	2627	1.94047	0.053403036	0.255559783	1.29776228	0.57755143	1	1	0	1	0
cg05000446	MGC41945	138724	1.94046	0.053404947	0.255559783	1.30917112	0.56605486	0	0	0	0	0
cg13745346	CBFA2T3	863	1.94037	0.053416129	0.255559783	1.29594358	0.57008875	0	0	0	0	1
cg19392109	FLJ39531	400360	-1.94023	0.053433153	0.255559783	0.76263299	0.57039129	0	0	0	0	0
cg02962299	KIN	22944	-1.94021	0.05343572	0.255559783	0.76719241	0.5680718	0	0	0	0	0
cg18661868	FES	2242	1.94008	0.053451672	0.255559783	1.29381119	0.56918112	0	0	0	0	0
cg20727362	CYB5R3	1727	-1.94006	0.053454197	0.255559783	0.76211885	0.55743243	0	0	0	0	0
cg17850880	RNF6	6049	1.94004	0.053456202	0.255559783	1.29771149	0.55813836	0	0	0	0	0
cg09479015	KIRREL2	84063	1.93967	0.053501477	0.255692446	1.30165152	0.55289431	0	0	0	0	0
cg00178790	C18orf19	125228	1.93956	0.05351444	0.255692446	1.30610559	0.56348326	0	0	0	0	0
cg13430851	C10orf7	8872	1.93928	0.053548505	0.255692446	1.30682476	0.56504639	0	0	0	1	0
cg11695358	MAPK15	225689	-1.93919	0.053560306	0.255692446	0.76175948	0.56186971	0	0	0	0	0
cg10720654	PTENP1	11191	1.93916	0.05356373	0.255692446	1.30094716	0.5639875	0	0	0	0	0
cg00155167	VPS13B	157680	1.93895	0.053589403	0.255692446	1.31841532	0.57649254	0	1	0	0	0
cg22369818	GABPB2	2553	1.93892	0.053592953	0.255692446	1.30188739	0.56908027	0	0	0	0	0
cg15538820	OBP2B	29989	-1.93886	0.053601039	0.255692446	0.76933447	0.57669423	0	0	0	0	0
cg03958426	MAPKAPK2	9261	1.93883	0.053604291	0.255692446	1.30574794	0.56771884	0	0	0	0	0
cg05313261	MAPK3	5595	1.93863	0.053628988	0.255715353	1.30038259	0.56081081	0	0	0	0	1
cg20757912	SSBP2	23635	1.93857	0.053635837	0.255715353	1.31212394	0.56958451	0	0	0	1	1
cg15623573	APBA1	320	1.93841	0.053655923	0.255747352	1.301181	0.58430819	1	0	0	0	1
cg01733599	LIPC	3990	-1.93819	0.05368269	0.255804125	0.76531305	0.58511497	0	0	0	0	0
cg19724470	CD274	29126	1.93809	0.053694587	0.255804125	1.29883424	0.55632311	0	0	0	0	0
cg27592112	GABRG3	2567	-1.93775	0.05373682	0.25594156	0.76609963	0.55309601	1	0	0	0	0
cg12811135	FLJ25369	200523	-1.93748	0.053769084	0.256031463	0.76303587	0.57412263	0	0	0	0	0
cg11177404	CLB2	114336	1.93715	0.053809985	0.256136938	1.29626114	0.56555063	0	0	0	0	0
cg20550520	ARHGAP5	394	1.93703	0.053824815	0.256136938	1.30653931	0.57225696	0	0	0	0	0
cg07745725	PSG3	5671	-1.93698	0.053831418	0.256136938	0.76033098	0.58440904	0	0	0	0	0
cg12058490	A2M	2	-1.93686	0.053846337	0.25614419	0.76865907	0.58662767	0	0	0	0	0
cg02989257	COL16A1	1307	1.93661	0.053876123	0.256217599	1.3071044	0.5368092	0	0	0	0	0

cg25374813	SLC23A1	9963	1.93647	0.053893175	0.256217599	1.30471186	0.58012303	0	0	0
cg06871974	TNS3	64759	-1.9364	0.053901964	0.256217599	0.77122363	0.58057685	0	0	0
cg13315690	OVCA2	124641	1.93579	0.053977039	0.256505881	1.30033633	0.57003832	0	0	0
cg23123362	ICF45	54974	1.93569	0.053989438	0.256505881	1.30400933	0.57124849	0	0	0
cg01400401	C19orf30	284424	1.93543	0.054021545	0.25659467	1.31041671	0.57074425	0	0	0
cg15169162	RDS	5961	-1.93516	0.054054705	0.256671336	0.76669954	0.5507261	0	0	0
cg22386774	CRYGA	1418	-1.93499	0.054075682	0.256671336	0.76447343	0.57190399	0	0	0
cg13114389	ENTPD7	57089	1.93497	0.054077952	0.256671336	1.29684173	0.56872731	0	0	0
cg01425405	DLX3	1747	1.93483	0.054096217	0.256694314	1.29204845	0.55924768	1	0	0
cg02393447	C15orf20	80119	1.93469	0.054113673	0.256713447	1.28762224	0.55743243	0	0	0
cg23693510	ELAVL2	1993	1.93396	0.05420387	0.257032508	1.31063629	0.58057685	1	0	1
cg13468685	PLEK	5341	1.93391	0.054209655	0.257032508	1.3036183	0.57669423	0	0	0
cg17397493	PRLR	5618	-1.93381	0.054221252	0.257032508	0.77171418	0.57911456	0	0	0
cg15557833	MGC33302	256471	1.93359	0.05424939	0.25710216	1.29205356	0.56151674	0	0	0
cg24176037	TBPL1	9519	1.93318	0.054299596	0.257156074	1.30932327	0.57535801	0	1	0
cg02351381	C12orf34	84915	1.93318	0.054299863	0.257156074	1.28466174	0.57896329	0	0	0
cg03132911	IQGAP2	10788	1.93317	0.054301109	0.257156074	1.29944288	0.56202098	0	0	0
cg18508125	FBXO16	157574	1.93286	0.054339681	0.25724209	1.30483175	0.58128278	0	0	0
cg16940108	CANX	821	1.93268	0.054362002	0.25724209	1.31835793	0.55667608	0	0	0
cg22467567	IGFBP5	3488	1.93267	0.054363463	0.25724209	1.30364829	0.55627269	1	0	0
cg12591323	SMARCAL1	50485	-1.93251	0.054383307	0.25724209	0.7605673	0.56489512	0	0	0
cg13372488	KCNT2	343450	1.93221	0.054419922	0.25724209	1.31068299	0.56787011	0	0	0
cg16777782	CDH13	1012	-1.93218	0.054423865	0.25724209	0.7659038	0.54059096	1	0	0
cg25852715	OSBPL5	114879	-1.93217	0.054424925	0.25724209	0.7705018	0.56181928	0	0	0
cg04964702	CBL	867	1.93215	0.054426888	0.25724209	1.28989896	0.56297902	0	0	0
cg26276530	CMAS	55907	1.93185	0.054465022	0.25730572	1.29759382	0.56650867	0	0	0
cg10846410	HSPA2	3306	-1.93163	0.054491648	0.25730572	0.77366244	0.56706333	0	0	0
cg17630127	MS4A5	64232	-1.9315	0.054508083	0.25730572	0.76084772	0.53585115	0	0	0
cg17741106	RDH14	57665	1.93147	0.054512374	0.25730572	1.30318139	0.5759883	0	0	0
cg24866437	ALPK1	80216	-1.9314	0.054520554	0.25730572	0.76979087	0.57099637	0	0	0
cg15310162	CLDN14	23562	-1.9314	0.054521083	0.25730572	0.77166012	0.56423961	0	1	0
cg16019273	EIF2C4	192670	-1.93074	0.054602345	0.2573293	0.77466961	0.55874345	0	1	0
cg06533629	KLF14	136259	1.93074	0.054602783	0.2573293	1.30572883	0.57301331	1	0	0
cg21042619	EED	8726	1.93069	0.054608758	0.2573293	1.31500719	0.56509681	0	0	0
cg20584011	ZDHC11	79844	-1.93069	0.054609041	0.2573293	0.76914998	0.56761799	0	0	0
cg18843688	NUFIP1	26747	1.93068	0.054610069	0.2573293	1.29756781	0.56494554	0	0	0
cg10546523	SEMA3B	7869	1.93067	0.054610791	0.2573293	1.30123334	0.54356595	1	0	0
cg04616566	THSD4	79875	-1.93039	0.054646303	0.2573293	0.76866261	0.59202299	0	0	0
cg23113963	SCNN1B	6338	1.93038	0.05464688	0.2573293	1.29583761	0.55657523	0	0	0
cg18806980	KIAA0703	9914	-1.93038	0.054647189	0.2573293	0.77215552	0.5550121	0	0	0
cg01515887	SAA2	6289	-1.93001	0.054693966	0.257447896	0.76168072	0.560357	0	0	0
cg09469394	PEX13	5194	1.92996	0.0546993	0.257447896	1.30487335	0.56897943	0	1	0

55746	1.9229	0.055584358	0.258847727	1.29366904	0.56131505	0	0	0	0
23236	1.92284	0.055592302	0.258847727	1.29221617	0.56237394	1	0	0	1
2701	1.92261	0.055620856	0.258856625	1.30510319	0.57734974	0	0	0	0
56906	1.92256	0.055627282	0.258856625	1.29455027	0.57018959	0	0	0	0
9937	1.9225	0.055634822	0.258856625	1.29002214	0.55995361	0	0	0	0
138162	1.92187	0.055715437	0.258917874	1.30626724	0.56595401	0	0	0	0
5157	1.92185	0.055717573	0.258917874	1.30643807	0.55854175	0	0	0	0
3141	-1.92161	0.055747684	0.258917874	0.77199329	0.56383622	0	0	0	0
2113	1.9216	0.055749385	0.258917874	1.30108647	0.56444131	0	0	0	0
27202	1.92148	0.05576386	0.258917874	1.3036936	0.55960065	0	0	0	0
116985	1.92147	0.055765339	0.258917874	1.28094944	0.55894514	0	0	0	0
7348	-1.92135	0.055780661	0.258917874	0.7699288	0.55017144	0	0	0	0
1193	1.92132	0.055784699	0.258917874	1.2915409	0.57376967	0	0	0	0
383	-1.92113	0.055808513	0.258917874	0.7690507	0.56141589	0	0	0	0
23626	1.92113	0.055808517	0.258917874	1.30826594	0.56474385	0	0	0	0
79828	1.92109	0.055813815	0.258917874	1.29074331	0.55657523	0	0	1	0
64396	-1.92095	0.055831271	0.258917874	0.7542099	0.55168415	0	0	0	0
861	1.92095	0.055831734	0.258917874	1.31866524	0.57346712	0	0	0	1
1635	1.92084	0.055844965	0.258917874	1.30186833	0.58556878	0	0	0	0
2195	1.92076	0.055855531	0.258917874	1.29276463	0.58783784	0	0	0	1
54360	1.92069	0.055864621	0.258917874	1.31562945	0.5892497	0	0	0	0
27293	1.92018	0.055929069	0.259123598	1.30119226	0.56660952	0	0	0	0
3120	-1.92008	0.055941595	0.259123598	0.77623953	0.56141589	0	0	0	0
2625	1.92002	0.055949659	0.259123598	1.29868174	0.58294675	1	0	0	0
84303	1.9198	0.055976904	0.259181389	1.28761279	0.57432432	0	0	0	0
26013	-1.91971	0.055989244	0.259181389	0.77407718	0.54936466	0	1	0	0
5271	-1.91953	0.056011776	0.259222399	0.7638509	0.54744857	0	0	0	0
54716	1.91936	0.056033477	0.259260629	1.30056976	0.56313029	1	0	0	0
56884	1.9187	0.05611707	0.259584596	1.29911009	0.55682735	0	0	0	0
164091	1.91857	0.05613364	0.259598447	1.29710056	0.55430617	0	0	0	0
734	1.91846	0.056147301	0.259598844	1.29407785	0.57573618	0	0	0	0
10914	1.91833	0.056164618	0.259615644	1.31235291	0.58213998	1	0	0	0
57178	-1.91818	0.056182897	0.259615644	0.76675699	0.56524808	0	0	0	0
3055	1.91795	0.056213137	0.259615644	1.29960476	0.57190399	0	0	0	0
91694	-1.91791	0.056217203	0.259615644	0.77099078	0.55617184	0	0	0	0
283120	-1.9179	0.056218815	0.259615644	0.76147081	0.55183542	0	0	0	0
4851	-1.91776	0.056237375	0.259638173	0.76788946	0.55803752	0	0	0	1
23421	1.91765	0.056250848	0.259638173	1.29191979	0.57306374	0	0	0	0
10745	1.91732	0.056292832	0.259711268	1.30116991	0.55218838	0	0	0	0
10859	-1.91731	0.056293847	0.259711268	0.76373067	0.56373538	0	0	0	0
378884	1.91716	0.056314029	0.25971584	1.29297695	0.57013917	0	0	0	0
10141	-1.91709	0.056322	0.25971584	0.77216137	0.56494554	0	0	0	0

cg12194493	PIGG	54872	1.91673	0.056368142	0.259771508	1.28837143	0	0	0	0	0	0
cg08665772	KCNJ9	3765	1.91666	0.056377813	0.259771508	1.29662976	1	0	0	0	0	0
cg25418748	RUFY1	80230	1.91662	0.056382569	0.259771508	1.30040569	0	0	0	0	0	0
cg20865068	TM9SF2	9375	1.91639	0.05641148	0.259771508	1.29944889	0	0	0	0	0	0
cg03289872	ZNF667	63934	1.91636	0.056415268	0.259771508	1.29649568	0	0	0	0	0	0
cg22552966	FLJ31196	146802	-1.91632	0.056420267	0.259771508	0.77384246	0	0	0	0	0	0
cg11297236	PDILT	204474	-1.91625	0.056429163	0.259771508	0.76518654	0	0	0	0	0	0
cg08428707	CHMP4B	128866	1.91604	0.056457035	0.259826994	1.30030416	0	0	0	0	0	0
cg01873645	C9orf85	138241	1.91595	0.05646839	0.259826994	1.2917732	0	0	0	0	1	1
cg07395788	PDSS2	57107	1.9154	0.056538368	0.260024743	1.30746811	0	0	0	0	0	0
cg06691299	PCTK1	5127	-1.9154	0.056538562	0.260024743	0.7682047	1	0	0	1	0	0
cg06898923	RAB18	22931	1.91528	0.056553601	0.260031372	1.30177522	0	0	0	0	0	0
cg21705120	UBE2G1	7326	1.91498	0.056591901	0.26003613	1.29683197	0	0	0	0	0	0
cg12971694	CD72	971	1.91498	0.056592842	0.26003613	1.29586802	0	0	0	0	1	1
cg14143055	ADAMDEC1	27299	-1.91487	0.056606864	0.26003613	0.77030743	0	0	0	0	0	0
cg15239703	CBR4	84869	1.91485	0.056609029	0.26003613	1.28808361	0	1	0	0	0	0
cg09837803	IL16	3603	-1.91446	0.056658547	0.260146585	0.76347475	0	0	0	0	1	1
cg07959896	GEMIN6	79833	1.91439	0.056668421	0.260146585	1.29977077	0	0	0	0	0	0
cg11783451	LOC90693	90693	-1.91424	0.056686605	0.260146585	0.76419971	0	1	0	0	0	0
cg13337662	ATP12A	479	1.91424	0.05668749	0.260146585	1.28877044	0	0	0	0	0	0
cg10708905	LRIG3	121227	-1.914	0.056718552	0.260178593	0.77426081	0	0	0	1	0	0
cg19801560	HIST1H4G	8369	-1.91397	0.056721676	0.260178593	0.76430029	0	0	0	0	0	0
cg19385139	COL4A2	1284	1.9136	0.056769801	0.260336895	1.30184866	0	1	0	0	0	0
cg15006396	NFKBIZ	64332	1.91348	0.05678465	0.260342559	1.31017243	0	0	0	0	0	0
cg00474004	IFNA14	3448	-1.91334	0.056802298	0.260361047	0.76436579	0	0	0	0	0	0
cg16293656	FGF17	8822	1.9131	0.056834085	0.260444321	1.30087635	0	0	0	0	0	0
cg17407908	AGER	177	1.91287	0.056863203	0.260453023	1.28565547	0	0	0	0	0	0
cg02278165	COX7A2L	9167	1.91278	0.056874835	0.260453023	1.29067652	0	0	0	0	0	0
cg04648087	TSC1	7248	1.91266	0.056890404	0.260453023	1.31665233	0	1	0	0	1	1
cg07328495	SMC2L1	10592	1.91259	0.056898837	0.260453023	1.30069711	0	0	0	0	0	0
cg04254119	AKAP3	10566	-1.91251	0.056909581	0.260453023	0.76984349	0	0	0	0	0	0
cg19221369	TAF13	6884	1.91242	0.056921764	0.260453023	1.28845827	0	0	0	0	0	0
cg22568695	KIAA1468	57614	-1.91234	0.056931324	0.260453023	0.76624089	0	0	0	0	1	1
cg17926057	PSMD10	5716	-1.91212	0.05695929	0.260518639	0.778199	0	0	0	0	0	0
cg26361780	CPB1	1360	-1.91184	0.056995285	0.260620939	0.7612059	0	0	0	0	0	0
cg21554552	RASSF1	11186	1.91143	0.057049183	0.260762172	1.30165133	0	0	0	0	0	0
cg17503456	FOX2	668	1.91138	0.057055289	0.260762172	1.30212798	1	0	0	0	0	0
cg19035993	MGC50372	253143	-1.91121	0.057077653	0.260762172	0.7697278	0	0	0	0	0	0
cg17532978	NEUROD4	58158	1.91118	0.057080716	0.260762172	1.29707388	0	0	0	0	1	1
cg10477754	PPRC1	23082	1.9109	0.057117494	0.260851708	1.30619209	0	0	0	0	0	0
cg17542495	GJB1	2705	-1.91082	0.057127597	0.260851708	0.76773535	0	0	0	0	0	0
cg16725097	EBNA1BP2	10969	1.91032	0.057191474	0.261081036	1.31481037	0	0	0	0	0	0

[illegible]

cg14711016	NARFL	64428	1.90241	0.058222007	0.262996395	1.30418028	0.54638967	0	0	0	0
cg17518962	GAL3ST4	79690	1.90241	0.058222093	0.262996395	1.30361344	0.56252521	0	0	0	0
cg17171485	HEBP2	23593	1.90232	0.058234222	0.262996395	1.29244015	0.57382009	0	0	0	0
cg01071811	L3MBTL	26013	-1.90225	0.05824368	0.262996395	0.76678793	0.56010488	0	1	0	0
cg25023994	BANK1	55024	1.90214	0.058257927	0.262998626	1.28685038	0.53812021	0	0	0	0
cg16812893	KRTAP15-1	254950	-1.90199	0.058277092	0.263023049	0.77789775	0.55652481	0	0	0	0
cg17159537	PEX11G	92960	1.90183	0.058298091	0.263040747	1.28911183	0.55697862	0	0	0	0
cg14078518	GK2	2712	-1.90174	0.058310704	0.263040747	0.77270217	0.57608915	0	0	0	0
cg13337865	TEKT1	83659	1.90165	0.058322279	0.263040747	1.28953326	0.55849133	0	0	0	0
cg24674220	GMEB2	26205	-1.90141	0.058353787	0.26310919	0.76830872	0.56408834	0	0	0	0
cg14008883	SLC18A3	6572	1.90122	0.058378585	0.26310919	1.29413768	0.56257564	1	0	0	0
cg16091845	SMARCA5	8467	1.90114	0.058388888	0.26310919	1.28534413	0.57608915	0	0	0	0
cg11479591	MECP2	4204	-1.90104	0.058402673	0.26310919	0.77581071	0.56307987	0	0	0	1
cg11221513	C22orf9	23313	1.90098	0.058409801	0.26310919	1.29829066	0.55602057	0	0	0	0
cg23013392	PARP3	10039	-1.90091	0.058420007	0.26310919	0.77262289	0.56403792	0	0	0	0
cg11762346	HKDC1	80201	-1.89988	0.058555553	0.263529136	0.77363763	0.57926583	0	0	0	0
cg25140501	ACIN1	22985	1.89998	0.058565319	0.263529136	1.28266798	0.54886043	0	0	0	0
cg11483915	SLC40A1	30061	1.89974	0.058574313	0.263529136	1.29134222	0.58042558	1	0	1	0
cg23618830	ARGHEF12	23365	1.8997	0.058578981	0.263529136	1.30796508	0.57271077	0	0	0	0
cg05395196	HSF2	3298	1.89968	0.058582155	0.263529136	1.28750448	0.57603873	0	0	0	0
cg00020533	TULP1	7287	-1.89954	0.058600338	0.263548934	0.76272907	0.55914683	0	0	0	0
cg26025891	PSTPIP1	9051	-1.89925	0.058637974	0.263565868	0.78216957	0.57124849	0	0	0	0
cg04490714	SLC6A2	6530	-1.89921	0.058643325	0.263565868	0.76598413	0.55249092	1	0	0	0
cg26689483	QDPR	5860	1.8992	0.058645451	0.263565868	1.29620557	0.56333199	0	0	0	0
cg17881637	MRPL40	64976	-1.89862	0.058721904	0.263712953	0.76961598	0.55128076	0	0	0	0
cg05538432	C1S	716	-1.89856	0.05872922	0.263712953	0.76982064	0.5532977	0	0	0	0
cg11091262	GALNTL5	168391	-1.89852	0.058735167	0.263712953	0.77074266	0.57139976	0	0	0	0
cg12378831	KIAA0853	23091	1.89841	0.058749038	0.263712953	1.28995669	0.57815652	0	0	0	0
cg13369981	BCDIN3	56257	1.89833	0.058760024	0.263712953	1.29048307	0.55128076	0	0	0	0
cg20840847	APBA2	321	-1.8983	0.058763673	0.263712953	0.7687186	0.55395321	0	0	0	0
cg06954481	GBX2	2637	1.89822	0.058774711	0.263712953	1.29261732	0.55365067	1	0	0	0
cg15350194	FAM70B	348013	1.89798	0.05880662	0.26379423	1.28897895	0.55440702	0	0	0	0
cg14961385	SPAG4	6676	1.89778	0.05883335	0.2638267	1.29776709	0.56555063	0	0	0	0
cg27056559	MGMT	4255	-1.89767	0.058846854	0.2638267	0.76732972	0.56444131	0	0	0	0
cg19070798	LOC129138	129138	1.89761	0.058855248	0.2638267	1.28818846	0.56247479	0	0	0	0
cg00690893	RAB9A	9367	1.89738	0.058885053	0.263898443	1.30180069	0.56706333	0	0	0	0
cg15031780	PEX14	5195	1.89728	0.058899243	0.263900193	1.30454841	0.5541549	0	0	0	0
cg16640096	COL4A3	1285	-1.89708	0.05892587	0.26390628	0.77921755	0.54412061	0	0	0	0
cg10563284	PAK6	56924	1.89706	0.058928203	0.26390628	1.29519596	0.57281162	0	0	0	0
cg25336198	INS	3630	-1.8969	0.058949594	0.26392908	0.77380652	0.56988705	0	0	0	0
cg10957200	HSPA14	51182	1.89681	0.058960898	0.26392908	1.29563606	0.55602057	0	0	0	0
cg03445474	GPIAP1	4076	1.89671	0.058974717	0.26392916	1.28358381	0.58834207	0	0	0	0

