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(54) Title: STATISTICAL AI FOR ADVANCED DEEP LEARNING AND PROBABILISTIC PROGRAMING IN THE BIOSCIENCES

(57) Abstract: Statistical artificial intelligence for advanced deep learning and probabilistic programing in the biosciences is provided. In various embodiments, biological data of a population is read. The biological data include molecular features of the population. A plurality of features of the population is extracted from the biological data. The plurality of features is provided to a first trained classifier to determine a subset of the plurality of features distinguishing the population. A plurality of genes associated with the subset of the plurality of features is determined. The plurality of genes is provided to a second trained classifier to determine a subset of the plurality of genes distinguishing the population. A dependence model is applied to the subset of the plurality of genes to determine one or more drug target.

STATISTICAL AI FOR ADVANCED DEEP LEARNING AND PROBABILISTIC PROGRAMING IN THE BIOSCIENCES

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the benefit of U.S. Provisional Application No. 62/573,996, filed October 18, 2017 and U.S. Provisional Application No. 62/580,263, filed November 1, 2017, both of which are hereby incorporated by reference in their entirety.

BACKGROUND

[0002] Embodiments of the present disclosure relate to analysis of multi-omic data, and more specifically, to statistical artificial intelligence for advanced deep learning and probabilistic programing in the biosciences.

BRIEF SUMMARY

[0003] According to embodiments of the present disclosure, methods of and computer program products for identifying drug targets are provided. Biological data of a population is read. The biological data include molecular features of the population. A plurality of features of the population is extracted from the biological data. The plurality of features is provided to a first trained classifier to determine a subset of the plurality of features distinguishing the population. A plurality of genes associated with the subset of the plurality of features is determined. The plurality of genes is provided to a second trained classifier to determine a subset of the plurality of genes distinguishing the population. A dependence model is applied to the subset of the plurality of genes to determine one or more drug target.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0004] FIG. 1 illustrates a method of genomic analysis according to embodiments of the present disclosure.

[0005] FIG. 2 is a schematic guide to cancer types, acronyms, and sample numbers from The Cancer Genome Atlas (TCGA).

[0006] FIG. 3A-FIG. 3I illustrate methods of genomic analysis according to embodiments of the present disclosure.

[0007] FIG. 4A-FIG. 4E depict binomial model comparisons at both the module and gene level specifically highlighting kidney renal papillary cell carcinoma (KIRP) versus kidney renal clear cell carcinoma (KIRC).

[0008] FIG. 5A-FIG. 5E depict multinomial models at the module and gene level comparing 22 cancer types from the TCGA database.

[0009] FIG. 6A-FIG. 6D show survival models at the module and gene level comparing 20 cancer types from the TCGA database.

[0010] FIG. 7A-FIG. 7F depict the analysis of the most informative survival genes.

[0011] FIG. 8 depicts a computing node according to an embodiment of the present invention.

[0012] FIG. 9A-FIG. 9D depict binomial model comparisons at both the module and gene level specifically highlighting breast cancer (BRCA) versus normal tissue.

[0013] FIG. 10A-FIG. 10D depict binomial model comparisons at both the module and gene level specifically highlighting LUAD versus LUSC lung cancer subtypes.

[0014] FIG. 11A-FIG. 11D depict binomial model comparisons at both the module and gene level specifically highlighting ER+ versus ER- breast cancer subtypes.

[0015] FIG. 12A-FIG. 12D depict binomial model comparisons at both the module and gene level specifically highlighting Luminal A versus Luminal B breast cancer subtypes.

[0016] FIG. 13A and **FIG. 13B** depict the top 20 most informative MEGENA genes at the gene level for Lung Adenocarcinoma (LUAD) versus Lung Squamous Cell (LUSC) lung cancer subtypes (for both training (FIG. 13B) and testing data sets (13A)).

[0017] FIG. 14A and **FIG. 14B** depict the top 20 most informative nGOseq genes at the gene level for Lung Adenocarcinoma (LUAD) versus Lung Squamous Cell (LUSC) lung cancer subtypes (for both training (FIG. 14B) and testing data sets (14A)).

[0018] FIG. 15A and **FIG. 15B** depicts the top 20 most informative MEGENA genes at the gene level for ER+ versus ER- breast cancer subtypes (for both training (FIG. 15B) and testing data sets (15A)).

[0019] FIG. 16A and **FIG. 16B** depicts the top 20 most informative nGOseq genes at the gene level for ER+ versus ER- breast cancer subtypes (for both training (FIG. 16B) and testing data sets (16A)).

[0020] FIG. 17A and **FIG. 17B** depicts the top 20 most informative MEGENA genes at the gene level for Luminal A versus Luminal B breast cancer subtypes (for both training (FIG. 17B) and testing data sets (17A)).

[0021] FIG. 18A and **FIG. 18B** depicts the top 20 most informative nGOseq genes at the gene level for Luminal A versus Luminal B breast cancer subtypes (for both training (FIG. 18A) and testing data sets (18B)).

[0022] FIG. 19A and **FIG. 19B** depicts the top 20 most informative MEGENA genes at the gene level for breast cancer (BRCA) versus normal tissue (for both training (FIG. 19B) and testing data sets (19A)).

[0023] **FIG. 20A** and **FIG. 20B** depicts the top 20 most informative nGOseq genes at the gene level for breast cancer (BRCA) versus normal tissue (for both training (FIG. 20B) and testing data sets (20A)).

[0024] **FIG. 21A** and **FIG. 21B** depicts the top 20 most informative MEGENA genes at the gene level for kidney renal papillary cell carcinoma (KIRP) versus kidney renal clear cell carcinoma (KIRC) (for both training (FIG. 21B) and testing data sets (21A)).

[0025] **FIG. 22A** and **FIG. 22B** depicts the top 20 most informative nGOseq genes at the gene level for kidney renal papillary cell carcinoma (KIRP) versus kidney renal clear cell carcinoma (KIRC) (for both training (FIG. 22B) and testing data sets (22A)).

[0026] **FIG. 23A** and **FIG. 23B** depicts the top 20 most informative MEGENA genes at the gene level for the pan 22 cancer comparison (for both training (FIG. 23B) and testing data sets (23A))

[0027] **FIG. 24A** and **FIG. 24B** depicts survival models at the nGOseq module level comparing 20 cancer types from the TCGA database.

[0028] **FIG. 25A** and **FIG. 25B** depicts survival models at the MEGENA gene level comparing 20 cancer types from the TCGA database.

[0029] **FIG. 26A** and **FIG. 26B** depicts survival models at the nGOseq gene level comparing 20 cancer types from the TCGA database.

DETAILED DESCRIPTION

[0030] Improved sequencing technology has increased the breadth of data available for addressing questions in biology. Statistical methods may be applied to identify biologically relevant sets of genes whose collective state correlates with a given phenotype. However, placing these gene sets into a biologically relevant framework remains a significant challenge.

[0031] Gene expression profiling of DNA microarray and RNA-seq data provides wealth of data for diagnosing and predicting outcome of many human cancers. High-throughput technologies, such as DNA microarrays and next-generation sequencing (NGS), provide the means to examine how organisms respond, on a genome-wide scale, to experimental or natural perturbations and to the development of pathological conditions. However, widespread use of high-throughput gene expression profiling in clinical medicine has not been fully realized, due in part to precision and interoperability of available prediction models. Moreover, gene redundancy is a significant confounding factor in high-throughput expression profiling schemes and often leads to reduced information content of analytical outcomes. The large number of genes unrelated to a given state can serve to decrease prediction accuracy of classification strategies.

[0032] To address this and other challenges, the present disclosure provides for various feature learning methods that enhance quantitative assessment of annotated tissues of the Cancer Genome Atlas. These methods allow integrated molecular signals to be collapsed onto highly-informative gene sets across 22 cancer types. These network-based strategies improve performance and interoperability of two deep neural network strategies by identifying genes underlying cancer type specific biology and pan-cancer patient survival. The results described herein indicate the efficacy of these approaches to statistical issues associated with the analysis of a wide array of high-dimensional data.

[0033] In various embodiments, an ensemble computational intelligence platform is applied to single or multi-omic data on patient and/or control groups to determine the molecular differences between any 2 or more groups. The number of molecular features is reduced using a gene correlation methods. In various exemplary embodiments described below, two feature reduction methods are applied. First, a data-driven approach is applied that uses correlations among genes

using the measured molecular data within these patient and/or control datasets to cluster genes into smaller number of features. Second, the nGOseq algorithm is applied to cluster genes based on previous biological annotations (for example, GOseq terms or other known gene ontologies). The systems and methods provided herein enable perfect and near perfect classifications of multiple human tumor type designations, independent of tissue-specific annotation, to identify known and previously undescribed integrated molecular signatures of pan-cancer etiology and patient survival, thus creating a new archetype for biological and therapeutic discovery.

[0034] According to various embodiments, deep learning methods such as DANN or DBNN are applied in parallel to the molecular data from the comparison sets of patients and/or controls to discover the most important gene clusters that distinguish the patient/control groups. The top gene clusters (*e.g.*, 100) for each deep learning method are compared and again ranked to define the top gene clusters.

[0035] These top gene clusters are opened into the underlying genes and the deep learning methods are repeated in parallel to define the genes to the molecular data from the comparison sets of patients and/or controls to discover the most important individual gees that distinguish the patient/control groups. The top genes (*e.g.*, 100) for each deep learning method are compared and again ranked to define the top genes. These genes are used to define the classification (and potential diagnostic) to define patients with certain tumor type, tumor subtype, or future survival prediction.

[0036] To define the most important driver genes within the top genes defined above, a Bayesian Belief Network is applied to the top genes. These driver genes represent drug targets that may be used for treatment of tumor types, tumor subtypes or most of all tumors.

[0037] Referring now to **FIG. 1**, a schematic diagram of genomic analysis according to embodiments of the present disclosure is provided. It will be appreciated that although various examples herein are described with regard to The Cancer Genome Atlas (TCGA) data, the systems and methods described herein are generally applicable to disease condition having a genetic component.

[0038] As described further below, ensemble computational intelligence is applied to single or multi-omic data on patient and/or control groups to determine the molecular differences between any 2 or more groups. In various embodiments, multi-omic data includes omes such as genome, proteome, transcriptome, epigenome, and microbiome data.

[0039] At **101**, input data are processed and normalized. In some embodiments, input data include messenger RNAs (mRNAs), somatic tumor variants (STVs), copy number variations (CNVs), micro RNAs (miRNAs), and DNA methylation (METH). In various embodiments, processing includes normalization and concatenation into a data matrix.

[0040] At **102**, one or more feature learning algorithm is applied to generate a reduced feature space from the input data. It will be appreciated that a variety of feature learning and dimensional reduction techniques are suitable for use according to the present disclosure.

[0041] In various embodiments, the feature space is generated by clustering the biological data. In various embodiments clustering includes hierarchical clustering, k-means clustering, distribution-based clustering, Gaussian mixture models, density-based clustering, or highly connected subgraphs clustering.

[0042] In various embodiments, the number of molecular features is reduced using a gene correlation method. In exemplary embodiments discussed further below, two feature reduction methods are applied: 1) a data-driven approach that uses correlations among genes using the

measured molecular data within these patient and/or control datasets to cluster genes into smaller number of features, and 2) nGOseq which clusters genes based on previous biological annotations in the public domain (for example, GOseq terms or other known gene ontologies).

[0043] In some embodiments, a plurality of feature learning techniques are applied. For example, in some embodiments, a data driven clustering approach (such as MEGENA) or an *a priori* biological knowledge based approach (such as nGOseq) is applied in addition to principal component analysis (PCA). In some embodiments, module-level data matrices are generated as a result of the feature learning step.

[0044] At **103**, the module data are provided to one or more trained classifiers to determine the most informative modules. In some embodiments, multiple classifiers are applied to the data in an ensemble approach.

[0045] For example, in some embodiments, a Deep Artificial Neural Network (DANN) and a Deep Bayesian Neural Network (DBNN) are applied in parallel to the molecular data from the comparison sets of patients and/or controls to discover the most important gene clusters that distinguish the patient/control groups. A saliency map (or sensitivity map) may be used to determine the most informative input modules. The top gene clusters for each deep learning method may be compared and again ranked to define the top gene clusters. In some embodiments, a predetermined number of the top gene clusters are obtained, *e.g.*, the top 100.

[0046] At **104**, the genes from each of the important modules are broken out into gene level data matrices corresponding to the underlying genes. The gene level data are provided to one or more trained classifiers to determine the most informative genes. In some embodiments, multiple classifiers are applied to the data in an ensemble approach.

[0047] For example, in some embodiments, a Deep Artificial Neural Network (DANN) and a Deep Bayesian Neural Network (DBNN) are applied in parallel. The DANN or DBNN deep learning methods are repeated in parallel define the genes to the molecular data from the comparison sets of patients and/or controls to discover the most important individual genes that distinguish the patient/control groups. A saliency map may be used to determine the most informative genes.

[0048] The top genes for each deep learning method may be compared and again ranked to define the top genes. In some embodiments, a predetermined number of the top gene clusters are obtained, *e.g.*, the top 100. These genes are used to define the classification (and potential diagnostic) to define patients with certain tumor type, tumor subtype, or future survival prediction.

[0049] At **105**, the most informative genes are provided to a probabilistic model to determine causal genetic drivers. These driver genes represent potential drug targets that may be used for treatment of tumor types, tumor subtypes or most of all tumors. In some embodiments, the number of genes provided is limited to the most informative determined from prior steps (*e.g.*, 100-200). In some embodiments, the probabilistic model is a Bayesian belief network. However, it will be appreciated that a variety of probabilistic models are suitable for use according to the present disclosure. In some embodiments, biological relevance is queried with natural language processing.

[0050] As described above, various learning systems are applied according to embodiments of the present disclosure. Various exemplary embodiments are described with respect to artificial neural networks, but it will be appreciated that a variety of learning systems are otherwise suitable. In some embodiments, the learning system comprises a SVM. In other embodiments,

the learning system comprises an artificial neural network. In some embodiments, the learning system is pre-trained using training data. In some embodiments training data is retrospective data. In some embodiments, the retrospective data is stored in a data store. In some embodiments, the learning system may be additionally trained through manual curation of previously generated outputs.

[0051] In some embodiments, the learning system, is a trained classifier. In some embodiments, the trained classifier is a random decision forest. However, it will be appreciated that a variety of other classifiers are suitable for use according to the present disclosure, including linear classifiers, support vector machines (SVM), or neural networks such as recurrent neural networks (RNN).

[0052] Various supervised and unsupervised machine learning methods may be used in accordance with the present disclosure, such as LASSO, Support Vector Machines, K-nearest-neighbor, Multivariate Partial Least Squares and Discriminant Analysis, Principal Component Analysis, Correspondence Analysis, and K-Means/K-Medians and Hierarchical clustering.

[0053] Suitable artificial neural networks include but are not limited to a feedforward neural network, a radial basis function network, a self-organizing map, learning vector quantization, a recurrent neural network, a Hopfield network, a Boltzmann machine, an echo state network, long short term memory, a bi-directional recurrent neural network, a hierarchical recurrent neural network, a stochastic neural network, a modular neural network, an associative neural network, a deep neural network, a deep belief network, a convolutional neural networks, a convolutional deep belief network, a large memory storage and retrieval neural network, a deep Boltzmann machine, a deep stacking network, a tensor deep stacking network, a spike and slab restricted

Boltzmann machine, a compound hierarchical-deep model, a deep coding network, a multilayer kernel machine, or a deep Q-network.

[0054] Referring to **FIG. 2**, a schematic guide to cancer types, acronyms, and sample numbers from The Cancer Genome Atlas (TCGA) is provided. As discussed further below, in an exemplary embodiment, 22 cancer types are studied. All available TCGA cancer types were filtered based on total sample number and availability of all five data types. Colon Adenocarcinoma (COAD) and Rectum Adenocarcinoma (READ) were merged into a single cancer type (CRAD) due to their similarity. Breast Invasive Carcinoma contains subtypes including ER status (+/-) and Luminal A/B used in subsequent binomial comparisons. Cancer of the Adrenal Gland (4) and Testis (10) were excluded from survival analysis. The total sample number for the below example is 8,272 for 22 cancers and 7,822 for 20 cancers.

[0055] Referring now to **FIGS. 3A-E**, a schematic diagram of genomic analysis according to an exemplary embodiment of the present disclosure is provided. In this exemplary embodiment, the overall process steps of **FIG. 1** are performed with particular data sets and algorithms by way of illustration and not limitation. In particular, as further described below, **Fig. 3A** corresponds to a data pre-processing and normalization step, **Fig. 3B** correspond to a feature learning and dimensionality reduction step; **Fig. 3C** corresponds to a module-level deep learning and ranking step, **Fig. 3D** corresponds to a gene-level deep learning and ranking step, and **Fig. 3E** corresponds to a causal dependency and biological context step.

[0056] In data pre-processing step **301**, whole Exome Sequencing, RNA-Seq, miRNA-Seq, Methylation Array, and Genotyping Array data for 8272 samples, representing 22 cancer types were retrieved from either the Genome Data Commons (GDC) data portal (https://portal.gdc.cancer.gov/ - Data Release 4.0) or cBioportal (http://www.cbioportal.org/).

Whole exome sequencing data from VarScan2 and MuTect2 files annotated with Variant Effect Predictor (VEP) v84 and DeepCODE scores were used, subsequently filtered for quality and relevancy, mapped to genes, and all variants for a given gene added together. Raw read counts of mRNA from HT-Seq were normalized using trimmed mean of M-values (TMM), filtered (counts > 1 per 10 reads in > 10% of samples), and batch corrected using ComBat. Raw counts for known miRNAs were normalized in a similar fashion to mRNA. miRNA experimentally validated gene targets were downloaded from miRTarBase. GISTIC2 processed copy number variation (CNV) data were downloaded from cBioportal. Methylation beta values were filtered, converted to M values, and batch corrected using ComBat. Multiple probes were collapsed to a single gene by selecting the probe with the largest standard deviation.

[0057] All five input data types **311…315** were concatenated into a single data matrix and randomly split 80% (training data) and 20% (testing data) stratified by cancer and/or molecular subtype (survival analysis – also stratified by age, overall survival, and survival status). Each feature was standardized to zero mean and unit variance (z-score).

[0058] As noted above, in this exemplary embodiment, data for five experimental strategies - WXS, RNA-Seq, miRNA-Seq, Genotyping Array, Methylation Array-were retrieved from the GDC (Genome Data Commons) data portal (https://portal.gdc.cancer.gov/) and the cBioportal. Cancer types with fewer than 100 samples were excluded from analysis. In total, 8272 samples representing 22 cancer types were used for modeling as described further below.

[0059] For whole exome sequencing, GDC harmonized level 2 Variant Call Format (VCF) files from VarScan2 and MuTect2 annotated with the Variant Effect Predictor (VEP) v84 by the GDC somatic annotation workflow were used. VCF files were converted to Genomically Ordered Relational (GOR) database file format. DeepCODE scores were calculated for all variants.

Variants with VCF 'Filter' = 'Pass' and VarScan2 p-value <= 0.05 were kept. Variants with 'Somatic' status were also kept. Variants were further filtered on VEP annotation 'impact' and deepCODE score (described below) as follows: variants with a) 'HIGH' VEP impact, b) deepCODE score greater than 0.51 and 'MODERATE' VEP impact, or c) only 'MODERATE' VEP impact at the absence of deepCODE scores were kept. Call copies for each case, for each variant were retrieved from GOR tables after filtering. The variants were represented as a comma separated string. These were converted to a tab delimited table as one column for each case. The counts of call copies of all variants for a given gene were added together and presented as a single count value.

[0060] Variants for the breast cancer tumor vs. normal comparison were detected in aligned reads of GDC harmonized level 1 BAM files for tumor and normal samples using the Genome Analysis Toolkit (GATK) Haplotypecaller. Joint genotyping was performed on gVCF files produced by the HaplotypeCaller using GATK GenotypeGVCFs and hg38 as reference. VEP v85 annotations were obtained by mapping to chromosome position. Variant filtering and call-copy collapsing methods are described below.

[0061] For RNA-Seq, GDC harmonized level 3 mRNA quantification data was used. This data measures gene level expression as raw read counts from HT-Seq. Raw mapping counts were combined into a count matrix with genes as rows and samples as columns. Normalization was performed for all samples using the trimmed mean of M-values (TMM) method from the edgeR R package. Lowly expressed genes were filtered out by requiring read counts greater than 1 per million reads for more than 10% of samples. ComBat from the sva R package was used to assess possible batch effects in the normalized count data for all breast cancer samples using batch information extracted from TCGA barcodes (*i.e.*, the plate number). There were no detectible

batch effects as assessed by the Multi-Dimensional Scaling (MDS) either before or after batch correction.

[0062] For miRNA-Seq, GDC harmonized level 3 miRNA expression as raw counts for known miRNAs in the miRBase (http://www.mirbase.org/) reference was used. miRNA experimentally validated gene targets were downloaded from miRTarBase. The raw mapping counts were processed, normalized, and loaded into a count matrix similar to RNA-Seq data.

[0063] For the genotyping array, copy number variation (CNV) data from the cBioportal generated by the GISTIC2algorithm were used. For the tumor comparison models, CNV data was compiled into a matrix with samples as rows and genes as columns. The copy-number value for each gene was an integer ranging from -2 to +2. All NA values were removed. For the breast cancer vs. normal comparison, GDC harmonized level-3 copy number data from Affymetrix SNP 6.0 arrays were used in the analysis. The segment means in the downloaded data were converted to linear copy numbers as 2*(2^Segment_Mean), and mapped to gene symbols using ENSEMBLGRCh38 as reference. The CNV segments with less than 5 probes, and probe sets indicated to have frequent germline copy-number variation (using SNP6 array probe set file as reference) were discarded. A gene-level matrix was constructed across all samples for downstream analysis.

[0064] For methylation data, GDC harmonized level 3 methylation data with beta values from the Illumina Infinium Human Methylation273 (HM27) and HumanMethylation450 (HM450) arrays were used. In total, 24,889 probes, which map to 17,298 genes, were selected from these arrays based on the following criteria: probes were: i) shared between the two platforms, ii) mapped to genes or their promoters, and iii) not present in chromosome X, Y, and MT. In each subtype comparison, the sample beta values from methylation analysis were combined into a

large matrix. Probes with NA values across all samples were removed. Remaining NA and zero beta values were replaced with the minimum beta value of non-zero beta values across all probes and all samples in each batch (defined by the TCGA plate barcode), as described in the REMPR package. Beta values of 1 were replaced with the maximum beta value less than 1 across all probes and all samples in each batch. All beta values were converted to M values using the formula M=log2(beta/(1-beta)). ComBat from the sva R package was used to remove batch effects on plates within each cancer subtype. The samples were split randomly by 80:20 ratios into training and testing sets. Among multiple probes mapped to the same gene, the probe with the largest standard deviation across all training samples was selected to represent the gene level M value.

[0065] In data integration, the five molecular data types were combined into data matrices with samples represented in rows and genes presented in columns. For the binomial and multinomial comparisons, samples were randomly split into 80/20 training and testing datasets based on their cancer type (or molecular subtype). The clinical characteristics of the TCGA survival data for the pan-cancer survival analysis was equally distributed between the training and testing data sets. Therefore, stratification of training and testing sets was achieved on the following variables: i) age, ii) cancer type, iii) overall survival (in 2 month intervals), and iv) survival status. The data in the training matrix were converted to z-scores. Mean and variance from the training data were used to calculate z-scores for the test data.

[0066] In feature learning and dimensionality reduction step **302**, two feature learning methods were used. It will be appreciated that various embodiments include a different selection of feature learning methods. In this exemplary embodiment, a data driven clustering approach, MEGENA **321**, and an *a priori* biological knowledge based method, nGOseq **322**, were applied.

[0067] MEGENA **321** uses a false-discovery controlled pairwise similarity metric to construct planar-filtered networks between features and subsequently calculates a directed acyclic graph of integrated cluster membership for all input data types.

[0068] For nGOseq **322**, differential analysis was performed on each of the input data types (training data, two group – binomial class or survival status), filtered by false-discovery corrected p-value cutoff, and used in nested GOseq functional enrichment (nGOseq), a modified version of the nested Expression Analysis Systematic Explorer (nEASE) algorithm, to identify enriched nested GO terms.

[0069] The first principal component from principal component analysis (PCA) **323…324** was calculated for each gene-set/module, thus reducing the dimensionality of the learned feature space. The reduced feature space is aggregated into new data matrices for downstream modeling.

[0070] As noted above, in this exemplary embodiment, two feature engineering methods were used: a data-driven method (MEGENA) and an *apriori* knowledge based method (nGOseq) were applied to produce informative gene clusters. The first principal component of all members in each cluster was computed to serve as a summary statistic or "metagene" for the cluster to reduce the dimensionality of the engineered feature space.

[0071] Multiscale embedded gene co-expression network analysis (MEGENA) was used to carry out data-driven feature engineering for binomial and multinomial comparisons. MEGENA uses a quality controlled pairwise similarity metric (specifically false-discovery corrected Pearson correlation coefficients) to construct planar-filtered networks between features. Clusters in the network were identified with a multi-scaled approach, leading to a directed acyclic graph of cluster membership. The cluster membership was taken to create MEGENA modules. The

MEGENA R package was used for the analysis. This package was not originally designed to deal with more than a single data type, therefore, the projective K means algorithm in the Weighted Gene Co-expression Network Analysis (WGNCA) R package was used to determine uncorrelated blocks of approximately 3000 features. This allowed for the use of significantly larger data matrices.

[0072] Differential analysis was performed for each of the five data types on the samples in the training set. The Wilcoxon Rank Sum test was used to find genes with differential copy number variation. The dmpFinder function from the minfi R package was used to find differentially methylated genes based on M values. The edgeR package was used to determine differentially expressed mRNAs and miRNAs. The Optimized Sequence Kernel Association Test (SKAT-O) was used to assess differential SNV patterns. The analysis was performed using default parameters, and the 'optimal.adj' method, after computing the SKAT_NULL_Model. Genes with differential patterns across the five data types were combined, and used in downstream functional enrichment analysis.