cg10537269	TIMM9	26520	1.8963	0.059028909	0.264109874	1.29539557	0.55823921	0	0	0	0	0
cg25671438	CENTB1	9744	1.89615	0.059048938	0.264137687	1.29440656	0.55481041	0	0	0	0	0
cg08661290	PHF13	148479	1.89596	0.059073796	0.264187084	1.29090579	0.57069383	0	0	0	1	0
cg14117297	MGC23244	126259	1.89569	0.059109321	0.264284151	1.28429939	0.55254135	0	0	0	0	0
cg24874111	ZNF562	54811	1.89548	0.059137879	0.264350029	1.29733192	0.53161557	0	0	0	0	0
cg16218424	CMAS	55907	1.89511	0.059187352	0.264509347	1.29394841	0.55914683	0	0	0	0	0
cg05423257	ALPI	248	-1.89481	0.059226446	0.264548424	0.76592032	0.56590359	0	0	0	0	0
cg23641145	PGR	5241	1.8948	0.059228117	0.264548424	1.30370037	0.55556676	1	0	0	0	0
cg07125991	LOC196463	196463	-1.89468	0.059243966	0.264548424	0.77093068	0.57271077	0	0	0	0	0
cg13265003	SLC37A1	54020	1.89454	0.059262402	0.264548424	1.2922857	0.56691206	0	0	0	0	0
cg14448116	ADAMTS4	9507	-1.89452	0.059265266	0.264548424	0.7663209	0.55531464	0	0	0	0	0
cg16237595	RNF41	10193	1.89418	0.059310817	0.264689968	1.30551732	0.57503025	0	0	0	0	0
cg17386185	GLYCK	132158	-1.89392	0.059346114	0.264743804	0.7731657	0.55274304	0	0	0	0	0
cg02260587	PCDHB2	56133	1.89388	0.059350569	0.264743804	1.28790252	0.55965107	0	0	0	0	0
cg06730468	FLJ10922	55260	1.8937	0.059374536	0.264774611	1.29110935	0.56212182	0	0	0	0	0
cg01120307	LOC349236	349236	-1.89362	0.059385167	0.264774611	0.76932663	0.54618798	0	0	0	0	0
cg03070588	USP30	84749	1.89347	0.0594045811	0.264804913	1.28554994	0.56479427	0	0	0	0	0
cg03041841	C9orf75	286262	1.89349	0.059443099	0.264909376	1.2967896	0.54820492	0	0	0	0	0
cg15238224	TRIM31	11074	-1.89289	0.059482523	0.264966493	0.77089657	0.5744756	0	0	0	0	0
cg26071978	HMFN0839	84803	1.89289	0.059483627	0.264966493	1.28540866	0.56429004	0	0	0	0	0
cg14464791	DDX6	1656	1.89248	0.059538025	0.265086076	1.29410466	0.56615571	0	0	0	0	0
cg09321965	NEK7	140609	-1.89242	0.059545245	0.265086076	0.7745299	0.56595401	0	0	0	0	0
cg11654737	BCKDHB	594	1.89237	0.05955206	0.265086076	1.29804409	0.5759883	0	1	0	0	0
cg23347958	DXH8	1659	1.89203	0.059598053	0.265229071	1.29368243	0.55990319	0	0	0	0	0
cg24317255	RGS17	26575	1.89153	0.059664941	0.265464959	1.30438932	0.55591973	0	0	0	0	0
cg25152942	MIA	8190	-1.89138	0.059685735	0.265495706	0.76299273	0.55813836	0	0	0	0	0
cg21660130	CLCNKB	1188	-1.89097	0.059740622	0.265678056	0.77578745	0.54941509	0	0	0	0	0
cg27124774	PCDHB10	56126	1.89068	0.059778835	0.265754311	1.29736523	0.56706333	0	0	0	0	0
cg24573310	C10orf70	55847	1.89055	0.059795823	0.265754311	1.29875373	0.56388665	0	0	1	0	0
cg21685266	EHADH	1962	1.89053	0.05979946	0.265754311	1.2939184	0.58682937	0	0	0	0	0
cg22658979	MMP13	4322	-1.89018	0.059845936	0.265899062	0.77084469	0.56529851	0	1	0	0	1
cg26965059	ATF2	1386	1.88933	0.05996002	0.266262251	1.28887374	0.57956837	0	0	0	0	0
cg20918903	JMJD1A	55818	1.8893	0.059964239	0.266262251	1.29951964	0.5646463	0	0	1	0	0
cg22639768	FAM13C1	220965	1.88919	0.05997925	0.266262251	1.28845614	0.53191811	0	0	0	0	0
cg00152644	SPRR2E	6704	-1.88916	0.059983374	0.266262251	0.76285483	0.56081081	0	0	0	0	0
cg03691812	CORO1A	11151	-1.88878	0.060034284	0.266384256	0.7734764	0.59192215	0	0	0	0	0
cg13948987	HCRT2	3062	1.88868	0.060047777	0.266384256	1.29365716	0.5873336	0	0	0	1	0
cg05886367	BTNL9	153579	1.88864	0.06005265	0.266384256	1.30672228	0.57190399	0	0	0	0	0
cg24391122	SNAPC2	6618	1.88845	0.06007894	0.266414706	1.30110284	0.56650867	0	0	0	0	0
cg13118748	C6orf136	221545	-1.88839	0.060087378	0.266414706	0.72572481	0.57921541	0	0	0	0	0
cg23404467	KIR3DL3	115653	-1.88786	0.060158448	0.266588142	0.76466626	0.55556676	0	0	0	0	0
cg00241355	GAPDH	2597	1.88778	0.060168492	0.266588142	1.29864401	0.54376765	0	0	0	0	0

cg13246592	P2RX5	5026	1.88776	0.060171398	0.266588142	1.28431621	0.56186971	1	0	0	0	0
cg23764381	ATRN11	26033	1.88768	0.060182981	0.266588142	1.29338327	0.57689593	0	0	0	0	0
cg25462291	HEYL	26508	1.88753	0.060203102	0.266588142	1.28320371	0.56862646	1	0	0	0	0
cg10612997	GREB1	9687	-1.88746	0.060212685	0.266588142	0.77119119	0.560357	0	0	0	1	0
cg05253327	B3GNT1	10678	-1.88737	0.06022408	0.266588142	0.77524034	0.5697862	0	0	0	0	0
cg03218909	HAPLN2	60484	1.88721	0.060245857	0.266622821	1.30190014	0.54442315	0	0	0	0	0
cg5072962	MGC35295	219995	-1.88665	0.060322263	0.266829518	0.772808	0.56282775	0	0	0	0	0
cg01161597	TAF2	6873	1.8866	0.060328355	0.266829518	1.29375594	0.57321501	0	0	0	1	0
cg02020018	PRRG3	79057	-1.88655	0.060335429	0.266829518	0.7679441	0.55566761	0	0	0	0	0
cg14579051	COL9A1	1297	-1.88632	0.060365762	0.266829518	0.7736283	0.55541549	0	0	0	1	0
cg10396470	NUP107	57122	1.88625	0.060376116	0.266829518	1.29416089	0.56217225	0	0	0	0	0
cg25488021	EPB41L2	2037	-1.88625	0.060376282	0.266829518	0.77294867	0.560357	0	0	0	0	0
cg25160554	ARL6	84100	1.88584	0.060430573	0.266880837	1.29690831	0.54749899	0	0	0	0	0
cg02027010	ALAD	210	1.88565	0.060457407	0.266880837	1.28859033	0.56565147	0	0	0	0	0
cg00955451	APBA2	321	-1.88554	0.060472297	0.266880837	0.7689116	0.57260992	0	0	0	0	0
cg15798153	PFTK1	5218	-1.88539	0.060492188	0.266880837	0.77220412	0.55854175	0	0	1	0	0
cg20755353	SU72	29101	1.88538	0.060493046	0.266880837	1.29396958	0.54573417	0	0	0	0	0
cg13387232	FL34443	285464	-1.88532	0.060501752	0.266880837	0.77000242	0.55793667	0	0	0	0	0
cg17617223	ZYG11BL	10444	1.88501	0.060543648	0.266880837	1.2863017	0.55985276	0	0	0	0	0
cg10889792	KRTAP5-9	3846	-1.88498	0.060548345	0.266880837	0.77795385	0.54507866	0	0	0	0	0
cg21612046	ZNF550	162972	1.88492	0.060555329	0.266880837	1.29842363	0.57432432	0	1	0	0	0
cg12213910	RAET1E	135250	-1.88488	0.060561173	0.266880837	0.76398858	0.56514724	0	0	0	0	0
cg01861509	SPOCK2	9806	-1.88483	0.060568516	0.266880837	0.767154	0.58040036	1	0	1	0	0
cg27119451	BRD8	10902	1.88481	0.060571213	0.266880837	1.30725493	0.56620613	0	0	0	0	0
cg27559343	SETD3	84193	-1.88476	0.060578046	0.266880837	0.77691226	0.56489512	0	0	0	0	0
cg20028470	UCN	7349	1.88465	0.060592056	0.266880837	1.27765241	0.5768455	1	0	0	0	0
cg22927153	MAP2K5	5607	1.88451	0.060610842	0.266880837	1.28626831	0.55284389	0	0	0	0	0
cg19521927	PLA2G5	5322	-1.88445	0.060619844	0.266880837	0.77156747	0.55990319	0	0	0	0	0
cg16054422	SART3	9733	1.88441	0.060625147	0.266880837	1.3042219	0.57281162	0	0	1	0	0
cg15310873	C20orf85	128602	-1.88421	0.060652336	0.266899409	0.77305758	0.56817265	0	0	0	0	0
cg18516268	RPL23	9349	-1.88413	0.060662883	0.266899409	0.76883667	0.55153288	0	0	0	0	0
cg24836175	CSNK2B	1460	1.88393	0.060690917	0.266899409	1.28419554	0.54961678	0	0	0	0	0
cg00134539	UBASH3A	53347	-1.88385	0.060701625	0.266899409	0.7718931	0.57780355	0	0	0	0	0
cg27403822	TOR3A	64222	1.88381	0.060706353	0.266899409	1.28340075	0.58193828	0	0	0	0	0
cg26025944	SCNN1G	6340	1.88376	0.060713108	0.266899409	1.29894075	0.53186769	1	0	0	0	0
cg24592364	ANKH	56172	-1.8836	0.060734534	0.266924923	0.77189954	0.55914683	0	0	0	0	0
cg14365123	ATPM2	140625	-1.88342	0.060759319	0.266924923	0.77767802	0.56822307	0	0	0	0	0
cg13199822	ATP6V1A	523	1.8832	0.060788821	0.266924923	1.2897421	0.57780355	0	0	1	0	0
cg01222684	TTC1	7265	1.88319	0.060791417	0.266924923	1.2984776	0.57755143	0	0	0	0	0
cg05890484	BHMT	635	1.88318	0.060792139	0.266924923	1.28586021	0.56444131	1	0	0	0	0
cg02880176	LOC201164	201164	1.88295	0.060823396	0.266924923	1.30630427	0.56792053	0	0	0	0	0
cg12360886	GSDML	55876	-1.88295	0.060823473	0.266924923	0.76747412	0.55259177	0	0	0	0	0

cg04995717	TEK	7010	1.88282	0.060841315	0.266924923	1.29339953	0.56817265	0	0	0	0
cg11469137	PL0D1	5351	1.8828	0.060844537	0.266924923	1.29473212	0.55808794	0	0	0	0
cg22705225	PDZK3	23037	-1.88235	0.06090534	0.266979952	0.78013564	0.5584409	1	0	0	0
cg19099213	SPP2	6694	-1.88234	0.060906117	0.266979952	0.77340916	0.55077652	0	0	0	0
cg07000831	SETDB2	83852	1.8823	0.060912019	0.266979952	1.28653898	0.54936466	0	0	0	0
cg06536578	JPH4	84502	-1.88224	0.060920746	0.266979952	0.76630209	0.556071	0	0	0	0
cg18138552	PSMD8	5714	1.88219	0.060926887	0.266979952	1.28649423	0.56544978	0	0	0	0
cg00620024	PP6C	5537	-1.88191	0.060965457	0.267058819	0.7700984	0.55975192	0	0	0	0
cg05140736	GSH	6448	1.88183	0.060976762	0.267058819	1.28685574	0.56958451	0	0	0	0
cg18084114	MATN1	4146	-1.88166	0.060998946	0.267058819	0.77183919	0.56217225	0	0	0	0
cg13683864	RPL14	9045	1.88163	0.061003624	0.267058819	1.28186395	0.55591973	0	0	0	0
cg11465971	GSH2	170825	1.88155	0.061014712	0.267058819	1.28703378	0.55828963	1	0	0	0
cg12285118	FAM107B	83641	-1.88132	0.061046245	0.267135693	0.77551603	0.56202098	0	0	0	0
cg22009138	ERBB2IP	55914	1.88113	0.061072128	0.26713577	1.28582787	0.55581888	0	0	0	0
cg19220825	AQP5	362	1.88108	0.061078358	0.26713577	1.31002699	0.56202098	1	0	0	0
cg211172540	TSSK3	81629	1.88101	0.061088171	0.26713577	1.28274161	0.56857604	0	0	0	0
cg03475172	USP6NL	9712	1.88087	0.061107419	0.267150888	1.2948145	0.5717023	0	0	0	0
cg09223071	SUPT7L	9913	1.88051	0.061156362	0.267150888	1.28255958	0.55354982	0	0	1	0
cg12044689	IATL1	84641	-1.88049	0.061159599	0.267150888	0.76721792	0.56318072	0	0	0	0
cg18616655	SSX5	6758	-1.88048	0.061161111	0.267150888	0.76242546	0.54991932	0	0	0	0
cg26705561	SEC31L2	25956	1.88047	0.061161479	0.267150888	1.28613136	0.5663574	0	1	0	0
cg23128146	DCTN4	51164	1.88025	0.06119147	0.267220851	1.30415997	0.56852562	0	0	0	0
cg13043509	GIMAP5	55340	1.87993	0.061236397	0.267355994	1.2971723	0.56908027	1	0	0	0
cg22498840	MCART1	92014	1.87974	0.061262087	0.267407103	1.28601378	0.56010488	0	0	0	0
cg25243721	XRCC4	7518	1.87945	0.061301559	0.267518332	1.28210727	0.57669423	0	1	0	0
cg22605643	RGS4	5999	1.87932	0.061319714	0.267536506	1.28077819	0.55455829	0	1	0	0
cg15133363	HIG2	29923	1.87894	0.061371034	0.2676464	1.29537458	0.5813332	0	0	0	0
cg012220033	WDR34	89891	1.87891	0.061375383	0.2676464	1.29914214	0.5655002	0	0	0	0
cg16665103	COQ3	51805	1.87883	0.06138689	0.2676464	1.31305379	0.54129689	0	0	0	0
cg19776090	SUMO2	6613	-1.87859	0.061419774	0.26772873	0.77401318	0.53418717	0	0	1	0
cg05950276	TMT4	84899	-1.87821	0.061470966	0.267805593	0.77604669	0.56842477	0	0	0	0
cg15125424	SOC52	8835	1.87812	0.061483293	0.267805593	1.29099437	0.5751311	0	0	1	0
cg26832142	PDE4B	5142	1.87808	0.06148896	0.267805593	1.28481899	0.56272691	0	0	1	0
cg14188111	S100A13	6284	-1.87805	0.061493424	0.267805593	0.77373289	0.56242437	0	0	0	0
cg14011639	PCDHGB7	56099	1.87774	0.061535813	0.267826005	1.27871774	0.58864462	0	0	0	0
cg17742155	ATP6V1G1	9550	1.87768	0.061543673	0.267826005	1.29080127	0.58335014	0	0	1	0
cg17043155	MRPL19	9801	1.87767	0.061545788	0.267826005	1.28153126	0.55639875	0	0	0	0
cg02801598	PDP2	57546	1.87734	0.061591087	0.267826005	1.29344368	0.56151674	0	0	0	0
cg27494383	LTK	4058	1.87732	0.061594183	0.267826005	1.28343658	0.54412061	1	0	0	0
cg04514469	C14orf49	161176	-1.87728	0.061599093	0.267826005	0.77456738	0.58995563	0	0	0	0
cg06544198	TMEM14C	51522	1.87721	0.061609011	0.267826005	1.28568224	0.5691307	0	0	0	0
cg25994725	C6orf81	221481	-1.8772	0.061610155	0.267826005	0.77010912	0.56489512	0	0	0	0

cg07800320	ALDH1L1	10840	1.87681	0.061663962	0.267912785	1.2897718	0.56313029	0	0	0	0
cg02433905	ATP6V1A	523	1.8768	0.06166559	0.267912785	1.30199349	0.56938282	0	1	0	0
cg18989919	C3orf36	80111	-1.87669	0.061681221	0.267912785	0.77038424	0.57119806	0	0	0	0
cg17234150	CACNG3	10368	1.87665	0.061686158	0.267912785	1.29635358	0.57134933	1	0	0	1
cg13614181	RGC32	28984	-1.87653	0.061701963	0.267920577	0.77464258	0.58077854	1	0	0	0
cg22189286	HSPB8	26353	-1.8763	0.061734447	0.268000775	0.77339113	0.56519766	0	0	0	0
cg16592658	EBI3	10148	-1.87579	0.061804409	0.268139606	0.77144603	0.55334812	0	0	0	0
cg23424268	GCHFR	2644	1.87577	0.061807286	0.268139606	1.29148229	0.54477612	0	0	0	0
cg11266874	ARL13B	200894	1.87576	0.061808492	0.268139606	1.29103635	0.56877773	0	0	0	0
cg15236866	DLX1	1745	1.87565	0.061824447	0.268144643	1.30660288	0.56333199	1	0	1	1
cg13672342	WDR39	9391	1.87552	0.061842204	0.268144643	1.29469727	0.56212182	0	0	0	0
cg21939482	MGC12966	84792	-1.87545	0.06185172	0.268144643	0.77228656	0.56983663	0	0	0	0
cg27628312	EPHB6	2051	1.87528	0.061874535	0.268182754	1.29324551	0.56272691	0	0	0	0
cg21201572	AGR2	10551	-1.87498	0.061916162	0.268266411	0.77748324	0.56776926	0	0	0	0
cg07357256	MRPS26	64949	1.87491	0.061926505	0.268266411	1.28344406	0.55970149	0	0	0	0
cg17067993	CCR7	1236	1.87484	0.061935922	0.268266411	1.28164988	0.56222267	0	0	0	0
cg02082571	CLEC4A	50856	1.87455	0.061976428	0.268381071	1.29452098	0.54003631	0	0	0	0
cg04509078	CCNJ	54619	1.87427	0.062015052	0.268449584	1.28681708	0.55178499	0	0	0	0
cg00679556	TRIM31	11074	-1.87423	0.062020326	0.268449584	0.77759928	0.55556676	0	0	0	0
cg00128654	C14orf102	55051	1.87406	0.062043307	0.268488282	1.28904693	0.5594998	0	0	0	0
cg22471346	GAS7	8522	1.87346	0.062127158	0.268732693	1.30411243	0.54437273	1	0	0	0
cg17155167	RIT1	6016	1.87345	0.062127892	0.268732693	1.28014748	0.55955022	0	0	0	1
cg12914657	GIMAP1	170575	1.87305	0.06218414	0.268889044	1.30253522	0.57215611	0	0	0	0
cg21073927	GATA4	2626	1.87299	0.062192161	0.268889044	1.3021265	0.57578661	1	0	0	0
cg08090396	NEK4	6787	1.87281	0.06221648	0.268933385	1.28389206	0.56418919	0	0	0	0
cg03439805	CORO1C	23603	1.87206	0.062320966	0.269324153	1.28931555	0.55667608	0	0	0	0
cg12699145	TMC7	79905	1.87193	0.06233856	0.269337131	1.28043257	0.55914683	0	1	0	0
cg27541374	LOC51136	51136	1.87183	0.062352138	0.269337131	1.28914427	0.59121622	0	0	0	0
cg05150177	SYT11	23208	1.87152	0.062395583	0.269373946	1.30506571	0.56076039	0	0	0	0
cg21096399	MCAM	4162	1.87148	0.062401009	0.269373946	1.28405475	0.54593586	0	0	0	0
cg26538116	LRPPRC	10128	1.87139	0.062414411	0.269373946	1.29469234	0.5768455	0	0	0	0
cg23391785	DNM3	26052	1.87131	0.062424633	0.269373946	1.28828626	0.57195442	0	0	0	0
cg26922202	OR2S2	56656	-1.87127	0.062431093	0.269373946	0.76220633	0.54217931	0	0	0	1
cg23613177	C10orf89	118672	1.871	0.062468237	0.26947341	1.27873506	0.56691206	0	0	0	0
cg07246225	ZFXH1B	9839	1.87088	0.062484954	0.269484733	1.28194021	0.56686164	1	0	1	0
cg25985437	FAM96A	84191	1.87004	0.062601947	0.269585588	1.29194628	0.56313029	0	0	1	0
cg12674192	RBM13	84549	1.87003	0.062603408	0.269585588	1.30389798	0.56338241	0	0	0	0
cg23111544	REG1A	5967	-1.87001	0.062606045	0.269585588	0.77751165	0.57024002	0	0	0	0
cg22467071	PECAM1	5175	1.86989	0.062622709	0.269585588	1.28954761	0.55465914	0	0	0	0
cg05412531	C8orf78	157376	-1.86985	0.062628408	0.269585588	0.76819081	0.54800323	0	0	0	0
cg11438428	PTF1A	256297	-1.86982	0.062632555	0.269585588	0.77387965	0.56711376	1	0	0	0
cg01261503	POLG2	11232	1.86969	0.062650187	0.269585588	1.29416099	0.5753328	0	1	0	0

cg05417985	ENPP1	5167	1.86969	0.062651451	0.269585588	1.29357076	0.56605486	0	0	0	0
cg22082243	C10orf84	63877	1.86959	0.062664229	0.269585588	1.30076557	0.56328157	0	0	0	0
cg07288587	CSNK1G1	53944	1.86959	0.062664441	0.269585588	1.28617417	0.56459258	0	0	0	0
cg01035238	TNFAIP6	7130	-1.86956	0.062668744	0.269585588	0.77123636	0.55284389	0	0	0	0
cg07816074	SH3TC1	54436	1.8695	0.062677509	0.269585588	1.28940198	0.55924768	0	0	0	0
cg13437593	THRPA4	9862	1.86925	0.06271155	0.269617784	1.29625843	0.56429004	0	0	0	0
cg01906717	IFNA13	3447	-1.86914	0.062727045	0.269617784	0.7765447	0.55738201	0	0	0	0
cg10693071	TRIM36	55521	1.86903	0.062742474	0.269617784	1.29132583	0.57089552	1	0	0	0
cg26943001	SPAG8	26206	1.86899	0.062748496	0.269617784	1.29588027	0.56595401	0	0	0	0
cg20769774	CYLD	1540	1.86894	0.06275549	0.269617784	1.28465244	0.55899556	0	0	1	1
cg24292612	DEFB1	1672	1.86879	0.062776415	0.26964144	1.29692398	0.58723276	0	0	0	0
cg19824362	NR2C1	7181	1.86866	0.062794539	0.26964144	1.30038428	0.56383622	0	0	0	0
cg23871659	TANK	10010	1.86827	0.062849088	0.26964144	1.30517344	0.55249092	0	1	0	0
cg10031456	RASGRP3	25780	-1.86804	0.062881478	0.26964144	0.77299718	0.56943324	0	1	0	0
cg01369413	UBQLN3	50613	-1.86803	0.062882749	0.26964144	0.77017167	0.56983663	0	0	0	0
cg22362636	TNIP2	79155	1.86786	0.062905966	0.26964144	1.30102463	0.5699879	0	0	0	0
cg07694025	SFRP2	6423	1.8678	0.062915504	0.26964144	1.28201263	0.5558693	0	1	0	0
cg16155382	GRHL3	57822	1.86778	0.062917543	0.26964144	1.29897737	0.57785397	1	0	0	0
cg13992856	FLOT2	2319	1.86767	0.06293335	0.26964144	1.28861464	0.55465914	0	0	0	0
cg27182555	HAP9	79725	1.86752	0.062953947	0.26964144	1.28131512	0.55213796	0	0	0	0
cg26457013	TMEM86B	255043	1.86747	0.062960906	0.26964144	1.29839166	0.54770069	0	0	0	0
cg16873684	ORC2L	4999	1.86736	0.062976338	0.26964144	1.29360234	0.56469343	0	0	0	0
cg16826286	LYZL6	57151	-1.86733	0.062980081	0.26964144	0.774952	0.54356595	0	0	0	0
cg23487586	MGC22001	197196	-1.86726	0.06299117	0.26964144	0.77498006	0.55314643	0	0	0	0
cg09812049	WIRE	147179	1.86724	0.062992951	0.26964144	1.29967981	0.54069181	0	0	0	0
cg10753073	UBE2U	148581	-1.86721	0.062997888	0.26964144	0.76422547	0.55627269	0	0	0	0
cg22731373	PCYT1B	9468	-1.86719	0.063000704	0.26964144	0.77942874	0.54391892	0	0	0	0
cg19098314	GOSR1	9527	1.86683	0.063050994	0.269796299	1.28535049	0.56822307	0	0	0	0
cg19700658	UCP3	7352	-1.86655	0.063090626	0.269905487	0.77584537	0.56070996	0	0	0	0
cg13383572	PRH1	5554	-1.86641	0.06311021	0.26992885	0.77697848	0.56792053	0	0	0	0
cg22580173	THBS1	7057	1.86606	0.063159114	0.270077646	1.28485155	0.54583501	0	0	1	1
cg05654164	C1orf52	148423	-1.86565	0.063215882	0.270259959	0.77200696	0.54427188	0	0	0	0
cg20251973	MGC11266	79172	1.86497	0.063311845	0.27060972	1.27971052	0.55667608	0	0	0	0
cg12441928	CCR1	1230	1.86474	0.063344878	0.270631173	1.29069905	0.55990319	0	0	0	1
cg00434413	ARD1A	8260	-1.86456	0.063370068	0.270631173	0.7587913	0.54765026	0	0	0	0
cg06384026	PPFIA1	8500	1.86447	0.063381851	0.270631173	1.28347955	0.57871117	0	0	0	0
cg21046940	DAP	1611	1.86445	0.063385098	0.270631173	1.29203842	0.56060912	0	0	0	0
cg25287375	OSTF1	26578	1.86443	0.063387625	0.270631173	1.27753688	0.56691206	0	0	0	0
cg13797031	NIPSNAP1	8508	-1.86419	0.063421856	0.270671751	0.77301128	0.56585317	0	0	0	0
cg02995130	RSN	6249	1.86417	0.063425438	0.270671751	1.28596965	0.56565147	0	0	0	0
cg10878896	CS	1431	1.86394	0.063457453	0.270743668	1.31072488	0.56302945	0	0	1	0
cg10569616	POT1	25913	-1.86384	0.063470606	0.270743668	0.77966321	0.57175272	0	0	0	0

cg22325715	CNTD	124817	1.86363	0.063500905	0.270812504	1.29341351	0.56857604	0	0	0	0
cg00013618	IGL@	3535	-1.86334	0.063542348	0.270895329	0.7732585	0.58082896	0	0	0	0
cg17832674	CALM3	808	1.86329	0.063548658	0.270895329	1.27134053	0.56923155	0	0	1	0
cg04824716	CCHCR1	54535	1.86313	0.063571545	0.270932496	1.27442146	0.55007059	0	0	0	0
cg11560403	TMEM81	388730	-1.86295	0.06359686	0.270979994	0.77465378	0.56842477	0	0	0	0
cg07443748	CESK1	150160	-1.86272	0.063630021	0.270980616	0.77654808	0.57230738	0	0	0	0
cg18565479	DISC1	27185	1.86263	0.06364278	0.270980616	1.2869097	0.56403792	0	0	0	0
cg18971671	TULP2	7288	-1.86248	0.063663217	0.270980616	0.77433394	0.55354982	0	0	0	0
cg19235307	MBD4	8930	1.86246	0.063666528	0.270980616	1.30175756	0.55430617	0	0	0	0
cg10246520	OLFM4	10562	-1.8623	0.063689079	0.270980616	0.77399407	0.55617184	0	0	0	0
cg15316334	CEACAM5	1048	1.86229	0.063690201	0.270980616	1.28321523	0.5498689	0	0	0	0
cg10468369	DDX19B	11269	1.86225	0.063696199	0.270980616	1.27754795	0.58955224	0	0	0	0
cg27313662	PPA2	27068	1.86174	0.063767415	0.271126146	1.28611803	0.56106293	0	0	0	0
cg04062907	ANAPC7	51434	1.86167	0.063778031	0.271126146	1.29458148	0.56489512	0	0	0	0
cg19623751	CEACAM7	1087	-1.86152	0.063799184	0.271126146	0.77594891	0.54850746	0	0	0	0
cg23667407	LOC51255	51255	1.86151	0.06379999	0.271126146	1.28379219	0.5357503	0	0	0	0
cg25766774	ZDHC3	51304	-1.8614	0.06381569	0.271126146	0.76610276	0.5532977	0	0	0	0
cg19744131	PRUNE	58497	1.86138	0.063819424	0.271126146	1.28410034	0.56565147	0	0	0	0
cg14610746	CLN6	54982	1.86121	0.063842511	0.271126146	1.28971875	0.55526422	0	0	0	0
cg15361231	GLRX2	51022	1.86119	0.06384558	0.271126146	1.29811078	0.55960065	0	1	0	0
cg19703610	DSCAM1L1	57453	-1.8611	0.06385801	0.271126146	0.77489723	0.57503025	1	0	0	1
cg13368786	ACSS2	55902	1.86093	0.063882976	0.271164861	1.28708181	0.56701291	0	0	0	0
cg05890019	WDFY3	23001	1.86075	0.063908449	0.271164861	1.2862402	0.57024002	0	0	0	0
cg22309826	COPS3	8533	-1.86058	0.063932633	0.271164861	0.77781047	0.56081081	0	0	0	0
cg09538287	CTNNA3	29119	-1.86055	0.06393679	0.271164861	0.78197847	0.55065046	0	0	0	1
cg00532890	PBX1	5087	1.86054	0.063938029	0.271164861	1.28703167	0.5717023	0	0	1	1
cg10275770	ICAM2	3384	1.8603	0.063972747	0.271210459	1.29464623	0.56665994	0	0	0	0
cg10823546	MAK10	60560	1.86025	0.063979646	0.271210459	1.28939621	0.56726503	0	0	0	0
cg23363832	RBP1	5947	1.86016	0.063991328	0.271210459	1.28621333	0.57921541	0	0	1	0
cg08735298	C1orf122	127687	1.85995	0.064022088	0.271280703	1.29615743	0.57437475	1	0	0	0
cg07947016	KLK2	3817	-1.85975	0.064050694	0.271341793	0.78160449	0.56787011	0	0	0	0
cg09726469	MCL1	4170	-1.8594	0.064100225	0.271491478	0.77790939	0.54018758	0	0	0	0
cg14425294	GUCY2D	3000	1.85912	0.064139855	0.271532126	1.27792922	0.55465914	1	0	0	0
cg21521452	AGA	175	1.85905	0.064149578	0.271532126	1.29008189	0.56217225	0	0	0	0
cg20648463	GLA	2717	1.85903	0.06415242	0.271532126	1.28322813	0.55849133	0	0	1	0
cg16571399	TLN2	83660	-1.85834	0.064250612	0.271835062	0.76742142	0.57891287	0	0	0	0
cg02915544	PSMAL	219595	-1.85829	0.064257628	0.271835062	0.77991947	0.5477259	0	0	0	0
cg06469542	THSD3	145501	1.85821	0.06426917	0.271835062	1.284311	0.56025615	1	0	0	0
cg10404950	ALKBH8	91801	1.85813	0.064280853	0.271835062	1.30203754	0.57402178	0	0	0	0
cg24340657	KRT24	192666	-1.85785	0.064321211	0.271945593	0.77280486	0.5770472	0	0	0	0
cg20324165	KRT8	3856	-1.85765	0.064348529	0.271984418	0.77915198	0.5479528	0	0	0	0
cg22243662	ATP6V1C2	245973	1.85758	0.06435884	0.271984418	1.27637267	0.57205526	0	0	0	0

cg03087937	MUC15	143662	-1.85737	0.06438974	0.272006543	0.77382507	0.55581888	0	0	0	0	0
cg22957381	KCND3	3752	-1.85735	0.064392523	0.272006543	0.77144079	0.54220452	1	0	0	0	1
cg08077673	MEST	4232	1.85704	0.06443606	0.27213034	1.28257264	0.54043969	0	1	0	0	0
cg18343862	XLKD1	10894	-1.8566	0.064498703	0.272334753	0.77625453	0.56676079	0	0	0	0	0
cg25159668	AADACL2	344752	-1.85648	0.064516816	0.272351094	0.77606792	0.57588746	0	0	0	0	0
cg04743650	VCAM1	7412	-1.85629	0.064543315	0.272359336	0.78188923	0.55909641	0	0	1	0	0
cg5027501	GSTM3	2947	-1.85626	0.064547253	0.272359336	0.77236119	0.54467527	1	1	0	0	0
cg07427065	MEST	4232	1.85591	0.064597441	0.272484307	1.2970025	0.5794171	0	1	0	0	0
cg25221625	CRYBB3	1417	-1.85586	0.064605369	0.272484307	0.76921828	0.55839048	0	0	0	0	0
cg23322112	ABCC13	150000	-1.85563	0.064637613	0.272554581	0.77072738	0.56761799	0	0	0	0	0
cg08567916	SPRYD3	84926	-1.85543	0.064665962	0.272554581	0.77977684	0.56348326	0	0	0	0	0
cg20357806	PPBP	5473	-1.8554	0.064670662	0.272554581	0.76831718	0.56968536	0	0	0	0	0
cg06940107	C21orf100	118421	-1.85534	0.064679042	0.272554581	0.77373752	0.58148447	0	0	0	0	0
cg07642638	CHGB	1114	-1.85464	0.064779095	0.272817386	0.77579238	0.57039129	0	0	0	0	0
cg20367072	ETFB	2109	1.85459	0.06478693	0.272817386	1.29090869	0.57528237	0	0	0	0	0
cg02867079	KIAA1822	84439	1.85454	0.064793647	0.272817386	1.28875051	0.56539936	0	0	0	0	0
cg01657408	FLJ31951	153830	1.85439	0.064815772	0.272817386	1.2955447	0.56736587	0	0	0	0	0
cg02876062	FAM107B	83641	-1.85407	0.064862233	0.272817386	0.76653141	0.56928197	0	0	0	0	0
cg14317651	COPS2	9318	1.85403	0.064867293	0.272817386	1.30933938	0.57225696	0	0	0	0	0
cg24070292	TPM2	7169	1.85382	0.064898115	0.272817386	1.28190661	0.56812223	0	0	0	0	0
cg00079056	SPINK4	27290	-1.85381	0.064898753	0.272817386	0.77066227	0.57815652	0	0	0	0	0
cg02564733	ADAMTS15	170689	1.85374	0.06490843	0.272817386	1.28673526	0.56192013	1	0	0	0	0
cg04336379	LOC389458	389458	1.85371	0.06491379	0.272817386	1.27942872	0.57185357	0	0	0	0	0
cg05399697	LOC400986	400986	-1.85368	0.064917206	0.272817386	0.77263114	0.5652733	0	0	0	0	0
cg15722679	SIRPB2	55423	1.85363	0.064924699	0.272817386	1.29437201	0.55468435	0	0	0	0	0
cg26127679	RAD51AP1	10635	1.8535	0.064943359	0.272817386	1.29272879	0.55813836	0	0	0	0	0
cg24204740	RWDD2	112611	1.8535	0.064943399	0.272817386	1.28886399	0.57175272	0	0	0	0	0
cg20770311	SMPD1	6609	-1.85342	0.064955405	0.272817386	0.77493335	0.56217225	0	0	0	0	0
cg04541293	PTPRT	11122	-1.85297	0.06501928	0.2730257	0.77611926	0.55985276	1	0	0	0	0
cg11712199	TAIP-2	80034	-1.85257	0.065077522	0.273210276	0.77868669	0.57518153	0	0	0	0	0
cg19914751	QARS	5859	1.85234	0.065110645	0.273289336	1.28674197	0.54149859	0	0	1	0	0
cg13109289	C1GALT1	56913	-1.8522	0.065130291	0.273311807	0.77772895	0.54976805	0	0	0	0	0
cg05603623	TMM44	10469	1.85197	0.065163365	0.273344129	1.29228687	0.56257564	0	0	0	0	0
cg20790540	PTCRA	171558	-1.85191	0.065171709	0.273344129	0.77642192	0.56585317	0	0	0	0	0
cg08871016	HSF2BP	11077	1.85185	0.065180876	0.273344129	1.29267283	0.57008875	0	0	0	0	0
cg05976325	LOC284912	284912	-1.85165	0.06520949	0.273404169	0.77027336	0.57296289	0	0	0	0	0
cg08400120	PRKCI	5584	1.85096	0.065309056	0.273614895	1.28614491	0.55239008	0	0	0	1	0
cg25605408	FLJ40142	400073	-1.85094	0.065312897	0.273614895	0.77290521	0.55531464	0	0	0	0	0
cg16540768	TMEM56	148534	1.85092	0.065314817	0.273614895	1.28975428	0.56348326	0	0	0	0	0
cg26683023	ZNF678	339500	-1.85091	0.065316983	0.273614895	0.77975991	0.56267648	0	0	0	0	0
cg02611419	KCNK17	89822	1.8506	0.065361825	0.273742773	1.29798637	0.56504639	1	0	0	0	0
cg11854007	RP11-	317716	1.85026	0.065410753	0.273828443	1.29005931	0.56353368	0	0	0	0	0