[0073] Functional enrichment analysis of differential genes was carried out with nGOseq as an *a priori* knowledge based feature engineering method for binomial comparisons. Initially, differential genes from the five data types were combined into a single gene set after removing gene redundancy. GOseq analysis was performed on the combined differential gene set to identify enriched gene ontology (GO) terms using all annotated genes as background. Nested GOseq (nGOseq), a modified version of the nested Expression Analysis Systematic Explorer (nEASE) algorithm, was then used to identify enriched nested GO terms driving the statistical enrichment of upper-level GOseq terms. Enriched non-redundant nGOseq gene sets were used as features for downstream modeling. Differentially expressed miRNA signals were

incorporated into enriched nGOseq gene sets if their miRTarBase experimentally validated mRNA targets were also differentially expressed.

[0074] Principal component analysis (PCA) was applied to each nGOseq pathway and MEGENA module, which transformed the gene set data into a lower-dimensional coordinate system. Data matrices were then created for the downstream modeling with first principal component (PC1) values. The corresponding PC1 values served as "metagenes" for each nGOseq pathway and MEGENA module, further reducing dimensionality of the engineered feature space.

[0075] In module level deep learning and ranking step **303**, Deep Artificial Neural Networks (DANNs) **331** and Deep Bayesian Neural Networks (DBNNs) **332** are trained and applied to the reduced feature space.

[0076] Lasagna and nolearn, and Theano python packages were used to construct Deep Artificial Neural Netowrks (DANNs). DANNs were initialized with an input layer, three hidden layers using Rectify non-linear activation functions (RELUs), and a softmax output layer. Weights were learned with stochastic gradient descent (with Nesterov momentum and dropout) using the categorical cross-entropy loss function.

[0077] Deep Bayesian Neural Networks (DBNNs) are an extension of DANNs that prescribe a prior distribution to the weights (W) of the neural network. The Edward and TensorFlow python packages were used to construct DBNNs with Gaussian priors, hidden layers used hyperbolic tangent activation functions (tanh), and a softmax output layer. Weights were learned with variational inference using the Kullback Leibler divergence (using mini-batches and ADAM for back-propagation) and sampled 500 times from the posterior distributions for final predictions.

[0078] The PyTorch python package was used to create Deep Hazard Neural Networks (DHNNs). DHNNs were formulated as deep versions of cox-proportional hazards model with hidden layers using tanh activation functions and a loss layer defined by the cox-proportional hazard log-likelihood function. Model hyper-parameters for DANN, DBNN, and DHNN models (*e.g.*, learning rate, dropout rate, layer-size, number of layers, *etc.*) were optimized by cross-validated grid-search or random search (with early stopping). Models were evaluated using multiple metrics assessing fit quality.

[0079] For each of the classifiers, the relative importance of input variables with respect to output classes is computed. In this example, saliency mapping, a gradient-based sensitivity analysis that evaluates the relative importance of input variables with respect to output classes, is used. The result is a saliency map **333** indicating the feature importance for each of the DANNs, DBNNs, and DHNNs. For binomial comparisons, saliency maps were calculated at the gene-set/module level and the intersection of genes from each model type (DANN and DBNN) for each feature learning methodology (nGOseq and MEGNEA) were concatenated into new training and testing data matrices for downstream modeling at the gene-level.

[0080] In this exemplary embodiment, all deep artificial neural network (DANN) models were trained with deep neural networks in CUDA-enabled GPU computing platforms. The lasagna and nolearn python modules were used to construct these deep learning models with the Theano compiler. The deep neural networks were initialized with an input layer, three hidden layers using the Rectify non-linear activation function for artificial neurons as in Equation 1 and an output layer using the Softmax activation function as in Equation 2 where K is the total number of neurons in the layer.

$$\varphi(x) = max(0, x)$$

Equation 1

$$\varphi(\mathbf{x})_j = \frac{e^{\mathbf{x}_j}}{\sum_{k=1}^{K} e^{\mathbf{x}_k}}$$

Equation 2

[0081] Stochastic Gradient Descent (SGD) was performed for parameter updates with Nesterov momentum and the categorical cross-entropy loss function of Equation 3 where t is the target giving the correct class index per data point and p is the softmax output of the neural network with class probabilities.

$$L_i = -\sum_j t_{i,j} \log(p_{i,j})$$

Equation 3

[0082] A dropout technique was applied to prevent the deep neural networks from overfitting. Model parameters such as update learning rate, number of units, dropout rate and max epoch number were optimized by the cross-validated grid-search method over the parameter grid.

[0083] A genomic missense DNA variant DANN model (deepCODE) model was built for predicting the pathogenicity of human missense single-nucleotide variants (SNVs) across the genome. The model was trained on 59 genomic features extracted as a subset from a published annotation resource, the Combined Annotation Dependent Depletion data set (CADD: http://cadd.gs.washington.edu/home) from University of Washington. CADD includes a table with 115 columns of annotations derived from public domain resources on all possible human genetic variants in the genome. The data sources for the CADD table (version 1.3) includes ENSEMBL (v.75), variant-effect predictor (VEP, v.76), regulatory data from Encode, and

missense prediction scores from Polyphen and SIFT. CADD C-score for functional prediction were not used for training the deepCODE DANN model.

[0084] The model was built with non-synonymous missense variants derived from the intersection of two data sources: 1) whole genome variants obtained from CADD, and 2) exonic coordinate regions for hg19 obtained from the UCSC genome browser. This classification scheme was trained and tested with a total of 2100 missense variants: 1050 missense variants from ClinVar (annotated by multiple labs as pathogenic), and 1050 common missense variants with allelic frequencies of 5 to 10%, randomly selected from the Exome Sequencing Project, ESP6500. We assumed that the vast majority of the latter are neutral/benign as they are common. The Clinvar "pathogenic" missense variants submitted by multiple labs served as "true values" for functional missense variants in the deepCODE models. Similarly, the 1050 ESP6500 variants served as "true values" for neutral missense variants. For model training purposes, 80% of the 2100 total variants were used.

[0085] DeepCODE is based on a non-linear deep neural network model built on 310 predictors derived from 59 of the 115 annotation columns from the CADD table. The model was tested by predicting pathogenicity for the remaining 20% of the total 2100 variants. The deepCODE model was evaluated with ROC curves and AUC metrics; the model had AUCs greater than 0.99 for both the training set and the testing set of missense variants. After the deepCODE model was trained and tested, GRC38 genomic position coordinates were obtained through use of the "liftover" function of Sequence Miner software.

[0086] DBNNs allow for uncertainty in neural networks by prescribing a prior distribution to the weights (W) of a feed-forward neural network and learning the posterior distribution via inference. In this example, the Edward library in conjunction with a TensorFlow backend was

utilized to build the DBNNs. Gaussian priors were used for the weights of each layer (W), variational inference was carried out with the Kullback Leibler divergence (using mini-batches and ADAM for back-propagation), used hyperbolic tangent activation functions at each layer, and utilized a softmax layer for predicting class probabilities. The following hyper-parameters were optimized with a random search strategy: layer-size (128-2048), number of layers (2-3), and learning rate. The number of training epochs for each hyper-parameter tuning was determined by early stopping, implemented by monitoring both the accuracy and loss on a validation data set (10% of the training data). Final model predictions were made by sampling 500 times from the posterior distributions of the weights and taking the mean of the softmax prediction probabilities.

[0087] The DANN and DBNN models were evaluated using ROC and precision-recall (PR) curves (for binomial models), F1-scores, overall accuracy, and balanced accuracy metrics (for both binomial and multinomial models).

[0088] The Deep Hazard Neural Networks (DHNNs) were formulated as a deep version of the traditional cox-proportional hazards model. A traditional feed-forward neural network structure with a loss layer defined as the cox-proportional hazard log-likelihood function of Equation 4 was used where X_i are the covariate vectors, Y_i denote the observed time and $\theta_j = \exp(X_j \cdot \beta)$.

$$l(\beta) = \sum_{i:\, C_i = 1} (X_i \cdot \beta - \log \sum_{j:\, Y_j \geq Y_i} \theta_j)$$

Equation 4

[0089] This allows learning deep features in the neural network layers which are then the input to the traditional cox-proportional hazards model at the final layer. The model was implemented using the python library PyTorch with a custom-defined loss layer. The backpropagation using

mini-batches and stochastic gradient descent with nesterov momentum (set to 0.9) was carried out and hyperbolic tangent activation functions at each layer was used. The following hyper-parameters were optimized with a random search strategy: layer-size (128-2048), number of layers (2-3), dropout fraction (0.1-0.8), and learning rate. The number of training epochs for each hyper-parameter run was determined by early stopping, implemented by monitoring both the accuracy and loss on a validation data set (10% of the training data). Model accuracy was assessed using both Harrell's c-index and a temporal AUC metric.

[0090] The supervised machine learning method, Least Absolute Shrinkage and Selection Operator (LASSO), was also used as complementary classification model for the deep neural network strategies described above. LASSO is a L_1-penalized linear regression model. More specifically, the glmnet R package was used to solve the following optimization problem for L_1-penalized regression as in Equation 5 where $\lambda > 0$ equals the regularization parameter.

$$\hat{\beta}(\lambda) = \min_{\beta}[-\log\{L(y;\beta)\} + \lambda \parallel \beta \parallel_1]$$

Equation 5

[0091] The constraint placed on the sum of the absolute values of regression parameters caused coefficients of uninformative features to shrink to zero. With this shrinkage process, a simpler model that selects only a few important features was produced. The cv.glmnet function from the glmnet R package was used to train the LASSO model, applying $\alpha = 1$ for L_1-penalization. The λ was optimized via 10-fold cross-validation, and the value that gave a minimum mean cross-validated error was used for the model.

[0092] Saliency maps were derived from the trained deep neural networks described above to evaluate the relative importance of input variables based on computing the gradient of the

network's prediction with respect to the input, holding the weights fixed through a single back-propagation pass throughout the multiple layers of the network.

[0093] The deep neural network consists of multiple layers of neurons, activated as in Equation 6 with $z_{ij} = a_i^{(l)} w_{ij}^{(l,l+1)}$, where $a_j^{(l+1)}$ is the activation of a neuron j in the layer $l+1$, and z_{ij} is the contribution of neuron i at the previous layer l to the activation of the neuron j at layer $l+1$.

$$a_j^{(l+1)} = f(\sum_i z_{ij} + b_j^{(l+1)})$$

Equation 6

[0094] The function f is the activation function at layer $l+1$, $w_{ij}^{(l,l+1)}$ is the weights from the layer l to the layer $l+1$ and $b_j^{(l+1)}$ is the bias term.

[0095] The back-propagation chain rule from one layer to another layer for computing partial derivatives as in Equation 7 where $x^{(l)}$ and $x^{(l+1)}$ are the neuron activities at two conservative layers $(l+1,\ l)$.

$$\frac{\partial f}{\partial x^{(l)}} = \frac{\partial x^{(l+1)}}{\partial x^{(l)}} \frac{\partial f}{\partial x^{(l+1)}}$$

Equation 7

[0096] In gene level deep learning and ranking step **304**, this analysis was repeated using models (DANN **341** and DBNN **342**) trained at gene level. The top intersecting genes (*e.g.*, 100) were extracted as final gene lists. For the multinomial comparison, the intersection (DANN and DBNN) of the top informative MEGENA modules was taken for each cancer type. At the gene-level, the top (*e.g.*, 100) most informative genes were calculated for each cancer, and the final

200 genes were obtained by sorting the union set by the number of occurrences (filtered by ≥ 4 cancers).

[0097] Significant hazard ratios (false discovery rate ≤ 0.05) for DHNN models were calculated using univariate cox-proportional hazard models for each cancer and formulated into an undirected graph structure. Model predictions for all samples (from each DHNN) were stratified into 3 risk quantiles (low, moderate, and high) and p-values were calculated via log-rank tests for each pairwise comparison.

[0098] Based on the ranks from the saliency mappings of the DANN nGOseq and DBNN nGOseq models (training data only), genes from the top 50% of the most informative nGOseq terms from each model were extracted. The intersection of the genes from each model was then calculated and intersecting genes were concatenated into new training and testing data matrix for further modeling at the gene-level.

[0099] Similarly, rankings from the saliency mappings of the DANN MEGENA and DBNN MEGENA models (training data only), genes from the intersection of the top 10% of informative modules from each model were extracted. This cut-off is significantly more restrictive than that used for the nGOSeq models (described above), since the sizes of MEGENA modules are larger than nGOseq pathways. The individual genes from each of the intersecting modules were then concatenated into new training and testing data matrix for further modeling at the gene-level.

[0100] Saliency maps were calculated for both DANN and DBNN models at the gene level and the top 100 intersecting genes were extracted for final gene lists. Both of the binomial classes contributed to the ranking – the top 50 or more from each class were used.

[0101] The ranking procedure for the binomial comparisons was modified due to the increase in the number of classes (from 2 to 22) in the multinomial models. Based on the ranking from the

saliency mappings of the DANN MEGENA and DBNN MEGENA models (training data only) the intersection of the top informative modules for each class (cancer type) from each model was taken. The individual genes from these modules were then concatenated into new training and testing data matrix for further modeling at the gene-level.

[0102] Saliency maps were calculated for both DANN and DBNN models at the gene level and the top 100 intersecting genes were extracted for each of the 22 cancer types. The union of these genes was then calculated along with the number of occurrences in the union set. The final ranking was obtained by sorting the union set by the number of occurrences and subsequently filtered the list by removing genes with an occurrence in less than 15% of tumor types.

[0103] In causal dependency and biological context determination step **305**, conditional dependence is assessed between the most informative genes from the prior step. In this embodiment, Bayesian belief networks (BNNs) **351** were used to assess conditional dependence between the top 100 most informative genes for each feature learning methodology. BNNs were learned with the bnlearn R package using a heuristic search strategy and the Bayesian information criterion score. Consensus networks were generated from 100 random network seeds and statistical significance of edges was calculated via 10,000 random permutations of the data set (edges with a false discovery rate ≥ 0.05 were removed).

[0104] Natural language processing **352** is performed to evaluate existing literature. Chilibot Natural Language Processing was used to identify associations among the top 100 most informative genes and specific cancer types for each model comparison (binomial, multinomial, survival). Chilibot uses natural language processing to search MEDLINE/PubMed abstracts for relationships between genes of interest and query terms (MeSH vocabulary terms). Gene association with drug targets was determined by querying both DrugBank

(https://www.drugbank.ca/) and Pharmacodia (http://en.pharmacodia.com/) and filtering based on clinical trials in any indication.

[0105] Bayesian Belief Networks (BNN) were used to assess conditional dependence and to explore the probabilistic relationships among the most informative genes of each deep neural network model. A BNN is a graphic model where nodes represent random variables and the directed edges represent conditional dependence between the nodes. The probability distribution of the variables in a BNN must satisfy the Markov property, that is, each variable is conditionally independent of all other variables except its parents and descendants, given its parent variable. Thus a DAG (directed acyclic graph) G = (V, E), where V is the node set and E is the edge set, encodes factorizations by a set of local probability distributions.

[0106] Bayesian network structures were learned with the bnlearn R package, from which the derivations and equation below are cited and summarized. The score-based, Hill-climbing algorithm was used for heuristic search on the space of the DAGs. During the hill-climbing process, assessment of each candidate BNN, which describes the data set D, was measured with a Bayesian information criterion score (BIC score) as in Equation 8, where $X_1, \ldots, X_v$ is the node set, d is the number of free parameters of the multivariate Gaussian distribution, and n is the sample size of data set D.

$$\mathrm{BIC} = \log L(X_{1,\ldots,}X_v) - \frac{d}{2}\log n$$

Equation 8

[0107] The penalty term was used to prevent overly complicated structures and overfitting. The algorithm returns a structure that maximizes the BIC score. BNN consensus networks were generated for each binomial and Pan-Cancer survival gene list with 100 random network seeds. To assess statistical significance of node edges within each imposed consensus network, 100k

random permutations were performed. Node edges with a false discovery rate of 1% or greater were removed from the final network.

[0108] Chilibot Natural Language Processing was used to identify associations among the top 100 statistically informative genes and specific cancer types for each binomial and multinomial comparison described above. Chilibot is a web-based application that uses natural language processing to search MEDLINE/PubMed abstracts for relationships between genes of interest and query terms. Each gene was compared with every other gene in the query group and assigned a relationship (stimulatory, inhibitory, neutral, parallel and abstract co-occurrence) based on data in the abstract. Cancer, cancer type, and patient survival U.S. National Library of Medicine Medical Subject Headings (MeSH) vocabulary terms were used as synonyms to refine each NLP search.

[0109] **Fig. 3F-I** illustrate an alternative ensemble computational method. In particular, in such embodiments, training data **361** obtained from preprocessing **301** step of **Fig. 3A** are provided to feature learning and dimensionality reduction step **307** of **Fig. 3G** and to model evaluation step **309** of **Fig. 3I**. **Fig. 3H** corresponds to an ensemble module-level deep learning (ML/DL) and feature ranking step, the results of which are provided to the causal dependency and biological context step of **Fig. 3E**. In the example pictured, 80% of the data obtained from step

[0110] In the example pictured., 80% of the data obtained from preprocessing step **301** is used for training in step **307**, while 20% is reserved for step **309**. However, it will be appreciated that this ratio is merely exemplary.

[0111] A data driven clustering approach, MEGENA **371**, is applied as described further above. Principal component analysis (PCA) is applied for each gene-set/module, thus reducing the

dimensionality of the learned feature space. The reduced feature space **373** is aggregated into new data matrices for downstream modeling.

[0112] A plurality of deep learning and/or machine learning methods **381** are applied at step **308**. For example, a neural network, a Bayesian neural network, a random forest, and/or a ridge regression model are applied. The results are provided back to step **309** for evaluation of each model applied. Ensemble ranking is applied to output saliency maps **383** for each model. In some embodiments, a composite salience map, for example based on a weighted mean of the ensemble. The result is provided to step **304**, described further above.

[0113] The term "biological sample" includes, but not limited to, whole blood, plasma, serum, saliva, urine, stool (*e.g.*, feces), tears, any other bodily fluid, a tissue sample (*e.g.*, biopsy) such as a surgical resection tissue, cells, tissues, or organs. In certain instances, the method of the present invention further comprises obtaining the sample from the subject prior to detecting or determining the presence or level of at least one therapeutic or drug target in the sample.

[0114] The term "diagnosing cancer" includes the use of the methods, systems, algorithms, programs, and codes of the present invention to determine the presence or absence of a cancer or subtype thereof in subject. The term also includes methods, systems, algorithms, programs, and codes for assessing the level of disease activity in an individual.

[0115] The term "pan-cancer" includes, but not limited to, the cancers listed in Table A.

Table A: The Cancer Genome Atlas (TCGA) cancer samples

count	TCGA_project	TCGA_disease_type
401	BLCA	Bladder Urothelial Carcinoma
1006	BRCA	Breast Invasive Carcinoma
292	CESC	Cervical Squamous Cell Carcinoma and Endocervical Adenocarcinoma
551	COAD/READ	Colon Adenocarcinoma/Rectum Adenocarcinoma
160	ESCA	Esophageal Carcinoma

480	HNSC	Head and Neck Squamous Cell Carcinoma
327	KIRC	Kidney Renal Clear Cell Carcinoma
284	KIRP	Kidney Renal Papillary Cell Carcinoma
499	LGG	Brain Lower Grade Glioma
358	LIHC	Liver Hepatocellular Carcinoma
500	LUAD	Lung Adenocarcinoma
462	LUSC	Lung Squamous Cell Carcinoma
265	OV	Ovarian Serous Cystadenocarcinoma
172	PAAD	Pancreatic Adenocarcinoma
159	PCPG	Pheochromocytoma and Paraganglioma
483	PRAD	Prostate Adenocarcinoma
249	SARC	Sarcoma
369	STAD	Stomach Adenocarcinoma
133	TGCT	Testicular Germ Cell Tumors
481	THCA	Thyroid Carcinoma
118	THYM	Thymoma
523	UCEC	Uterine Corpus Endometrial Carcinoma
740	ER_Positive	
219	ER_Negative	
199	Luminal_A	
112	Luminal_B	

[0116] For example, whole Exome Sequencing, RNA-Seq, miRNA-Seq, Methylation Array, and Genotyping Array data for 8272 samples, representing 22 cancer types (**FIG. 1** and Table A), were retrieved from either the Genome Data Commons (GDC) data portal (https://portal.gdc.cancer.gov/ - data release 4.0) or cBioportal (http://www.cbioportal.org/)69. Whole exome sequencing data from VarScan2 (Koboldt, D. C. *et al. Genome Res* 22, 568-576, (2012)) and MuTect2(Cibulskis, K. *et al. Nat Biotechnol* 31, 213-219 (2013)) files annotated with Variant Effect Predictor (VEP)(McLaren, W. *et al. Genome Biol* 17, 122 (2016)) v84 and DeepCODE scores were used, subsequently filtered for quality and relevancy, mapped to genes, and all variants for a given gene added together. Raw read counts of mRNA from HT-

Seq(Anders, S. *et al. Bioinformatics* 31, 166-169 (2015) were normalized using trimmed mean of M-values (TMM) (Robinson, M. D. *et al. Genome Biol* 11, R25, (2010); Robinson, M. D. *et al. Bioinformatics* 26, 139-140, (2010)), filtered (counts > 1 per 106 reads in > 10% of samples), and batch corrected using ComBat (Johnson, W. E. *et al. Biostatistics* 8, 118-127 (2007); Johnson, W. E. *et al. Biostatistics* 8, 118-127 (2007)). Raw counts for known miRNAs were normalized in a similar fashion to mRNA. miRNA experimentally validated gene targets were downloaded from miRTarBase (Chou, C. H. *et al. Nucleic Acids Res* 44, D239-247, (2016)). GISTIC2(Beroukhim, R. *et al. Proc Natl Acad Sci U S A* 104, 20007-20012, (2007)) processed copy number variation (CNV) data were downloaded from cBioportal (Cerami, E. *et al. Cancer Discov* 2, 401-404 (2012); Gao, J. *et al. Sci Signal* 6, pl1, (2013)). Methylation beta values were filtered, converted to M values, and batch corrected using ComBat. Multiple probes were collapsed to a single gene by selecting the probe with the largest standard deviation. All 5 data types were concatenated into a single data matrix and randomly split 80% (training data) and 20% (testing data) stratified by cancer and/or molecular subtype (survival analysis – also stratified by age, overall survival, and survival status). Each feature was standardized to zero mean and unit variance (z-score).

[0117] Additional cancers may include, but not limited to, cancers include, acute lymphoblastic leukemia, acute myeloid leukemia, adrenocortical carcinoma, anal cancer, appendix cancer, astrocytomas, atypical teratoid/rhabdoid tumor, basal cell carcinoma, bile duct cancer, bladder cancer, bone cancer (osteosarcoma and malignant fibrous histiocytoma), brain stem glioma, brain tumors, brain and spinal cord tumors, breast cancer, bronchial tumors, Burkitt lymphoma, cervical cancer, chronic lymphocytic leukemia, chronic myelogenous leukemia, colon cancer, colorectal cancer, craniopharyngioma, cutaneous T-Cell lymphoma, embryonal tumors,

endometrial cancer, ependymoblastoma, ependymoma, esophageal cancer, eye cancer, retinoblastoma, gallbladder cancer, gastric (stomach) cancer, gastrointestinal carcinoid tumor, gastrointestinal stromal tumor (GIST), gastrointestinal stromal cell tumor, germ cell tumor, glioma, hairy cell leukemia, head and neck cancer, hepatocellular (liver) cancer, hypopharyngeal cancer, intraocular melanoma, islet cell tumors (endocrine pancreas), Kaposi sarcoma, Langerhans cell histiocytosis, laryngeal cancer, leukemia, lung cancer, non-small cell lung cancer, small cell lung cancer, Hodgkin lymphoma, lymphoma, medulloblastoma, medulloepithelioma, melanoma, mesothelioma, mouth cancer, multiple myeloma, nasopharyngeal cancer, neuroblastoma, non-Hodgkin lymphoma, oral cancer, oropharyngeal cancer, ovarian cancer, ovarian epithelial cancer, ovarian germ cell tumor, ovarian low malignant potential tumor, pancreatic cancer, papillomatosis, parathyroid cancer, penile cancer, pharyngeal cancer, pineal parenchymal tumors of intermediate differentiation, pineoblastoma and supratentorial primitive neuroectodermal tumors, pituitary tumor, plasma cell neoplasm, pleuropulmonary blastoma, primary central nervous system lymphoma, prostate cancer, rectal cancer, renal cell (kidney) cancer, rhabdomyosarcoma, salivary gland cancer, sarcoma, Ewing sarcoma family of tumors, sarcoma, Sezary syndrome, skin cancer, small intestine cancer, soft tissue sarcoma, squamous cell carcinoma, stomach (gastric) cancer, supratentorial primitive neuroectodermal tumors, T-cell lymphoma, testicular cancer, throat cancer, thymoma and thymic carcinoma, thyroid cancer, urethral cancer, uterine cancer, uterine sarcoma, vaginal cancer, vulvar cancer, Waldenstrom macroglobulinemia, or Wilms tumor.

[0118] The pan-cancer model-derived driver therapeutic or drug targets or genes generated according to the methods, systems, algorithms, programs, and codes described above are set forth in Appendix K (full listing) and Tables L (top 51 genes) and M (top 200 genes).