[illegible]

cg05508558	CR2	1380	1.83833	0.067155115	0.27610672	1.27701854	0.56534893	1	0	0	0
cg01716083	ZNRD1	30834	1.83824	0.067167979	0.27610672	1.28606835	0.54659137	0	0	0	0
cg23894539	STARD3	10948	1.83798	0.067205731	0.276202535	1.27989434	0.54654094	0	0	0	0
cg08315770	KCNK17	89822	1.83766	0.067253601	0.276261732	1.27909364	0.53035498	1	0	0	0
cg10909093	MLH1	4292	-1.83764	0.067256367	0.276261732	0.78015844	0.556071	0	0	1	0
cg14345676	HRH2	3274	-1.83759	0.067263475	0.276261732	0.76379566	0.5558693	0	0	0	0
cg23326301	ADAM30	11085	-1.83709	0.067337322	0.276505646	0.7742978	0.55793667	0	0	0	0
cg00930078	FBXO28	23219	1.83697	0.067355943	0.276506239	1.27452026	0.5699879	0	0	0	0
cg07436807	ACTA2	59	-1.8369	0.067366385	0.276506239	0.77722921	0.57200484	0	0	0	0
cg06384491	SPIN2	54466	1.83666	0.067402284	0.276594219	1.28257249	0.55965107	0	0	0	0
cg23679085	AP2M1	1173	1.83644	0.067433644	0.276663539	1.28185969	0.55662566	0	0	0	0
cg21858376	ITPR1	3708	1.8363	0.067455113	0.276692256	1.27832397	0.5753328	0	0	0	0
cg12955127	ATP5F1	515	-1.8361	0.067484379	0.276752938	0.77757036	0.54805365	0	0	1	0
cg04837322	ROD1	9991	1.83562	0.06755637	0.276982438	1.28801557	0.56101251	0	0	0	0
cg26287783	C6orf64	55776	1.83547	0.06757766	0.276982438	1.27820439	0.55410448	0	0	0	0
cg26194560	GTF3C3	9330	1.83534	0.067597918	0.276982438	1.28806397	0.54649052	0	0	0	0
cg00960702	CCDC9	26093	1.83533	0.067598278	0.276982438	1.28481701	0.56413877	0	0	0	0
cg09282338	NXT1	29107	1.83472	0.067690103	0.277240616	1.27884887	0.57049213	0	0	0	0
cg15700739	H0XC5	3222	1.83472	0.067690283	0.277240616	1.28302684	0.58264421	1	0	0	1
cg26168975	C1orf80	64853	1.83418	0.067769785	0.277449191	1.29733313	0.56716418	0	0	0	0
cg27485235	CLCN2	1181	1.83418	0.067770225	0.277449191	1.29669817	0.55939895	0	0	0	0
cg15860839	SNAPC1	6617	1.83395	0.067804691	0.277530876	1.28201486	0.5751311	0	0	0	0
cg04809787	CHRNB1	1140	1.83358	0.067859961	0.277697666	1.27734681	0.52964905	0	0	0	0
cg20131968	CCDC47	57003	-1.83342	0.067883615	0.277735027	0.77517733	0.55188584	0	0	0	0
cg04726446	MGC16372	92749	1.8333	0.067901584	0.277749119	1.28122733	0.55879387	0	0	0	0
cg20233029	B4GALNT2	124872	1.8332	0.067916203	0.277749509	1.27904475	0.55400363	0	0	0	0
cg13173909	UGCG1	56886	1.83272	0.067988449	0.277967512	1.27766505	0.55299516	0	0	0	0
cg10169812	CD38	952	-1.83253	0.068015761	0.277967512	0.77566685	0.57719847	1	0	0	0
cg12052765	CHAT	1103	1.8325	0.068019962	0.277967512	1.28460159	0.57119806	0	0	0	0
cg18750960	HOXD4	3233	1.83245	0.068027654	0.277967512	1.28721958	0.57175272	1	0	0	1
cg11219178	OSBPL5	114879	-1.83215	0.068072485	0.278033614	0.77249487	0.57165188	0	0	0	0
cg00567479	FARP2	9855	1.83215	0.068072909	0.278033614	1.27752136	0.55934853	0	0	0	0
cg13784557	HCP5	10866	1.83172	0.068137727	0.278217658	1.28027852	0.56862646	0	0	0	0
cg20627916	ESR1	2099	1.83152	0.068166575	0.278217658	1.28907218	0.55339855	1	0	0	1
cg02479196	Mar-07	64844	1.83151	0.068167933	0.278217658	1.28940816	0.57190399	0	0	1	0
cg17867194	SLC30A6	55676	1.83144	0.068178362	0.278217658	1.27993998	0.56247479	0	0	0	0
cg04528819	KLF14	136259	1.83136	0.068190715	0.278217658	1.28545984	0.57745059	1	0	0	1
cg03520136	UPP2	151531	-1.83121	0.068214017	0.278253366	0.78093197	0.55632311	0	0	0	0
cg21300561	K-ALPHA-1	10376	1.83097	0.068249778	0.278339863	1.27405264	0.58163574	0	0	0	0
cg15552238	EMR3	84658	1.83018	0.068367928	0.278382309	1.28701043	0.56116378	0	0	0	0
cg26112353	BMP2K	55589	1.83013	0.068374997	0.278382309	1.28337385	0.57155103	0	0	0	0
cg26706003	AVPR1A	552	-1.83012	0.068376329	0.278382309	0.78016083	0.56986184	0	0	0	0

cg23681213	PNMA1	9240	-1.83009	0.068381065	0.278382309	0.78104288	0.56908027	0	0	0	1	0
cg11102782	ISVNA1	51477	1.83002	0.068391315	0.278382309	1.278956	0.55597015	0	0	0	0	1
cg20638426	ZNF14	7561	1.82997	0.06839965	0.278382309	1.27972504	0.56504639	0	0	0	0	0
cg02713563	TRAPPC6A	79090	1.82994	0.068403565	0.278382309	1.28797857	0.54936466	0	0	0	0	0
cg11318251	BAALC	79870	1.82984	0.068419309	0.278382309	1.2842172	0.5892497	0	0	0	0	0
cg25017304	ARHGEF11	9826	1.82952	0.068467262	0.278382309	1.27754359	0.56171844	0	0	0	0	1
cg26414720	MAGEA1	4100	-1.82944	0.068479285	0.278382309	0.77712335	0.560357	0	0	0	0	0
cg15658426	MGCG39633	153733	1.82944	0.068508178	0.278382309	1.28328286	0.54417104	0	0	0	0	0
cg08884343	FOXP3	50943	-1.82913	0.068525936	0.278382309	0.78005534	0.56983663	0	0	0	0	1
cg07786760	DCHS2	54798	1.82906	0.068536196	0.278382309	1.27535167	0.56479427	1	0	0	0	0
cg00145348	APEX2	27301	1.82895	0.068552922	0.278382309	1.27635566	0.54598629	0	0	0	1	0
cg04872689	PLEK	5341	1.82892	0.068557423	0.278382309	1.27663413	0.59348528	0	0	0	0	0
cg06084735	ENY2	56943	1.82891	0.068558109	0.278382309	1.2897662	0.55420533	0	0	0	0	0
cg17272843	KCTD14	65987	1.82889	0.068562039	0.278382309	1.27421812	0.56192013	0	0	0	0	0
cg21690892	GUCA1B	2979	-1.82875	0.068582107	0.278382309	0.78825437	0.56923155	0	0	0	0	0
cg07195282	ZNF563	147837	1.82872	0.068586733	0.278382309	1.27192224	0.55042356	0	0	0	0	0
cg17682309	STX7	8417	1.82863	0.068600154	0.278382309	1.2914136	0.56862646	0	0	0	0	0
cg01887353	ZNF41	7592	-1.82855	0.068612562	0.278382309	0.78126231	0.5462384	0	0	0	0	0
cg01437411	ATN1	1822	1.82848	0.068623476	0.278382309	1.30004811	0.56585317	0	0	0	0	0
cg02626929	PAQR4	124222	1.82847	0.068624052	0.278382309	1.28028352	0.55304558	0	0	0	0	0
cg21377793	TSPAN3	10099	-1.82841	0.068633434	0.278382309	0.78074341	0.54991932	0	0	0	0	0
cg08530414	CD44	960	1.82839	0.068637318	0.278382309	1.27830633	0.56660952	1	1	0	0	0
cg07401901	DAAM1	23002	1.82828	0.068653345	0.278382309	1.2834354	0.55193627	0	0	0	0	1
cg08711724	NOC3L	64318	1.8282	0.068665642	0.278382309	1.28518301	0.57997176	0	1	0	0	0
cg19177941	ALDH1A3	220	1.82815	0.068672872	0.278382309	1.27399638	0.55566761	0	0	0	0	0
cg19895197	C17orf37	84299	1.82809	0.068682353	0.278382309	1.27768407	0.54341468	0	0	0	0	0
cg01144286	C20orf103	24141	1.82779	0.06872714	0.278399825	1.27175608	0.56908027	1	1	0	0	1
cg16029760	OSTbeta	123264	1.82776	0.068731414	0.278399825	1.28042945	0.57356797	0	0	0	0	0
cg02511532	TAF2	6873	1.82768	0.068744287	0.278399825	1.28161137	0.55960065	0	0	0	0	1
cg16998872	GYPE	2996	-1.82767	0.068744909	0.278399825	0.77247715	0.55294474	0	0	0	0	0
cg13665184	DUS2L	54920	1.82698	0.068848638	0.278728441	1.27367392	0.56691206	0	0	0	0	0
cg27365426	ARHGAP15	55843	1.82686	0.068866522	0.278728441	1.27698334	0.56192013	0	0	0	0	0
cg22812892	IDE	3416	1.82684	0.0688707	0.278728441	1.27635416	0.55934853	0	0	0	0	0
cg18587271	GPT2	84706	1.82675	0.068884356	0.278728441	1.28364758	0.58198871	0	0	0	0	0
cg05019661	ADK	132	1.82625	0.06895914	0.278972015	1.28827744	0.57200484	0	0	0	0	0
cg04228042	ART4	420	-1.82613	0.068977505	0.278987288	0.77328747	0.55763413	0	0	0	0	0
cg26509022	ALDH1A3	220	1.82568	0.069045425	0.279201051	1.27405905	0.56665994	0	0	0	0	0
cg02198582	TSC2	7249	-1.82536	0.069094258	0.279201051	0.76918028	0.56529851	0	0	0	0	0
cg10530733	GPR173	54328	-1.82535	0.069096037	0.279201051	0.78417717	0.55551634	0	0	0	0	0
cg16546489	HSD17B1	3292	-1.82533	0.069098966	0.279201051	0.77975693	0.5759883	0	0	0	0	0
cg19157069	WDR23	80344	1.8253	0.069103358	0.279201051	1.27679111	0.56373538	0	0	0	1	0
cg03718026	RPS20	6224	1.82464	0.069203518	0.279546667	1.28573217	0.56020573	0	0	0	0	0

cg11939047	NARG2	79664	1.82447	0.069228898	0.279590129	1.28134557	0.56761799	0	0	0	0
cg01665633	NDNL2	56160	1.8243	0.069255078	0.279625001	1.28015423	0.56797096	0	0	1	0
cg5993718	CBLN4	140689	1.82421	0.069267979	0.279625001	1.272397	0.55168415	1	0	0	0
cg16307860	C1orf80	64853	1.82412	0.0692814	0.279625001	1.28872793	0.57538322	0	0	0	0
cg02029926	CXCL1	2919	1.82392	0.069312799	0.279647226	1.28483222	0.54543163	1	1	0	0
cg16367232	UTP14A	10813	1.82389	0.069316154	0.279647226	1.27855695	0.56070996	0	0	1	0
cg23018891	BCAS2	10286	1.82368	0.06934896	0.279720565	1.28146619	0.57155103	0	0	0	0
cg5835225	ZNF350	59348	1.82315	0.069429314	0.279912327	1.27575011	0.5594998	0	0	0	0
cg09529667	SBP4	170463	1.8231	0.06943704	0.279912327	1.27804875	0.55879387	1	0	0	0
cg15528736	FCGRT	2217	1.823	0.069451668	0.279912327	1.29385744	0.54684349	0	0	0	1
cg05420896	DCC	1630	1.82286	0.069472263	0.279912327	1.28831139	0.56479427	1	0	0	0
cg27419217	TROAP	10024	1.82268	0.069499959	0.279912327	1.28071985	0.56252521	0	0	0	0
cg25229172	CCDC38	120935	1.82265	0.069505005	0.279912327	1.27807983	0.56812223	0	0	0	0
cg10887392	CTDSP1	58190	-1.82264	0.069506008	0.279912327	0.78135008	0.55052441	0	0	0	1
cg10377764	RAD52	5893	-1.82253	0.069523514	0.279912327	0.77448389	0.55102864	0	0	0	0
cg19259146	RPS6KA1	6195	1.8224	0.069543056	0.279912327	1.27963163	0.55067568	0	0	0	0
cg19836283	ITGA11	22801	1.82237	0.06954801	0.279912327	1.28195617	0.56126462	1	0	0	0
cg25516759	BMP7	655	1.8223	0.069557515	0.279912327	1.27460279	0.5436668	0	0	1	0
cg06641503	ARIH2	10425	-1.82194	0.069612389	0.280019121	0.7798077	0.55117991	0	0	0	0
cg26209676	ZNF581	51545	1.82194	0.069613339	0.280019121	1.26863758	0.56640783	0	0	0	0
cg00755709	BAAT	570	-1.82176	0.069640497	0.280069451	0.77433401	0.55798709	0	0	0	0
cg27305662	C6orf15	29113	-1.82161	0.069663648	0.280091432	0.77871842	0.55314643	0	0	0	0
cg14913610	KLRG1	10219	1.82151	0.069678835	0.280091432	1.29076246	0.54351553	0	0	0	0
cg23680518	SBSN	374897	-1.82141	0.069693202	0.280091432	0.78021942	0.58511497	0	0	0	0
cg02385474	PCNXL2	80003	-1.82134	0.06970455	0.280091432	0.7772177	0.55687777	0	0	0	0
cg11199399	LTBP1	4052	1.82101	0.069754031	0.280231375	1.27331498	0.55380194	0	0	0	1
cg22458082	OTUD7	161725	-1.82065	0.069809692	0.280396084	0.78200309	0.54981848	0	0	0	0
cg20288630	PDE5A	8654	1.82046	0.069838718	0.28045376	1.27639706	0.56328157	0	0	0	0
cg04968473	CYP1A2	1544	-1.82033	0.069857827	0.280458216	0.78043918	0.54588544	0	0	0	0
cg07484827	CHRNA10	57053	-1.8202	0.069878844	0.280458216	0.77924374	0.55228923	0	0	0	0
cg08753553	DEFB106A	245909	-1.82016	0.069883825	0.280458216	0.77638165	0.5663574	0	0	0	0
cg00167504	BLVR	644	1.81987	0.069928489	0.280568423	1.27913176	0.54432231	0	0	0	0
cg14540297	LOC339524	339524	1.81979	0.06994063	0.280568423	1.28385118	0.56131505	0	0	0	0
cg11959821	TBRG4	9238	1.81959	0.069971758	0.280634423	1.27607263	0.5552138	0	0	0	0
cg18715299	AMHR2	269	-1.81928	0.070018304	0.280762221	0.77472619	0.54255748	0	0	0	0
cg13823791	COPS3	8533	1.81915	0.070038321	0.280783606	1.29511193	0.57982049	0	0	0	0
cg05444024	FUT6	2528	1.81891	0.070074942	0.280871538	1.27977878	0.54689391	0	0	0	0
cg21614231	BAG1	573	-1.81861	0.07012101	0.280970927	0.77205165	0.54971763	0	0	0	0
cg24910675	ENG	2022	1.81853	0.070133797	0.280970927	1.27367355	0.56615571	0	0	0	0
cg12575181	PIGH	5283	-1.81843	0.070149049	0.280970927	0.77520616	0.54830577	0	0	0	0
cg26789453	TMEM116	89894	1.81836	0.070159924	0.280970927	1.28829106	0.5759883	0	0	0	0
cg00563926	TGFB3	7049	1.81827	0.070173203	0.280970927	1.28104137	0.55496168	0	0	0	0

cg18389062	MAN1A2	10905	1.81803	0.070210282	0.281008901	1.27343991	0.55904599	0	0	0	1
cg19740287	MOSPD2	158747	1.81802	0.070212077	0.281008901	1.27127298	0.5534994	0	0	0	1
cg18692273	TNNT2	7139	-1.81772	0.070258355	0.28113528	0.78254592	0.57699677	0	0	0	0
cg19713196	LAD1	3898	-1.81735	0.07031509	0.281303438	0.78251644	0.54886043	0	0	0	0
cg09001777	FUT3	2525	1.8171	0.070353516	0.281398296	1.27761141	0.57008875	0	0	0	0
cg07052880	ATP6V1B1	525	-1.81694	0.070377326	0.281401767	0.77357425	0.5674163	0	0	0	0
cg24660086	RGR	5995	-1.81679	0.070400826	0.281401767	0.78336293	0.56933239	0	0	0	0
cg02611863	3MBTL	26013	-1.81675	0.070406794	0.281401767	0.78563709	0.5594938	0	1	0	0
cg02117021	LR2H1	26716	-1.81669	0.070416618	0.281401767	0.77802574	0.57039129	0	0	0	0
cg16338822	TPX2	22974	1.81653	0.070441278	0.281401767	1.29193964	0.55531464	0	0	1	0
cg24928687	EPHX1	2052	-1.81647	0.070450083	0.281401767	0.77469142	0.57205526	0	0	0	0
cg00406188	LCE2C	353140	-1.81642	0.070457391	0.281401767	0.77866723	0.53474183	0	0	0	0
cg07678643	LOC113444	113444	1.81592	0.070534619	0.281651385	1.27840164	0.57180315	0	0	0	0
cg16173067	SDCBP2	27111	1.81572	0.070565194	0.281674362	1.27459124	0.56993748	0	0	0	0
cg12793610	TRIM2	23321	-1.81563	0.07057966	0.281674362	0.77984878	0.5736184	0	0	0	1
cg03399971	INHBC	3626	-1.81559	0.070584562	0.281674362	0.7836016	0.58211476	0	0	0	0
cg09980622	BOLA1	51027	1.81544	0.070608695	0.281711879	1.27406105	0.55178499	0	1	0	0
cg24417499	HPCA	3208	1.81522	0.070641712	0.281757167	1.27997736	0.59318274	0	0	0	0
cg23248452	TAS2R1	50834	-1.81507	0.070664712	0.281757167	0.78412249	0.53080879	0	0	0	0
cg26164184	FCN2	2220	-1.81494	0.070685687	0.281757167	0.78652199	0.56469343	0	0	0	0
cg03660451	RECQL5	9400	-1.81491	0.070689647	0.281757167	0.78274369	0.55486083	0	0	0	0
cg04612566	C8orf31	286122	-1.81489	0.070693716	0.281757167	0.78752374	0.5575837	0	0	0	0
cg22978941	UNG	7374	1.81468	0.070725297	0.281824296	1.27465436	0.54381807	0	0	0	0
cg03382797	C9orf98	158067	1.81455	0.070746174	0.281848756	1.27546957	0.54699476	0	0	0	0
cg24822446	ZFAND3	60685	-1.81404	0.070823971	0.281935534	0.78937857	0.5639875	0	0	0	0
cg13903548	GABRR2	2570	-1.81398	0.070834065	0.281935534	0.77626552	0.55657523	0	0	0	0
cg15781316	SHFM1	7979	1.81385	0.070853025	0.281935534	1.29551072	0.57034086	0	0	0	0
cg22344641	TRUB2	26995	1.81363	0.070888185	0.281935534	1.28455672	0.59857806	0	0	0	0
cg19029220	UGP2	7360	1.81355	0.070900233	0.281935534	1.27291338	0.55264219	0	0	0	1
cg20587968	UCN3	114131	-1.81354	0.070902063	0.281935534	0.77702637	0.56423961	0	0	0	0
cg16029636	SLC39A1	27173	1.8135	0.070908054	0.281935534	1.26952939	0.56600444	0	0	0	0
cg01354473	HOXA9	3205	-1.8134	0.070922784	0.281935534	0.78655132	0.55632311	1	0	0	0
cg15971836	KIAA1212	55704	1.81328	0.07094208	0.281935534	1.27994577	0.56126462	0	0	0	0
cg10031651	LRRC2	79442	-1.8131	0.070968856	0.281935534	0.77487152	0.56156716	0	0	0	1
cg25782563	MED9	55090	1.81308	0.070972005	0.281935534	1.28573149	0.57356797	0	0	0	0
cg25886875	PSMC4	5704	1.81302	0.070982078	0.281935534	1.28483885	0.56489512	0	0	0	0
cg07643942	LACRT	90070	-1.81301	0.070982635	0.281935534	0.78583999	0.55405405	0	0	0	0
cg19382175	PDE6A	5145	-1.813	0.070984217	0.281935534	0.77688354	0.56645825	0	0	0	0
cg24088229	SMU1	55234	1.81277	0.071020105	0.281935534	1.28427292	0.55425575	0	0	0	0
cg21602160	AOC3	8639	-1.81276	0.071021404	0.281935534	0.78534994	0.55576846	0	0	0	0
cg14870461	AER61	285203	1.81276	0.071021731	0.281935534	1.27656106	0.5391791	0	0	0	0
cg00980978	WFDC2	10406	1.8126	0.071046108	0.281935534	1.28044469	0.56439088	0	0	0	0