Table L: Top 50 genes from pan-cancer from Table A (22 cancer types) MEGENA (see full listings in Appendix K and L)

Full_Name	Data_ Type	HUGO_ GENE	GO_ Annotated	Number_Of-GO_ Annotations	Cancers_ In_Rank
meth_KCNQ1	meth	KCNQ1	YES	69	BRCA,CRAD,ESCA,KIRC, KIRP,OV,PRAD,TGCT,UCEC
meth_PIK3CA	meth	PIK3CA	YES	67	BRCA,HNSC,LGG,LUSC, OV,PCPG,SARC,THCA,THYM
meth_IL20	meth	IL20	YES	11	BLCA,BRCA,CESC,CRAD, HNSC,KIRC,OV,STAD,UCEC
meth_STON2	meth	STON2	YES	17	BLCA,BRCA,CRAD,HNSC, LUAD,LUSC,PRAD,STAD
meth_RP11.540D14.8	meth	RP11.540D14.8	NO	0	BLCA,BRCA,CESC,CRAD, KIRC,KIRP,LGG,UCEC
meth_AGT	meth	AGT	YES	111	KIRP,LIHC,LUSC,PAAD, SARC,STAD,TGCT,THCA
mRNA_HAS2-AS1	mRNA	HAS2-AS1	NO	0	BLCA,CRAD,KIRC,LGG, OV,SARC,TGCT,UCEC
mRNA_XPR1	mRNA	XPR1	YES	17	CESC,ESCA,LIHC,LUAD, PRAD,THCA,UCEC
mRNA_NFIX	mRNA	NFIX	YES	15	BLCA,BRCA,KIRP,LUSC, PCPG,PRAD,SARC
meth_MGMT	meth	MGMT	YES	31	BRCA,CESC,LIHC,PCPG, PRAD,THCA,UCEC
meth_C16orf87	meth	C16orf87	YES	1	CRAD,ESCA,LIHC,PAAD, SARC,STAD,UCEC
meth_NPL	meth	NPL	YES	10	BLCA,BRCA,CRAD,KIRP, LGG,PAAD,PRAD
meth_CRAT	meth	CRAT	YES	15	CRAD,HNSC,LUAD,LUSC, OV,PAAD,THYM
mRNA_HOXD-AS2	mRNA	HOXD-AS2	NO	0	CESC,CRAD,HNSC,KIRP, LGG,LIHC,LUAD
meth_TLK1	meth	TLK1	YES	16	BLCA,KIRC,LUAD,PCPG, PRAD,THCA,THYM
meth_ALDH18A1	meth	ALDH18A1	YES	26	KIRC,LUAD,LUSC,PAAD, THCA,THYM,UCEC
mRNA_CACHD1	mRNA	CACHD1	YES	2	CRAD,KIRP,LUSC,OV, PAAD,PCPG,THCA
mRNA_PHACTR4	mRNA	PHACTR4	YES	22	CESC,CRAD,LIHC,OV, STAD,THYM,UCEC
meth_FLRT1	meth	FLRT1	YES	32	BRCA,KIRP,LUSC,PAAD, PCPG,UCEC
mRNA_HNRNPUL2-BSCL2	mRNA	HNRNPUL2-BSCL2	YES	5	ESCA,HNSC,LGG,OV, STAD,THCA
meth_ACSF2	meth	ACSF2	YES	12	BRCA,CRAD,HNSC,

					LGG,LIHC,SARC
meth_ARG1	meth	ARG1	YES	53	BLCA,CRAD,KIRP,LIHC, PRAD,THCA
meth_SYCP2	meth	SYCP2	YES	16	BRCA,CESC,CRAD,KIRP, LUAD,PCPG
meth_LIPC	meth	LIPC	YES	28	BLCA,BRCA,KIRC,KIRP, LGG,PRAD
mRNA_RAET1E-AS1	mRNA	RAET1E-AS1	NO	0	BLCA,CESC,CRAD,ESCA, SARC,STAD
mRNA_MKLN1-AS	mRNA	MKLN1-AS	NO	0	BLCA,KIRC,KIRP,LUSC, PAAD,PCPG
meth_SLC35F6	meth	SLC35F6	YES	17	BLCA,BRCA,TGCT,THCA, THYM,UCEC
meth_ALDH1B1	meth	ALDH1B1	YES	12	BLCA,LUAD,LUSC,OV, PAAD,STAD
mRNA_PAG1	mRNA	PAG1	YES	20	BLCA,CRAD,HNSC,KIRP, PRAD,THYM
mRNA_EPB41L2	mRNA	EPB41L2	YES	31	CRAD,HNSC,LUSC,PCPG, SARC,TGCT
mRNA_EIF4BP3	mRNA	EIF4BP3	NO	0	CESC,ESCA,HNSC,OV, STAD,THCA
mRNA_ZFYVE27	mRNA	ZFYVE27	YES	23	BRCA,KIRC,KIRP,LGG, PAAD,PCPG
meth_FAM131A	meth	FAM131A	YES	1	BRCA,HNSC,KIRC,LUAD, LUSC,STAD
mRNA_RP11-398K22.12	mRNA	RP11-398K22.12	NO	0	ESCA,HNSC,LGG,LUSC, THCA,THYM
meth_CIB3	meth	CIB3	YES	4	BRCA,CRAD,ESCA,PAAD, STAD,THYM
meth_C2CD2	meth	C2CD2	YES	4	BLCA,BRCA,CESC,LGG, LUSC,PRAD
mRNA_MKRN3	mRNA	MKRN3	YES	6	CRAD,HNSC,KIRP,LGG, STAD,THCA
meth_RIOK3	meth	RIOK3	YES	28	ESCA,PCPG,SARC,STAD, TGCT,UCEC
mRNA_AC004987.9	mRNA	AC004987.9	NO	0	BLCA,CESC,OV,PAAD, STAD,UCEC
meth_RABL6	meth	RABL6	YES	8	CESC,CRAD,HNSC,KIRP, LIHC,OV
mRNA_KCNS3	mRNA	KCNS3	YES	21	BLCA,HNSC,LUAD,LUSC, PRAD,UCEC
mRNA_MARCKS	mRNA	MARCKS	YES	20	BRCA,LIHC,PAAD,SARC, THCA,UCEC
meth_FABP7	meth	FABP7	YES	20	CRAD,HNSC,KIRC, LGG,LIHC,OV
meth_LDHD	meth	LDHD	YES	10	KIRC,KIRP,LGG,LIHC, LUAD,UCEC

meth_SIDT1	meth	SIDT1	YES	4	BLCA,BRCA,HNSC, LIHC,PRAD,THYM
meth_SCGB3A2	meth	SCGB3A2	YES	3	ESCA,HNSC,KIRC,LGG, PRAD,THCA
mRNA_RPS6KA6	mRNA	RPS6KA6	YES	24	CESC,CRAD,LUAD, PRAD,TGCT,THYM
mRNA_POT1-AS1	mRNA	POT1-AS1	NO	0	CESC,CRAD,LUSC, PRAD,SARC,THYM
meth_NDUFAF4	meth	NDUFAF4	YES	8	CESC,CRAD,LUAD, LUSC,THCA,UCEC

Table M: Top 200 genes from pan-cancer from Table A (22 cancer types) MEGENA (no need to include Appendix L as same as Table M)

Full_Name	Data_ Type	HUGO_ GENE	GO_ Annotated	Number_Of-GO_ Annotations	Cancers_ In_Rank
meth_KCNQ1	meth	KCNQ1	YES	69	BRCA,CRAD,ESCA,KIRC, KIRP,OV,PRAD,TGCT,UCEC
meth_PIK3CA	meth	PIK3CA	YES	67	BRCA,HNSC,LGG,LUSC, OV,PCPG,SARC,THCA,THYM
meth_IL20	meth	IL20	YES	11	BLCA,BRCA,CESC,CRAD, HNSC,KIRC,OV,STAD,UCEC
meth_STON2	meth	STON2	YES	17	BLCA,BRCA,CRAD,HNSC, LUAD,LUSC,PRAD,STAD
meth_RP11.540D14.8	meth	RP11.540D14.8	NO	0	BLCA,BRCA,CESC,CRAD, KIRC,KIRP,LGG,UCEC
meth_AGT	meth	AGT	YES	111	KIRP,LIHC,LUSC,PAAD, SARC,STAD,TGCT,THCA
mRNA_HAS2-AS1	mRNA	HAS2-AS1	NO	0	BLCA,CRAD,KIRC,LGG, OV,SARC,TGCT,UCEC
mRNA_XPR1	mRNA	XPR1	YES	17	CESC,ESCA,LIHC,LUAD, PRAD,THCA,UCEC
mRNA_NFIX	mRNA	NFIX	YES	15	BLCA,BRCA,KIRP,LUSC, PCPG,PRAD,SARC
meth_MGMT	meth	MGMT	YES	31	BRCA,CESC,LIHC,PCPG, PRAD,THCA,UCEC
meth_C16orf87	meth	C16orf87	YES	1	CRAD,ESCA,LIHC,PAAD, SARC,STAD,UCEC
meth_NPL	meth	NPL	YES	10	BLCA,BRCA,CRAD,KIRP, LGG,PAAD,PRAD
meth_CRAT	meth	CRAT	YES	15	CRAD,HNSC,LUAD,LUSC, OV,PAAD,THYM
mRNA_HOXD-AS2	mRNA	HOXD-AS2	NO	0	CESC,CRAD,HNSC,KIRP, LGG,LIHC,LUAD
meth_TLK1	meth	TLK1	YES	16	BLCA,KIRC,LUAD,PCPG,

					PRAD,THCA,THYM
meth_ALDH18A1	meth	ALDH18A1	YES	26	KIRC,LUAD,LUSC,PAAD, THCA,THYM,UCEC
mRNA_CACHD1	mRNA	CACHD1	YES	2	CRAD,KIRP,LUSC,OV, PAAD,PCPG,THCA
mRNA_PHACTR4	mRNA	PHACTR4	YES	22	CESC,CRAD,LIHC,OV, STAD,THYM,UCEC
meth_FLRT1	meth	FLRT1	YES	32	BRCA,KIRP,LUSC,PAAD, PCPG,UCEC
mRNA_HNRNPUL2-BSCL2	mRNA	HNRNPUL2-BSCL2	YES	5	ESCA,HNSC,LGG,OV, STAD,THCA
meth_ACSF2	meth	ACSF2	YES	12	BRCA,CRAD,HNSC, LGG,LIHC,SARC
meth_ARG1	meth	ARG1	YES	53	BLCA,CRAD,KIRP,LIHC, PRAD,THCA
meth_SYCP2	meth	SYCP2	YES	16	BRCA,CESC,CRAD,KIRP, LUAD,PCPG
meth_LIPC	meth	LIPC	YES	28	BLCA,BRCA,KIRC,KIRP, LGG,PRAD
mRNA_RAET1E-AS1	mRNA	RAET1E-AS1	NO	0	BLCA,CESC,CRAD,ESCA, SARC,STAD
mRNA_MKLN1-AS	mRNA	MKLN1-AS	NO	0	BLCA,KIRC,KIRP,LUSC, PAAD,PCPG
meth_SLC35F6	meth	SLC35F6	YES	17	BLCA,BRCA,TGCT,THCA, THYM,UCEC
meth_ALDH1B1	meth	ALDH1B1	YES	12	BLCA,LUAD,LUSC,OV, PAAD,STAD
mRNA_PAG1	mRNA	PAG1	YES	20	BLCA,CRAD,HNSC,KIRP, PRAD,THYM
mRNA_EPB41L2	mRNA	EPB41L2	YES	31	CRAD,HNSC,LUSC,PCPG, SARC,TGCT
mRNA_EIF4BP3	mRNA	EIF4BP3	NO	0	CESC,ESCA,HNSC,OV, STAD,THCA
mRNA_ZFYVE27	mRNA	ZFYVE27	YES	23	BRCA,KIRC,KIRP,LGG, PAAD,PCPG
meth_FAM131A	meth	FAM131A	YES	1	BRCA,HNSC,KIRC,LUAD, LUSC,STAD
mRNA_RP11-398K22.12	mRNA	RP11-398K22.12	NO	0	ESCA,HNSC,LGG,LUSC, THCA,THYM
meth_CIB3	meth	CIB3	YES	4	BRCA,CRAD,ESCA,PAAD, STAD,THYM
meth_C2CD2	meth	C2CD2	YES	4	BLCA,BRCA,CESC,LGG, LUSC,PRAD
mRNA_MKRN3	mRNA	MKRN3	YES	6	CRAD,HNSC,KIRP,LGG, STAD,THCA
meth_RIOK3	meth	RIOK3	YES	28	ESCA,PCPG,SARC,STAD, TGCT,UCEC

mRNA_AC004987.9	mRNA	AC004987.9	NO	0	BLCA,CESC,OV,PAAD, STAD,UCEC
meth_RABL6	meth	RABL6	YES	8	CESC,CRAD,HNSC,KIRP, LIHC,OV
mRNA_KCNS3	mRNA	KCNS3	YES	21	BLCA,HNSC,LUAD,LUSC, PRAD,UCEC
mRNA_MARCKS	mRNA	MARCKS	YES	20	BRCA,LIHC,PAAD,SARC, THCA,UCEC
meth_FABP7	meth	FABP7	YES	20	CRAD,HNSC,KIRC, LGG,LIHC,OV
meth_LDHD	meth	LDHD	YES	10	KIRC,KIRP,LGG,LIHC, LUAD,UCEC
meth_SIDT1	meth	SIDT1	YES	4	BLCA,BRCA,HNSC, LIHC,PRAD,THYM
meth_SCGB3A2	meth	SCGB3A2	YES	3	ESCA,HNSC,KIRC,LGG, PRAD,THCA
mRNA_RPS6KA6	mRNA	RPS6KA6	YES	24	CESC,CRAD,LUAD, PRAD,TGCT,THYM
mRNA_POT1-AS1	mRNA	POT1-AS1	NO	0	CESC,CRAD,LUSC, PRAD,SARC,THYM
meth_NDUFAF4	meth	NDUFAF4	YES	8	CESC,CRAD,LUAD, LUSC,THCA,UCEC
meth_ABHD14A.ACY1	meth	ABHD14A.ACY1	NO	0	CRAD,KIRC,KIRP,LIHC, PAAD,UCEC
meth_THRSP	meth	THRSP	YES	12	ESCA,KIRC,LUAD,PAAD, PRAD,THCA
meth_PI4KA	meth	PI4KA	YES	25	BLCA,CESC,KIRC,LIHC,OV
mRNA_VDAC2	mRNA	VDAC2	YES	23	BRCA,ESCA,HNSC,STAD,UCEC
meth_PSPN	meth	PSPN	YES	10	BLCA,BRCA,KIRC,PRAD,UCEC
mRNA_RP11-8L2.1	mRNA	RP11-8L2.1	NO	0	BLCA,LUSC,OV,SARC,UCEC
meth_SLCO1C1	meth	SLCO1C1	YES	15	BLCA,HNSC,LUSC,TGCT,THCA
meth_NNMT	meth	NNMT	YES	11	CRAD,KIRC,KIRP,PRAD,SARC
mRNA_VLDLR	mRNA	VLDLR	YES	37	BLCA,CRAD,KIRC,KIRP,UCEC
meth_PKLR	meth	PKLR	YES	29	CESC,CRAD,KIRC,LIHC,UCEC
meth_TRAPPC10	meth	TRAPPC10	YES	19	CESC,CRAD,ESCA,HNSC,KIRC
meth_ITIH1	meth	ITIH1	YES	9	BLCA,KIRC,LIHC,SARC,THYM
mRNA_ZFPM1	mRNA	ZFPM1	YES	46	BLCA,CRAD,PRAD,STAD,UCEC
meth_CAP1P2	meth	CAP1P2	NO	0	BLCA,BRCA,STAD,THCA,UCEC
meth_PPL	meth	PPL	YES	17	BLCA,CESC,PAAD,SARC,UCEC
mRNA_RFXAP	mRNA	RFXAP	YES	6	CRAD,ESCA,HNSC,KIRC,STAD
meth_JDP2	meth	JDP2	YES	16	BRCA,KIRP,PRAD,STAD,UCEC
meth_SLC27A5	meth	SLC27A5	YES	29	CRAD,KIRP,LGG,LIHC,UCEC
mRNA_ARHGEF3	mRNA	ARHGEF3	YES	12	BLCA,LIHC,SARC,THYM,UCEC
mRNA_TUSC3	mRNA	TUSC3	YES	18	CRAD,LUAD,LUSC,PAAD,THYM

mRNA_KCNC4	mRNA	KCNC4	YES	19	BLCA,CRAD,TGCT,THCA,THYM
meth_ANKRD46	meth	ANKRD46	YES	2	BLCA,HNSC,KIRC,OV,TGCT
meth_HAO2	meth	HAO2	YES	17	KIRC,KIRP,LUAD,PCPG,SARC
meth_HINT3	meth	HINT3	YES	6	CRAD,LUAD,LUSC,OV,STAD
mRNA_HMGN2P5	mRNA	HMGN2P5	NO	0	CRAD,HNSC,LGG,LUSC,STAD
meth_MYOZ3	meth	MYOZ3	YES	8	CESC,CRAD,HNSC,PRAD,THYM
mRNA_GRAMD2	mRNA	GRAMD2	YES	1	KIRP,LIHC,LUAD,LUSC,PCPG
meth_ARID1B	meth	ARID1B	YES	19	CRAD,HNSC,LUAD,OV,UCEC
meth_ZNF776	meth	ZNF776	YES	7	BRCA,CESC,KIRC,LUAD,THCA
meth_HSD17B11	meth	HSD17B11	YES	12	HNSC,KIRC,LIHC,THCA,THYM
meth_KCTD15	meth	KCTD15	YES	4	BLCA,ESCA,KIRC,LGG,THYM
mRNA_DOCK4	mRNA	DOCK4	YES	22	BLCA,CESC,KIRP,PAAD,PRAD
mRNA_SNRNP27	mRNA	SNRNP27	YES	9	CESC,PAAD,PCPG,STAD,TGCT
mRNA_ADAM28	mRNA	ADAM28	YES	12	BLCA,KIRP,PAAD,PRAD,TGCT
mRNA_PLCH2	mRNA	PLCH2	YES	20	HNSC,LUSC,PAAD,PRAD,SARC
meth_CLCNKB	meth	CLCNKB	YES	20	BRCA,CRAD,ESCA,LUAD,THCA
meth_PTPN1	meth	PTPN1	YES	54	CRAD,LUSC,OV,TGCT,THYM
meth_SETD6	meth	SETD6	YES	15	BLCA,LUSC,PCPG,SARC,THCA
meth_RNF41	meth	RNF41	YES	36	KIRC,OV,SARC,THYM,UCEC
meth_ZFAND5	meth	ZFAND5	YES	16	BLCA,OV,PAAD,STAD,TGCT
meth_UQCRC2	meth	UQCRC2	YES	21	CESC,ESCA,LIHC,LUSC,OV
meth_VASP	meth	VASP	YES	27	CESC,ESCA,OV,PAAD,THYM
meth_CLPTM1L	meth	CLPTM1L	YES	3	BLCA,ESCA,PAAD,SARC,UCEC
mRNA_SNRPGP10	mRNA	SNRPGP10	NO	0	BLCA,BRCA,ESCA,LGG,PRAD
mRNA_CALM2	mRNA	CALM2	YES	61	BRCA,PAAD,PCPG,TGCT,THCA
mirna_MIR378A	miRNA	MIR378A	YES	2	HNSC,LIHC,LUAD,PCPG,THYM
meth_CUTA	meth	CUTA	YES	8	ESCA,SARC,STAD,TGCT,THYM
mRNA_ERF	mRNA	ERF	YES	14	BRCA,KIRP,LIHC,PRAD,THYM
meth_NHLRC3	meth	NHLRC3	YES	4	BRCA,LUSC,OV,STAD,THCA
mRNA_RCHY1	mRNA	RCHY1	YES	19	BLCA,CRAD,LUAD,PAAD,PCPG
meth_ANGPTL3	meth	ANGPTL3	YES	37	HNSC,LGG,OV,SARC,THCA
mRNA_STRADA	mRNA	STRADA	YES	20	CRAD,LGG,LUSC,PRAD
mRNA_HNRNPH3	mRNA	HNRNPH3	YES	13	CESC,HNSC,THYM,UCEC
mRNA_BTN2A1	mRNA	BTN2A1	YES	7	HNSC,PAAD,PRAD,STAD
meth_EMCN	meth	EMCN	YES	9	PRAD,THCA,THYM,UCEC
mRNA_ZHX3	mRNA	ZHX3	YES	17	KIRC,KIRP,LGG,LIHC
meth_F2	meth	F2	YES	58	BRCA,LIHC,LUAD,TGCT
meth_OSGIN1	meth	OSGIN1	YES	10	HNSC,LUAD,LUSC,THCA
meth_KBTBD8	meth	KBTBD8	YES	14	BLCA,KIRC,LGG,PAAD
meth_NADK2	meth	NADK2	YES	12	BRCA,KIRP,LIHC,STAD
meth_PIEZO1	meth	PIEZO1	YES	20	BRCA,CRAD,TGCT,UCEC

meth_ZNF267	meth	ZNF267	YES	9	BLCA,KIRC,PRAD,UCEC
mRNA_ST8SIA1	mRNA	ST8SIA1	YES	16	BRCA,HNSC,LGG,PAAD
meth_CLDN16	meth	CLDN16	YES	15	CRAD,KIRP,PAAD,UCEC
mRNA_RPL5P34	mRNA	RPL5P34	NO	0	BRCA,ESCA,PRAD,STAD
mRNA_RNF141	mRNA	RNF141	YES	6	ESCA,HNSC,LGG,PRAD
meth_RP11.299J3.8	meth	RP11.299J3.8	NO	0	BRCA,CRAD,ESCA,LUAD
meth_COG6	meth	COG6	YES	11	HNSC,SARC,THCA,THYM
mRNA_GNA12	mRNA	GNA12	YES	33	BLCA,HNSC,LUSC,TGCT
meth_ATP6AP1L	meth	ATP6AP1L	YES	6	LUAD,LUSC,PCPG,STAD
meth_DIO2	meth	DIO2	YES	16	CESC,ESCA,PRAD,UCEC
mRNA_HOXC9	mRNA	HOXC9	YES	12	BRCA,CRAD,KIRC,THCA
meth_CTD.2544N14.3	meth	CTD.2544N14.3	NO	0	BRCA,CESC,KIRP,THCA
meth_CYP17A1	meth	CYP17A1	YES	54	BLCA,CRAD,LGG,THCA
mRNA_RPL5P4	mRNA	RPL5P4	NO	0	ESCA,KIRP,STAD,UCEC
mirna_MIR708	miRNA	MIR708	NO	0	HNSC,LGG,LUSC,THYM
mRNA_MEF2BNB-MEF2B	mRNA	MEF2BNB-MEF2B	YES	10	LGG,LUSC,STAD,UCEC
meth_FAM84B	meth	FAM84B	YES	3	BRCA,OV,PAAD,THYM
meth_GOLT1A	meth	GOLT1A	YES	7	BLCA,BRCA,HNSC,LIHC
meth_MLXIP	meth	MLXIP	YES	16	CESC,HNSC,KIRC,PCPG
mRNA_DCP1B	mRNA	DCP1B	YES	16	HNSC,LUSC,OV,TGCT
meth_DDR2	meth	DDR2	YES	41	CESC,PRAD,SARC,TGCT
meth_FGF1	meth	FGF1	YES	57	BLCA,BRCA,LUAD,LUSC
meth_TOR1A	meth	TOR1A	YES	50	BRCA,KIRC,STAD,THCA
mRNA_GPR63	mRNA	GPR63	YES	12	CRAD,LUAD,PRAD,SARC
meth_ADCY7	meth	ADCY7	YES	29	HNSC,OV,PRAD,UCEC
mRNA_CCSER1	mRNA	CCSER1	NO	0	BLCA,KIRP,LGG,SARC
meth_CTC.492K19.7	meth	CTC.492K19.7	NO	0	HNSC,LUAD,OV,THYM
mRNA_GUCY1A2	mRNA	GUCY1A2	YES	15	KIRC,KIRP,LGG,SARC
meth_HOXB6	meth	HOXB6	YES	13	LUAD,LUSC,THCA,UCEC
meth_TAL2	meth	TAL2	YES	13	BLCA,BRCA,CRAD,PRAD
mRNA_SPAG9	mRNA	SPAG9	YES	26	KIRP,LGG,OV,SARC
meth_DYNLL2	meth	DYNLL2	YES	34	BRCA,SARC,THCA,THYM
mRNA_STRIP1	mRNA	STRIP1	YES	8	KIRC,LIHC,TGCT,THYM
meth_FAM47E	meth	FAM47E	YES	3	BRCA,LUSC,OV,PRAD
meth_ELP3	meth	ELP3	YES	30	CESC,LUSC,OV,THYM
mRNA_PAM	mRNA	PAM	YES	53	LUAD,LUSC,PCPG,THCA
meth_UFM1	meth	UFM1	YES	10	BRCA,LUAD,LUSC,THCA
mRNA_FEZ1	mRNA	FEZ1	YES	25	HNSC,LGG,LUSC,PCPG
meth_C1orf43	meth	C1orf43	YES	4	HNSC,PAAD,PCPG,STAD
meth_EGF	meth	EGF	YES	67	BRCA,KIRC,SARC,THYM
meth_AP000692.10	meth	AP000692.10	NO	0	BRCA,KIRC,LUAD,TGCT

meth_FKBP14	meth	FKBP14	YES	11	BLCA,LUAD,THCA,UCEC
mRNA_MAZ	mRNA	MAZ	YES	15	KIRP,PRAD,STAD,THCA
mRNA_CTD-2314G24.2	mRNA	CTD-2314G24.2	NO	0	BLCA,LUSC,PRAD,THYM
mRNA_COX7A1	mRNA	COX7A1	YES	9	BLCA,KIRC,OV,UCEC
mRNA_CNN3	mRNA	CNN3	YES	16	KIRP,LGG,SARC,THYM
meth_DBF4	meth	DBF4	YES	11	HNSC,KIRP,LGG,SARC
meth_APOM	meth	APOM	YES	25	BLCA,KIRC,LIHC,PRAD
meth_GJA1	meth	GJA1	YES	88	PAAD,PRAD,THCA,THYM
meth_RP11.482M8.1	meth	RP11.482M8.1	NO	0	KIRP,LGG,LUSC,PAAD
meth_MOK	meth	MOK	YES	19	PAAD,PCPG,SARC,THCA
meth_FKBP1A	meth	FKBP1A	YES	60	CESC,CRAD,KIRC,UCEC
meth_GGTLC1	meth	GGTLC1	YES	7	KIRC,LUAD,TGCT,THCA
mRNA_SOX2	mRNA	SOX2	YES	70	LGG,LIHC,LUSC,PAAD
meth_HABP4	meth	HABP4	YES	13	BRCA,ESCA,PCPG,THCA
mRNA_ADAMTS20	mRNA	ADAMTS20	YES	17	LUAD,PRAD,THCA,UCEC
meth_TARS2	meth	TARS2	YES	18	BLCA,BRCA,OV,PCPG
meth_LRRC8D	meth	LRRC8D	YES	16	CESC,KIRP,SARC,TGCT
meth_CUL2	meth	CUL2	YES	21	LGG,LIHC,SARC,THYM
meth_WDYHV1	meth	WDYHV1	YES	8	HNSC,KIRP,LUSC,OV
mRNA_ZNF275	mRNA	ZNF275	YES	7	CRAD,OV,STAD,TGCT
meth_SGMS1	meth	SGMS1	YES	26	HNSC,KIRC,STAD,THCA
meth_ISLR	meth	ISLR	YES	6	CESC,KIRP,SARC,THYM
meth_FAM195A	meth	FAM195A	YES	1	BRCA,CESC,PRAD,TGCT
meth_CALU	meth	CALU	YES	15	BRCA,CESC,LIHC,TGCT
meth_RNU6.510P	meth	RNU6.510P	NO	0	ESCA,KIRC,THCA,UCEC
mRNA_WIZ	mRNA	WIZ	YES	11	BLCA,KIRC,OV,SARC
mRNA_FEV	mRNA	FEV	YES	18	BLCA,CESC,CRAD,LIHC
meth_RAPGEF3	meth	RAPGEF3	YES	35	CESC,LUAD,SARC,THYM
meth_CLDN15	meth	CLDN15	YES	11	CESC,LUSC,PAAD,PRAD
meth_LMO1	meth	LMO1	YES	8	CRAD,ESCA,KIRC,LUAD
mRNA_FIBIN	mRNA	FIBIN	YES	3	ESCA,KIRC,KIRP,LUAD
mRNA_CHD3	mRNA	CHD3	YES	30	LIHC,PRAD,STAD,UCEC
meth_ROPN1L	meth	ROPN1L	YES	4	KIRP,THCA,THYM,UCEC
meth_ATP6V1H	meth	ATP6V1H	YES	24	BRCA,LIHC,STAD,TGCT
meth_PPCDC	meth	PPCDC	YES	9	CRAD,LUAD,PCPG,THCA
mRNA_SRSF12	mRNA	SRSF12	YES	12	CRAD,PAAD,PRAD,UCEC
meth_MCM3	meth	MCM3	YES	22	BLCA,LGG,LUAD,THCA
mRNA_SIMC1	mRNA	SIMC1	YES	1	BLCA,CRAD,LGG,SARC
meth_TAB2	meth	TAB2	YES	32	ESCA,HNSC,KIRC,OV
meth_RNF19A	meth	RNF19A	YES	19	BLCA,LUAD,OV,THCA
meth_TMEM81	meth	TMEM81	YES	2	CRAD,KIRP,LIHC,TGCT

meth_PSMC3	meth	PSMC3	YES	55	ESCA,PAAD,SARC,STAD
mRNA_BRMS1L	mRNA	BRMS1L	YES	10	ESCA,KIRC,PAAD,THYM
mRNA_PHLDA1	mRNA	PHLDA1	YES	9	OV,PRAD,TGCT,UCEC
meth_NEDD9	meth	NEDD9	YES	23	KIRP,LIHC,LUAD,SARC
mRNA_NAV1	mRNA	NAV1	YES	10	BLCA,HNSC,KIRP,PCPG
meth_ZNF764	meth	ZNF764	YES	8	HNSC,LUAD,PAAD,THYM
mirna_MIR500B	miRNA	MIR500B	NO	0	KIRC,KIRP,PCPG,SARC
mRNA_LRRC37B	mRNA	LRRC37B	YES	3	CRAD,OV,PCPG,THYM

The pan-cancer survival model-derived driver therapeutic or drug targets or genes generated according to the methods, systems, algorithms, programs, and codes described above are set forth in Appendices M and N (full listings) and Tables N (top 51 genes) and O (top 51 genes).

Table N: Top 51 genes from pan-cancer from Table A (20 cancer types) (survival) MEGENA (from Appendix M)

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_ GO_Annotations
1	Age	Age		NO	0
2	mRNA_FCGR2A	mRNA	FCGR2A	YES	10
3	mRNA_SLFN11	mRNA	SLFN11	YES	11
4	mRNA_RGS19	mRNA	RGS19	YES	16
5	mRNA_FAM227B	mRNA	FAM227B	NO	0
6	METH_AKNAD1	METH	AKNAD1	YES	1
7	mRNA_SHC1	mRNA	SHC1	YES	49
8	mRNA_TADA2B	mRNA	TADA2B	YES	20
9	mRNA_PAX5	mRNA	PAX5	YES	29
11	METH_MAP2K2	METH	MAP2K2	YES	60
11	mRNA_ARL4C	mRNA	ARL4C	YES	16
12	STV_CDK4	STV	CDK4	YES	63
13	METH_TERC	METH	TERC	NO	0
15	METH_NFATC3	METH	NFATC3	YES	24
16	METH_SLC10A1	METH	SLC10A1	YES	16
16	mRNA_GCNT4	mRNA	GCNT4	YES	18
17	METH_HADHA	METH	HADHA	YES	30
18	METH_HOXA10.HOXA9	METH	HOXA10.HOXA9	NO	0
19	mRNA_CLDN1	mRNA	CLDN1	YES	39
20	mRNA_RP11-1055B8.1	mRNA	RP11-1055B8.1	NO	0

21	mRNA_RP11-403A3.3	mRNA	RP11-403A3.3	NO	0
22	mirna_MIR146A	miRNA	MIR146A	YES	1
24	mRNA_INHBA	mRNA	INHBA	YES	66
24	mRNA_TMEM189	mRNA	TMEM189	YES	8
26	STV_FGFRL1	STV	FGFRL1	YES	17
27	METH_GPR22	METH	GPR22	YES	11
27	mRNA_FOSL1	mRNA	FOSL1	YES	41
29	mRNA_DACT2	mRNA	DACT2	YES	14
29	STV_CAMK2N2	STV	CAMK2N2	YES	8
31	mRNA_LRMP	mRNA	LRMP	YES	19
32	METH_MAPK13	METH	MAPK13	YES	26
33	mRNA_SMIM14	mRNA	SMIM14	YES	5
34	mRNA_GALNT16	mRNA	GALNT16	YES	11
35	mRNA_TNC	mRNA	TNC	YES	34
36	METH_IL1R1	METH	IL1R1	YES	24
36	mRNA_IFITM2	mRNA	IFITM2	YES	15
37	mRNA_SFPQ	mRNA	SFPQ	YES	40
39	mRNA_SLC25A35	mRNA	SLC25A35	YES	8
39	mRNA_TUBB2B	mRNA	TUBB2B	YES	16
40	mRNA_PLEKHA8P1	mRNA	PLEKHA8P1	NO	0
41	mRNA_TRPV4	mRNA	TRPV4	YES	84
42	mRNA_NR2E1	mRNA	NR2E1	YES	53
44	METH_TBC1D8	METH	TBC1D8	YES	10
44	mRNA_FOXP3	mRNA	FOXP3	YES	85
45	mirna_MIR6503	miRNA	MIR6503	NO	0
46	mRNA_AP000439.3	mRNA	AP000439.3	NO	0
47	mRNA_MSL3P1	mRNA	MSL3P1	NO	0
48	mRNA_PHYHD1	mRNA	PHYHD1	YES	5
49	mRNA_AC098820.3	mRNA	AC098820.3	NO	0
51	METH_ALDOA	METH	ALDOA	YES	39
51	METH_CCL28	METH	CCL28	YES	14

Table O: Top 51 genes from pan-cancer from Table A (20 cancer types) (survival) nGOseq (from Appendix N)

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	Age	Age		NO	0
2	METH_CACNB2	METH	CACNB2	YES	32
3	CNV_PALM	CNV	PALM	YES	32
4	METH_DDR2	METH	DDR2	YES	41
5	mRNA_SLC22A5	mRNA	SLC22A5	YES	33

6	mRNA_TBC1D10C	mRNA	TBC1D10C	YES	18
8	METH_TP63	METH	TP63	YES	103
8	STV_ATP6V0A1	STV	ATP6V0A1	YES	38
9	STV_ARL4C	STV	ARL4C	YES	16
10	METH_CACNG4	METH	CACNG4	YES	20
12	CNV_FAM49B	CNV	FAM49B	YES	12
12	METH_ATRAID	METH	ATRAID	YES	15
13	CNV_GNA15	CNV	GNA15	YES	20
14	mRNA_PDLIM5	mRNA	PDLIM5	YES	22
16	mRNA_LRRK2	mRNA	LRRK2	YES	157
16	mRNA_MICALL1	mRNA	MICALL1	YES	26
19	METH_MIP	METH	MIP	YES	21
19	STV_RPL32	STV	RPL32	YES	18
20	CNV_HCK	CNV	HCK	YES	61
20	mRNA_PIK3R3	mRNA	PIK3R3	YES	12
22	METH_RAB15	METH	RAB15	YES	16
22	mRNA_PIM1	mRNA	PIM1	YES	32
23	METH_C2	METH	C2	YES	17
24	METH_PAM	METH	PAM	YES	53
27	CNV_SORBS2	CNV	SORBS2	YES	23
28	mRNA_TSHR	mRNA	TSHR	YES	38
29	METH_CD80	METH	CD80	YES	30
29	METH_EPPIN	METH	EPPIN	YES	15
30	METH_KLHL10	METH	KLHL10	YES	12
30	METH_SLURP1	METH	SLURP1	YES	14
32	STV_MYH7	STV	MYH7	YES	31
34	mRNA_CUZD1	mRNA	CUZD1	YES	11
35	METH_SNX4	METH	SNX4	YES	22
35	mRNA_PPIA	mRNA	PPIA	YES	36
36	CNV_HYAL3	CNV	HYAL3	YES	19
37	mRNA_SEMA3A	mRNA	SEMA3A	YES	47
38	CNV_HTR3D	CNV	HTR3D	YES	12
38	METH_ADAM2	METH	ADAM2	YES	18
40	CNV_NPRL2	CNV	NPRL2	YES	15
41	CNV_EFNA2	CNV	EFNA2	YES	13
41	STV_EHD2	STV	EHD2	YES	32
43	CNV_AHSG	CNV	AHSG	YES	28
43	mRNA_INHBA	mRNA	INHBA	YES	66
45	mRNA_SNAI2	mRNA	SNAI2	YES	57
46	STV_STRAP	STV	STRAP	YES	19
47	mRNA_SEMA7A	mRNA	SEMA7A	YES	23

47	STV_PPP2R1A	STV	PPP2R1A	YES	49
48	mRNA_EPHA2	mRNA	EPHA2	YES	77
49	mRNA_ASPH	mRNA	ASPH	YES	45
51	CNV_POLR2H	CNV	POLR2H	YES	35

[0119] In some embodiments, pan-cancer enriched genes with no association with cancer or other genes in published literature are set forth in Table AAJ.

[0120] In some embodiments, the pan-cancer 22 cancer types (*e.g.*, cancers set forth in Table A) enriched genes with no association with cancer or other genes in published literature are set forth in Table AAJ. In some embodiments, pan-cancer enriched genes with no associated functional annotations are set forth in Table AAK.

Table AAJ: pan-cancer22 enriched genes (MEGENA) with no association with cancer or other genes in published literature

genes
ABHD14A.ACY1
AC004987.9
AP000692.10
CAP1P2
CTC.492K19.7
CTD-2314G24.2
CTD.2544N14.3
EIF4BP3
HMGN2P5
MIR500B
MIR708
MKLN1-AS

POT1-AS1
RAET1E-AS1
RNU6.510P
RP11-398K22.12
RP11-8L2.1
RP11.299J3.8
RP11.482M8.1
RP11.540D14.8
RPL5P34
RPL5P4
SNRPGP10
ATP6AP1L
C16orf87
C1orf43
CACHD1
CIB3
FAM131A
FAM195A
FAM47E
FLRT1
GRAMD2
GUCY1A2
HNRNPH3

HNRNPUL2-BSCL2
KBTBD8
LRRC37B
MEF2BNB-MEF2B
MYOZ3
NHLRC3
SNRNP27
TMEM81
ZNF275
ZNF764
ZNF776

Table AAK: pan-cancer22 enriched genes (MEGENA) with no associated functional annotations

genes
ABHD14A.ACY1
AC004987.9
AP000692.10
CAP1P2
CCSER1
CTC.492K19.7
CTD-2314G24.2
CTD.2544N14.3
EIF4BP3

HAS2-AS1
HMGN2P5
HOXD-AS2
MIR500B
MIR708
MKLN1-AS
POT1-AS1
RAET1E-AS1
RNU6.510P
RP11.299J3.8
RP11-398K22.12
RP11.482M8.1
RP11.540D14.8
RP11-8L2.1
RPL5P34
RPL5P4
SNRPGP10

[0121] In some embodiments, pan-cancer survival enriched genes with no association with cancer or other genes in published literature are set forth in Table AAL and Table AAN. In some embodiments, pan-cancer survival enriched genes with no associated functional annotations are set forth in Table AAM and AAO.

Table AAL: pan-cancer survival enriched genes (MEGENA) with no association with cancer or other genes in published literature

genes

C19orf35
CAMK2N2
GPR22
AC092667.2
AC098820.3
AP000439.3
C9orf173
CH17-360D5.2
FAM227B
HOXA10.HOXA9
IPO5P1
MIR629
MIR6503
MSL3P1
PAXIP1-AS1
RP11-1055B8.1
RP11-212I21.2
RP11-403A3.3
RP11-774O3.3
RP11.387A1.5
RP5-943J3.2
MIR374A
PHYHD1

SLC25A35
TMEM189
UBXN6
ZMYM6NB

Table AAM: pan-cancer survival enriched genes (MEGENA) with no associated functional annotations

genes
AC092667.2
AC098820.3
AP000439.3
C9orf173
CH17-360D5.2
CTD-2357A8.3
FAM227B
HOXA10.HOXA9
IPO5P1
LINC00941
MIR629
MIR6503
MSL3P1
NA
PAXIP1-AS1
PLEKHA8P1

RP11-1055B8.1
RP11-212I21.2
RP11.387A1.5
RP11-403A3.3
RP11-774O3.3
RP5-943J3.2
TERC

Table AAN: pan-cancer survival enriched genes (nGOseq) with no association with cancer or other genes in published literature

genes
KLHL10
OR2A4
TMPRSS15

Table AAO: pan-cancer survival enriched genes (nGOseq) with no associated functional annotations

genes
NA

[0122] The term "subject" refers in one embodiment to an animal or mammal in need of therapy for, or susceptible to, a condition or its sequelae. The subject can include dogs, cats, pigs, cows, sheep, goats, horses, rats, mice, monkeys, and humans.

[0123] As used herein, the term "therapeutic or drug target" or "drug target" includes diagnostic and prognostic genes, described herein which are useful in the diagnosis, prognosis, or treatment of cancer, *e.g.*, over- or under- activity, emergence, expression, growth, remission, recurrence or resistance of tumors before, during or after therapy. The levels of the therapeutic or drug targets

may be confirmed by, *e.g.*, (1) increased or decreased copy number (e.g., by FISH, FISH plus SKY, single-molecule sequencing, *e.g.*, as described in the art at least at *J. Biotechnol.*, 86:289-301, or qPCR), overexpression or underexpression (*e.g.*, by ISH, Northern Blot, or qPCR), increased or decreased protein level (*e.g.*, by IHC), or increased or decreased; (2) its presence or absence in a biological sample, *e.g.*, a sample containing tissue, whole blood, serum, plasma, buccal scrape, saliva, cerebrospinal fluid, urine, stool, or bone marrow, from a subject, *e.g.* a human, afflicted with cancer; (3) its presence or absence in clinical subset of subjects who have not been diagnosed with cancer or who have cancer, including subjects responding to a particular therapy or those developing resistance.

[0124] In some embodiments, the therapeutic or drug targets for BRCA as used herein are set forth in Appendices A and B (full listing) and Tables B (top 50 genes), C (top 52 genes), AP (28 genes), AQ (22 genes), AR (3 genes), AS (1 gene), or combinations thereof.

TABLE B: Top 50 genes from BRCA vs. Normal MEGENA (see full listing in Appendix A)

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	cnv_MT1H	cnv	MT1H	YES	9
1	cnv_ZPLD1	cnv	ZPLD1	YES	2
2	mrna_C6orf203	mrna	C6orf203	YES	1
2	stv_LINC00996	stv	LINC00996	NO	0
3	mrna_PSMD11	mrna	PSMD11	YES	43
3	mrna_ACLY	mrna	ACLY	YES	31
4	cnv_MTVR2	cnv	MTVR2	NO	0
4	mrna_FBXO3	mrna	FBXO3	YES	7
5	meth_AKAP12	meth	AKAP12	YES	16
5	mrna_SLC4A8	mrna	SLC4A8	YES	22
6	cnv_GLYAT	cnv	GLYAT	YES	13
6	mrna_MAMDC2	mrna	MAMDC2	YES	6
7	cnv_ABHD10	cnv	ABHD10	YES	8
7	mrna_PRIMA1	mrna	PRIMA1	YES	8
8	cnv_ZC3H12A	cnv	ZC3H12A	YES	92
8	meth_DUSP26	meth	DUSP26	YES	22
9	cnv_TOX3	cnv	TOX3	YES	13

9	stv_EXOC3L1	stv	EXOC3L1	YES	9
10	mrna_PPAT	mrna	PPAT	YES	26
10	mrna_SGOL1	mrna	SGOL1	YES	17
11	cnv_PLXND1	cnv	PLXND1	YES	27
11	cnv_TMEM184C	cnv	TMEM184C	YES	4
12	mrna_FAM35A	mrna	FAM35A	NO	0
12	mrna_CACHD1	mrna	CACHD1	YES	2
13	cnv_CXCL8	cnv	CXCL8	YES	38
13	cnv_SLC16A6	cnv	SLC16A6	YES	9
14	mrna_METTL17	mrna	METTL17	YES	8
14	mrna_RP5-1065J22.8	mrna	RP5-1065J22.8	NO	0
15	meth_CUL1	meth	CUL1	YES	36
15	mrna_MYOM2	mrna	MYOM2	YES	18
16	meth_FOXC1	meth	FOXC1	YES	77
16	mrna_CTCF	mrna	CTCF	YES	41
17	meth_HK1	meth	HK1	YES	31
18	meth_AATK	meth	AATK	YES	20
18	mrna_TOB1-AS1	mrna	TOB1-AS1	NO	0
19	cnv_HMGN1	cnv	HMGN1	YES	18
19	mrna_MAFG	mrna	MAFG	YES	19
20	mirna_MIR4738	mirna	MIR4738	NO	0
20	stv_KIF13A	stv	KIF13A	YES	35
21	mrna_PRR11	mrna	PRR11	YES	5
21	mrna_GSTT2B	mrna	GSTT2B	YES	9
22	meth_CCL18	meth	CCL18	YES	23
22	stv_BRD9	stv	BRD9	YES	8
23	meth_RASSF4	meth	RASSF4	YES	3
23	mrna_SPRED2	mrna	SPRED2	YES	17
24	mrna_EFR3B	mrna	EFR3B	YES	7
24	stv_TLR8	stv	TLR8	YES	38
25	mrna_ANKMY2	mrna	ANKMY2	YES	6
25	mrna_GFM1	mrna	GFM1	YES	12
26	cnv_SGSM1	cnv	SGSM1	YES	12
26	cnv_TMCO5B	cnv	TMCO5B	NO	0
27	mrna_TBC1D8	mrna	TBC1D8	YES	10
27	mrna_GS1-124K5.11	mrna	GS1-124K5.11	NO	0
28	cnv_CES5A	cnv	CES5A	YES	5
28	mrna_EZH2	mrna	EZH2	YES	69
29	cnv_PSMG1	cnv	PSMG1	YES	11
29	mrna_LRRIQ1	mrna	LRRIQ1	YES	1

30	mirna_MIR676	mirna	MIR676	NO	0
30	stv_NQO1	stv	NQO1	YES	28
31	meth_C19orf70	meth	C19orf70	YES	8
31	mrna_ABCG1	mrna	ABCG1	YES	56
32	mirna_MIR3940	mirna	MIR3940	NO	0
32	mrna_PTS	mrna	PTS	YES	14
33	cnv_LOC101929268	cnv	LOC101929268	NO	0
33	mrna_B4GALT1	mrna	B4GALT1	YES	59
34	mrna_MAP3K14-AS1	mrna	MAP3K14-AS1	NO	0
34	stv_AQP3	stv	AQP3	YES	25
35	mrna_SAMD11	mrna	SAMD11	YES	6
35	mrna_ZDHHC11B	mrna	ZDHHC11B	YES	5
36	meth_ACADS	meth	ACADS	YES	19
36	stv_RNF141	stv	RNF141	YES	6
37	meth_RPS24	meth	RPS24	YES	28
37	stv_ZNF3	stv	ZNF3	YES	14
38	cnv_EEF1E1	cnv	EEF1E1	YES	18
38	cnv_LRBA	cnv	LRBA	YES	11
39	cnv_CASC3	cnv	CASC3	YES	27
39	stv_DDX39B	stv	DDX39B	YES	45
40	meth_ADAMTS15	meth	ADAMTS15	YES	14
40	mrna_OSR1	mrna	OSR1	YES	63
41	mrna_OSCP1	mrna	OSCP1	YES	5
41	stv_PCDH7	stv	PCDH7	YES	9
42	cnv_LOC101928580	cnv	LOC101928580	NO	0
42	meth_PLIN2	meth	PLIN2	YES	13
43	mrna_SNF8	mrna	SNF8	YES	40
43	mrna_CFAP36	mrna	CFAP36	YES	3
44	cnv_ZC4H2	cnv	ZC4H2	YES	13
44	stv_FXR2	stv	FXR2	YES	15
45	mrna_PEX10	mrna	PEX10	YES	11
45	stv_AVPI1	stv	AVPI1	YES	3
46	cnv_SH3BGR	cnv	SH3BGR	YES	5
46	meth_CCKBR	meth	CCKBR	YES	27
47	cnv_LIPI	cnv	LIPI	YES	10
47	stv_SEPP1	stv	SEPP1	YES	10
48	meth_SP100	meth	SP100	YES	43
48	mrna_PP14571	mrna	PP14571	NO	0
49	mrna_TBRG4	mrna	TBRG4	YES	8
49	mrna_SLC25A32	mrna	SLC25A32	YES	14
50	meth_FBLN1	meth	FBLN1	YES	27

50	mrna_ZSCAN21	mrna	ZSCAN21	YES	13

Table C: Top 52 genes from BRCA vs. Normal nGOseq (see full listing in Appendix B)

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	mrna_PAPPA2	mrna	PAPPA2	YES	13
1	mrna_DRD2	mrna	DRD2	YES	128
2	cnv_BLZF1	cnv	BLZF1	YES	18
2	mrna_TMED2	mrna	TMED2	YES	42
3	meth_PHOX2A	meth	PHOX2A	YES	19
3	mrna_CHST3	mrna	CHST3	YES	12
4	meth_SYNGR2	meth	SYNGR2	YES	8
4	meth_TRIM38	meth	TRIM38	YES	16
5	cnv_PBXIP1	cnv	PBXIP1	YES	10
5	meth_ITK	meth	ITK	YES	33
6	meth_MAP2K2	meth	MAP2K2	YES	60
6	mrna_CORO2B	mrna	CORO2B	YES	8
7	cnv_LAMTOR2	cnv	LAMTOR2	YES	25
7	meth_TNFRSF10D	meth	TNFRSF10D	YES	20
8	meth_CTNNAL1	meth	CTNNAL1	YES	11
8	meth_SLC5A7	meth	SLC5A7	YES	27
9	meth_AGAP2	meth	AGAP2	YES	27
9	mrna_BCL9	mrna	BCL9	YES	15
10	cnv_RGS1	cnv	RGS1	YES	16
10	mrna_E2F8	mrna	E2F8	YES	29
11	cnv_MARC2	cnv	MARC2	YES	17
11	mrna_SIRPA	mrna	SIRPA	YES	10
12	mrna_ESM1	mrna	ESM1	YES	9
13	cnv_PDC	cnv	PDC	YES	15
13	meth_DDR2	meth	DDR2	YES	41
14	cnv_ATF6	cnv	ATF6	YES	41
14	meth_GPR142	meth	GPR142	YES	9
15	meth_ACKR1	meth	ACKR1	YES	18
15	meth_GIPR	meth	GIPR	YES	25
16	meth_GUCY2D	meth	GUCY2D	YES	23
16	meth_TGFBI	meth	TGFBI	YES	21
17	meth_NMBR	meth	NMBR	YES	13
17	mrna_LYVE1	mrna	LYVE1	YES	19
18	meth_OR7C2	meth	OR7C2	YES	11
18	stv_KIFC3	stv	KIFC3	YES	28
19	cnv_HLX	cnv	HLX	YES	19

19	cnv_OR10J1	cnv	OR10J1	YES	16
20	meth_CD1C	meth	CD1C	YES	18
21	meth_HYAL2	meth	HYAL2	YES	67
21	meth_RECK	meth	RECK	YES	17
22	meth_CEMIP	meth	CEMIP	YES	25
22	mrna_LRRC59	mrna	LRRC59	YES	11
23	mrna_RAD51	mrna	RAD51	YES	72
23	mrna_TIMELESS	mrna	TIMELESS	YES	28
24	mrna_SFXN1	mrna	SFXN1	YES	13
24	mrna_H2AFX	mrna	H2AFX	YES	32
25	meth_GDA	meth	GDA	YES	13
25	meth_SPRR2A	meth	SPRR2A	YES	10
26	cnv_CD247	cnv	CD247	YES	20
26	meth_ZIC1	meth	ZIC1	YES	26
27	cnv_RAB3GAP2	cnv	RAB3GAP2	YES	21
27	mrna_PDE2A	mrna	PDE2A	YES	49
28	cnv_STX6	cnv	STX6	YES	33
29	cnv_CRTC2	cnv	CRTC2	YES	17
29	meth_FXYD1	meth	FXYD1	YES	27
30	meth_NDUFAF6	meth	NDUFAF6	YES	8
30	mirna_MIR100	mirna	MIR100	YES	2
31	cnv_ARL8A	cnv	ARL8A	YES	24
31	mrna_FOXM1	mrna	FOXM1	YES	38
32	cnv_CREB3L4	cnv	CREB3L4	YES	22
32	cnv_TGFB2	cnv	TGFB2	YES	119
33	meth_KCNIP1	meth	KCNIP1	YES	21
33	mrna_AURKB	mrna	AURKB	YES	61
34	mrna_CXCL2	mrna	CXCL2	YES	17
34	mrna_KIF15	mrna	KIF15	YES	21
35	meth_C6	meth	C6	YES	15
35	mrna_DEPDC1B	mrna	DEPDC1B	YES	8
36	mirna_MIR96	mirna	MIR96	YES	2
36	mrna_SYT13	mrna	SYT13	YES	15
37	mrna_ACADL	mrna	ACADL	YES	26
37	mrna_KLB	mrna	KLB	YES	24
38	cnv_GCSAML	cnv	GCSAML	YES	2
38	cnv_HNRNPU	cnv	HNRNPU	YES	37
39	mrna_CAV1	mrna	CAV1	YES	141
39	mrna_B4GALT3	mrna	B4GALT3	YES	17
40	cnv_ASH1L	cnv	ASH1L	YES	40
40	meth_GPLD1	meth	GPLD1	YES	43

41	cnv_SPRR2G	cnv	SPRR2G	YES	7
41	mrna_LMOD1	mrna	LMOD1	YES	15
42	meth_PNOC	meth	PNOC	YES	13
42	mrna_NSF	mrna	NSF	YES	39
43	meth_FMO2	meth	FMO2	YES	19
43	mrna_GPIHBP1	mrna	GPIHBP1	YES	35
44	cnv_LPGAT1	cnv	LPGAT1	YES	16
44	meth_HAMP	meth	HAMP	YES	30
45	cnv_QSOX1	cnv	QSOX1	YES	26
45	mrna_COPA	mrna	COPA	YES	24
46	cnv_SMG7	cnv	SMG7	YES	17
46	mrna_PRCD	mrna	PRCD	YES	7
47	meth_MAML1	meth	MAML1	YES	21
47	mrna_SYNGR3	mrna	SYNGR3	YES	12
48	cnv_WNT3A	cnv	WNT3A	YES	101
48	mrna_DIAPH3	mrna	DIAPH3	YES	9
49	meth_MRGPRF	meth	MRGPRF	YES	10
50	meth_CTNNA2	meth	CTNNA2	YES	32
50	mrna_MAMDC2	mrna	MAMDC2	YES	6
51	cnv_ZBTB18	cnv	ZBTB18	YES	18
51	meth_STXBP6	meth	STXBP6	YES	15
52	cnv_DENND1B	cnv	DENND1B	YES	16
52	meth_SLC7A2	meth	SLC7A2	YES	32

[0125] In some embodiments, the therapeutic or drug targets for ER positive and ER generated according to the methods, systems, algorithms, programs, and codes described above are set forth in Appendices C and D (full listings) and Tables D (top 52 genes), E (top 52 genes), AX (32 genes), AY (17 genes), AZ (1 gene), AAA (2 genes), or combinations thereof.