cg25913233	SPARC	6678	1.81247	0.071067167	0.281935534	1.2808402	0.54578459	0	0	0	1	1	1
cg15589156	RAB31L1	5866	1.8124	0.071078261	0.281935534	1.28201639	0.57276119	0	0	0	0	0	0
cg09971811	CST7	8530	1.81221	0.071106623	0.281935534	1.28130977	0.5629286	0	0	0	0	0	0
cg09560912	NCOA3	8202	1.81221	0.071106969	0.281935534	1.27946187	0.55425575	0	0	0	0	1	1
cg03312426	RRAS	6237	1.8122	0.071109301	0.281935534	1.28161345	0.56857604	0	0	0	0	0	0
cg26116551	ZNF536	9745	-1.81212	0.071121796	0.281935534	0.77680338	0.5699879	0	0	0	0	0	0
cg19797659	OAZ2	4947	1.81141	0.07123132	0.282231791	1.27494094	0.57230738	0	0	0	1	1	1
cg16176301	C11orf17	56672	1.81104	0.071288593	0.282231791	1.27748291	0.55591973	0	0	0	0	0	0
cg02966329	TTK	7272	1.81101	0.071292949	0.282231791	1.27656848	0.57412263	0	0	0	0	0	0
cg27349746	UBTF	7343	1.811	0.071295368	0.282231791	1.29725957	0.56318072	0	0	0	0	0	0
cg12609467	DAG1	1605	1.81093	0.071305299	0.282231791	1.28088634	0.57296289	0	0	0	0	0	0
cg10707565	CUBN	8029	-1.81076	0.071332191	0.282231791	0.77392572	0.58425777	0	0	0	0	0	0
cg24588599	C12orf24	29902	1.81073	0.071336779	0.282231791	1.27146775	0.55970149	0	1	0	0	0	0
cg10139614	APRT	353	1.8107	0.071341019	0.282231791	1.27976276	0.56494554	0	0	0	0	0	0
cg11052068	CDC40	51362	1.81061	0.071355534	0.282231791	1.28045779	0.57139976	0	0	0	0	0	0
cg22470827	CHMP2B	25978	1.81061	0.071355609	0.282231791	1.27541221	0.56282775	0	0	0	0	0	0
cg14944362	PDYN	5173	-1.81059	0.071358877	0.282231791	0.78562679	0.55022186	0	0	0	0	1	1
cg01990334	FOXJ3	22887	1.81009	0.071436594	0.282391336	1.27665906	0.57664381	0	0	0	0	0	0
cg17824393	PTPN3	5774	-1.81004	0.071444763	0.282391336	0.78627957	0.56371017	0	0	0	0	0	0
cg05912121	TH	7054	1.81	0.071450063	0.282391336	1.27421588	0.56509681	0	0	0	0	0	0
cg03977657	LAMB3	3914	1.80995	0.071458285	0.282391336	1.27905066	0.54734772	0	1	0	0	0	0
cg09134747	ATP2C1	27032	1.80943	0.071538261	0.282608225	1.28000885	0.54770069	0	0	0	0	0	0
cg19961382	RANGAP1	5905	1.80935	0.071552059	0.282608225	1.27815954	0.56096208	0	0	0	1	1	1
cg15746620	EMR3	84658	1.80931	0.071557504	0.282608225	1.28523398	0.55486083	0	0	0	0	0	0
cg01027739	DOLPP1	57171	1.80919	0.071576065	0.282623164	1.28219465	0.5657019	0	0	0	0	0	0
cg09229231	DHRS3	9249	1.80902	0.071603325	0.282660857	1.27819645	0.54462485	0	0	0	1	1	1
cg20161179	MSX1	4487	1.80894	0.071615174	0.282660857	1.28085249	0.58037515	1	0	1	0	0	0
cg14123992	APOE	348	-1.80849	0.071686029	0.282781545	0.78123094	0.58178701	0	0	0	0	0	0
cg03260744	TEKT2	27285	-1.80847	0.071688525	0.282781545	0.77768385	0.53857402	0	0	0	0	0	0
cg11301598	OASL	8638	1.80844	0.071693203	0.282781545	1.27961487	0.55571803	0	1	0	0	0	0
cg21609430	FAM62A	23344	1.80832	0.071712665	0.282781545	1.27628275	0.56045785	0	0	0	0	0	0
cg05873268	TPSAB1	7177	1.80827	0.071719689	0.282781545	1.27984962	0.56625656	0	0	0	0	0	0
cg08205655	USP18	11274	1.80811	0.071744646	0.282821634	1.28551718	0.55612142	0	0	0	0	0	0
cg24494556	ZNF11B	7558	1.80786	0.071783537	0.282871448	1.27337726	0.54891085	0	0	0	0	0	0
cg22975568	CD74	972	-1.80768	0.071812302	0.282871448	0.76600229	0.56217225	0	0	0	0	0	0
cg08670691	CCDC27	148870	-1.80768	0.071812544	0.282871448	0.77743596	0.54598629	0	0	0	0	0	0
cg26644504	KCNE1L	23630	-1.80753	0.07183469	0.282871448	0.78182418	0.5682735	0	0	0	0	0	0
cg13728650	GPR175	131601	-1.80727	0.071876737	0.282871448	0.7768993	0.56186971	0	0	0	0	0	0
cg03642357	ADRBK2	157	1.80716	0.071893242	0.282871448	1.27804477	0.56081081	1	0	0	1	1	1
cg04802221	LOC283849	283849	-1.80715	0.071894957	0.282871448	0.78267553	0.57074425	0	0	0	0	0	0
cg06310489	SSX2	6757	-1.80709	0.071903939	0.282871448	0.78188828	0.55440702	0	0	0	0	0	0
cg20189782	MGC27121	408263	-1.80708	0.071905391	0.282871448	0.78025243	0.56348326	0	0	0	0	0	0

cg27376271	CBLN2	147381	1.80701	0.071916358	0.282871448	1.26609897	0.57064341	0	0	1	0	0
cg23881725	DLEC1	9940	1.80699	0.071919998	0.282871448	1.29150614	0.55546591	0	0	0	0	0
cg0935228	CKS1A	137529	-1.80681	0.071947284	0.282920579	0.76769259	0.56070996	0	0	0	0	0
cg09636671	LMOD1	25802	1.80664	0.071974486	0.282954009	1.27453451	0.56287818	1	0	0	0	0
cg14181459	SMAD5	4090	1.80653	0.071991293	0.282954009	1.27610261	0.55556676	0	0	0	0	1
cg10073723	BMPER	168667	1.80642	0.072009341	0.282954009	1.27381018	0.552299516	0	0	0	0	0
cg18936744	AK7	122481	1.80638	0.072014972	0.282954009	1.27324895	0.56096208	0	0	0	0	0
cg16345880	SARS	6301	1.80626	0.072033787	0.282969796	1.2735724	0.57094595	0	0	0	0	0
cg26239233	CIITA	4261	1.8059	0.072090608	0.283134841	1.28434273	0.56297902	0	0	0	0	0
cg26568669	C6orf57	135154	1.80578	0.072108549	0.28314715	1.27734987	0.55813836	0	0	0	0	0
cg16272420	PNLIPRP2	5408	-1.8055	0.072153514	0.283183949	0.78445828	0.56580274	0	0	0	0	0
cg20047732	TTC14	151613	1.80529	0.072185774	0.283183949	1.27572542	0.55233965	0	1	0	0	0
cg13516796	ALG1	56052	1.80525	0.072192921	0.283183949	1.29441585	0.55707947	0	0	0	0	0
cg11793380	C1QTNF6	114904	-1.80518	0.072202957	0.283183949	0.77756928	0.55183542	0	0	0	0	0
cg20398399	KLHL6	89857	1.80512	0.072212196	0.283183949	1.28062499	0.55803752	0	0	0	0	0
cg24549507	C6orf145	221749	-1.80503	0.072226555	0.283183949	0.786527	0.54603671	0	0	0	0	0
cg27371741	TDFG1	6997	-1.80497	0.07223607	0.283183949	0.78564119	0.57260992	0	0	0	1	0
cg25905812	DMRT1	1761	1.80497	0.072236577	0.283183949	1.28260647	0.56373538	1	0	0	0	0
cg24046110	LYNX1	66004	1.8048	0.072263351	0.283183949	1.27924305	0.56897943	0	0	0	0	0
cg12465398	PIL3	53938	1.80478	0.072266006	0.283183949	1.28817064	0.55728116	0	0	0	1	0
cg23219720	FLJ32110	219578	1.80467	0.072283538	0.283194618	1.28705744	0.58198871	0	0	0	0	0
cg02299279	UBL7	84993	1.80452	0.072306482	0.283226482	1.27647733	0.54462485	0	0	0	0	0
cg07697078	PFDN1	5201	1.80437	0.072329805	0.28325982	1.29177295	0.5665591	0	0	0	0	0
cg17383958	RRAS	6237	-1.80426	0.072347329	0.283270436	0.78220456	0.56620613	0	0	0	0	0
cg02764897	KRTAP13-1	140258	-1.80408	0.072375494	0.283322702	0.78065092	0.54427188	0	0	0	0	0
cg26538442	FLJ21736	79984	1.80371	0.072434153	0.283494297	1.29181991	0.56065954	0	0	0	0	0
cg04473030	MGMT	4255	-1.80339	0.072484248	0.283616125	0.78052318	0.56908027	0	0	0	0	0
cg03479797	CREBL1	1388	1.80332	0.072494943	0.283616125	1.278765	0.55027229	0	0	0	0	0
cg01656750	KATNB1	10300	-1.80291	0.072560176	0.283813268	0.78815673	0.5550121	0	0	0	1	0
cg07459264	NECAP2	55707	-1.80265	0.072601056	0.283915095	0.78186751	0.53070795	0	0	0	0	0
cg16706631	HIST1H4E	8367	1.80247	0.072630105	0.283970621	1.28362287	0.55420533	1	0	0	0	0
cg20424530	IRAK4	51135	1.8023	0.072655718	0.284012695	1.28634778	0.54845704	0	0	0	0	0
cg02421543	DR1	1810	1.80218	0.072675164	0.284030648	1.28578432	0.54870916	0	0	0	0	0
cg12569516	TRPS1	7227	1.80205	0.072695759	0.284053087	1.27888236	0.57477814	0	0	0	0	1
cg13966710	FLJ36116	388666	1.80179	0.07273672	0.284149707	1.2713793	0.55985276	0	0	0	0	0
cg26514942	FLJ30294	130827	-1.80149	0.072783947	0.284149707	0.77942879	0.56272691	0	0	0	0	0
cg21860846	ELK1	2002	-1.80141	0.072796903	0.284149707	0.78062898	0.55032271	0	0	0	0	0
cg04802801	PP1R11	6992	-1.80109	0.072846889	0.284149707	0.78244378	0.57866075	0	0	0	0	0
cg21087701	GPR119	139760	-1.80107	0.072850011	0.284149707	0.77849248	0.56600444	0	0	0	0	0
cg04072323	SKIP	80309	1.80107	0.072850042	0.284149707	1.272526	0.56716418	0	0	0	0	0
cg18368125	TMED6	146456	-1.80101	0.072859526	0.284149707	0.77931676	0.53675877	0	0	0	0	0
cg10244047	BAI3	577	1.80095	0.072868719	0.284149707	1.27664036	0.56534893	0	0	0	0	1

cg02078356	TMEM39B	55116	1.80093	0.072872608	0.284149707	1.27847668	0.56696249	0	0	0	0	0
cg04335339	ATRN1	26033	1.80085	0.072885248	0.284149707	1.27912993	0.55052441	0	0	0	0	0
cg20126106	TAGLN3	29114	1.80079	0.072894471	0.284149707	1.29119817	0.56943324	0	0	0	0	0
cg06444458	PBK	55872	1.80076	0.072898796	0.284149707	1.28321917	0.56192013	0	0	0	0	0
cg05301102	STX6	10228	1.80057	0.072929401	0.284159131	1.27794356	0.57119806	0	0	0	1	0
cg04775502	C6orf114	85411	1.80053	0.072936613	0.284159131	1.28683774	0.55314643	0	0	0	0	0
cg26054395	MTF2	22823	1.80047	0.072945792	0.284159131	1.28286834	0.56232352	0	0	0	0	0
cg04545708	C11orf1	64776	1.80026	0.072979202	0.284211161	1.29048549	0.55496168	0	0	1	0	0
cg00575744	HLA-DMB	3109	1.80008	0.07300735	0.284211161	1.27640965	0.57177794	0	0	0	0	0
cg02547138	RCE1	9986	-1.79995	0.07302762	0.284211161	0.78520446	0.57558491	0	0	0	0	0
cg23824815	ZNF333	84449	-1.79982	0.073048652	0.284211161	0.78690222	0.55057483	0	0	0	0	0
cg12989650	ARHGEF15	22899	-1.7998	0.073051257	0.284211161	0.77979187	0.54830577	0	0	0	0	0
cg09930017	UBC	7316	1.79975	0.073059391	0.284211161	1.28058382	0.5708451	0	0	1	0	0
cg18055007	DDAH2	23564	1.79973	0.073063335	0.284211161	1.31031094	0.5314643	0	0	0	0	0
cg13299148	COL16A1	1307	1.79958	0.0730863	0.284211161	1.2710612	0.56323114	0	0	0	0	0
cg21966410	AR	367	-1.79954	0.07309291	0.284211161	0.78764933	0.55496168	0	0	0	0	0
cg08103676	Mar-06	10299	-1.79913	0.07315693	0.28427197	0.7892509	0.55133118	0	0	0	0	0
cg02286990	CCDC28B	79140	1.79904	0.073172129	0.28427197	1.28209261	0.5393808	0	0	0	0	0
cg16824731	ILK	3611	1.79901	0.073176608	0.28427197	1.27241065	0.55561718	0	0	0	0	0
cg23362667	RIPK5	25778	1.79898	0.073181195	0.28427197	1.27832956	0.54981848	0	0	0	0	0
cg14874121	HSD17B4	3295	1.79897	0.073182876	0.28427197	1.27896497	0.56620613	0	0	0	0	0
cg24169822	HOXA4	3201	-1.79878	0.073212604	0.284285652	0.78360935	0.55425575	1	1	0	0	0
cg19372178	TMEM16G	50636	1.79847	0.073262972	0.284285652	1.2714575	0.55148245	0	0	0	0	0
cg21808053	DIRAS3	9077	1.79842	0.073269678	0.284285652	1.27517083	0.56413877	0	0	0	0	0
cg23127998	FLRT3	23767	1.79833	0.073285016	0.284285652	1.27384481	0.55975192	0	1	0	0	1
cg10716607	TOPORS	10210	1.79826	0.073295184	0.284285652	1.28027759	0.55965107	0	0	0	0	0
cg21517055	MGC11271	79173	1.79799	0.073338583	0.284285652	1.26934543	0.54457443	0	0	0	0	0
cg26353877	APCS	325	-1.79792	0.073349079	0.284285652	0.77786942	0.56348326	0	0	0	0	0
cg19546781	CCL17	6361	-1.7979	0.073352758	0.284285652	0.78125544	0.55017144	0	0	0	0	0
cg06541857	CEP63	80254	1.7979	0.073352881	0.284285652	1.28473073	0.55768455	0	0	0	0	0
cg25463135	GBP7	388646	-1.79784	0.073362428	0.284285652	0.78164811	0.55566761	0	0	0	0	0
cg03160740	VIPR1	7433	1.79776	0.073374528	0.284285652	1.26929606	0.54588544	0	0	0	0	0
cg12610744	KRT4	3851	-1.79775	0.073376407	0.284285652	0.77777998	0.54891085	0	0	0	0	0
cg22998840	TCEAL3	85012	-1.79773	0.073379659	0.284285652	0.78777056	0.55823921	1	0	0	0	0
cg01173291	ZSCAN2	54993	1.7976	0.073401383	0.284312214	1.28116109	0.55324728	0	0	0	0	0
cg15955341	GSTM4	2948	1.79749	0.073418717	0.284321766	1.27118672	0.56887858	0	0	0	0	0
cg15377518	ZFXH1B	9839	1.79736	0.073439151	0.284343316	1.2801773	0.53499395	1	0	0	1	0
cg18399025	ELOVL3	83401	1.7972	0.07346428	0.284383032	1.27659366	0.53998588	1	0	0	0	0
cg02712845	DPA GT1	1798	1.79697	0.073500369	0.284465148	1.27368215	0.5663574	0	0	0	1	0
cg02909790	HIST1H3G	8355	1.79663	0.073554781	0.28449788	1.27646387	0.58067769	1	0	0	0	0
cg12478185	SCO1	6341	1.79663	0.073554906	0.28449788	1.27889725	0.56267648	0	0	0	0	0
cg10642330	NNAT	4826	1.79655	0.07356725	0.28449788	1.28065387	0.57029044	0	0	0	0	0

cg12542281	PFAAP5	10443	1.79654	0.073568985	0.28449788	1.29579773	0.55198669	0	0	0	0
cg13553204	CNKSR1	10256	-1.79645	0.073583213	0.28449788	0.78099831	0.55763413	0	0	0	0
cg08697242	CA14	23632	-1.79629	0.073609014	0.284540106	0.77564586	0.55264219	0	0	0	0
cg21302727	TACC2	10579	-1.79605	0.073647346	0.284630745	0.77898553	0.54669222	0	0	0	0
cg24494008	SMC4L1	10051	1.79596	0.073662279	0.284630936	1.27973691	0.55324728	0	0	0	0
cg21129531	LRRC4	64101	-1.79583	0.073682124	0.284650097	0.78345257	0.56050827	0	0	0	0
cg04195127	WFDIC1	58189	1.79553	0.073730798	0.2846979	1.2865822	0.56696249	0	0	0	0
cg11346450	UGT1A3	54659	-1.79549	0.073736195	0.2846979	0.7831539	0.54926382	0	0	0	0
cg25136045	SDCCAG10	10283	1.79548	0.073739161	0.2846979	1.27897813	0.55440702	0	0	0	0
cg26217633	NLE1	54475	1.7953	0.073766537	0.284746107	1.2795896	0.55995361	0	0	0	0
cg07959477	CLEC1A	51267	-1.7951	0.073799752	0.284778096	0.78138179	0.55748286	0	0	0	0
cg06611310	LOC129285	129285	1.7949	0.073831088	0.284778096	1.26740904	0.55395321	0	0	0	0
cg19311602	FLJ10006	55677	1.79483	0.073842103	0.284778096	1.27949485	0.57296289	0	0	1	0
cg09360083	THYN1	29087	-1.79477	0.073851747	0.284778096	0.77516233	0.54664179	0	0	0	0
cg02374486	PRF1	5551	-1.79474	0.073856737	0.284778096	0.78501323	0.54578459	0	0	0	0
cg00495415	SP1	6667	1.79462	0.07387648	0.284778096	1.2687325	0.56988705	0	0	0	0
cg20492933	MRPL22	29093	1.7944	0.073911605	0.284778096	1.28592453	0.56131505	0	0	0	0
cg19110355	WWP2	11060	1.79426	0.073932714	0.284778096	1.27756387	0.55117991	0	0	0	1
cg09819033	CREBL2	1389	1.79426	0.073933952	0.284778096	1.27519205	0.57351755	0	0	0	0
cg22543648	GATA1	2623	-1.79425	0.073935009	0.284778096	0.78466659	0.55697862	0	0	0	1
cg10377211	SMBP	56889	1.79399	0.073976233	0.284778096	1.26567406	0.55874345	0	0	0	0
cg23291865	C20orf30	29058	-1.79398	0.073978348	0.284778096	0.78067277	0.56434046	0	0	0	0
cg05641961	CIB1	10519	-1.79393	0.073986915	0.284778096	0.78051532	0.5507261	0	0	0	1
cg24073161	ZNF403	79893	1.79388	0.073994276	0.284778096	1.28021045	0.56020573	0	0	0	0
cg17417191	CGI-115	51018	1.79385	0.073998204	0.284778096	1.26717549	0.58067769	0	0	0	0
cg25370441	FLJ20184	54848	-1.79347	0.074059943	0.284912509	0.7729101	0.56176886	1	0	0	0
cg25494064	TMOD1	7111	-1.79345	0.074062928	0.284912509	0.78606466	0.55808794	0	0	0	0
cg12424817	LAPTM4B	55353	1.79308	0.074121995	0.28495635	1.27165597	0.54991932	0	0	0	1
cg06493386	TRPA1	8989	-1.79271	0.074181045	0.28495635	0.7814908	0.54951593	1	0	0	0
cg07818646	FLJ11712	79621	1.79267	0.07418766	0.28495635	1.27048232	0.56272691	0	0	0	0
cg08612601	ZBTB12	221527	1.79267	0.074187799	0.28495635	1.26293222	0.55007059	0	0	0	0
cg23702568	KIAA0261	23063	1.79258	0.074202788	0.28495635	1.27571466	0.55597015	0	0	0	0
cg07494248	HSPD1	3329	1.79252	0.074212076	0.28495635	1.27045199	0.56348326	0	0	0	0
cg00094851	KIF3C	3797	-1.79252	0.074212368	0.28495635	0.79099882	0.56842477	0	0	0	0
cg22539738	KIAA1704	55425	-1.7922	0.074263343	0.28495635	0.77821738	0.57260992	0	0	0	0
cg25697050	INPP5D	3635	-1.79216	0.074270338	0.28495635	0.78404937	0.54991932	0	0	0	0
cg02579133	KRTAP10-8	386681	-1.79196	0.074301417	0.28495635	0.77157669	0.57523195	0	0	0	0
cg15918284	GABRA2	2555	1.79188	0.074314382	0.28495635	1.28189924	0.56600444	1	0	0	0
cg25824330	MGRS18A	55168	1.79177	0.074332621	0.28495635	1.26697369	0.56908027	0	0	0	0
cg16419345	ACOX1	51	1.79174	0.07433721	0.28495635	1.28744861	0.57497983	0	0	0	0
cg04326040	VPS53	55275	1.79155	0.074368392	0.28495635	1.28381843	0.55834006	0	0	0	0
cg09040752	AOC3	8639	1.79145	0.074384541	0.28495635	1.27044672	0.5672146	0	0	0	0