Table D: Top 52 genes from ER+ vs. ER- MEGENA (see full listing in Appendix C)

Rank	Full_Name	Data_ Type	HUGO_ GENE	GO_ Annotated	Number_Of_ GO_Annotations
1	mrna_ANXA3	mrna	ANXA3	YES	27
1	mrna_WDR43	mrna	WDR43	YES	12
2	meth_CHAC1	meth	CHAC1	YES	19
2	mrna_RP11-1081L13.4	mrna	RP11-1081L13.4	NO	0
3	meth_DCAF12	meth	DCAF12	YES	6
3	meth_NOSIP	meth	NOSIP	YES	14

4	cnv_RPRML	cnv	RPRML	YES	2
4	mrna_PLEKHG1	mrna	PLEKHG1	YES	6
5	mrna_IL12RB1	mrna	IL12RB1	YES	26
5	mrna_ILF3-AS1	mrna	ILF3-AS1	NO	0
6	meth_SNORD116-1	meth	SNORD116-1	NO	0
6	mrna_CPNE8	mrna	CPNE8	YES	3
7	mrna_CX3CL1	mrna	CX3CL1	YES	42
7	mrna_STX7	mrna	STX7	YES	33
8	meth_C6orf48	meth	C6orf48	NO	0
8	mrna_IGHV3-21	mrna	IGHV3-21	YES	17
9	meth_DPM1	meth	DPM1	YES	21
9	meth_RCVRN	meth	RCVRN	YES	10
10	meth_CPA3	meth	CPA3	YES	15
10	mrna_ESYT3	mrna	ESYT3	YES	15
11	mrna_SLC37A3	mrna	SLC37A3	YES	10
11	stv_HMX3	stv	HMX3	YES	15
12	mrna_AFAP1	mrna	AFAP1	YES	8
12	mrna_RPS7P1	mrna	RPS7P1	NO	0
13	cnv_WNT9B	cnv	WNT9B	YES	43
13	mrna_IGKV1-16	mrna	IGKV1-16	YES	16
14	meth_ZMYND10	meth	ZMYND10	YES	9
14	mrna_TIA1	mrna	TIA1	YES	19
15	meth_C1QTNF7	meth	C1QTNF7	YES	4
15	meth_PLA2G4E-AS1	meth	PLA2G4E-AS1	NO	0
16	meth_CSN1S1	meth	CSN1S1	YES	4
16	mrna_LYN	mrna	LYN	YES	134
17	cnv_DLG3	cnv	DLG3	YES	37
17	stv_ANGPTL1	stv	ANGPTL1	YES	5
18	cnv_CLECL1	cnv	CLECL1	YES	4
18	stv_CTSD	stv	CTSD	YES	23
19	meth_AL021807.1	meth	AL021807.1	NO	0
19	mrna_BIRC2	mrna	BIRC2	YES	64
20	meth_CYP2D6	meth	CYP2D6	YES	34
20	mrna_AGBL5	mrna	AGBL5	YES	19
21	mrna_ARID5B	mrna	ARID5B	YES	34
21	stv_STAM2	stv	STAM2	YES	18
22	mrna_FNDC3B	mrna	FNDC3B	YES	4
22	mrna_C9orf43	mrna	C9orf43	YES	1
23	meth_CUL9	meth	CUL9	YES	13

23	meth_FGF22	meth	FGF22	YES	22
24	meth_IQCK	meth	IQCK	NO	0
24	mrna_PDE10A	mrna	PDE10A	YES	24
25	mrna_AP000344.4	mrna	AP000344.4	NO	0
25	mrna_IQCJ-SCHIP1	mrna	IQCJ-SCHIP1	YES	4
26	mrna_OPN1SW	mrna	OPN1SW	YES	18
26	mrna_EXTL2	mrna	EXTL2	YES	18
27	mrna_FERMT1	mrna	FERMT1	YES	25
27	mrna_CTNNB1	mrna	CTNNB1	YES	260
28	meth_DHRS4-AS1	meth	DHRS4-AS1	NO	0
28	meth_MGP	meth	MGP	YES	14
29	meth_SSRP1	meth	SSRP1	YES	16
29	mrna_ZNF454	mrna	ZNF454	YES	8
30	meth_SGCG	meth	SGCG	YES	15
30	mrna_MLX	mrna	MLX	YES	19
31	mrna_SLC16A1	mrna	SLC16A1	YES	30
32	meth_TMCO5A	meth	TMCO5A	YES	2
33	meth_HLA-DQB1	meth	HLA-DQB1	YES	31
33	mrna_ID4	mrna	ID4	YES	33
34	meth_C22orf39	meth	C22orf39	YES	1
34	mrna_AMOTL1	mrna	AMOTL1	YES	14
35	meth_MAN2B1	meth	MAN2B1	YES	19
35	mrna_UGT2B7	mrna	UGT2B7	YES	16
36	meth_AC002451.3	meth	AC002451.3	NO	0
36	mrna_PLEKHG4B	mrna	PLEKHG4B	YES	4
37	meth_AC126407.1	meth	AC126407.1	NO	0
37	meth_WFDC10B	meth	WFDC10B	YES	3
38	mrna_SH3BP5	mrna	SH3BP5	YES	10
39	mrna_CD40	mrna	CD40	YES	63
39	mrna_AC072062.1	mrna	AC072062.1	NO	0
40	meth_C8orf4	meth	C8orf4	YES	21
40	mrna_STK32A	mrna	STK32A	YES	14
41	meth_ARTN	meth	ARTN	YES	15
41	meth_GLYAT	meth	GLYAT	YES	13
42	mrna_SLC25A5	mrna	SLC25A5	YES	29
42	mrna_AKAP2	mrna	AKAP2	YES	3
43	cnv_SLC25A39	cnv	SLC25A39	YES	9

43	meth_AC087651.1	meth	AC087651.1	NO	0
44	meth_TDRD3	meth	TDRD3	YES	10
45	mrna_MRAP2	mrna	MRAP2	YES	17
45	mrna_NCK1-AS1	mrna	NCK1-AS1	NO	0
46	meth_FAM206A	meth	FAM206A	YES	4
46	meth_RNF186	meth	RNF186	YES	3
47	mirna_MIR455	mirna	MIR455	NO	0
47	mrna_TIGD5	mrna	TIGD5	YES	6
48	cnv_DEFB110	cnv	DEFB110	YES	5
48	mrna_WNK3	mrna	WNK3	YES	29
49	cnv_AMD1	cnv	AMD1	YES	11
49	meth_CSRP2BP	meth	CSRP2BP	YES	12
50	meth_PRKCE	meth	PRKCE	YES	71
50	mrna_MFHAS1	mrna	MFHAS1	YES	5
51	meth_C2orf57	meth	C2orf57	NO	0
51	mrna_TNFRSF11B	mrna	TNFRSF11B	YES	27
52	meth_GTSF1L	meth	GTSF1L	YES	2
52	mrna_MUC13	mrna	MUC13	YES	13

Table E: Top 52 genes from ER+ vs. ER- nGOseq (see full listing in Appendix D)

Rank	Full_Name	Data_ Type	HUGO_ GENE	GO_ Annotated	Number_Of_ GO_Annotations
1	meth_MYO1A	meth	MYO1A	YES	21
1	meth_PCSK4	meth	PCSK4	YES	17
2	mrna_MMP9	mrna	MMP9	YES	45
2	mrna_LIMK1	mrna	LIMK1	YES	30
3	mrna_DNAJC2	mrna	DNAJC2	YES	21
3	mrna_GCNT2	mrna	GCNT2	YES	22
4	meth_ADIPOQ	meth	ADIPOQ	YES	92
4	stv_ACVR2A	stv	ACVR2A	YES	53
5	mrna_TFDP1	mrna	TFDP1	YES	31
5	stv_RNF207	stv	RNF207	YES	16
6	mrna_GARS	mrna	GARS	YES	22
6	mrna_MAL	mrna	MAL	YES	19
7	cnv_DEPDC1B	cnv	DEPDC1B	YES	8
7	mrna_ENPP3	mrna	ENPP3	YES	22
8	mrna_NMU	mrna	NMU	YES	20
8	stv_TRERF1	stv	TRERF1	YES	24
9	meth_COL11A1	meth	COL11A1	YES	29

9	meth_DCDC2	meth	DCDC2	YES	20
10	meth_IL1RN	meth	IL1RN	YES	37
10	mrna_DACH1	mrna	DACH1	YES	26
11	stv_GRK7	stv	GRK7	YES	17
11	stv_PREX1	stv	PREX1	YES	33
12	mrna_MYO10	mrna	MYO10	YES	34
12	mrna_SHC4	mrna	SHC4	YES	15
13	meth_ALDH1A3	meth	ALDH1A3	YES	32
13	stv_PLCG2	stv	PLCG2	YES	36
14	stv_ANO6	stv	ANO6	YES	52
14	stv_CRY1	stv	CRY1	YES	43
15	mrna_FTCD	mrna	FTCD	YES	28
15	mrna_SOX11	mrna	SOX11	YES	66
16	mrna_DNMT3A	mrna	DNMT3A	YES	48
16	stv_PTPRJ	stv	PTPRJ	YES	44
17	mirna_MIR182	mirna	MIR182	YES	1
17	mrna_MSL3	mrna	MSL3	YES	15
18	meth_CDX2	meth	CDX2	YES	36
18	mrna_RHCG	mrna	RHCG	YES	20
19	mrna_AKR1E2	mrna	AKR1E2	YES	8
19	stv_PTTG2	stv	PTTG2	YES	10
20	meth_SOSTDC1	meth	SOSTDC1	YES	16
20	meth_STOM	meth	STOM	YES	31
21	meth_DDAH2	meth	DDAH2	YES	18
21	stv_FRAS1	stv	FRAS1	YES	14
22	meth_SEPP1	meth	SEPP1	YES	10
22	mrna_VAV3	mrna	VAV3	YES	40
23	meth_KAT6B	meth	KAT6B	YES	24
23	mrna_ETV6	mrna	ETV6	YES	25
24	cnv_PLB1	cnv	PLB1	YES	16
24	stv_MAPK14	stv	MAPK14	YES	92
25	meth_PRTN3	meth	PRTN3	YES	20
25	stv_NR1H3	stv	NR1H3	YES	58
26	meth_ALK	meth	ALK	YES	37
26	mrna_PLOD1	mrna	PLOD1	YES	19
27	cnv_RGMB	cnv	RGMB	YES	12
27	mirna_MIR29C	mirna	MIR29C	YES	17
28	meth_KLHL10	meth	KLHL10	YES	12
28	mrna_NFE2L3	mrna	NFE2L3	YES	15
29	stv_TIMM8A	stv	TIMM8A	YES	10
30	mrna_UGT8	mrna	UGT8	YES	21

30	mrna_ABAT	mrna	ABAT	YES	42
31	mrna_BCL11A	mrna	BCL11A	YES	23
31	stv_JAK2	stv	JAK2	YES	123
32	cnv_CDK7	cnv	CDK7	YES	47
32	meth_MEST	meth	MEST	YES	8
33	mrna_RSU1	mrna	RSU1	YES	7
33	stv_LSR	stv	LSR	YES	13
34	cnv_PDGFRB	cnv	PDGFRB	YES	108
34	stv_PLAU	stv	PLAU	YES	30
35	meth_NCKAP1L	meth	NCKAP1L	YES	49
35	mrna_MRPS5	mrna	MRPS5	YES	10
36	meth_RNF103	meth	RNF103	YES	14
36	mrna_UNC13D	mrna	UNC13D	YES	25
37	meth_LUC7L	meth	LUC7L	YES	9
37	mrna_DKC1	mrna	DKC1	YES	38
38	mrna_TMEM25	mrna	TMEM25	YES	5
38	stv_RIMS1	stv	RIMS1	YES	37
39	meth_CAV1	meth	CAV1	YES	141
39	stv_MMP15	stv	MMP15	YES	21
40	meth_RNH1	meth	RNH1	YES	10
41	mirna_LET7B	mirna	LET7B	NO	0
41	stv_PGF	stv	PGF	YES	29
42	cnv_RAB3C	cnv	RAB3C	YES	17
42	stv_SUPV3L1	stv	SUPV3L1	YES	31
43	stv_GRM8	stv	GRM8	YES	16
43	stv_TNFAIP3	stv	TNFAIP3	YES	78
44	stv_LIN9	stv	LIN9	YES	8
45	meth_NEK6	meth	NEK6	YES	44
45	stv_ALOX15	stv	ALOX15	YES	43
46	mrna_SRPK1	mrna	SRPK1	YES	31
46	mrna_RDH10	mrna	RDH10	YES	30
47	stv_CA2	stv	CA2	YES	39
47	stv_SDHAF2	stv	SDHAF2	YES	12
48	cnv_COMMD1	cnv	COMMD1	YES	37
48	mrna_GLIPR2	mrna	GLIPR2	YES	9
49	cnv_H2AFY	cnv	H2AFY	YES	49
49	mrna_CDC42EP1	mrna	CDC42EP1	YES	17
50	mrna_ADORA2B	mrna	ADORA2B	YES	28
51	meth_NR1I2	meth	NR1I2	YES	32
52	meth_FSCN1	meth	FSCN1	YES	43
52	meth_GPR55	meth	GPR55	YES	16

[0126] In some embodiments, the therapeutic or drug targets for KIRP and KIRC generated according to the methods, systems, algorithms, programs, and codes described above are set forth in Appendices E and F (full listings) and Tables F (top 57 genes), G (top 53 genes), Table AP (28 genes), AQ (22 genes), AR (3 genes), AS (1 gene), or combinations thereof.

Table F: Top 57 genes from KIRP vs. KIRC MEGENA (see full listing in Appendix E)

Rank	Full_Name	Data_ Type	HUGO_ GENE	GO_ Annotated	Number_Of_ GO_Annotations
1	meth_CTD-2371O3.3	meth	CTD-2371O3.3	NO	0
1	mrna_RP11-59C5.3	mrna	RP11-59C5.3	NO	0
2	meth_CDCA4	meth	CDCA4	YES	6
3	meth_ACAT1	meth	ACAT1	YES	35
3	meth_HK1	meth	HK1	YES	31
4	meth_EI24	meth	EI24	YES	13
5	meth_FAM84B	meth	FAM84B	YES	3
5	meth_PDC	meth	PDC	YES	15
6	meth_GPATCH3	meth	GPATCH3	YES	2
6	meth_RP11-517H2.6	meth	RP11-517H2.6	NO	0
7	meth_CCDC141	meth	CCDC141	YES	2
7	meth_CCT8	meth	CCT8	YES	37
8	meth_METAP1	meth	METAP1	YES	13
8	mrna_SLC6A3	mrna	SLC6A3	YES	52
9	meth_CCR1	meth	CCR1	YES	38
9	meth_SNF8	meth	SNF8	YES	40
10	meth_CLCC1	meth	CLCC1	YES	12
10	meth_NUP93	meth	NUP93	YES	31
11	meth_DENND1B	meth	DENND1B	YES	16
11	mrna_CDON	mrna	CDON	YES	29
12	meth_SETD1A	meth	SETD1A	YES	32
12	meth_USF1	meth	USF1	YES	37
13	meth_CCDC79	meth	CCDC79	YES	3
14	mrna_SLC5A12	mrna	SLC5A12	YES	15
15	meth_ALDH18A1	meth	ALDH18A1	YES	26
15	meth_RP11-38C17.1	meth	RP11-38C17.1	NO	0
16	meth_NME8	meth	NME8	YES	17
17	meth_RACGAP1	meth	RACGAP1	YES	50
17	meth_TMEM81	meth	TMEM81	YES	2

18	meth_RP11-299J3.8	meth	RP11-299J3.8	NO	0
19	meth_BHLHA15	meth	BHLHA15	YES	21
19	mirna_MIR124	mirna	MIR124	NO	0
20	meth_DNMBP	meth	DNMBP	YES	13
20	mirna_MIR4473	mirna	MIR4473	NO	0
21	mrna_HCG4P7	mrna	HCG4P7	NO	0
21	mrna_ENPP7P8	mrna	ENPP7P8	NO	0
22	meth_FOXJ3	meth	FOXJ3	YES	12
22	meth_OPN1SW	meth	OPN1SW	YES	18
23	meth_SNORD38	meth	SNORD38	NO	0
24	meth_ACTL7A	meth	ACTL7A	YES	10
24	mrna_RP11-302L19.3	mrna	RP11-302L19.3	NO	0
25	meth_CMTM8	meth	CMTM8	YES	13
25	meth_SLC19A1	meth	SLC19A1	YES	15
26	meth_HAUS3	meth	HAUS3	YES	20
26	meth_LCK	meth	LCK	YES	65
27	mrna_CEBPB-AS1	mrna	CEBPB-AS1	NO	0
28	cnv_RNA5SP349	cnv	RNA5SP349	NO	0
28	meth_SYCP3	meth	SYCP3	YES	11
29	meth_OXT	meth	OXT	YES	57
29	mrna_GABRB3	mrna	GABRB3	YES	34
30	meth_PDHA2	meth	PDHA2	YES	17
30	meth_TIGD3	meth	TIGD3	YES	3
31	mrna_RP11-236L14.2	mrna	RP11-236L14.2	NO	0
32	meth_POMP	meth	POMP	YES	10
32	mrna_FBXO17	mrna	FBXO17	YES	6
33	meth_IFNA4	meth	IFNA4	YES	22
33	mrna_HNRNPD	mrna	HNRNPD	YES	51
34	mrna_NFIC	mrna	NFIC	YES	17
35	meth_RP11-888D10.3	meth	RP11-888D10.3	NO	0
35	mrna_TNFRSF10D	mrna	TNFRSF10D	YES	20
36	mrna_SCTR	mrna	SCTR	YES	14
36	mrna_MAPK11	mrna	MAPK11	YES	41
37	meth_AF127936.9	meth	AF127936.9	NO	0
37	mrna_UPB1	mrna	UPB1	YES	12
38	mrna_POLN	mrna	POLN	YES	17
38	stv_SUCO	stv	SUCO	YES	10
39	meth_PCMTD1	meth	PCMTD1	YES	6
39	stv_WNT10A	stv	WNT10A	YES	20
40	meth_EIF4G1	meth	EIF4G1	YES	47
40	mrna_ZNF395	mrna	ZNF395	YES	11

41	meth_FAM126A	meth	FAM126A	YES	11
41	mrna_RP11-348J24.2	mrna	RP11-348J24.2	NO	0
42	mrna_RP11-394O4.5	mrna	RP11-394O4.5	NO	0
43	cnv_C2orf70	cnv	C2orf70	YES	1
43	mrna_SLC16A12	mrna	SLC16A12	YES	4
44	meth_QTRT1	meth	QTRT1	YES	16
44	meth_TGM3	meth	TGM3	YES	18
45	meth_GALNT3	meth	GALNT3	YES	20
45	meth_SLC7A6	meth	SLC7A6	YES	17
46	meth_ETS1	meth	ETS1	YES	49
46	meth_HIVEP1	meth	HIVEP1	YES	19
47	meth_ATP2C1	meth	ATP2C1	YES	27
47	mrna_MLEC	mrna	MLEC	YES	11
48	meth_FAM217B	meth	FAM217B	YES	2
48	meth_TNFSF13B	meth	TNFSF13B	YES	25
49	mrna_SLC6A19	mrna	SLC6A19	YES	17
49	stv_COPS2	stv	COPS2	YES	21
50	meth_SLC39A3	meth	SLC39A3	YES	16
51	mrna_MUC4	mrna	MUC4	YES	17
52	mrna_EFNA1	mrna	EFNA1	YES	40
53	meth_MTPN	meth	MTPN	YES	23
54	meth_LINC00311	meth	LINC00311	NO	0
54	mrna_SDAD1P1	mrna	SDAD1P1	NO	0
55	cnv_U3|ENSG00000251800.1	cnv	U3|ENSG00000251800.1	NO	0
55	mrna_CTD-2034I21.1	mrna	CTD-2034I21.1	NO	0
56	meth_MPG	meth	MPG	YES	23
56	mrna_SEPT5	mrna	SEPT5	YES	19
57	meth_MZT2A	meth	MZT2A	YES	8
57	meth_RAB1A	meth	RAB1A	YES	40

Table G: Top 53 genes from KIRP vs. KIRC nGOseq (see full listing in Appendix F)

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	meth_BBX	meth	BBX	YES	7
1	meth_CCNT2	meth	CCNT2	YES	30
2	meth_CCNE2	meth	CCNE2	YES	19
2	meth_NEDD9	meth	NEDD9	YES	23
3	meth_ACAD9	meth	ACAD9	YES	12
3	meth_TEP1	meth	TEP1	YES	20
4	mirna_MIR10B	mirna	MIR10B	YES	2
4	mirna_MIR21	mirna	MIR21	YES	84

5	meth_CNGA4	meth	CNGA4	YES	18
5	meth_FOXJ3	meth	FOXJ3	YES	12
6	mrna_NFATC2	mrna	NFATC2	YES	38
6	stv_NRXN3	stv	NRXN3	YES	27
7	meth_UBE2Q1	meth	UBE2Q1	YES	17
7	mrna_STEAP4	mrna	STEAP4	YES	19
8	meth_PPP2R5B	meth	PPP2R5B	YES	21
8	mrna_HRC	mrna	HRC	YES	27
9	meth_B9D2	meth	B9D2	YES	17
9	mrna_GMDS	mrna	GMDS	YES	12
10	cnv_TADA3	cnv	TADA3	YES	30
10	meth_ANXA2	meth	ANXA2	YES	77
11	meth_LMNB1	meth	LMNB1	YES	13
11	meth_TOR3A	meth	TOR3A	YES	7
12	meth_ING2	meth	ING2	YES	35
12	meth_SCAP	meth	SCAP	YES	26
13	meth_PCBP2	meth	PCBP2	YES	25
13	meth_PPIF	meth	PPIF	YES	33
14	meth_NOP56	meth	NOP56	YES	19
14	meth_TBCA	meth	TBCA	YES	13
15	cnv_IL17RD	cnv	IL17RD	YES	12
15	meth_FAM134C	meth	FAM134C	YES	1
16	cnv_MBTD1	cnv	MBTD1	YES	8
16	meth_SVIL	meth	SVIL	YES	22
17	meth_ANKRA2	meth	ANKRA2	YES	16
17	mrna_CD34	mrna	CD34	YES	57
18	meth_ABCC2	meth	ABCC2	YES	46
19	stv_ARFGEF3	stv	ARFGEF3	YES	11
19	stv_TESK1	stv	TESK1	YES	18
20	meth_AGFG1	meth	AGFG1	YES	23
21	meth_MRPS10	meth	MRPS10	YES	9
21	meth_PFKFB4	meth	PFKFB4	YES	16
22	meth_CFL2	meth	CFL2	YES	20
22	meth_RIC8B	meth	RIC8B	YES	10
23	meth_MYOG	meth	MYOG	YES	60
23	meth_PRKCA	meth	PRKCA	YES	84
24	meth_MANBA	meth	MANBA	YES	15
25	meth_JUN	meth	JUN	YES	102
25	stv_KLHL21	stv	KLHL21	YES	13
26	meth_MAP3K7	meth	MAP3K7	YES	56
26	stv_FNBP1L	stv	FNBP1L	YES	23