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cg15448599	C3orf45	132228	-1.78679	0.075137102	0.285457757	0.78608621	0.55970149	0	0	0
cg22318304	SPA17	53340	1.78678	0.075137356	0.285457757	1.28439639	0.56383622	0	0	0
cg10732834	KIAA1632	57724	-1.78675	0.07514329	0.285457757	0.78582023	0.55430617	0	0	0
cg12554476	GP2	2813	-1.78673	0.075145422	0.285457757	0.77730615	0.57432432	0	0	0
cg09618028	COX11	1353	1.7867	0.075150592	0.285457757	1.274781	0.56792053	0	0	0
cg21026663	HIST1H4D	8360	1.78656	0.075173393	0.285457757	1.27423598	0.55975192	1	0	0
cg17067942	C5orf14	79770	-1.78646	0.075190238	0.285457757	0.78047245	0.55813836	0	0	0
cg13801381	C6ND2	894	1.78633	0.075210269	0.285457757	1.2803569	0.55319685	0	0	0
cg20868410	HBEFG	1839	1.78627	0.075220217	0.285457757	1.27638893	0.54074224	0	0	0
cg05680424	BPGM	669	1.78627	0.07522036	0.285457757	1.27232494	0.57397136	0	0	0
cg01036173	C9orf46	55848	1.78612	0.075244377	0.285457757	1.27086895	0.53756555	0	0	0
cg14037665	PXDN	7837	1.78611	0.075246339	0.285457757	1.27065455	0.55153288	0	0	0
cg19944367	RGS3	5998	-1.78609	0.075249591	0.285457757	0.78167005	0.55007059	0	0	1
cg10432620	FA2H	79152	1.78581	0.07529545	0.285575071	1.27457403	0.55773497	0	0	0
cg21561142	DEK	7913	1.78571	0.075311906	0.285580844	1.27210845	0.55763413	0	0	0
cg20028291	BCAS4	55653	-1.78543	0.075357521	0.285632495	0.78458823	0.55576846	0	0	0
cg15835825	HTR5A	3361	1.78528	0.075381574	0.285632495	1.28063592	0.55334812	0	0	0
cg00891278	CDC37	348807	-1.78526	0.075384371	0.285632495	0.78534605	0.55556676	0	0	0
cg13439299	DNAJC5G	285126	-1.78526	0.075385274	0.285632495	0.78338643	0.57538322	0	0	0
cg16756620	PIIG	9360	1.78514	0.075404002	0.285646858	1.28205847	0.56504639	0	0	0
cg27655585	CST9L	128821	-1.78479	0.075461864	0.285685831	0.78703947	0.53484268	0	0	0
cg12844497	AURKB	9212	1.78474	0.075468655	0.285685831	1.28150411	0.56126462	0	0	0
cg15437432	TMED9	54732	1.78474	0.075468787	0.285685831	1.26871277	0.55627269	0	0	0
cg03005261	FLJ20647	55013	1.78463	0.075487513	0.285685831	1.28571433	0.56726503	0	0	0
cg22415472	SLC5A7	60482	-1.78457	0.075497491	0.285685831	0.78783554	0.56600444	0	0	0
cg00569620	ABHD10	55347	1.78453	0.075503926	0.285685831	1.27780613	0.56660952	0	0	0
cg11662098	GOPC	57120	1.78409	0.075575273	0.285899219	1.26696153	0.56701291	0	1	0
cg23243617	CAMK1	8536	1.78387	0.075611534	0.285940811	1.27049313	0.58017346	0	0	0
cg16806347	FUK	197258	1.78377	0.075627518	0.285940811	1.27788964	0.55289431	0	0	0
cg20193716	MGAT1	4245	1.78371	0.07563711	0.285940811	1.28353297	0.55148245	0	0	0
cg07084709	Gcom1	145781	-1.78363	0.075650722	0.285940811	0.78844596	0.54699476	0	0	0
cg2560190	CNTN1	1272	-1.78349	0.075672918	0.285940811	0.78486706	0.5453812	0	0	0
cg01693350	WT1	7490	1.78347	0.075675985	0.285940811	1.27508391	0.56524808	1	0	0
cg15665653	WDTC1	23038	-1.7833	0.07570368	0.285975029	0.78553396	0.54936466	0	0	1
cg26359204	NKG6-1	4825	1.78322	0.075716744	0.285975029	1.27650538	0.57094595	1	0	0
cg19332303	COMMD2	51122	1.78314	0.075729904	0.285975029	1.26632217	0.54835619	0	0	0
cg22954818	POBEC3A	200315	-1.78299	0.075754761	0.286012413	0.78867768	0.56393707	0	0	0
cg00386408	TGFB1	7045	1.78267	0.07580694	0.286141384	1.26565691	0.57210569	0	0	0
cg24568646	CCT8	10694	1.78256	0.075824161	0.286141384	1.28853068	0.55894514	0	0	0
cg06436504	DOC1	11259	-1.7825	0.07583381	0.286141384	0.78125984	0.57800524	0	0	0
cg22139878	IFIT5	24138	1.78217	0.075888673	0.286155962	1.2719419	0.56544978	0	1	0
cg11792664	UQR	10975	1.78208	0.075903889	0.286155962	1.27913467	0.55128076	0	0	0

cg08214328	CTPS2	56474	1.78206	0.075905781	0.286155962	1.27171264	0.54790238	1	0	0	0
cg12072001	SPON2	10417	1.78204	0.075909511	0.286155962	1.26774558	0.56257564	1	0	0	0
cg02212280	MMP1	4312	-1.78202	0.075912494	0.286155962	0.78369961	0.54243142	0	0	0	0
cg19118533	TRAF3IP2	10758	1.78193	0.075927574	0.286156399	1.27607583	0.57800524	0	0	0	0
cg01242619	PLEC1	5339	1.78149	0.075998885	0.286331037	1.2761771	0.5577854	1	0	0	0
cg27257408	ACSBG1	23205	-1.78139	0.076016465	0.286331037	0.7838502	0.56237394	0	0	0	0
cg26701826	MGC26963	166929	1.78137	0.076018831	0.286331037	1.28943832	0.57956837	0	0	0	0
cg10174687	FAM98B	283742	1.78113	0.076057931	0.286370228	1.27680652	0.55561718	0	0	0	0
cg26359240	HSDL1	83693	-1.78113	0.076059187	0.286370228	0.78114644	0.54840662	0	0	0	0
cg09997082	GIPR	2696	1.78101	0.076078508	0.286386589	1.26726485	0.56081081	0	0	0	0
cg06499565	NDRG3	57446	1.78092	0.076093718	0.286387469	1.27305805	0.54326341	0	0	0	0
cg06473539	NOS1AP	9722	1.78076	0.076118704	0.286425135	1.27380909	0.56323114	0	0	0	0
cg04275881	SLAMF8	56833	1.7802	0.07621168	0.286718573	1.2727998	0.55117991	0	0	0	0
cg23403256	MBD1	4152	1.77993	0.076255929	0.286797413	1.26370712	0.57936668	0	0	0	0
cg24527001	NDUFB1	4707	1.77989	0.076262631	0.286797413	1.27756222	0.56217225	0	0	0	0
cg26380756	JOSD1	9929	-1.77954	0.076320097	0.286883001	0.770828	0.5584409	0	0	1	0
cg19108718	LOC317671	317671	1.77952	0.076322499	0.286883001	1.27549222	0.55294474	0	0	0	0
cg13059782	CNTNAP3	79937	-1.77938	0.076345958	0.286883001	0.78869483	0.52501009	0	0	1	0
cg19657082	ZMPSTE24	10269	1.77926	0.076364798	0.286883001	1.26941275	0.56403792	0	0	0	0
cg20449692	CLDN11	5010	1.77926	0.076365155	0.286883001	1.26098652	0.56973578	0	0	0	0
cg16959606	ATP1B1	481	1.77905	0.07640033	0.286883001	1.29179492	0.55707947	0	0	0	0
cg03001647	MPZL1	9019	1.77903	0.076402722	0.286883001	1.27419003	0.56025615	0	0	0	0
cg26097271	MED6	10001	1.77896	0.076414733	0.286883001	1.27454176	0.56580274	0	0	0	0
cg19055458	MYLIP	29116	1.77892	0.076420408	0.286883001	1.28757015	0.56086123	0	0	0	1
cg17981339	SBEM	118430	-1.77868	0.076461112	0.286979464	0.78571583	0.57099637	0	0	0	0
cg16525761	RPL34	6164	1.77841	0.076505534	0.287089848	1.2788018	0.55879387	0	0	0	1
cg06417225	PEBP1	5037	1.77828	0.076526649	0.287091533	1.26762926	0.5725595	0	0	0	0
cg11554937	HSD17B3	3293	-1.77815	0.076548412	0.287091533	0.77780491	0.56756757	0	0	0	0
cg25960567	ITPR2	3709	1.77813	0.076551022	0.287091533	1.27077623	0.56693727	0	0	0	0
cg19816938	ABR	29	1.77772	0.076618457	0.287288093	1.27592595	0.56232352	0	0	0	0
cg12377712	ATP6V1G1	9550	1.77745	0.076662987	0.287376573	1.28228237	0.5648447	0	0	1	0
cg21835622	DPYSL3	1809	1.7774	0.07667211	0.287376573	1.26530897	0.55733159	0	0	1	1
cg01254505	BST2	684	1.77708	0.076724866	0.287517955	1.28093195	0.54533078	0	0	0	0
cg21893220	SMC2L1	10592	1.77695	0.076745815	0.287527613	1.27170797	0.56565147	0	0	0	0
cg02207610	PPPIR12C	54776	1.77688	0.076757515	0.287527613	1.27805729	0.5524405	0	0	0	0
cg22182945	NYD-SP26	85438	-1.77667	0.076791575	0.287595361	0.77913421	0.56832392	0	0	0	0
cg11407505	FBXO27	126433	1.77659	0.076805679	0.287595361	1.29249331	0.54754942	0	0	0	0
cg04452428	STMN3	50861	-1.77648	0.076823199	0.287604648	0.7876456	0.57018959	0	0	0	0
cg23761264	PLCG1	5335	1.77637	0.076841555	0.28761706	1.26240721	0.57008875	0	0	0	0
cg13847113	MGC24975	163154	-1.77582	0.076931604	0.287846527	0.77469729	0.55269262	0	0	0	0
cg09793197	ROPN1	54763	-1.77575	0.076944494	0.287846527	0.77396526	0.55294474	0	0	0	0
cg26751631	RNF12	51132	1.77569	0.076953903	0.287846527	1.27294872	0.57639169	0	0	0	0

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cg05463705	ZNF143	7702	1.76768	0.078287362	0.290413895	1.27353133	0.55707947	0	0	0
		203569	-1.76738	0.078337406	0.290543175	0.78823108	0.55395321	0	0	0
cg05996238	PAGE2	27349	-1.76716	0.078373929	0.290586802	0.7930615	0.57558491	0	0	0
cg14078309	MT	5704	1.76713	0.07837956	0.290586802	1.26932782	0.56151674	0	0	0
cg25163134	PSMC4	91584	-1.76676	0.078442094	0.29076227	0.77598027	0.56000403	0	0	0
cg06084117	PLXNA4B	3843	1.76664	0.07846196	0.290779546	1.2580076	0.56015531	0	0	0
cg01679262	RANBP5	3843	-1.76632	0.078515846	0.290906153	0.77734901	0.57013917	0	0	0
cg05064181	ABLIM1	3983	1.76632	0.078515846	0.290906153	1.27201969	0.55904599	1	0	0
cg08035942	ZADH2	284273	1.76602	0.078565325	0.290906153	0.78566879	0.54825535	0	0	0
cg13053396	C1S	716	-1.7659	0.07858551	0.290906153	1.27821825	0.55869302	0	0	0
cg20320468	LAI1	3903	1.7659	0.07858568	0.290906153	0.7866907	0.56580274	0	0	0
cg08906015	MGC15476	147906	-1.76587	0.078591061	0.290906153	1.27431428	0.556071	0	0	0
cg22857957	FMO5	2330	1.76579	0.078604512	0.290906153	0.78182192	0.55662566	0	0	0
cg23158022	FLJ21742	84167	-1.76578	0.078606545	0.290906153	0.78687146	0.55904599	0	0	0
cg25677688	TAS2R48	259294	-1.7656	0.078637185	0.290906153	1.26943318	0.57780355	0	0	0
cg07971188	HCP5	10866	1.76534	0.078680591	0.290906153	0.78406357	0.5498689	0	0	0
cg17788013	SPINK5	11005	-1.76524	0.078696802	0.290906153	1.2738798	0.57245865	0	0	1
cg19191401	SRGAP1	57522	1.76516	0.078711485	0.290906153	1.27664168	0.56212182	1	0	0
cg17718302	HIST1H3J	8356	1.76502	0.078734311	0.290906153	0.79113394	0.57639169	0	0	0
cg13446199	PSCA	8000	-1.76491	0.078753161	0.290906153	0.78272787	0.56988705	0	0	0
cg13555884	CTGLF1	119016	-1.76489	0.078755936	0.290906153	1.26631237	0.54689391	0	0	0
cg05492845	VEGFB	7423	1.76487	0.078759482	0.290906153	0.78170953	0.53751513	0	0	0
cg18712919	BRE	9577	-1.76466	0.078794342	0.290906153	1.2706246	0.53201896	0	0	0
cg15383574	ATP5S	27109	1.76456	0.078811122	0.290906153	1.27154502	0.56509681	0	0	0
cg09298289	CENPH	64946	1.76455	0.078813105	0.290906153	1.26545154	0.55460871	0	0	1
cg11321895	PLAG1	5324	1.76449	0.078824338	0.290906153	0.78546776	0.55228923	0	0	0
cg18755204	FAM45A	404636	-1.76447	0.078826778	0.290906153	1.27005714	0.56192013	0	0	0
cg22655895	WDR40A	25853	1.76444	0.078832902	0.290906153	1.27743234	0.55203711	1	0	0
cg06516124	WT1	7490	1.76439	0.078839951	0.290906153	1.26803965	0.564643	1	0	0
cg10741760	HTR6	3362	1.76436	0.078846009	0.29106296	1.27212502	0.54069181	0	1	0
cg13744304	UNC50	25972	1.76402	0.07890373	0.291208074	0.78738767	0.56908027	0	0	0
cg00075967	STRA6	64220	-1.76369	0.078958297	0.291396411	1.27909741	0.57175272	0	0	0
cg08733774	RANBP2	5903	1.76304	0.079067626	0.291396411	1.26887488	0.54291045	0	0	0
cg14547335	ATP2B2	491	1.76301	0.079074042	0.291396411	1.27501876	0.57230738	0	0	0
cg09163442	SEC61G	23480	1.7629	0.07909171	0.291396411	1.29556299	0.58324929	0	0	0
cg25346972	C14orf112	51241	1.76274	0.079118699	0.291396411	1.26895631	0.55445744	0	0	0
cg07444907	UBLCP1	134510	1.76271	0.07912484	0.291396411	0.79273881	0.55743243	0	0	0
cg26259865	LOC124220	124220	-1.76263	0.079138226	0.291396411	1.26559736	0.56413877	1	0	0
cg08797106	HIST1H3A	8350	1.76249	0.079162253	0.291396411	1.27149833	0.55965107	0	0	0
cg22283148	LSM6	11157	1.76247	0.07916449	0.291396411	0.7801348	0.57311416	0	0	0
cg01469547	OR5P3	120066	-1.76245	0.079168202	0.291396411	1.28654491	0.55743243	0	0	0
cg15111734	C10orf13	143282	1.76242	0.079172743	0.291396411	1.29242833	0.56429004	0	1	0
cg04581377	SLC35F2	54733	1.7624	0.079176981	0.291396411					

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cg03532957	CHSY1	22856	1.75584	0.080292771	0.29297534	1.26234721	0.52415288	1	0	0	0
cg23202409	C11orf48	79081	1.75584	0.080293691	0.29297534	1.28049623	0.55183542	0	0	0	0
cg05492113	TUB	7275	-1.75583	0.080295429	0.29297534	0.78351528	0.56534893	0	0	0	0
cg21537939	Sep-10	151011	-1.75568	0.080320407	0.29301057	0.79290795	0.52677491	0	0	0	0
cg14116122		8092	1.75467	0.080493102	0.293458996	1.2712392	0.57422348	1	0	0	0
cg20988616	ENPP3	5169	-1.75463	0.080500839	0.293458996	0.78701458	0.55516337	0	0	0	0
cg01528948	ADH1B	125	1.75463	0.080501097	0.293458996	1.27071091	0.57518153	0	0	0	0
cg05055150	MAG	4099	1.7546	0.080505951	0.293458996	1.26225169	0.54860831	0	0	0	0
cg18844850	COPS7A	50813	1.75437	0.08054541	0.293458996	1.27884793	0.56363453	0	0	0	0
cg17509612	C9orf78	51759	1.75434	0.080550664	0.293458996	1.26926168	0.55874345	0	0	0	0
cg02633817	FXYD3	5349	-1.75405	0.080600663	0.293458996	0.77579572	0.55990319	0	0	0	0
cg15076218	PIK3R3	8503	1.75399	0.080611252	0.293458996	1.27444756	0.5770472	0	0	0	1
cg06850526	MGC15523	124565	1.75394	0.080619327	0.293458996	1.26499901	0.55909641	0	0	0	0
cg01495509	KCNMB1	3779	1.75383	0.080638718	0.293458996	1.2769423	0.55970149	0	0	0	0
cg20425130	KLHL6	89857	1.75382	0.080639339	0.293458996	1.26522129	0.55173457	0	0	0	0
cg17692403	R3HDM1	140902	1.75375	0.080651219	0.293458996	1.27308781	0.56136547	0	0	0	0
cg20956373	USP48	84196	1.75371	0.080657997	0.293458996	1.25904525	0.55133118	0	0	0	0
cg11908570	KIAA0040	9674	1.75371	0.080658173	0.293458996	1.26781453	0.56302945	0	0	0	0
cg12884406	COL11A1	1301	1.75305	0.080771779	0.293816426	1.26896809	0.56539936	0	0	0	0
cg16837769	NDUFA4	4697	1.7529	0.080797149	0.293852816	1.27320806	0.58355184	0	0	0	0
cg06812033	NKD1	85407	-1.75259	0.08085167	0.293900023	0.78663298	0.57997176	1	0	0	1
cg15188688	CDC45L	8318	-1.75253	0.080861981	0.293900023	0.77563526	0.5532977	0	0	1	0
cg11320084	RNF2	6045	-1.75245	0.080874585	0.293900023	0.78607703	0.5639875	1	0	1	0
cg07651857	RNF4	6047	1.7523	0.080901848	0.293900023	1.26165957	0.56439088	0	0	0	0
cg11360149	OR2V2	285659	-1.75228	0.08090373	0.293900023	0.78555416	0.58345099	0	0	0	0
cg26212229	SNRPD1	6632	-1.75206	0.080943136	0.293900023	0.77807402	0.56575232	0	1	0	0
cg22972055	UNC84A	23353	-1.75205	0.080944977	0.293900023	0.78374717	0.56015531	0	0	0	0
cg10493166	PTGS1	5742	1.75193	0.080964208	0.293900023	1.26714107	0.56454215	0	0	0	0
cg15933546	DNAH8	1769	-1.75187	0.080974534	0.293900023	0.78232348	0.57462687	0	0	0	0
cg14449051	SLC6A15	55117	1.75187	0.080975759	0.293900023	1.25800452	0.5881908	0	0	0	1
cg21599792	FZD4	8322	1.75185	0.080979188	0.293900023	1.27166762	0.55965107	0	0	0	0
cg09888137	ACTR1A	10121	1.75165	0.081013398	0.293968393	1.26799203	0.54049012	0	0	1	0
cg13391638	FLJ13576	64418	1.75146	0.081046283	0.294015808	1.268062	0.56474385	0	0	0	0
cg25151806	ELOVL2	54898	-1.75132	0.081070553	0.294015808	0.78451458	0.54588544	1	0	0	0
cg14962548	TXNDC9	10190	1.7513	0.081072591	0.294015808	1.27300901	0.59000605	0	0	0	0
cg22340747	GATM	2628	-1.75101	0.08112401	0.294125691	0.7839538	0.54966721	1	0	0	0
cg14070647	RPO2	340419	1.75095	0.081133652	0.294125691	1.26495475	0.56045785	0	0	0	0
cg04999691	C7orf29	113763	1.75085	0.081151261	0.29413377	1.27263201	0.55894514	0	1	0	0
cg13277160	LOC151194	151194	-1.75057	0.081199302	0.294141579	0.78838273	0.55395321	0	0	0	0
cg01692815	AP3B1	8546	1.75037	0.081233259	0.294141579	1.27606293	0.5717023	0	0	1	0
cg08440425	LRRC51	220074	1.75037	0.081233966	0.294141579	1.26768278	0.5419524	0	0	0	0
cg09918512	CWF19L2	143884	-1.75036	0.081235607	0.294141579	0.78335745	0.563323114	0	0	0	0

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cg05418487	KCNQ1	3784	1.7391	0.083200866	0.296559965	1.2670144	0.55526422	1	0	0	0	0
cg14517922	SKP1P1	6922	-1.73883	0.083247902	0.296672324	0.78926863	0.57039129	0	0	0	0	0
cg16267059	MFAP1	4236	1.73871	0.08326958	0.296694284	1.27319459	0.57205526	0	1	0	0	0
cg02755455	JAK1	3716	-1.73844	0.083317827	0.296810888	0.79062758	0.5428096	0	0	0	0	0
cg17452384	MAPK10	5602	-1.73826	0.083348943	0.296866433	0.79165756	0.55854175	0	0	0	1	0
cg04166304	C14orf106	55320	1.73815	0.083367429	0.296876981	1.26531734	0.56534893	0	0	0	0	0
cg11099291	MGC14376	84981	1.73762	0.083462396	0.297126218	1.27725481	0.55249092	0	0	0	0	0
cg14325649	RBMS1	5937	1.73757	0.083470241	0.297126218	1.28169701	0.56802138	0	0	0	1	0
cg21422622	RUTC3	27352	1.73749	0.083484032	0.297126218	1.26529047	0.56333199	0	0	0	0	0
cg14294758	LSAMP	4045	1.73655	0.083651149	0.29763804	1.26812169	0.57387051	0	0	0	1	0
cg16692761	TAF1B	9014	1.73651	0.083658968	0.29763804	1.269911	0.56736587	0	0	0	0	0
cg12434258	FLJ90396	163049	1.73621	0.083711537	0.297769668	1.26643622	0.56524808	0	0	0	0	0
cg16005443	LILRB3	11025	-1.73593	0.083761768	0.297875202	0.79373534	0.55924768	0	0	0	0	0
cg06253734	ADAM10	102	-1.73587	0.083772359	0.297875202	0.78665322	0.53817063	0	0	0	0	0
cg02735071	EIF3S3	8667	1.73558	0.083822781	0.297999081	1.27213842	0.56897943	0	0	0	0	0
cg03759077	ARL6IP6	151188	1.73532	0.083869328	0.29803292	1.25740811	0.54850746	0	0	0	0	0
cg07264679	CD163	9332	-1.73529	0.083874324	0.29803292	0.78520312	0.55718032	0	0	0	0	0
cg11504646	RTP1	132112	-1.73526	0.0838801	0.29803292	0.78581294	0.55576846	0	0	0	0	0
cg26813908	CCDC55	84081	1.73517	0.083896232	0.29803292	1.26638031	0.56146632	0	0	0	0	0
cg01322079	SFT2D1	113402	1.73509	0.083910225	0.29803292	1.27197163	0.57180315	0	0	0	0	0
cg03837075	ERO1L	30001	1.73492	0.083939536	0.298051671	1.27076383	0.54517951	0	0	0	1	0
cg13133148	SNAPC5	10302	-1.73488	0.083947912	0.298051671	0.79484963	0.56116378	0	0	0	0	0
cg26709720	B3GALT5	10317	-1.73479	0.083962263	0.298051671	0.78734974	0.55551634	0	0	0	0	0
cg24529858	F11	2160	1.73469	0.083980792	0.29805496	1.25608852	0.55138161	0	0	0	0	0
cg07686479	LMX1A	4009	1.73446	0.08402122	0.29805496	1.25585933	0.55511295	0	0	0	1	0
cg27072387	LTBP1	4052	1.73446	0.08402168	0.29805496	1.27618814	0.58082896	0	0	0	1	0
cg22858288	SLC22A18	5002	1.73425	0.084058481	0.29805496	1.26210777	0.54785196	0	0	0	0	0
cg21918500	ZNF124	7678	-1.73412	0.084082751	0.29805496	0.78751658	0.52707745	0	0	0	0	0
cg22477592	ATM	472	1.73411	0.084084373	0.29805496	1.26446533	0.57311416	0	0	0	0	0
cg14242091	TOP3B	8940	1.73409	0.084087267	0.29805496	1.26928805	0.56711376	0	0	0	0	0
cg03021892	SLC38A5	92745	-1.73408	0.084088972	0.29805496	0.78713623	0.54286002	0	0	0	0	0
cg24641737	DENND2D	79961	1.734	0.084103466	0.29805496	1.27150239	0.57316458	0	0	0	0	0
cg01429181	WDR42A	50717	1.73378	0.08414298	0.298078579	1.27197361	0.56625656	0	0	0	0	0
cg02033116	GPATC1	55094	1.73369	0.084158142	0.298078579	1.26249607	0.57533328	0	0	0	0	0
cg01269795	BTN3A3	10384	1.73369	0.08415846	0.298078579	1.25579958	0.57654296	0	0	0	0	0
cg24335895	COX7A1	1346	1.73361	0.08417248	0.298078579	1.26986445	0.54694433	0	0	0	0	0
cg15746719	DAPK1	1612	1.73349	0.084193377	0.298097375	1.26721991	0.58672852	0	0	0	0	0
cg02879662	HIF3A	64344	-1.73315	0.084254506	0.298168817	0.79165285	0.55405405	0	0	0	0	0
cg14203179	GNAS	2778	1.73315	0.084255043	0.298168817	1.28552881	0.55198669	1	0	0	1	0
cg25034557	PACS1	55690	1.73312	0.084260331	0.298168817	1.26370496	0.5665591	0	0	0	0	0
cg15972617	GM2A	2760	1.73286	0.084306708	0.298171789	1.26532134	0.55823921	0	0	0	0	0
cg00143998	HIST3H2BB	128312	1.73283	0.084312217	0.298171789	1.26375781	0.54946551	0	1	0	0	0

cg12391921	ITGB1BP2	26548	-1.73277	0.084321472	0.298171789	0.79102093	0	0	0	0	0	0
cg21493583	CRIP1	9419	1.73265	0.084343894	0.298171789	1.27958932	0	0	0	0	0	0
cg15142488	LYPD4	147719	-1.73245	0.084380141	0.298171789	0.78783193	0	0	0	0	0	0
cg27324619	P1B5PA	27124	-1.7324	0.084387445	0.298171789	0.79375492	0	0	0	0	0	0
cg16511708	SS18	6760	1.73237	0.084394085	0.298171789	1.26718429	0	0	0	0	0	0
cg00321478	CRB1	23418	-1.73233	0.084400221	0.298171789	0.78413587	0	0	0	0	0	0
cg04230869	RYM2B	50484	1.73228	0.084409368	0.298171789	1.27605744	0	0	0	0	0	0
cg26130726	CYB5R4	51167	1.73224	0.084417095	0.298171789	1.26225509	0	0	0	0	0	0
cg14667033	TMEM2	23670	1.73186	0.084484974	0.298350645	1.27301462	0	0	0	0	0	0
cg23326785	TMEM25	84866	1.73178	0.084498935	0.298350645	1.27127639	0	0	0	0	0	0
cg05596756	FAM113B	91523	1.73161	0.084529583	0.29840376	1.27796143	0	0	0	0	0	0
cg24388263	FLJ10374	55702	-1.73129	0.084586452	0.298549404	0.79311555	0	0	0	1	0	0
cg11070419	C4BPA	722	-1.7309	0.08465672	0.298648777	0.79205084	0	0	0	0	0	0
cg11308639	BMP10	27302	-1.73081	0.084671672	0.298648777	0.78915014	0	0	0	0	0	0
cg08260891	PPGB	5476	1.73073	0.084686373	0.298648777	1.2628165	0	0	0	0	0	0
cg211165219	FAM38B	63895	-1.73069	0.08469436	0.298648777	0.78428214	0	0	0	0	0	0
cg14176836	ITGAL	3683	1.73054	0.084719833	0.298648777	1.27664717	0	0	0	0	0	0
cg15170424	TMEM55A	55529	1.73054	0.084720376	0.298648777	1.27086073	0	1	0	0	0	0
cg00032666	CXorf6	10046	-1.73052	0.084723928	0.298648777	0.79060071	0	0	0	0	0	0
cg07473175	AMIGO2	347902	1.7304	0.084745636	0.298670243	1.26467361	0	0	0	1	1	0
cg06723357	CUEDC1	404093	-1.7301	0.084799635	0.298729055	0.78730593	1	0	0	0	0	0
cg20591405	RAB6B	51560	1.73008	0.084802787	0.298729055	1.25534507	0	0	0	0	0	0
cg25842633	SCUBE1	80274	1.73004	0.084809188	0.298729055	1.2672586	0	0	0	0	0	0
cg11074362	DENND4C	55667	-1.72993	0.084829788	0.298746588	0.78994924	0	0	0	0	0	0
cg09822907	EME1	146956	1.72944	0.08491703	0.298957341	1.26179991	0	0	0	0	0	0
cg05592398	LIMK1	3984	1.72942	0.084920899	0.298957341	1.26577773	0	1	0	0	0	0
cg02178898	MTRF1	9617	1.72931	0.084941181	0.298973704	1.27341827	0	1	0	0	0	0
cg03271651	POGF	23126	1.72894	0.085006008	0.299060078	1.26434824	0	0	0	0	0	0
cg07456201	UMOD	7369	-1.72893	0.085007964	0.299060078	0.78914662	0	0	0	0	0	0
cg27219973	GNRHR	2798	-1.72882	0.085028858	0.299060078	0.79156214	0	0	0	0	0	0
cg09217923	TAAR2	9287	-1.72861	0.085065781	0.299060078	0.78886185	0	0	0	0	0	0
cg10920957	JPH3	57338	1.7286	0.085067004	0.299060078	1.26049186	0	0	0	0	0	0
cg06384053	FLJ20010	54494	1.72857	0.085073891	0.299060078	1.26419458	0	0	0	0	0	0
cg24758027	PKIB	5570	1.72838	0.085108168	0.299060078	1.27598141	0	0	0	1	0	0
cg03065202	MGC17330	113791	1.72826	0.085127985	0.299060078	1.26201201	0	0	0	0	0	0
cg10970251	SLC25A22	79751	-1.72823	0.085133702	0.299060078	0.79994475	0	0	0	0	0	0
cg02119229	BCDO2	83875	1.72818	0.085142626	0.299060078	1.26881386	0	0	0	0	0	0
cg25745343	PLEKHB2	55041	1.72818	0.085143949	0.299060078	1.26698773	0	1	0	0	0	0
cg08826839	FAP	2191	-1.72812	0.085153386	0.299060078	0.78962555	0	0	0	0	0	0
cg21638219	PHYH2	26061	1.72781	0.085209726	0.299198135	1.2662504	0	0	0	0	0	0
cg15669092	TUBB3	10381	1.72773	0.085223988	0.299198135	1.25722821	0	0	0	0	0	0
cg04322978	ETFB	2109	1.72755	0.085256785	0.299258333	1.27315938	0	0	0	0	0	0

cg05362516	IRX5	10265	1.72746	0.085273145	0.299260828	1.25176309	0.54180113	1	0	0	0	1
cg17015234	RABL2A	11159	1.72725	0.085310941	0.299304586	1.26077894	0.55612142	0	0	0	0	0
cg09325711	RALA	5898	1.72721	0.085316938	0.299304586	1.25769307	0.55465914	0	0	0	0	0
cg26007077	SNAPC3	6619	1.72704	0.085347372	0.299304586	1.2623964	0.55566761	0	0	0	0	0
cg04220579	C7orf20	51608	-1.72696	0.085363361	0.299304586	0.7905864	0.56711376	0	0	0	0	0
cg26365854	ALX4	60529	1.72685	0.085383156	0.299304586	1.27094763	0.55536507	1	0	0	0	1
cg00848461	RAB24	53917	-1.72678	0.085394576	0.299304586	0.78699774	0.54190198	1	0	0	0	0
cg12130692	EPM2A	7957	1.72678	0.085395175	0.299304586	1.27515097	0.56059554	0	0	0	0	0
cg21634602	APC	324	1.72665	0.085418923	0.29933296	1.27570587	0.54896128	0	0	0	0	0
cg18864581	ZWILCH	55055	1.7264	0.085463797	0.299382298	1.26672456	0.56519766	0	0	0	0	0
cg07214572	LHX9	56956	1.72639	0.085464314	0.299382298	1.26189509	0.57462687	0	0	0	0	0
cg05200606	CCND1	595	-1.7262	0.085499589	0.299451013	0.78501425	0.59640984	0	0	0	0	0
cg02582754	MAS1	4142	-1.72599	0.085537009	0.299514455	0.78055454	0.55405405	0	0	0	0	0
cg13722123	GRM1	2911	1.72592	0.085549028	0.299514455	1.26211809	0.56958451	0	0	0	0	1
cg04567315	CLUL1	27098	1.72571	0.085587409	0.29959398	1.27014167	0.56817265	0	0	0	0	0
cg13282594	BGLAP	632	-1.72555	0.085616607	0.299601221	0.79584768	0.5428096	0	0	0	0	0
cg05232067	BNIP3L	665	1.72553	0.085620812	0.299601221	1.26165121	0.56393707	0	0	1	0	0
cg25671651	WDR12	55759	1.72516	0.085686584	0.299772745	1.26405723	0.55264219	0	1	0	0	0
cg25177452	PRP2	134285	1.72508	0.085701183	0.299772745	1.26425871	0.56429004	0	0	0	0	0
cg09082287	DNAJC6	9829	1.72496	0.085722588	0.299783678	1.26800272	0.56711376	0	0	0	0	0
cg15559737	CRYBA4	1413	-1.72475	0.085761638	0.299783678	0.78875133	0.57775313	0	0	0	0	0
cg15698196	CAPN12	147968	1.72469	0.085771648	0.299783678	1.26023969	0.556071	0	0	0	0	0
cg08797194	UGCGL2	55757	1.72467	0.085774957	0.299783678	1.27340803	0.56640783	0	0	0	0	0
cg15836394	FDFT1	2222	-1.72458	0.085791026	0.299783678	0.79020366	0.55294474	0	0	0	0	0
cg27187881	NAGA	4668	1.72454	0.085798369	0.299783678	1.26476597	0.56847519	0	0	0	0	0
cg17142183	IL1R2	7850	1.72429	0.085844807	0.29981918	1.26307393	0.56045785	0	0	0	0	0
cg09571369	P2RY14	9934	1.72425	0.085851446	0.29981918	1.25875859	0.57523195	0	0	0	0	0
cg23983340	CD46	4179	1.72423	0.085855565	0.29981918	1.26271701	0.5393808	0	0	0	0	0
cg26803305	SLC14A1	6563	1.72387	0.085920739	0.29985009	1.26403626	0.52599334	0	0	0	0	0
cg00795268	C11orf55	399879	-1.72383	0.08592708	0.29985009	0.79228265	0.54286002	0	0	0	0	0
cg17965019	HIST1H3J	8356	1.72378	0.08593621	0.29985009	1.26598909	0.56918112	1	0	0	0	0
cg22396129	ZCRB1	85437	1.72376	0.085939412	0.29985009	1.260528	0.54371723	0	0	0	1	0
cg05798712	FABP7	2173	-1.72372	0.085947075	0.29985009	0.7873004	0.55173457	0	0	0	0	0
cg22155248	TAPBPL	55080	1.72366	0.085958497	0.29985009	1.26669877	0.55007059	0	0	0	0	0

CLAIMS

1. A method for predicting the risk in a subject of developing cancer, the method comprising:
 - a) assessing in a sample of genomic DNA from said subject the methylation status of one or more genes selected from a target gene of NIPPI1, MSX1 or NANOG, a polycomb group target gene (PCGT) or a gene with an AACCTT promoter motif; and;
 - b) predicting the subject's risk of developing cancer based on said methylation status.
2. The method according to claim 1 wherein said cancer is breast cancer.
3. The method according to claim 2 wherein said one or more genes are selected from the genes shown in Table 2.
4. The method according to any preceding claim wherein said one or more genes are required for the differentiation of stem or progenitor cells
5. The method according to claim 4 wherein said stem or progenitor cells are in breast tissue.
6. The method according to any preceding claim wherein the risk of cancer is predicted in advance of the onset of signs or clinical symptoms of cancer.
7. The method according to claim 6 wherein the risk of cancer is predicted at least 2, 3, 4 or 5 years in advance of the onset of signs or clinical symptoms of cancer.

8. The method according to any preceding claim wherein the risk of cancer is predicted up to 5 years in advance of the onset of signs or clinical symptoms of cancer.
9. The method according to any preceding claim wherein said sample of genomic DNA is obtained from serum, peripheral blood cells, or buccal, cervical or vaginal epithelia.
10. The method according to any preceding claim wherein the methylation status of one or more PCGT genes is assessed.
11. The method according to claim 10 wherein the methylation status of five or more PCGT genes selected from Table 2 is assessed.
12. The method according to any preceding claim wherein assessment of methylation status involves an assessment of hypermethylation, wherein said hypermethylation is predictive of a risk of developing breast cancer.
13. The method according to any preceding claim wherein assessment of methylation status involves assessing the methylation of one or more CpG sites in each gene.
14. The method according to claim 13 wherein the methylation of one or more CpG sites in the promoter or regulatory region of each gene is assessed.
15. The method according to any preceding claim wherein the subject is a human subject.
16. The method according to any preceding claim wherein the risk of developing breast cancer in step b) is predicted based on both the methylation status and

the presence or absence of one or more single nucleotide polymorphisms (SNPs) associated with a risk of developing breast cancer.

17. The method according to any preceding claim wherein the risk of developing breast cancer in step b) is predicted based additionally on the assessment of traditional risk factors of breast cancer.
18. The method according to any preceding claim wherein the assessment of methylation status of said one or more genes in step b) involves use of a microarray on which one or more CpG sites from a plurality of genes selected from Table 1 are bound.
19. A method for selecting a subject suitable for preventative treatment of cancer, the method comprising:
 - a) predicting the subject's risk of developing cancer according to any preceding claim; and
 - b) selecting a subject for preventative treatment of cancer based on the level of risk predicted
20. The method of claim 19 further comprising carrying out preventative treatment for cancer.
21. The method of claim 20 wherein said preventative treatment comprises surgical intervention, increased screening programs and/or administration of a pharmaceutically active compound.
22. The method according to any preceding claim wherein the risk of death of said subject from said cancer is predicted.

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(A)

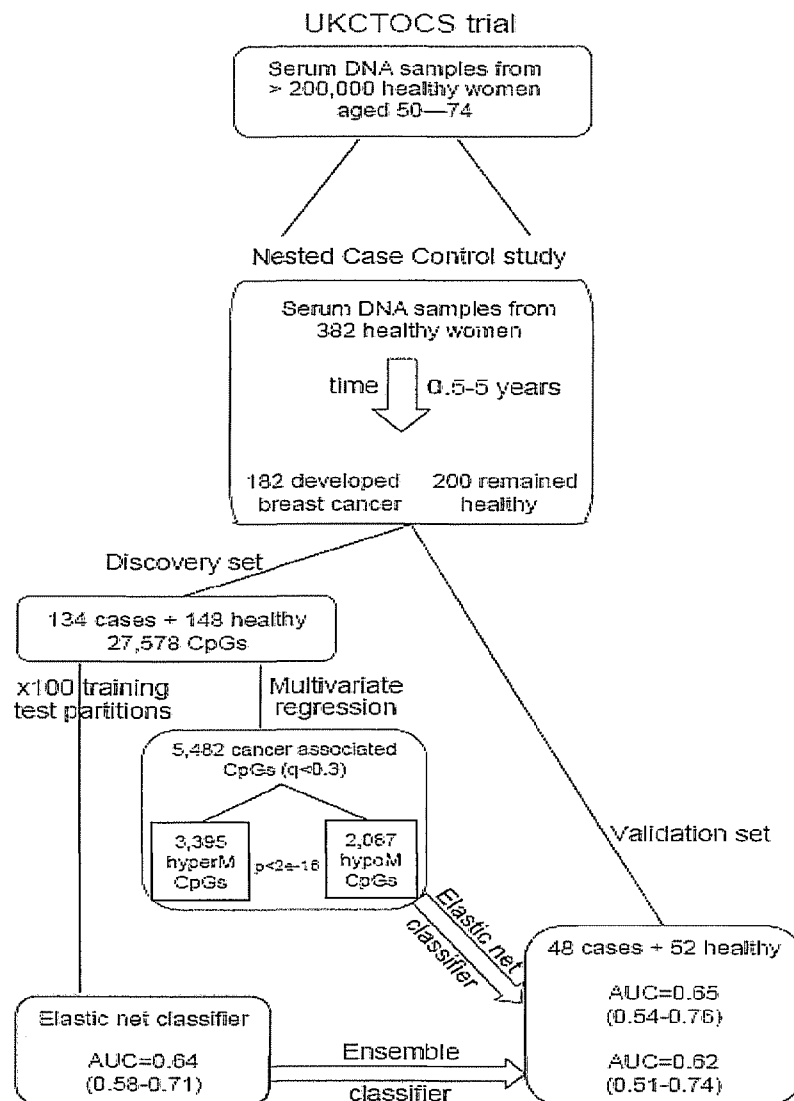


Figure 1 (A)

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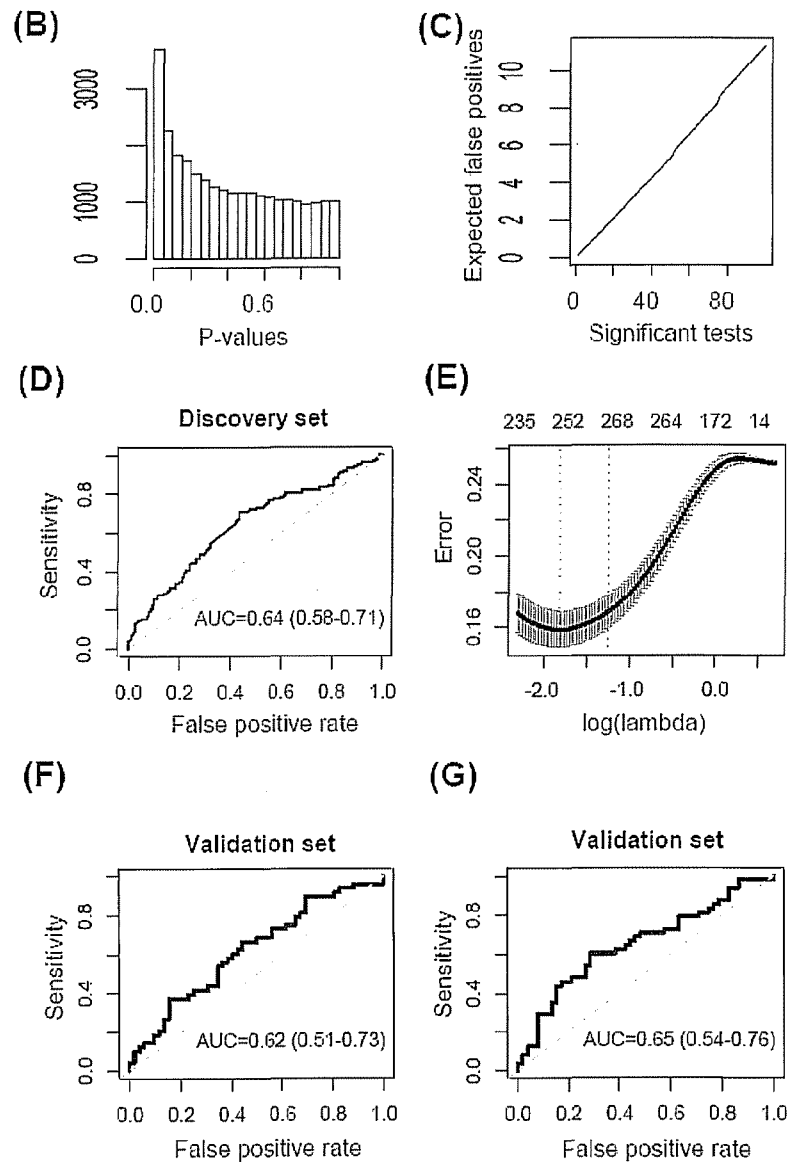