27	meth_MKRN2	meth	MKRN2	YES	8
27	stv_MMP16	stv	MMP16	YES	29
28	mrna_HILPDA	mrna	HILPDA	YES	17
28	stv_FAM83G	stv	FAM83G	YES	5
29	meth_CREM	meth	CREM	YES	23
29	meth_RAC1	meth	RAC1	YES	87
30	meth_GNB3	meth	GNB3	YES	16
30	meth_IRX3	meth	IRX3	YES	14
31	mrna_ENG	mrna	ENG	YES	64
31	mrna_KCNAB1	mrna	KCNAB1	YES	40
32	meth_PAK4	meth	PAK4	YES	34
32	mrna_PYGM	mrna	PYGM	YES	16
33	cnv_APOH	cnv	APOH	YES	31
33	mrna_GBP1	mrna	GBP1	YES	31
34	meth_DOK2	meth	DOK2	YES	11
34	meth_KPNB1	meth	KPNB1	YES	46
35	meth_SUCLG1	meth	SUCLG1	YES	21
36	meth_TRIM63	meth	TRIM63	YES	22
36	mrna_GABPA	mrna	GABPA	YES	27
37	cnv_GNL3	cnv	GNL3	YES	21
37	meth_LIN54	meth	LIN54	YES	8
38	meth_NME8	meth	NME8	YES	17
38	mrna_SEPT4	mrna	SEPT4	YES	32
39	mirna_MIR211	mirna	MIR211	NO	0
40	mrna_SARAF	mrna	SARAF	YES	10
41	mrna_ST8SIA4	mrna	ST8SIA4	YES	16
41	mrna_IFIT3	mrna	IFIT3	YES	14
42	meth_IL25	meth	IL25	YES	14
42	mrna_RLF	mrna	RLF	YES	14
43	meth_NDUFAB1	meth	NDUFAB1	YES	25
43	mrna_TSGA10	mrna	TSGA10	YES	11
44	cnv_XYLB	cnv	XYLB	YES	17
44	stv_MET	stv	MET	YES	50
45	meth_NEO1	meth	NEO1	YES	15
45	meth_TRIM24	meth	TRIM24	YES	42
46	meth_ATM	meth	ATM	YES	98
47	meth_ANXA4	meth	ANXA4	YES	24
47	meth_GLOD4	meth	GLOD4	YES	3
48	cnv_KCNH8	cnv	KCNH8	YES	19
48	stv_PVR	stv	PVR	YES	32
49	cnv_CIDEC	cnv	CIDEC	YES	14

49	meth_ZDHHC8	meth	ZDHHC8	YES	16
50	meth_DAND5	meth	DAND5	YES	16
50	meth_PADI4	meth	PADI4	YES	27
51	meth_CDK5	meth	CDK5	YES	121
51	mirna_MIR185	mirna	MIR185	YES	1
52	cnv_UBE2Z	cnv	UBE2Z	YES	15
52	mrna_NRARP	mrna	NRARP	YES	13
53	mrna_SLC1A4	mrna	SLC1A4	YES	37
53	mrna_MIEF2	mrna	MIEF2	YES	9

[0127] In some embodiments, the therapeutic or drug targets for LUAD and LUSC generated according to the methods, systems, algorithms, programs, and codes described above are set forth in Appendices G and H (full listings) and Tables H (top 50 genes), I (top 50 genes), AAB (25 genes), AAC (14 genes), AAD (3 genes), AAE, or combinations thereof.

Table H: Top 50 genes from LUAD vs. LUSC MEGENA (see full listing in Appendix G)

Rank	Full_Name	Data_Type	HUGO_ GENE	GO_ Annotated	Number_ Of_GO_Annotations
1	meth_NPTX1	meth	NPTX1	YES	14
1	mirna_MIR1292	mirna	MIR1292	NO	0
2	meth_CTB-129P6.4	meth	CTB-129P6.4	NO	0
2	meth_IGFBP4	meth	IGFBP4	YES	23
3	meth_CNOT3	meth	CNOT3	YES	18
3	meth_KIAA0232	meth	KIAA0232	YES	2
4	meth_SETDB1	meth	SETDB1	YES	24
4	meth_ZBTB26	meth	ZBTB26	YES	11
5	meth_FAIM2	meth	FAIM2	YES	20
5	meth_MIR6850	meth	MIR6850	NO	0
6	meth_BOD1	meth	BOD1	YES	9
6	meth_TCERG1	meth	TCERG1	YES	12
7	meth_SLC25A4	meth	SLC25A4	YES	23
7	meth_TRMT61B	meth	TRMT61B	YES	14
8	meth_AKIRIN1	meth	AKIRIN1	YES	4
8	meth_PPOX	meth	PPOX	YES	16
9	meth_DYNLL1	meth	DYNLL1	YES	52
9	meth_TIMELESS	meth	TIMELESS	YES	28
10	meth_ANG	meth	ANG	YES	49
10	meth_FGF9	meth	FGF9	YES	53

11	meth_IRF2BP2	meth	IRF2BP2	YES	6
11	meth_JUN	meth	JUN	YES	102
12	meth_AC006946.15	meth	AC006946.15	NO	0
12	meth_ASRGL1	meth	ASRGL1	YES	10
13	meth_UTP18	meth	UTP18	YES	11
13	meth_VAMP3	meth	VAMP3	YES	44
14	meth_CABIN1	meth	CABIN1	YES	10
14	meth_KCNC1	meth	KCNC1	YES	41
15	meth_ZFP69B	meth	ZFP69B	YES	9
15	mrna_CLEC17A	mrna	CLEC17A	YES	7
16	meth_SLC44A1	meth	SLC44A1	YES	13
16	meth_VAMP1	meth	VAMP1	YES	24
17	meth_ETFA	meth	ETFA	YES	10
17	mrna_ZNF695	mrna	ZNF695	YES	6
18	meth_CPNE7	meth	CPNE7	YES	11
18	meth_TMED9	meth	TMED9	YES	20
19	meth_AC140481.8	meth	AC140481.8	NO	0
19	meth_CAV1	meth	CAV1	YES	141
20	meth_ABALON	meth	ABALON	NO	0
20	meth_CACNG2	meth	CACNG2	YES	32
21	meth_C21orf59	meth	C21orf59	YES	4
21	meth_MAGEF1	meth	MAGEF1	YES	2
22	meth_IDE	meth	IDE	YES	52
22	mrna_RABAC1	mrna	RABAC1	YES	13
23	meth_AC015849.12	meth	AC015849.12	NO	0
23	meth_SPG11	meth	SPG11	YES	20
24	meth_TROVE2	meth	TROVE2	YES	14
24	mrna_MECR	mrna	MECR	YES	11
25	meth_PPIL2	meth	PPIL2	YES	18
25	meth_RTF1	meth	RTF1	YES	25
26	meth_PDCD5	meth	PDCD5	YES	18
26	meth_SERTAD3	meth	SERTAD3	YES	7
27	meth_ARRDC2	meth	ARRDC2	YES	3
27	meth_ZNF414	meth	ZNF414	YES	7
28	meth_CLK2	meth	CLK2	YES	23
28	meth_EIF4A1	meth	EIF4A1	YES	25
29	meth_ITGB4	meth	ITGB4	YES	31
29	meth_RNF39	meth	RNF39	YES	6
30	meth_AC002310.14	meth	AC002310.14	NO	0
30	meth_EIF2AK2	meth	EIF2AK2	YES	53
31	meth_PPM1E	meth	PPM1E	YES	17

31	meth_USP31	meth	USP31	YES	9
32	meth_ADAT1	meth	ADAT1	YES	7
32	meth_CYB5R4	meth	CYB5R4	YES	20
33	meth_INTS6	meth	INTS6	YES	9
33	mrna_RP11-184M15.1	mrna	RP11-184M15.1	NO	0
34	meth_FKBP1A	meth	FKBP1A	YES	60
34	mirna_MIR222	mirna	MIR222	YES	27
35	meth_ATG5	meth	ATG5	YES	49
35	meth_RTN1	meth	RTN1	YES	7
36	meth_KPNA4	meth	KPNA4	YES	17
36	mrna_RP11-132F7.2	mrna	RP11-132F7.2	NO	0
37	cnv_OR4B1	cnv	OR4B1	YES	13
37	meth_MPZL1	meth	MPZL1	YES	10
38	meth_CTSC	meth	CTSC	YES	39
38	meth_HIST1H2AE	meth	HIST1H2AE	YES	9
39	meth_ARL4C	meth	ARL4C	YES	16
39	meth_EFCAB7	meth	EFCAB7	YES	9
40	meth_CNDP2	meth	CNDP2	YES	16
40	mrna_RP4-758J18.2	mrna	RP4-758J18.2	NO	0
41	meth_HAX1	meth	HAX1	YES	33
41	meth_HIBADH	meth	HIBADH	YES	13
42	meth_CTC-425F1.4	meth	CTC-425F1.4	NO	0
42	mirna_MIR151B	mirna	MIR151B	YES	1
43	meth_C5orf30	meth	C5orf30	YES	11
43	mrna_C1orf233	mrna	C1orf233	YES	1
44	meth_ABI2	meth	ABI2	YES	26
44	meth_GPRC5C	meth	GPRC5C	YES	13
45	meth_BYSL	meth	BYSL	YES	19
45	meth_CD164	meth	CD164	YES	19
46	meth_RSRC1	meth	RSRC1	YES	11
46	meth_TRPS1	meth	TRPS1	YES	28
47	meth_LA16c-358B7.4	meth	LA16c-358B7.4	NO	0
47	meth_RP11-643M14.1	meth	RP11-643M14.1	NO	0
48	meth_EGR4	meth	EGR4	YES	12
48	meth_WTAP	meth	WTAP	YES	12
49	meth_CALCA	meth	CALCA	YES	64
49	meth_EIF2B4	meth	EIF2B4	YES	23
50	meth_BOLA1	meth	BOLA1	YES	2
50	meth_KCNIP1	meth	KCNIP1	YES	21

Table I: Top 50 genes from LUAD vs. LUSC nGOseq (see full listing in Appendix H)

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	meth_AKTIP	meth	AKTIP	YES	19
1	meth_BFAR	meth	BFAR	YES	20
2	meth_CCAR1	meth	CCAR1	YES	17
2	meth_NR2C1	meth	NR2C1	YES	22
3	cnv_NCK1	cnv	NCK1	YES	49
3	mrna_B4GALT4	mrna	B4GALT4	YES	16
4	cnv_ACOX2	cnv	ACOX2	YES	24
4	cnv_GHSR	cnv	GHSR	YES	60
5	meth_BLM	meth	BLM	YES	71
5	meth_SGK3	meth	SGK3	YES	29
6	cnv_ACTRT3	cnv	ACTRT3	YES	4
6	cnv_PLSCR1	cnv	PLSCR1	YES	35
7	meth_ITM2B	meth	ITM2B	YES	19
7	mrna_MAGI3	mrna	MAGI3	YES	20
8	meth_SDC1	meth	SDC1	YES	39
8	meth_TRMT61B	meth	TRMT61B	YES	14
9	meth_SIVA1	meth	SIVA1	YES	16
9	meth_TBRG1	meth	TBRG1	YES	8
10	cnv_MAP3K13	cnv	MAP3K13	YES	22
10	mrna_TBPL1	mrna	TBPL1	YES	17
11	meth_MARCH8	meth	MARCH8	YES	16
11	meth_TOMM7	meth	TOMM7	YES	18
12	cnv_BCHE	cnv	BCHE	YES	28
12	meth_PPIA	meth	PPIA	YES	36
13	cnv_DPPA4	cnv	DPPA4	YES	8
13	cnv_SLITRK3	cnv	SLITRK3	YES	5
14	cnv_GRM2	cnv	GRM2	YES	26
14	meth_TMEM115	meth	TMEM115	YES	18
15	cnv_PPP4R2	cnv	PPP4R2	YES	15
15	meth_MCM6	meth	MCM6	YES	19
16	meth_DCP1A	meth	DCP1A	YES	19
16	meth_MRPL38	meth	MRPL38	YES	7
17	cnv_ATP11B	cnv	ATP11B	YES	27
17	mrna_MRPS22	mrna	MRPS22	YES	10
18	cnv_SHQ1	cnv	SHQ1	YES	11
18	meth_PIGG	meth	PIGG	YES	14
19	meth_H3F3A	meth	H3F3A	YES	47
19	meth_PRKAR2A	meth	PRKAR2A	YES	31
20	meth_GSTK1	meth	GSTK1	YES	18

20	meth_JTB	meth	JTB	YES	19
21	meth_PSMC4	meth	PSMC4	YES	49
21	meth_TAF5	meth	TAF5	YES	22
22	cnv_NDUFB5	cnv	NDUFB5	YES	11
22	meth_CDC23	meth	CDC23	YES	22
23	meth_CPSF2	meth	CPSF2	YES	15
23	meth_RPLP1	meth	RPLP1	YES	21
24	meth_EIF4A1	meth	EIF4A1	YES	25
24	meth_NAB2	meth	NAB2	YES	16
25	cnv_P2RY13	cnv	P2RY13	YES	14
25	meth_CLTC	meth	CLTC	YES	61
26	meth_BBC3	meth	BBC3	YES	32
26	mirna_MIR139	mirna	MIR139	YES	2
27	cnv_PLD1	cnv	PLD1	YES	30
27	meth_PARP1	meth	PARP1	YES	87
28	meth_BCL6	meth	BCL6	YES	61
28	meth_RNF19B	meth	RNF19B	YES	17
29	cnv_MST1R	cnv	MST1R	YES	33
29	meth_STIL	meth	STIL	YES	24
30	meth_PRKCI	meth	PRKCI	YES	57
30	stv_RNF8	stv	RNF8	YES	41
31	cnv_CADPS	cnv	CADPS	YES	20
31	cnv_GYG1	cnv	GYG1	YES	16
32	cnv_ADPRH	cnv	ADPRH	YES	8
33	cnv_UQCRC1	cnv	UQCRC1	YES	23
33	meth_ATP5E	meth	ATP5E	YES	19
34	cnv_CHST2	cnv	CHST2	YES	15
34	meth_PDLIM7	meth	PDLIM7	YES	18
35	stv_DHX36	stv	DHX36	YES	38
35	stv_DTX3L	stv	DTX3L	YES	17
36	meth_E2F8	meth	E2F8	YES	29
36	mrna_DVL3	mrna	DVL3	YES	27
37	meth_USP5	meth	USP5	YES	18
37	mrna_CSTA	mrna	CSTA	YES	21
38	meth_EIF3M	meth	EIF3M	YES	10
38	meth_PSME1	meth	PSME1	YES	36
39	cnv_PRKCD	cnv	PRKCD	YES	91
39	meth_NSUN4	meth	NSUN4	YES	16
40	cnv_RASA2	cnv	RASA2	YES	14
40	meth_PTBP1	meth	PTBP1	YES	20
41	meth_DAGLB	meth	DAGLB	YES	14

41	meth_USP1	meth	USP1	YES	20
42	meth_COG1	meth	COG1	YES	11
42	meth_MYDGF	meth	MYDGF	YES	17
43	meth_CD63	meth	CD63	YES	38
43	meth_RABIF	meth	RABIF	YES	12
44	meth_NFIL3	meth	NFIL3	YES	17
44	meth_PSMA5	meth	PSMA5	YES	44
45	meth_CHMP4B	meth	CHMP4B	YES	46
45	meth_RBPJ	meth	RBPJ	YES	85
46	cnv_RAP2B	cnv	RAP2B	YES	26
46	stv_RAC1	stv	RAC1	YES	87
47	cnv_MUC4	cnv	MUC4	YES	17
47	meth_HRSP12	meth	HRSP12	YES	6
48	cnv_POLR2H	cnv	POLR2H	YES	35
48	meth_TAF1B	meth	TAF1B	YES	22
49	cnv_SIAH2	cnv	SIAH2	YES	32
49	meth_SPTLC2	meth	SPTLC2	YES	21
50	meth_CREBL2	meth	CREBL2	YES	15
50	meth_MTIF2	meth	MTIF2	YES	15

[0128] In some embodiments, the therapeutic or drug targets for Luminal A and Luminal B generated according to the methods, systems, algorithms, programs, and codes described above are set forth in Appendices I and J (full listings) and Tables J (top 51 genes), K (top 51 genes), AAF (32 genes), AAG (17 genes), AAH (3 genes), AAI, or combinations thereof.

Table J: Top 51 genes from Luminal A vs. Luminal B MEGENA (see full listing in Appendix I)

Rank	Full_Name	Data_ Type	HUGO_GENE	GO_ Annotated	Number_ Of_GO_Annotations
1	meth_AC091729.9	meth	AC091729.9	NO	0
1	mrna_DPY19L3	mrna	DPY19L3	YES	7
2	cnv_C10orf55	cnv	C10orf55	NO	0
2	mrna_ANXA8L1	mrna	ANXA8L1	YES	4
3	cnv_ZNF91	cnv	ZNF91	YES	11
3	meth_POT1	meth	POT1	YES	33
4	cnv_LGALS16	cnv	LGALS16	YES	7
4	mrna_LAD1	mrna	LAD1	YES	6
5	meth_DUS2	meth	DUS2	YES	17

5	meth_SAMD12	meth	SAMD12	YES	3
6	cnv_EPS8L3	cnv	EPS8L3	YES	2
6	cnv_MRPS12	cnv	MRPS12	YES	15
7	mrna_GYLTL1B	mrna	GYLTL1B	YES	4
7	mrna_RGMA	mrna	RGMA	YES	24
8	cnv_ZNF644	cnv	ZNF644	YES	6
8	mrna_HBP1	mrna	HBP1	YES	10
9	cnv_LINC00845	cnv	LINC00845	NO	0
9	mrna_DLG1	mrna	DLG1	YES	105
10	cnv_DNAJC9	cnv	DNAJC9	YES	10
10	cnv_NPFFR1	cnv	NPFFR1	YES	14
11	mrna_CCNA2	mrna	CCNA2	YES	37
11	mrna_TCF7L1	mrna	TCF7L1	YES	26
12	cnv_FAM86HP	cnv	FAM86HP	NO	0
12	meth_THEM4	meth	THEM4	YES	20
13	meth_SUCLA2	meth	SUCLA2	YES	17
13	mrna_TMEM209	mrna	TMEM209	YES	2
14	cnv_MYBPHL	cnv	MYBPHL	YES	15
14	cnv_RNA5SP470	cnv	RNA5SP470	NO	0
15	mrna_NEURL3	mrna	NEURL3	YES	4
15	mrna_ARMCX2	mrna	ARMCX2	YES	3
16	meth_AF235103.1	meth	AF235103.1	NO	0
16	mrna_SLC7A10	mrna	SLC7A10	YES	19
17	cnv_SARS2	cnv	SARS2	YES	13
17	meth_PAEP	meth	PAEP	YES	11
18	mrna_LEPR	mrna	LEPR	YES	29
18	mrna_FABP5	mrna	FABP5	YES	20
19	mrna_URI1	mrna	URI1	YES	24
19	mrna_ZNF724P	mrna	ZNF724P	YES	7
20	cnv_TGFBR3	cnv	TGFBR3	YES	63
20	mrna_COL25A1	mrna	COL25A1	YES	12
21	mrna_ACO1	mrna	ACO1	YES	24
21	mrna_KTI12	mrna	KTI12	YES	3
22	cnv_SLC44A3	cnv	SLC44A3	YES	8
22	mrna_PSME4	mrna	PSME4	YES	43
23	meth_CCNE2	meth	CCNE2	YES	19
23	mrna_ZNF285	mrna	ZNF285	YES	7
24	cnv_RBM42	cnv	RBM42	YES	6
24	mrna_UBE2M	mrna	UBE2M	YES	18
25	mrna_ELF5	mrna	ELF5	YES	20
25	mrna_RP11-58E21.3	mrna	RP11-58E21.3	NO	0

26	cnv_SHKBP1	cnv	SHKBP1	YES	4
26	mrna_SMO	mrna	SMO	YES	101
27	cnv_LRRC39	cnv	LRRC39	YES	1
27	stv_OR1L4	stv	OR1L4	YES	11
28	cnv_WDR62	cnv	WDR62	YES	18
28	mrna_FAM60A	mrna	FAM60A	YES	4
29	cnv_SNORD74 |ENSG00000200897.1	cnv	SNORD74|ENSG00000200897.1	NO	0
29	mrna_ITIH5	mrna	ITIH5	YES	3
30	mrna_CRYBG3	mrna	CRYBG3	YES	1
30	mrna_SERPINB5	mrna	SERPINB5	YES	12
31	mrna_DEPDC4	mrna	DEPDC4	YES	3
32	cnv_RAB31	cnv	RAB31	YES	24
32	cnv_ZNF260	cnv	ZNF260	YES	11
33	mrna_ESF1	mrna	ESF1	YES	7
33	mrna_MLXIP	mrna	MLXIP	YES	16
34	cnv_MSS51	cnv	MSS51	YES	2
34	mrna_SSBP3	mrna	SSBP3	YES	20
35	meth_GPR22	meth	GPR22	YES	11
35	mrna_RP11-266K4.9	mrna	RP11-266K4.9	NO	0
36	cnv_KIAA1257	cnv	KIAA1257	NO	0
36	cnv_ZNF566	cnv	ZNF566	YES	9
37	cnv_LYPD4	cnv	LYPD4	YES	5
37	mrna_KLF11	mrna	KLF11	YES	22
38	cnv_LRFN3	cnv	LRFN3	YES	15
38	meth_AGO2	meth	AGO2	YES	65
39	cnv_SART3	cnv	SART3	YES	27
39	mrna_MON2	mrna	MON2	YES	8
40	cnv_SNORA48 |ENSG00000212626.1	cnv	SNORA48|ENSG00000212626.1	NO	0
40	meth_CMBL	meth	CMBL	YES	5
41	cnv_UOX	cnv	UOX	NO	0
41	mrna_TMEM123	mrna	TMEM123	YES	7
42	cnv_HAMP	cnv	HAMP	YES	30
42	cnv_PBLD	cnv	PBLD	YES	15
43	cnv_CEACAM21	cnv	CEACAM21	YES	2
44	cnv_snoU13 |ENSG00000238983.1	cnv	snoU13|ENSG00000238983.1	NO	0
44	mrna_GYG2	mrna	GYG2	YES	8
45	cnv_LINC00662	cnv	LINC00662	NO	0
45	meth_MXRA7	meth	MXRA7	YES	2
46	cnv_EFCAB12	cnv	EFCAB12	YES	3

46	cnv_RPL32P3	cnv	RPL32P3	NO	0
47	cnv_RNA5SP53	cnv	RNA5SP53	NO	0
47	mrna_CTC-459F4.1	mrna	CTC-459F4.1	NO	0
48	cnv_HPN	cnv	HPN	YES	36
48	cnv_MTF2	cnv	MTF2	YES	18
49	mrna_AMER1	mrna	AMER1	YES	26
49	stv_RPL28	stv	RPL28	YES	21
50	mrna_PISD	mrna	PISD	YES	13
51	mrna_GLCE	mrna	GLCE	YES	12
51	stv_TRIM6	stv	TRIM6	YES	32

Table K: Top 51 genes from Luminal A vs. Luminal B nGOseq (see full listing in Appendix J)

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	mrna_CX3CR1	mrna	CX3CR1	YES	37
1	stv_CERCAM	stv	CERCAM	YES	6
2	mrna_CENPL	mrna	CENPL	YES	8
2	mrna_KIF15	mrna	KIF15	YES	21
3	cnv_FREM1	cnv	FREM1	YES	11
3	mrna_LIMS2	mrna	LIMS2	YES	15
4	cnv_KCNH6	cnv	KCNH6	YES	16
4	mrna_CEP131	mrna	CEP131	YES	32
5	meth_HYOU1	meth	HYOU1	YES	21
5	meth_UTS2	meth	UTS2	YES	30
6	cnv_C1QTNF1	cnv	C1QTNF1	YES	18
6	mrna_CASC5	mrna	CASC5	YES	15
7	meth_HPDL	meth	HPDL	YES	6
7	meth_KCNK9	meth	KCNK9	YES	16
8	cnv_MPZL3	cnv	MPZL3	YES	6
8	meth_LEP	meth	LEP	YES	112
9	mirna_MIR191	mirna	MIR191	YES	2
9	stv_GAP43	stv	GAP43	YES	29
10	meth_GPX7	meth	GPX7	YES	12
10	mrna_PTPN21	mrna	PTPN21	YES	10
11	meth_DAND5	meth	DAND5	YES	16
11	mrna_INSIG1	mrna	INSIG1	YES	24
12	mrna_TXNRD1	mrna	TXNRD1	YES	44
12	stv_NUFIP1	stv	NUFIP1	YES	23
13	mrna_ORC6	mrna	ORC6	YES	13
13	mrna_GRIN2A	mrna	GRIN2A	YES	66

14	mrna_LARP1	mrna	LARP1	YES	27
14	mrna_HTR1F	mrna	HTR1F	YES	15
15	cnv_ORAOV1	cnv	ORAOV1	YES	10
15	stv_PRICKLE2	stv	PRICKLE2	YES	8
16	mrna_TP63	mrna	TP63	YES	103
16	mrna_KIF18B	mrna	KIF18B	YES	25
17	meth_EREG	meth	EREG	YES	59
17	mrna_DPP3	mrna	DPP3	YES	14
18	meth_PLG	meth	PLG	YES	48
18	meth_STX1B	meth	STX1B	YES	42
19	cnv_ASPSCR1	cnv	ASPSCR1	YES	21
19	mrna_PCNA	mrna	PCNA	YES	65
20	cnv_NUP85	cnv	NUP85	YES	36
20	meth_FCRL4	meth	FCRL4	YES	7
21	cnv_APC2	cnv	APC2	YES	20
21	mrna_STRBP	mrna	STRBP	YES	13
22	meth_FAM20A	meth	FAM20A	YES	14
22	meth_TSC1	meth	TSC1	YES	63
23	cnv_POLRMT	cnv	POLRMT	YES	15
23	meth_ATM	meth	ATM	YES	98
24	cnv_SGTA	cnv	SGTA	YES	13
24	mrna_WDHD1	mrna	WDHD1	YES	12
25	meth_KLK4	meth	KLK4	YES	12
25	meth_KRT16	meth	KRT16	YES	23
26	mrna_MKI67	mrna	MKI67	YES	25
26	stv_PLK4	stv	PLK4	YES	27
27	mrna_LMNB1	mrna	LMNB1	YES	13
27	mrna_PIWIL2	mrna	PIWIL2	YES	35
28	mrna_DIAPH3	mrna	DIAPH3	YES	9
28	mrna_HPGD	mrna	HPGD	YES	32
29	cnv_JMJD6	cnv	JMJD6	YES	44
29	mrna_DMBX1	mrna	DMBX1	YES	19
30	cnv_RGS9	cnv	RGS9	YES	22
30	stv_C5AR1	stv	C5AR1	YES	46
31	cnv_ADRM1	cnv	ADRM1	YES	19
31	meth_PADI4	meth	PADI4	YES	27
32	mrna_CENPN	mrna	CENPN	YES	12
32	stv_SRRM4	stv	SRRM4	YES	10
33	meth_NPR3	meth	NPR3	YES	26
33	meth_ZFP41	meth	ZFP41	YES	8
34	mrna_HELLS	mrna	HELLS	YES	24

35	cnv_KDM4C	cnv	KDM4C	YES	29
35	mrna_DACT3	mrna	DACT3	YES	12
36	meth_TNFRSF18	meth	TNFRSF18	YES	22
36	mrna_CENPK	mrna	CENPK	YES	10
37	cnv_EOGT	cnv	EOGT	YES	9
37	mrna_BLM	mrna	BLM	YES	71
38	cnv_ARCN1	cnv	ARCN1	YES	23
38	stv_ADGRL2	stv	ADGRL2	YES	10
39	cnv_PPP6R3	cnv	PPP6R3	YES	11
39	meth_ACTR5	meth	ACTR5	YES	13
40	meth_SEC61A2	meth	SEC61A2	YES	11
40	mrna_GBGT1	mrna	GBGT1	YES	14
41	cnv_IL33	cnv	IL33	YES	34
41	meth_XCR1	meth	XCR1	YES	14
42	cnv_TAF1D	cnv	TAF1D	YES	12
42	meth_DZIP1	meth	DZIP1	YES	23
43	meth_MNX1	meth	MNX1	YES	23
43	stv_GPC3	stv	GPC3	YES	51
44	mrna_KIF14	mrna	KIF14	YES	51
44	stv_GTF3C4	stv	GTF3C4	YES	17
45	meth_NT5C1A	meth	NT5C1A	YES	15
45	mrna_NME1	mrna	NME1	YES	59
46	cnv_IFNA14	cnv	IFNA14	YES	20
46	stv_NFKBIZ	stv	NFKBIZ	YES	9
47	cnv_LPAR3	cnv	LPAR3	YES	22
47	cnv_TBRG1	cnv	TBRG1	YES	8
48	mrna_LGR6	mrna	LGR6	YES	17
48	stv_SORCS1	stv	SORCS1	YES	5
49	meth_AVPR1B	meth	AVPR1B	YES	18
49	meth_B3GNT5	meth	B3GNT5	YES	17
50	cnv_BIRC5	cnv	BIRC5	YES	50
51	cnv_RYBP	cnv	RYBP	YES	14
51	mrna_RASL11A	mrna	RASL11A	YES	12

[0129] In some embodiments, the KIRC vs. KIRP enriched genes with no association with cancer or other genes in published literature are set forth in Table AP and Table AR. In some embodiments, the KIRC vs. KIRP enriched genes with no associated functional annotations are set forth in Table AQ and Table AS.

Table AP: KIRC vs. KIRP enriched genes (MEGENA) with no association with cancer or other genes in published literature

Genes
C2orf70
CCDC79
FAM217B
AF127936.9
CEBPB-AS1
CTD-2034I21.1
CTD-2371O3.3
ENPP7P8
HCG4P7
LINC00311
MIR124-3
MIR4473
RNA5SP349
RP11-236L14.2
RP11-299J3.8
RP11-302L19.3
RP11-348J24.2
RP11-38C17.1
RP11-394O4.5
RP11-517H2.6

RP11-59C5.3
RP11-888D10.3
SDAD1P1
SNORD38
MZT2A

QTRT1
TIGD3
TMEM81

Table AQ: KIRC vs. KIRP enriched genes (MEGENA) with no associated functional annotations

Genes

AF127936.9
CEBPB-AS1
CTD-2034I21.1
CTD-2371O3.3
ENPP7P8
HCG4P7
LINC00311
MIR124-3
MIR4473
RNA5SP349
RP11-236L14.2
RP11-299J3.8
RP11-302L19.3

RP11-348J24.2
RP11-38C17.1
RP11-394O4.5
RP11-517H2.6
RP11-59C5.3
RP11-888D10.3
SDAD1P1
SNORD38
U3|ENSG00000251800.1

Table AR: KIRC vs. KIRP enriched genes (nGOseq) with no association with cancer or other genes in published literature

Genes
ACAD9
B9D2
FAM134C

Table AS: KIRC vs. KIRP enriched genes (nGOseq) with no associated functional annotations

Genes
MIR211

[0130] In some embodiments, the BRCA vs. normal enriched genes with no association with cancer or other genes in published literature are set forth in Table AT and Table AV. In some embodiments, the BRCA vs. normal enriched genes with no associated functional annotations are set forth in Table AU.

Table AT: BRCA vs. Normal enriched genes (MEGENA) with no association with cancer or other genes in published literature

Genes
ABHD10
ANKMY2
AVPI1
C19orf70
C6orf203
CACHD1
EFR3B
EXOC3L1
FAM35A
GS1-124K5.11
LINC00996
LOC101928580
LOC101929268
MAP3K14-AS1
MIR3940
MIR4738
MIR676
PP14571
RP5-1065J22.8
TMCO5B
TOB1-AS1
ZC4H2

ZPLD1

Table AU: BRCA vs. Normal enriched genes (MEGENA) with no associated functional annotations

Genes

FAM35A
GS1-124K5.11
LINC00996
LOC101928580
LOC101929268
MAP3K14-AS1
MIR3940
MIR4738
MIR676
MTVR2
PP14571
RP5-1065J22.8
TMCO5B
TOB1-AS1

Table AV: BRCA vs. Normal enriched genes (nGOseq) with no association with cancer or other genes in published literature

genes

ARL8A
GCSAML
OR10J1

OR7C2
TMED2

[0131] In some embodiments, the ER+ vs ER- enriched genes with no association with cancer or other genes in published literature are set forth in Table AX and Table AZ. In some embodiments, the ER+ vs ER- enriched genes with no associated functional annotations are set forth in Table AY and Table AAA.

Table AX: ER+ vs. ER- enriched genes (MEGENA) with no association with cancer or other genes in published literature

genes
C22orf39
C8orf4
C9orf43
CLECL1
CSRP2BP
AC002451.3
AC072062.1
AC087651.1
AC126407.1
AL021807.1
AP000344.4
C2orf57
C6orf48
DHRS4-AS1
ILF3-AS1
IQCK

MIR455
NCK1-AS1
PLA2G4E-AS1
RP11-1081L13.4
RPS7P1
SNORD116-1
FAM206A
GTSF1L
IGKV1-16
IQCJ-SCHIP1
NOSIP
PLEKHG4B
RNF186
SLC25A39
SLC37A3
WFDC10B

Table AY: ER+ vs. ER- enriched genes (MEGENA) with no associated functional annotations

genes
AC002451.3
AC072062.1
AC087651.1
AC126407.1

AL021807.1
AP000344.4
C2orf57
C6orf48
DHRS4-AS1
ILF3-AS1
IQCK
MIR455
NCK1-AS1
PLA2G4E-AS1
RP11-1081L13.4
RPS7P1
SNORD116-1

Table AZ: ER+ vs. ER- enriched genes (nGOseq) with no association with cancer or other genes in published literature

genes
KLHL10

Table AAA: ER+ vs. ER- enriched genes (nGOseq) with no associated functional annotations

genes
LET7B
MIRLET7B

[0132] In some embodiments, the LUAD vs. LUSC enriched genes with no association with cancer or other genes in published literature are set forth in Table AAB and Table AAD. In

some embodiments, the LUAD vs. LUSC enriched genes with no associated functional annotations are set forth in Table AAC.

Table AAB: LUAD vs. LUSC enriched genes (MEGENA) with no association with cancer or other genes in published literature

genes
ADAT1
ARRDC2
BOLA1
C1orf233
C21orf59
C5orf30
CYB5R4
EFCAB7
AC002310.14
AC006946.15
AC015849.12
AC140481.8
CTB-129P6.4
CTC-425F1.4
LA16c-358B7.4
MIR1292
RP11-132F7.2
RP11-184M15.1
RP11-643M14.1

RP4-758J18.2
KIAA0232
MIR151B
OR4B1
RNF39
ZFP69B

Table AAC: LUAD vs. LUSC enriched genes (MEGENA) with no associated functional annotations

genes

ABALON
AC002310.14
AC006946.15
AC015849.12
AC140481.8
CTB-129P6.4
CTC-425F1.4
LA16c-358B7.4
MIR1292
MIR6850
RP11-132F7.2
RP11-184M15.1
RP11-643M14.1
RP4-758J18.2

Table AAD: LUAD vs. LUSC enriched genes (nGOseq) with no association with cancer or other genes in published literature

genes
HRSP12
MIR139
MTIF2

[0133] In some embodiments, the Luminal A vs. Luminal B enriched genes with no association with cancer or other genes in published literature are set forth in Table AAF and Table AAH. In some embodiments, the Luminal A vs. Luminal B enriched genes with no associated functional annotations are set forth in Table AAG.

Table AAF: Luminal A vs. Luminal B enriched genes (MEGENA) with no association with cancer or other genes in published literature

genes
CRYBG3
DEPDC4
EFCAB12
ESF1
GYG2
KTI12
AC091729.9
AF235103.1
C10orf55
CTC-459F4.1
FAM86HP
KIAA1257

LINC00662
LINC00845
RNA5SP470
RNA5SP53
RP11-266K4.9
RP11-58E21.3
RPL32P3
SNORA48|ENSG00000212626.1
snoU13|ENSG00000238983.1
LGALS16
LRRC39
LYPD4
MXRA7
MYBPHL
NEURL3
OR1L4
RBM42
TRIM6
ZNF285
ZNF724P

Table AAG: Luminal A vs. Luminal B enriched genes (MEGENA) with no associated functional annotations

genes

AC091729.9
AF235103.1
C10orf55
CTC-459F4.1
FAM86HP
KIAA1257
LINC00662
LINC00845
RNA5SP470
RNA5SP53
RP11-266K4.9
RP11-58E21.3
RPL32P3
SNORA48|ENSG00000212626.1
SNORD74|ENSG00000200897.1
snoU13|ENSG00000238983.1
UOX

Table AAH: Luminal A vs. Luminal B enriched genes (nGOseq) with no association with cancer or other genes in published literature

genes

CERCAM
MPZL3
ZFP41

[0134] As used herein "therapeutic agent" refers to a drug or therapeutic composition or compound identified from, but not limited to, DrugBank and Pharmacodia as associated with the therapeutic or drug targets or genes set forth in Tables B-O and Appendices A-N. In some embodiments, the therapeutic agents for BRCA as used herein are set forth in Tables P, Q, AC, AD, or combinations thereof. In some embodiments, the therapeutic agents for ER positive or ER negative as used herein are set forth in Tables R, S, AE, AF, or combinations thereof. In some embodiments, the therapeutic agents for KIRP or KIRC as used herein are set forth in Tables T, U, AG, AH, or combinations thereof. In some embodiments, the therapeutic agents for LUAD or LUSC as used herein are set forth in Tables V, W, AI, AJ, or combinations thereof. In some embodiments, the therapeutic agents for Luminal A or Luminal B as used herein are set forth in Tables X, Y, AK, AL, or combinations thereof. In some embodiments, the therapeutic agents for pan-cancer (*e.g.*, the cancers listed in Table A) as used herein are set forth in Tables Z, AA, AB, AM, AN, AO, or combinations thereof.

Table P: DrugBank drug targets for BRCA vs Normal using MEGENA

Gene	Drug Name	Groups
ACADS	Flavin adenine dinucleotide	Approved
CXCL8	ABT-510	Investigational
NQO1	Cisplatin	Approved
NQO1	Oxaliplatin	Approved, Investigational
NQO1	Carboplatin	Approved
NQO1	Doxorubicin	Approved, Investigational
NQO1	Flavin adenine dinucleotide	Approved
PPAT	Fluorouracil	Approved
PPAT	Mercaptopurine	Approved
TLR8	Imiquimod	Approved, Investigational

Table Q: DrugBank drug targets for BRCA vs Normal using nGOseq

Gene	Drug Name	Groups
ATF6	Pseudoephedrine	Approved

AURKB	HESPERIDIN	Experimental
AURKB	AT9283	Investigational
CD247	Muromonab	Approved, Investigational
DDR2	Regorafenib	Approved
DRD2	Amphetamine	Approved, Illicit
DRD2	Ziprasidone	Approved
DRD2	Cabergoline	Approved
DRD2	Ropinirole	Approved, Investigational
DRD2	Olanzapine	Approved, Investigational
DRD2	Clozapine	Approved
DRD2	Mirtazapine	Approved
DRD2	Sulpiride	Approved
DRD2	Loxapine	Approved
DRD2	Pramipexole	Approved, Investigational
DRD2	Prochlorperazine	Approved, Vet Approved
DRD2	Droperidol	Approved, Vet Approved
DRD2	Imipramine	Approved
DRD2	Chlorpromazine	Approved, Vet Approved
DRD2	Buspirone	Approved, Investigational
DRD2	Haloperidol	Approved
DRD2	Nortriptyline	Approved
DRD2	Cinnarizine	Approved
DRD2	Lisuride	Approved
DRD2	Fluphenazine	Approved
DRD2	Thioridazine	Withdrawn
DRD2	Ergotamine	Approved
DRD2	Apomorphine	Approved, Investigational
DRD2	Trimipramine	Approved
DRD2	Risperidone	Approved, Investigational
DRD2	Trifluoperazine	Approved
DRD2	Perphenazine	Approved
DRD2	Flupentixol	Approved, Withdrawn
DRD2	Amantadine	Approved
DRD2	Mesoridazine	Approved
DRD2	Maprotiline	Approved
DRD2	Dopamine	Approved
DRD2	Memantine	Approved, Investigational
DRD2	Ergoloid mesylate	Approved
DRD2	Promethazine	Approved
DRD2	Pimozide	Approved
DRD2	Doxepin	Approved
DRD2	Desipramine	Approved
DRD2	Domperidone	Approved, Investigational, Vet Approved
DRD2	Pergolide	Approved, Vet Approved, Withdrawn
DRD2	Bromocriptine	Approved, Investigational
DRD2	Ketamine	Approved, Vet Approved
DRD2	Quetiapine	Approved
DRD2	Metoclopramide	Approved, Investigational

DRD2	Levodopa	Approved
DRD2	Aripiprazole	Approved, Investigational
DRD2	Chlorprothixene	Approved, Withdrawn
DRD2	Paliperidone	Approved
DRD2	Yohimbine	Approved, Vet Approved
DRD2	Methotrimeprazine	Approved
DRD2	Molindone	Approved
DRD2	Pipotiazine	Approved
DRD2	Thioproperazine	Approved
DRD2	Thiothixene	Approved
DRD2	Zuclopenthixol	Approved, Investigational
DRD2	Fluspirilene	Approved
DRD2	Tetrabenazine	Approved
DRD2	Bifeprunox	Investigational
DRD2	Bicifadine	Investigational
DRD2	Itopride	Investigational
DRD2	Iloperidone	Approved
DRD2	Rotigotine	Approved
DRD2	Pimavanserin	Investigational
DRD2	BL-1020	Investigational
DRD2	ACP-104	Investigational
DRD2	Cariprazine	Approved
DRD2	Lumateperone	Investigational
DRD2	Sertindole	Approved, Withdrawn
DRD2	Mianserin	Approved
DRD2	Asenapine	Approved
DRD2	Amisulpride	Approved, Investigational
DRD2	Lurasidone	Approved
DRD2	Bromopride	Approved
DRD2	Brexpiprazole	Approved
DRD2	Tiapride	Approved, Investigational
ITK	Pazopanib	Approved
MAP2K2	Bosutinib	Approved
MAP2K2	Trametinib	Approved

Table R: DrugBank drug targets for ER+ vs. ER- using MEGENA

Gene	Drug Name	Groups
CYP2D6	Peginterferon alfa-2b	Approved
CYP2D6	Cyclosporine	Approved, Investigational, Vet Approved
CYP2D6	Pravastatin	Approved
CYP2D6	Fluvoxamine	Approved, Investigational
CYP2D6	Amphetamine	Approved, Illicit
CYP2D6	Nicotine	Approved
CYP2D6	Cevimeline	Approved
CYP2D6	Bortezomib	Approved, Investigational
CYP2D6	Phentermine	Approved, Illicit
CYP2D6	Tramadol	Approved, Investigational

CYP2D6	Betaxolol	Approved
CYP2D6	Sildenafil	Approved, Investigational
CYP2D6	Pyrimethamine	Approved, Vet Approved
CYP2D6	Ticlopidine	Approved
CYP2D6	Trospium	Approved
CYP2D6	Midodrine	Approved
CYP2D6	Citalopram	Approved
CYP2D6	Eletriptan	Approved, Investigational
CYP2D6	Nelfinavir	Approved
CYP2D6	Indinavir	Approved
CYP2D6	Lovastatin	Approved, Investigational
CYP2D6	Reboxetine	Approved, Investigational
CYP2D6	Nevirapine	Approved
CYP2D6	Ranolazine	Approved, Investigational
CYP2D6	Benzatropine	Approved
CYP2D6	Ziprasidone	Approved
CYP2D6	Clotrimazole	Approved, Vet Approved
CYP2D6	Sulfanilamide	Approved
CYP2D6	Metoprolol	Approved, Investigational
CYP2D6	Ropinirole	Approved, Investigational
CYP2D6	Amsacrine	Approved
CYP2D6	Theophylline	Approved
CYP2D6	Lidocaine	Approved, Vet Approved
CYP2D6	Clemastine	Approved
CYP2D6	Venlafaxine	Approved
CYP2D6	Atomoxetine	Approved
CYP2D6	Morphine	Approved, Investigational
CYP2D6	Ropivacaine	Approved
CYP2D6	Bupivacaine	Approved, Investigational
LYN	Bosutinib	Approved
LYN	Ponatinib	Approved
LYN	Nintedanib	Approved
PDE10A	Dipyridamole	Approved
PDE10A	Papaverine	Approved
PDE10A	Triflusal	Approved
PRKCE	Tamoxifen	Approved
SLC16A1	Pravastatin	Approved
SLC16A1	Valproic Acid	Approved, Investigational
SLC16A1	Aminohippuric acid	Approved
SLC16A1	Ampicillin	Approved, Vet Approved
SLC16A1	Foscarnet	Approved
SLC16A1	Methotrexate	Approved
SLC16A1	Nateglinide	Approved, Investigational
SLC16A1	Salicylic acid	Approved, Vet Approved
SLC16A1	Probenecid	Approved
SLC16A1	Gamma Hydroxybutyric Acid	Approved, Illicit
SLC16A1	Acetic acid	Approved
SLC16A1	Benzoic Acid	Approved

SLC16A1	Quercetin	Experimental
SLC16A1	Lactic Acid	Approved, Vet Approved
SLC16A1	Arbaclofen Placarbil	Investigational
SLC25A5	Clodronic Acid	Approved, Investigational, Vet Approved
UGT2B7	Troglitazone	Withdrawn
UGT2B7	Lovastatin	Approved, Investigational
UGT2B7	Morphine	Approved, Investigational
UGT2B7	Valproic Acid	Approved, Investigational
UGT2B7	Codeine	Approved, Illicit
UGT2B7	Indomethacin	Approved, Investigational
UGT2B7	Epirubicin	Approved
UGT2B7	Zidovudine	Approved
UGT2B7	Carbamazepine	Approved, Investigational
UGT2B7	Diclofenac	Approved, Vet Approved
UGT2B7	Simvastatin	Approved
UGT2B7	Losartan	Approved
UGT2B7	Mycophenolate mofetil	Approved, Investigational
UGT2B7	Flurbiprofen	Approved, Investigational
UGT2B7	Etodolac	Approved, Investigational, Vet Approved
UGT2B7	Naproxen	Approved, Vet Approved
UGT2B7	Oxazepam	Approved
UGT2B7	Ezetimibe	Approved
UGT2B7	Mycophenolic acid	Approved
UGT2B7	Ibuprofen	Approved
UGT2B7	Atorvastatin	Approved

Table S: DrugBank drug targets for ER+ vs. ER- using nGOseq

Gene	Drug Name	Groups
ABAT	Valproic Acid	Approved, Investigational
ABAT	Phenelzine	Approved
ABAT	Vigabatrin	Approved
ADORA2B	Theophylline	Approved
ADORA2B	Adenosine	Approved, Investigational
ADORA2B	Enprofylline	Approved
ADORA2B	Defibrotide	Approved, Investigational
CA2	Topiramate	Approved
CA2	Bendroflumethiazide	Approved
CA2	Furosemide	Approved, Vet Approved
CA2	Methazolamide	Approved
CA2	Hydroflumethiazide	Approved
CA2	Acetazolamide	Approved, Vet Approved
CA2	Dorzolamide	Approved
CA2	Chlorothiazide	Approved, Vet Approved
CA2	Zonisamide	Approved, Investigational
CA2	Hydrochlorothiazide	Approved, Vet Approved
CA2	Diazoxide	Approved

CA2	Diclofenamide	Approved
CA2	Brinzolamide	Approved
CA2	Ellagic Acid	Investigational
CDK7	Alvocidib	Experimental, Investigational
IL1RN	Rilonacept	Approved
JAK2	XL019	Investigational
JAK2	Ruxolitinib	Approved
JAK2	Tofacitinib	Approved, Investigational
LIMK1	Dabrafenib	Approved
MAPK14	1-(5-Tert-Butyl-2-P-Tolyl-2h-Pyrazol-3-Yl)-3-[4-(2-Morpholin-4-Yl-Ethoxy)-Naphthalen-1-Yl]-Urea	Experimental
MAPK14	KC706	Investigational
MAPK14	Talmapimod	Investigational
MAPK14	VX-702	Investigational
MMP15	Marimastat	Approved, Investigational
MMP9	Marimastat	Approved, Investigational
MMP9	Minocycline	Approved, Investigational
MMP9	Captopril	Approved
MMP9	Glucosamine	Approved
MMP9	AE-941	Investigational
MMP9	PG-530742	Investigational
NR1I2	Erlotinib	Approved, Investigational
NR1I2	Estradiol	Approved, Investigational, Vet Approved
NR1I2	Ethinyl Estradiol	Approved
NR1I2	Rifampicin	Approved
NR1I2	Rifaximin	Approved, Investigational
NR1I2	Paclitaxel	Approved, Vet Approved
NR1I2	Docetaxel	Approved, Investigational
NR1I2	Rilpivirine	Approved
PDGFRB	Becaplermin	Approved, Investigational
PDGFRB	Sorafenib	Approved, Investigational
PDGFRB	Imatinib	Approved
PDGFRB	Dasatinib	Approved, Investigational
PDGFRB	Sunitinib	Approved, Investigational
PDGFRB	XL999	Investigational
PDGFRB	XL820	Investigational
PDGFRB	Pazopanib	Approved
PDGFRB	Regorafenib	Approved
PGF	Aflibercept	Approved
PLAU	Urokinase	Approved, Investigational, Withdrawn
PLAU	Amiloride	Approved
PLAU	Fibrinolysin	Investigational