Figure 1 (B-G)

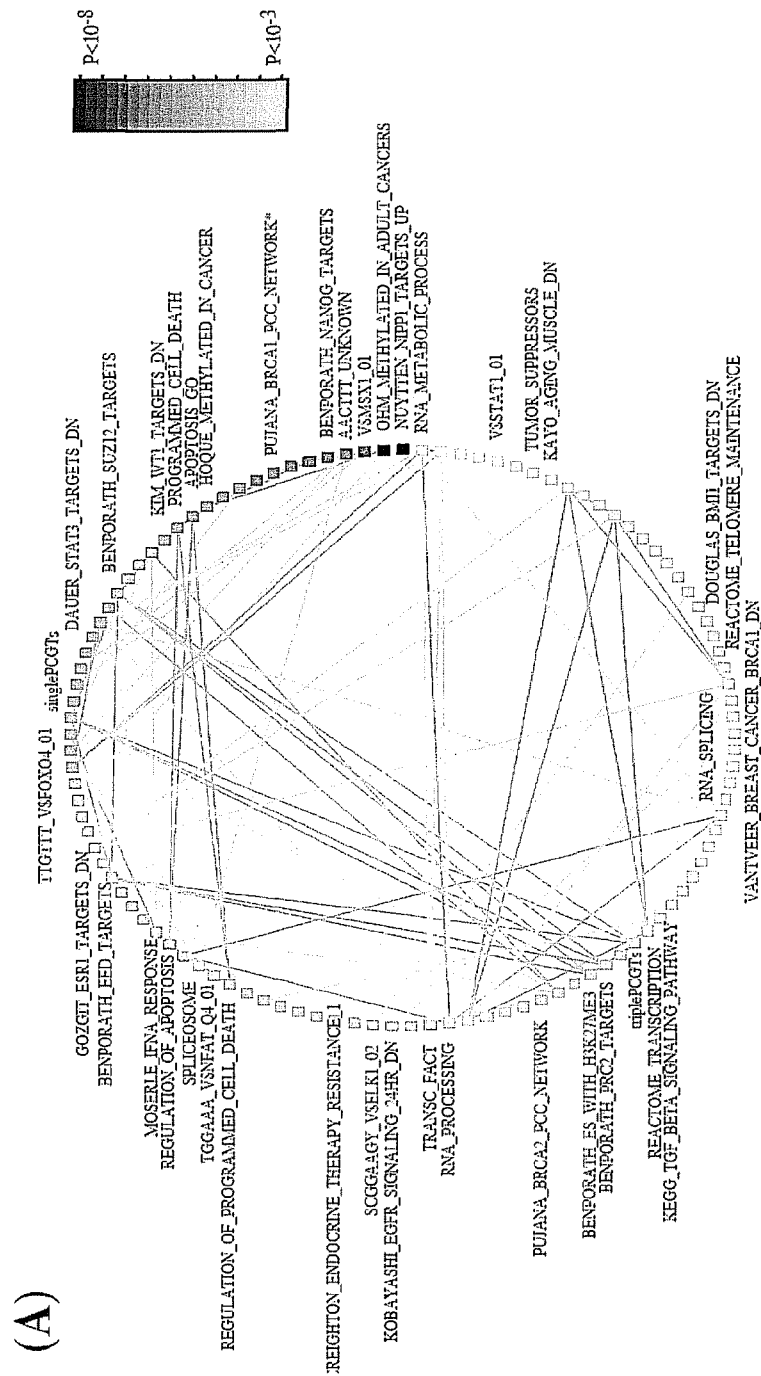


Figure 2 (A)

(B)

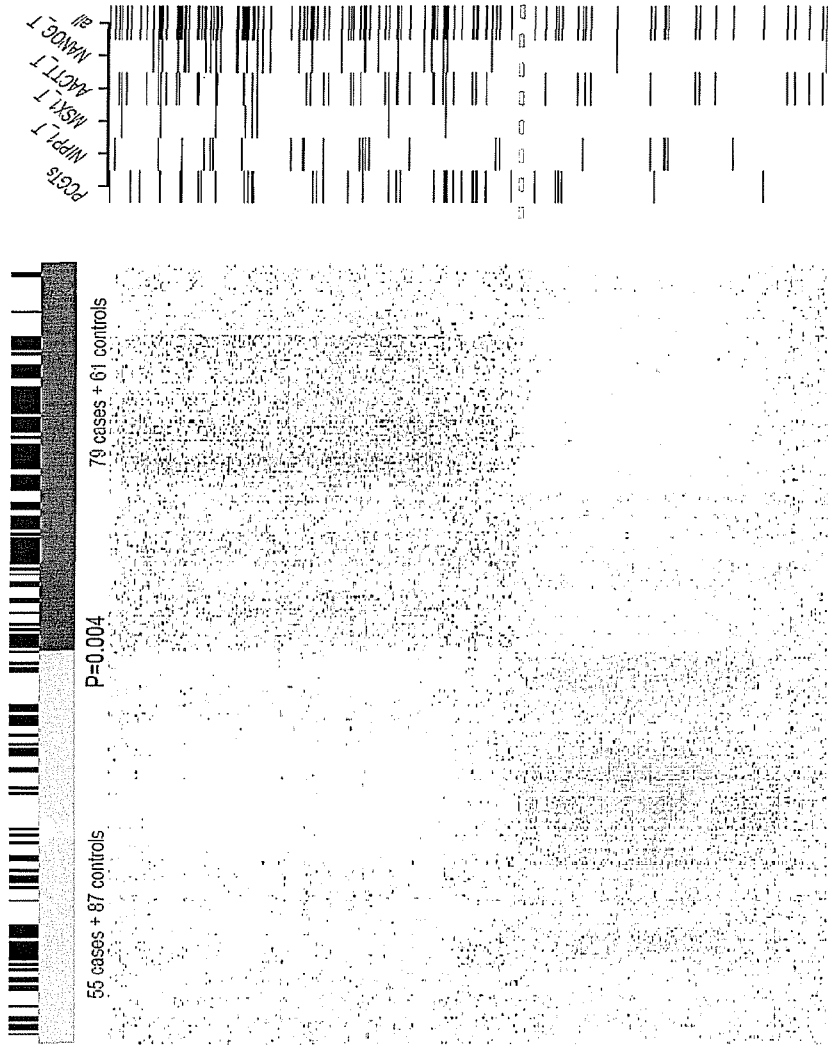


Figure 2 (B)

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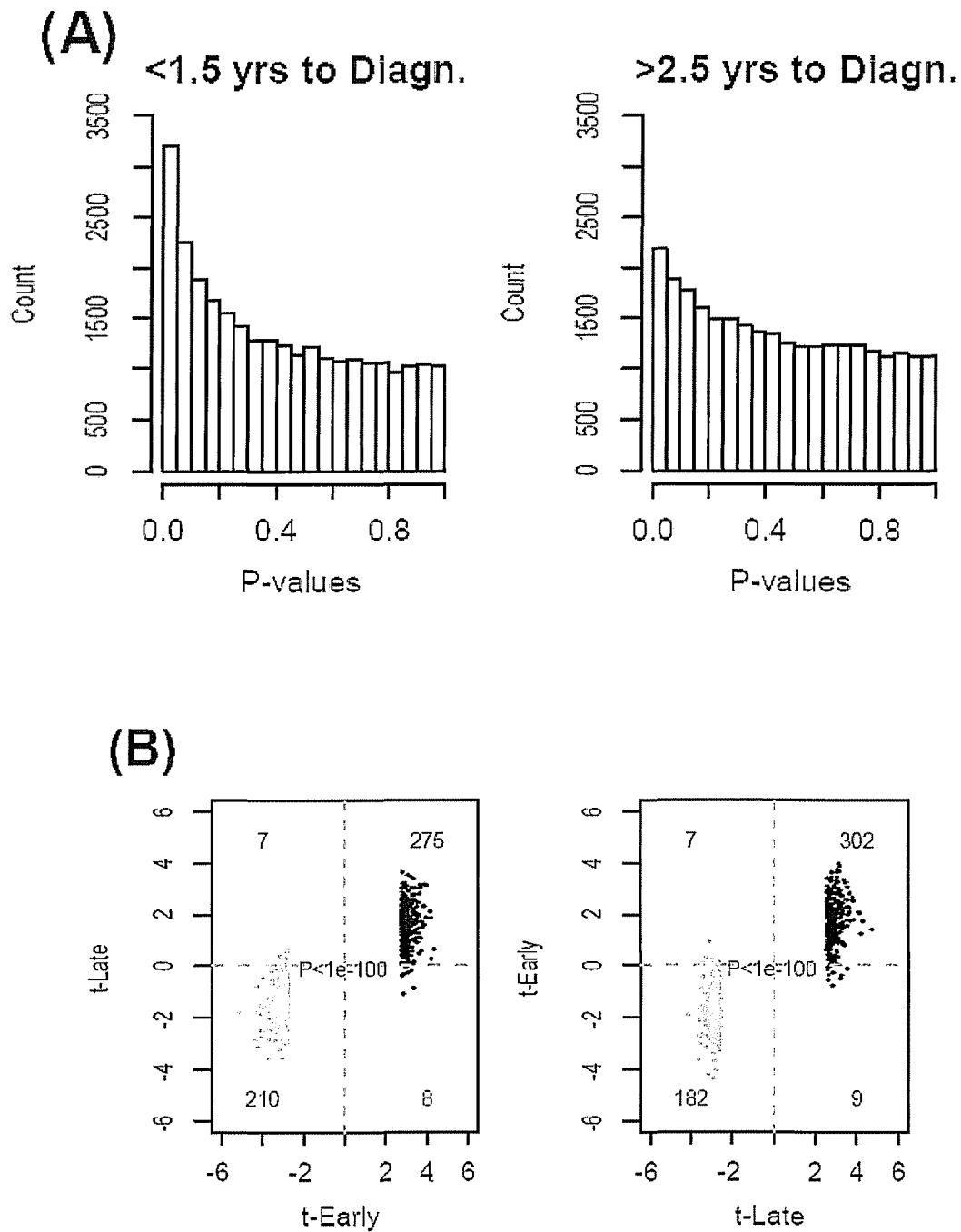


Figure 3

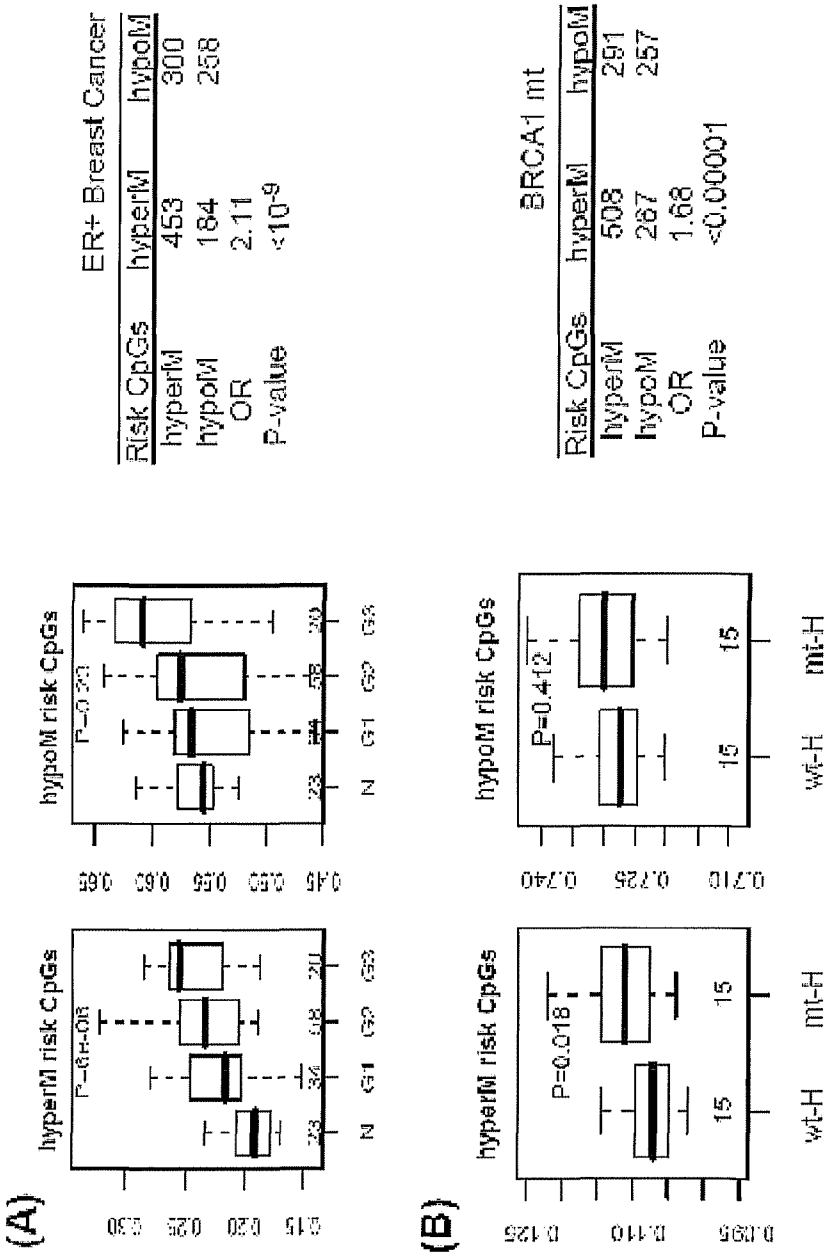


Figure 4

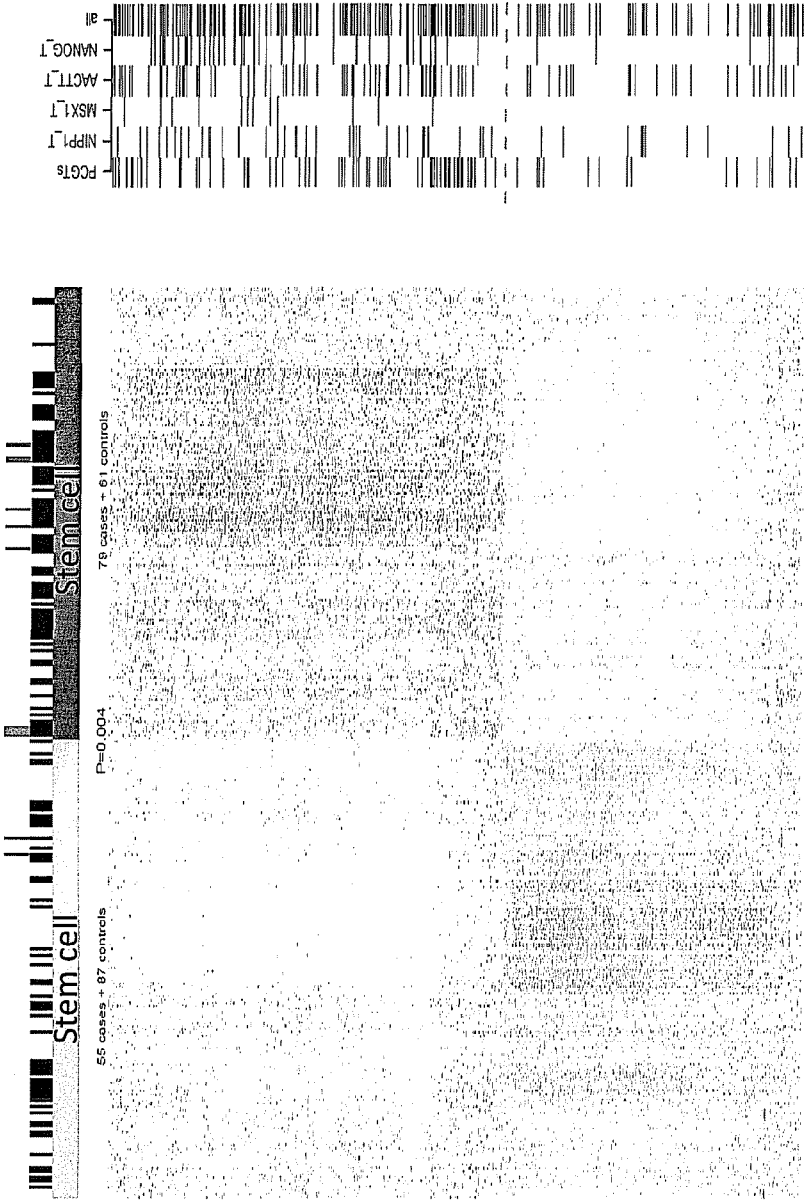


Figure 5

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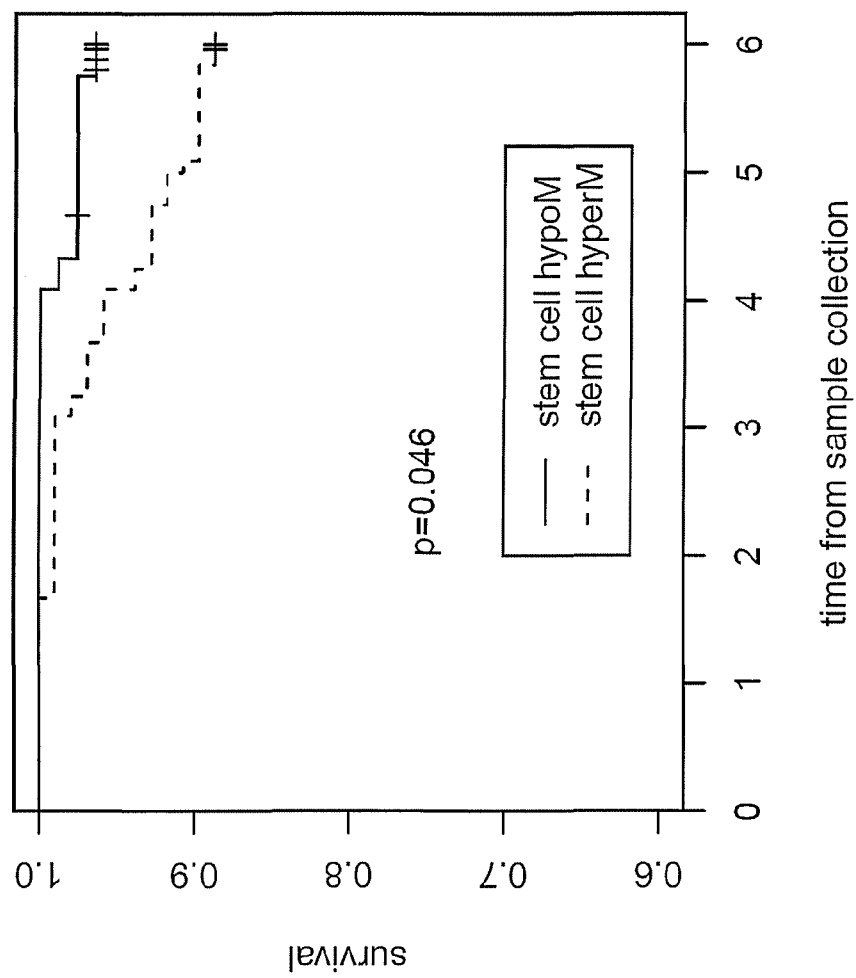


Figure 6

INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2012/050221

A. CLASSIFICATION OF SUBJECT MATTER

INV. C12Q1/68

ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EP0-Internal, WPI Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/124742 A1 (SEEWALDT VICTORIA L [US]) 20 May 2010 (2010-05-20) the whole document	1-22
X	WO 2008/083251 A2 (USC STEVENS UNIVERSITY OF SOUT [US]; LAIRD PETER W [US]; WIDSCHWENDTER) 10 July 2008 (2008-07-10) page 4, line 11 - page 6, line 2 page 9, line 21 - page 11, line 6 ----- -/--	1-22



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

18 April 2012

Date of mailing of the international search report

29/05/2012

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Authorized officer

Bradbrook, Derek

INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2012/050221

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	A. E. TESCHENDORFF ET AL: "Age-dependent DNA methylation of genes that are suppressed in stem cells is a hallmark of cancer", GENOME RESEARCH, vol. 20, no. 4, 1 April 2010 (2010-04-01), pages 440-446, XP55024699, ISSN: 1088-9051, DOI: 10.1101/gr.103606.109 the whole document	1-22
A	----- SCHLESINGER YESHAYAHU ET AL: "Polycomb-mediated methylation on Lys27 of histone H3 pre-marks genes for de novo methylation in cancer", NATURE GENETICS,, vol. 39, no. 2, 1 February 2007 (2007-02-01), pages 232-236, XP002580801, abstract	1-22
A	----- A. P. BRACKEN: "Genome-wide mapping of Polycomb target genes unravels their roles in cell fate transitions", GENES & DEVELOPMENT, vol. 20, no. 9, 1 May 2006 (2006-05-01), pages 1123-1136, XP55024661, ISSN: 0890-9369, DOI: 10.1101/gad.381706 the whole document	1-22
T	----- JOANNA ZHUANG ET AL: "The Dynamics and Prognostic Potential of DNA Methylation Changes at Stem Cell Gene Loci in Women's Cancer", PLOS GENETICS, vol. 8, no. 2, 1 January 2012 (2012-01-01) , page E1002517, XP55024698, ISSN: 1553-7390, DOI: 10.1371/journal.pgen.1002517 the whole document -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2012/050221

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		US 2012015366 A1	19-01-2012

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		WO 2008083251 A2	10-07-2008