Table T: DrugBank drug targets for KIRP vs. KIRC using MEGENA

Gene	Drug Name	Groups
ACAT1	Ezetimibe	Approved
GABRB3	Lorazepam	Approved
GABRB3	Temazepam	Approved
GABRB3	Butalbital	Approved, Illicit
GABRB3	Topiramate	Approved
GABRB3	Olanzapine	Approved, Investigational
GABRB3	Clobazam	Approved, Illicit
GABRB3	Eszopiclone	Approved
GABRB3	Alprazolam	Approved, Illicit, Investigational
GABRB3	Chlordiazepoxide	Approved, Illicit
GABRB3	Ivermectin	Approved, Vet Approved
GABRB3	Clorazepate	Approved, Illicit
GABRB3	Acamprosate	Approved, Investigational
GABRB3	Midazolam	Approved, Illicit
GABRB3	Flurazepam	Approved, Illicit
GABRB3	Primidone	Approved, Vet Approved
GABRB3	Diazepam	Approved, Illicit, Vet Approved
GABRB3	Oxazepam	Approved
GABRB3	Triazolam	Approved
GABRB3	Ergoloid mesylate	Approved
GABRB3	Clonazepam	Approved, Illicit
GABRB3	Flumazenil	Approved
GABRB3	Estazolam	Approved, Illicit
GABRB3	Bromazepam	Approved, Illicit
GABRB3	Nitrazepam	Approved
GABRB3	Thiocolchicoside	Approved
LCK	Dasatinib	Approved, Investigational
LCK	Ponatinib	Approved
LCK	Nintedanib	Approved
MAPK11	KC706	Investigational
MAPK11	Regorafenib	Approved
OXT	Oxytocin	Approved, Vet Approved
SCTR	Secretin	Approved, Investigational
SLC19A1	Methotrexate	Approved
SLC19A1	Pralatrexate	Approved
SLC6A3	Amphetamine	Approved, Illicit
SLC6A3	Phentermine	Approved, Illicit
SLC6A3	Citalopram	Approved
SLC6A3	Benzatropine	Approved
SLC6A3	Venlafaxine	Approved
SLC6A3	Atomoxetine	Approved
SLC6A3	Mirtazapine	Approved
SLC6A3	Loxapine	Approved
SLC6A3	Methylphenidate	Approved, Investigational
SLC6A3	Pethidine	Approved
SLC6A3	Imipramine	Approved
SLC6A3	Duloxetine	Approved

SLC6A3	Mazindol	Approved
SLC6A3	Procaine	Approved, Investigational, Vet Approved
SLC6A3	Trimipramine	Approved
SLC6A3	Modafinil	Approved, Investigational
SLC6A3	Pseudoephedrine	Approved
SLC6A3	Cocaine	Approved, Illicit
SLC6A3	Diethylpropion	Approved, Illicit
SLC6A3	Dopamine	Approved
SLC6A3	Sertraline	Approved
SLC6A3	Sibutramine	Approved, Illicit, Investigational, Withdrawn
SLC6A3	Chlorphenamine	Approved
SLC6A3	Diphenylpyraline	Approved
SLC6A3	Nefazodone	Approved, Withdrawn
SLC6A3	Bupropion	Approved
SLC6A3	Chloroprocaine	Approved
SLC6A3	Escitalopram	Approved, Investigational
SLC6A3	Lisdexamfetamine	Approved, Investigational
SLC6A3	Dextroamphetamine	Approved, Illicit
SLC6A3	Methamphetamine	Approved, Illicit
SLC6A3	Altropane	Investigational
SLC6A3	Mianserin	Approved
SLC6A3	Armodafinil	Approved, Investigational
SLC6A3	Dexmethylphenidate	Approved
SLC6A3	Ioflupane I-123	Approved
SLC6A3	Methyl salicylate	Approved, Vet Approved
TNFSF13B	Belimumab	Approved

Table U: DrugBank drug targets for KIRP vs. KIRC using nGOseq

Gene	Drug Name	Groups
ABCC2	Vasopressin	Approved
ABCC2	Cyclosporine	Approved, Investigational, Vet Approved
ABCC2	Pravastatin	Approved
ABCC2	Reserpine	Approved
ABCC2	Indinavir	Approved
ABCC2	Lovastatin	Approved, Investigational
ABCC2	Phenytoin	Approved, Vet Approved
ABCC2	Clotrimazole	Approved, Vet Approved
ABCC2	Olmesartan	Approved, Investigational
ABCC2	Conjugated estrogens	Approved
ABCC2	Tenofovir disoproxil	Approved, Investigational
ABCC2	Indomethacin	Approved, Investigational
ABCC2	Aminohippuric acid	Approved
ABCC2	Grepafloxacin	Withdrawn
ABCC2	Sorafenib	Approved, Investigational
ABCC2	Spironolactone	Approved
ABCC2	Ritonavir	Approved, Investigational

ABCC2	Cisplatin	Approved
ABCC2	Oxaliplatin	Approved, Investigational
ABCC2	Vincristine	Approved, Investigational
ABCC2	Methotrexate	Approved
ABCC2	Carbamazepine	Approved, Investigational
ABCC2	Vinblastine	Approved
ABCC2	Ivermectin	Approved, Vet Approved
ABCC2	Simvastatin	Approved
ABCC2	Verapamil	Approved
ABCC2	Tamoxifen	Approved
ABCC2	Mycophenolate mofetil	Approved, Investigational
ABCC2	Daunorubicin	Approved
ABCC2	Furosemide	Approved, Vet Approved
ABCC2	Lamivudine	Approved, Investigational
ABCC2	Irinotecan	Approved, Investigational
ABCC2	Etoposide	Approved
ABCC2	Sulfasalazine	Approved
ABCC2	Eprosartan	Approved
ABCC2	Quinidine	Approved
ABCC2	Norgestimate	Approved
ABCC2	Carboplatin	Approved
ABCC2	Telmisartan	Approved, Investigational
ABCC2	Ezetimibe	Approved
ABCC2	Ethinyl Estradiol	Approved
ABCC2	Lomefloxacin	Approved
ABCC2	Doxorubicin	Approved, Investigational
ABCC2	Glyburide	Approved
ABCC2	Probenecid	Approved
ABCC2	Rifampicin	Approved
ABCC2	Atorvastatin	Approved
ABCC2	Nifedipine	Approved
ABCC2	Ofloxacin	Approved
ABCC2	Arsenic trioxide	Approved, Investigational
ABCC2	Phenobarbital	Approved
ABCC2	Levetiracetam	Approved, Investigational
ABCC2	Sparfloxacin	Approved
ABCC2	Paclitaxel	Approved, Vet Approved
ABCC2	Saquinavir	Approved, Investigational
ABCC2	Dexamethasone	Approved, Investigational, Vet Approved
ABCC2	Docetaxel	Approved, Investigational
ABCC2	Sunitinib	Approved, Investigational
ABCC2	Pranlukast	Approved
ABCC2	Ursodeoxycholic acid	Approved, Investigational
ABCC2	Cholic Acid	Approved
ABCC2	Fusidic Acid	Approved
ABCC2	Quercetin	Experimental
ABCC2	Pitavastatin	Approved

ABCC2	Gadoxetic acid	Approved
ABCC2	Canagliflozin	Approved
ABCC2	Avibactam	Approved
ABCC2	Eluxadoline	Approved
ABCC2	Indocyanine green	Approved
ABCC2	Levomefolic acid	Approved
ANXA2	Tenecteplase	Approved
CDK5	Alvocidib	Experimental, Investigational
JUN	Vinblastine	Approved
JUN	Pseudoephedrine	Approved
JUN	Irbesartan	Approved, Investigational
JUN	Arsenic trioxide	Approved, Investigational
MMP16	Marimastat	Approved, Investigational
PADI4	Azithromycin	Approved
PADI4	Doxycycline	Approved, Investigational, Vet Approved
PADI4	Tetracycline	Approved, Vet Approved
PADI4	Streptomycin	Approved, Vet Approved
PPIF	Cyclosporine	Approved, Investigational, Vet Approved
PRKCA	Tamoxifen	Approved
PRKCA	Ingenol Mebutate	Approved
PRKCA	Ellagic Acid	Investigational
PYGM	Alvocidib	Experimental, Investigational
RAC1	Dextromethorphan	Approved

Table V: DrugBank drug targets for LUAD vs. LUSC using MEGENA

Gene	Drug Name	Groups
FKBP1A	Pimecrolimus	Approved, Investigational
FKBP1A	Tacrolimus	Approved, Investigational
FKBP1A	Sirolimus	Approved, Investigational
FKBP1A	GPI-1485	Investigational
IDE	Bacitracin	Approved, Vet Approved
JUN	Vinblastine	Approved
JUN	Pseudoephedrine	Approved
JUN	Irbesartan	Approved, Investigational
JUN	Arsenic trioxide	Approved, Investigational
KCNC1	Dalfampridine	Approved
PPOX	Pidolic Acid	Experimental
SLC25A4	Clodronic Acid	Approved, Investigational, Vet Approved
VAMP1	Botulinum Toxin Type B	Approved

Table W: DrugBank drug targets for LUAD vs. LUSC using nGOseq

Gene	Drug Name	Groups

BCHE	Pegvisomant	Approved
BCHE	Ramipril	Approved
BCHE	Succinylcholine	Approved
BCHE	Mefloquine	Approved
BCHE	Tacrine	Withdrawn
BCHE	Sulpiride	Approved
BCHE	Ethopropazine	Approved
BCHE	Dipivefrin	Approved
BCHE	Chlorpromazine	Approved, Vet Approved
BCHE	Cisplatin	Approved
BCHE	Pyridostigmine	Approved
BCHE	Nizatidine	Approved
BCHE	Triamcinolone	Approved, Vet Approved
BCHE	Galantamine	Approved
BCHE	Isoflurophate	Approved, Withdrawn
BCHE	Diethylcarbamazine	Approved, Vet Approved
BCHE	Procaine	Approved, Investigational, Vet Approved
BCHE	Pralidoxime	Approved, Vet Approved
BCHE	Irinotecan	Approved, Investigational
BCHE	Malathion	Approved, Investigational
BCHE	Perindopril	Approved
BCHE	Terbutaline	Approved
BCHE	Oxybuprocaine	Approved
BCHE	Cyclopentolate	Approved
BCHE	Rivastigmine	Approved, Investigational
BCHE	Procainamide	Approved
BCHE	Echothiophate	Approved
BCHE	Trimethaphan	Approved
BCHE	Chloroprocaine	Approved
BCHE	Mivacurium	Approved
BCHE	Ephedrine	Approved
BCHE	Drospirenone	Approved
BCHE	Neostigmine	Approved, Vet Approved
BCHE	Bambuterol	Approved
BCHE	Butyric Acid	Experimental
BCHE	Clevidipine	Approved
BCHE	recombinant human GM-CSF	Investigational
BCHE	substance P	Investigational
BCHE	Capsaicin	Approved
BCHE	Mirabegron	Approved
BCHE	Aclidinium	Approved
GRM2	LY2140023	Investigational
HRSP12	Benzoic Acid	Approved
PARP1	Nicotinamide	Approved
PARP1	Veliparib	Investigational
PARP1	Olaparib	Approved
PARP1	Rucaparib	Approved, Investigational
PLD1	LAX-101	Investigational

PLD1	Miltefosine	Approved
PPIA	Cyclosporine	Approved, Investigational, Vet Approved
PRKCD	Tamoxifen	Approved
PRKCD	Ingenol Mebutate	Approved
PRKCI	Tamoxifen	Approved
RAC1	Dextromethorphan	Approved

Table X: DrugBank drug targets for Luminal A vs. Luminal B using MEGENA

Gene	Drug Name	Groups
FABP5	Palmitic Acid	Experimental
HPN	Coagulation factor VIIa Recombinant Human	Approved
HPN	Bentiromide	Withdrawn

Table Y: DrugBank drug targets for Luminal A vs. Luminal B using nGOseq

Gene	Drug Name	Groups
AVPR1B	Desmopressin	Approved
AVPR1B	Vasopressin	Approved
AVPR1B	Terlipressin	Approved, Investigational
BIRC5	LY2181308	Investigational
GRIN2A	Atomoxetine	Approved
GRIN2A	Pentobarbital	Approved, Vet Approved
GRIN2A	Pethidine	Approved
GRIN2A	Acamprosate	Approved, Investigational
GRIN2A	Felbamate	Approved
GRIN2A	Gabapentin	Approved, Investigational
GRIN2A	Memantine	Approved, Investigational
GRIN2A	Phenobarbital	Approved
GRIN2A	Tenocyclidine	Experimental, Illicit
GRIN2A	Milnacipran	Approved
GRIN2A	Acetylcysteine	Approved, Investigational
GRIN2A	Ketobemidone	Approved
HTR1F	Eletriptan	Approved, Investigational
HTR1F	Zolmitriptan	Approved, Investigational
HTR1F	Sumatriptan	Approved, Investigational
HTR1F	Ergotamine	Approved
HTR1F	Naratriptan	Approved, Investigational
HTR1F	Rizatriptan	Approved
HTR1F	Ergoloid mesylate	Approved
HTR1F	Ketamine	Approved, Vet Approved
HTR1F	Mianserin	Approved
HTR1F	Tiapride	Approved, Investigational
KCNH6	Ibutilide	Approved
KCNH6	Prazosin	Approved
KCNH6	Doxazosin	Approved

KCNH6	Miconazole	Approved, Investigational, Vet Approved
KCNH6	Terazosin	Approved
KCNK9	Doxapram	Approved, Vet Approved
KCNK9	Halothane	Approved, Vet Approved
NME1	Tenofovir disoproxil	Approved, Investigational
NME1	Lamivudine	Approved, Investigational
NME1	Adefovir Dipivoxil	Approved, Investigational
NPR3	Nesiritide	Approved, Investigational
PADI4	Azithromycin	Approved
PADI4	Doxycycline	Approved, Investigational, Vet Approved
PADI4	Tetracycline	Approved, Vet Approved
PADI4	Streptomycin	Approved, Vet Approved
PLG	Alteplase	Approved
PLG	Urokinase	Approved, Investigational, Withdrawn
PLG	Reteplase	Approved
PLG	Tenecteplase	Approved
PLG	Streptokinase	Approved
PLG	Tranexamic Acid	Approved
PLG	Aminocaproic Acid	Approved, Investigational
PLG	Desmoteplase	Investigational
PLG	Aprotinin	Approved, Withdrawn
TXNRD1	Arsenic trioxide	Approved, Investigational
TXNRD1	Flavin adenine dinucleotide	Approved
TXNRD1	Fotemustine	Experimental
TXNRD1	motexafin gadolinium	Investigational
TXNRD1	PX-12	Investigational

Table Z: DrugBank drug targets for pan-22 cancer multinomial modeling using MEGENA

Gene	Drug Name	Groups
ADAM28	Pidolic Acid	Experimental
COX7A1	Cholic Acid	Approved
CRAT	L-Carnitine	Approved
CYP17A1	Progesterone	Approved, Vet Approved
CYP17A1	Metoclopramide	Approved, Investigational
CYP17A1	Dexamethasone	Approved, Investigational, Vet Approved
CYP17A1	Aldosterone	Experimental
CYP17A1	Abiraterone	Approved
DDR2	Regorafenib	Approved
EGF	Sucralfate	Approved
EGF	Tesevatinib	Investigational
F2	Lepirudin	Approved
F2	Bivalirudin	Approved, Investigational
F2	Antihemophilic factor, human recombinant	Approved, Investigational
F2	Drotrecogin alfa	Approved, Investigational, Withdrawn
F2	Coagulation Factor IX (Recombinant)	Approved
F2	Argatroban	Approved, Investigational

F2	Proflavine	Approved
F2	Suramin	Approved
F2	Ximelagatran	Approved, Investigational, Withdrawn
F2	Thrombomodulin Alfa	Approved, Investigational
F2	Human C1-esterase inhibitor	Approved
F2	Dabigatran etexilate	Approved
F2	Conestat alfa	Approved
FGF1	Pentosan Polysulfate	Approved
FGF1	Amlexanox	Approved, Investigational
FGF1	Formic Acid	Experimental
FGF1	Pazopanib	Approved
FKBP1A	Pimecrolimus	Approved, Investigational
FKBP1A	Tacrolimus	Approved, Investigational
FKBP1A	Sirolimus	Approved, Investigational
FKBP1A	GPI-1485	Investigational
GJA1	Carvedilol	Approved, Investigational
GUCY1A2	Isosorbide Mononitrate	Approved
GUCY1A2	Riociguat	Approved
GUCY1A2	Methylene blue	Investigational
GUCY1A2	Plecanatide	Approved
HABP4	Hyaluronic acid	Approved, Vet Approved
JDP2	Pseudoephedrine	Approved
KCNQ1	Indapamide	Approved
KCNQ1	Azimilide	Investigational
KCNQ1	ICA-105665	Investigational
PIK3CA	XL765	Investigational
PTPN1	Tiludronic acid	Approved, Vet Approved
PTPN1	ISIS 113715	Investigational
SLCO1C1	Phenytoin	Approved, Vet Approved
SLCO1C1	Liothyronine	Approved, Vet Approved
SLCO1C1	Conjugated estrogens	Approved
SLCO1C1	Digoxin	Approved
SLCO1C1	Levothyroxine	Approved
SLCO1C1	Dextrothyroxine	Approved
SLCO1C1	Methotrexate	Approved
SLCO1C1	Diclofenac	Approved, Vet Approved
SLCO1C1	Estradiol	Approved, Investigational, Vet Approved
SLCO1C1	Dinoprostone	Approved
SLCO1C1	Meclofenamic acid	Approved, Vet Approved
SLCO1C1	Probenecid	Approved
VDAC2	PRLX 93936	Investigational

Table AA: DrugBank drug targets for pan-20 cancer survival using MEGENA

Gene	Drug Name	Groups
CDK4	Alvocidib	Experimental, Investigational
CDK4	Palbociclib	Approved

CDK4	Ribociclib	Approved
FCGR2A	Cetuximab	Approved
FCGR2A	Etanercept	Approved, Investigational
FCGR2A	Immune Globulin Human	Approved, Investigational
FCGR2A	Adalimumab	Approved
FCGR2A	Abciximab	Approved
FCGR2A	Gemtuzumab ozogamicin	Approved
FCGR2A	Trastuzumab	Approved, Investigational
FCGR2A	Rituximab	Approved
FCGR2A	Basiliximab	Approved, Investigational
FCGR2A	Muromonab	Approved, Investigational
FCGR2A	Ibritumomab tiuxetan	Approved
FCGR2A	Tositumomab	Approved
FCGR2A	Alemtuzumab	Approved, Investigational
FCGR2A	Alefacept	Approved, Withdrawn
FCGR2A	Efalizumab	Approved, Investigational
FCGR2A	Natalizumab	Approved, Investigational
FCGR2A	Palivizumab	Approved, Investigational
FCGR2A	Daclizumab	Approved, Investigational
FCGR2A	Bevacizumab	Approved, Investigational
IL1R1	Anakinra	Approved
MAP2K2	Bosutinib	Approved
MAP2K2	Trametinib	Approved
MAPK13	KC706	Investigational
PRKAG2	Acetylsalicylic acid	Approved, Vet Approved
SLC10A1	Cyclosporine	Approved, Investigational, Vet Approved
SLC10A1	Liothyronine	Approved, Vet Approved
SLC10A1	Conjugated estrogens	Approved
SLC10A1	Indomethacin	Approved, Investigational
SLC10A1	Progesterone	Approved, Vet Approved
SLC10A1	Testosterone	Approved, Investigational
SLC10A1	Bumetanide	Approved
SLC10A1	Ethinyl Estradiol	Approved
SLC10A1	Probenecid	Approved
SLC10A1	Ursodeoxycholic acid	Approved, Investigational
SLC10A1	Cholic Acid	Approved
SLC10A1	Deoxycholic Acid	Approved
SLC10A1	Pitavastatin	Approved
TGFB1	Hyaluronidase	Approved, Investigational
TGFB1	Hyaluronidase (Human Recombinant)	Approved
TUBB2B	CYT997	Investigational

Table AB: DrugBank drug targets for pan-22 cancer multinomial modeling using nGOseq

Gene	Drug Name	Groups
ACOX1	Flavin adenine dinucleotide	Approved
ACPP	Sipuleucel-T	Approved

CACNB2	Isradipine	Approved
CACNB2	Amlodipine	Approved
CACNB2	Nimodipine	Approved
CACNB2	Nisoldipine	Approved
CACNB2	Spironolactone	Approved
CACNB2	Nicardipine	Approved
CACNB2	Magnesium Sulfate	Approved, Vet Approved
CACNB2	Verapamil	Approved
CACNB2	Felodipine	Approved, Investigational
CACNB2	Nitrendipine	Approved
CACNB2	Nifedipine	Approved
CACNB2	Mibefradil	Withdrawn
CACNB2	Dronedarone	Approved
CACNB2	Nilvadipine	Approved
CD80	Abatacept	Approved
CD80	Galiximab	Investigational
CD80	Belatacept	Approved
CYP4F12	Fingolimod	Approved, Investigational
DDR2	Regorafenib	Approved
EPHA2	Dasatinib	Approved, Investigational
EPHA2	Regorafenib	Approved
HCK	Quercetin	Experimental
HCK	Bosutinib	Approved
HTR1F	Eletriptan	Approved, Investigational
HTR1F	Zolmitriptan	Approved, Investigational
HTR1F	Sumatriptan	Approved, Investigational
HTR1F	Ergotamine	Approved
HTR1F	Naratriptan	Approved, Investigational
HTR1F	Rizatriptan	Approved
HTR1F	Ergoloid mesylate	Approved
HTR1F	Ketamine	Approved, Vet Approved
HTR1F	Mianserin	Approved
HTR1F	Tiapride	Approved, Investigational
HTR3D	Ergoloid mesylate	Approved
HTR3D	Tiapride	Approved, Investigational
HTR7	Eletriptan	Approved, Investigational
HTR7	Ziprasidone	Approved
HTR7	Cabergoline	Approved
HTR7	Amitriptyline	Approved
HTR7	Olanzapine	Approved, Investigational
HTR7	Clozapine	Approved
HTR7	Mirtazapine	Approved
HTR7	Loxapine	Approved
HTR7	Imipramine	Approved
HTR7	Chlorpromazine	Approved, Vet Approved
HTR7	Epinastine	Approved, Investigational
HTR7	Maprotiline	Approved
HTR7	Dopamine	Approved

HTR7	Ergoloid mesylate	Approved
HTR7	Bromocriptine	Approved, Investigational
HTR7	Quetiapine	Approved
HTR7	Aripiprazole	Approved, Investigational
HTR7	Iloperidone	Approved
HTR7	Mianserin	Approved
HTR7	Asenapine	Approved
HTR7	Amisulpride	Approved, Investigational
HTR7	Lurasidone	Approved
HTR7	Vortioxetine	Approved
HTR7	Tiapride	Approved, Investigational
IL13RA2	AER001	Investigational
IL23A	Briakinumab	Investigational
IL23A	Ustekinumab	Approved, Investigational
KLK3	Ecallantide	Approved
KLK3	Human C1-esterase inhibitor	Approved
KLK3	Conestat alfa	Approved
PIK3R3	Isoprenaline	Approved
PIK3R3	SF1126	Investigational
PIM1	Quercetin	Experimental
PPIA	Cyclosporine	Approved, Investigational, Vet Approved
SLC22A5	Amphetamine	Approved, Illicit
SLC22A5	Nicotine	Approved
SLC22A5	Lidocaine	Approved, Vet Approved
TSHR	Thyrotropin Alfa	Approved, Vet Approved
TUBA1B	Epothilone D	Experimental, Investigational
TUBA1B	Patupilone	Experimental, Investigational
TUBA1B	CYT997	Investigational
TUBA3D	Epothilone D	Experimental, Investigational
TUBA3D	Patupilone	Experimental, Investigational
TUBA3D	CYT997	Investigational

Table AC: Pharmacodia drug targets for BRCA vs Normal using MEGENA

Gene	Drug Name	Description	Clinical Trials
EZH2	Tazemetostat	An enhancer Of zeste homolog 2 (EZH2) inhibitor potentially potentially for the treatment of non-Hodgkin's lymphoma (NHL).	Phase II
	CPI-1205	An enhancer of zeste homolog 2 (EZH2) inhibitor potentially for the treatment of B-cell lymphoma.	Phase I
	GSK-2816126	An enhancer of zeste homolog 2 (EZH2) inhibitor potentially for the treatment of diffuse large B cell lymphoma and follicular lymphoma.	Phase I
PTS	Nepicastat Hydrochloride	A dopamine beta-hydroxylase (DBH) inhibitor potentially for the treatment of post-traumatic stress disorder (PTSD) and substance abuse and dependence.	Phase II
TLR8	Motolimod	A toll-like receptor 8 (TLR8) agonist potentially for the treatment of ovarian cancer, peritoneum cancers and head and neck cancer.	Phase II

	MEDI-9197	A dual agonist of toll-like receptor 7 (TLR7) and toll-like receptor 8 (TLR8) potentially for the treatment of solid tumors.	Phase I
	IMO-8400	A TLR7, TLR8 and TLR9 antagonist potentially for the treatment of dermatomyositis, Waldenstrom's macroglobulinemia, diffuse large B-cell lymphoma.	Phase II
	VTX-1463	A toll-like receptor 8 (TLR8) agonist potentially for the treatment of allergic rhinitis.	Phase I
	Resiquimod	A toll-like receptor 7 (TLR7) and toll-like receptor 8 (TLR8) agonist potentially for treatment of cutaneous T-cell lymphoma and actinic keratosis.	Phase II

Table AD: Pharmacodia drug targets for BRCA vs Normal using nGOseq

Gene	Drug Name	Description	Clinical Trials
C6	Citarinostat	A histone deacetylase 6 (HDAC6) inhibitor potentially for the treatment of multiple myeloma (MM).	Phase II
DRD2	Lu-AF-35700	A dopamine D2 receptor (DRD2) modulator potentially for the treatment of schizophrenia.	Phase III
	Cariprazine Hydrochloride	A dopamine receptor D2 (DRD2) / serotonin 5-HT1A receptor agonist and serotonin 5-HT2A receptor antagonist used to treat schizophrenia and bipolar I disorder.	Approved
	Aplindore Fumarate	A dopamine D2 receptor (DRD2) agonist potentially for the treatment of Parkinson's disease and restless legs syndrome.	Phase II
	DSP-1200	An alpha 2a adrenergic receptor (ADRA2A) antagonist, a dopamine D2 receptor (DRD2) antagonist and a serotonin 2A receptor antagonist potentially for the treatment of depressive disorders.	Phase I
	PF-217830	A dopamine D2 receptor (DRD2) agonist, serotonin 5-HT1A receptor agonist and serotonin 5-HT2A receptor antagonist potentially for the treatment of schizophrenia.	Phase II
	ATC-1906	A dopamine D2 receptor (DRD2) antagonist and dopamine D3 receptor (DRD3) antagonist potentially for the treatment of gastroparesis.	Phase I
	Perospirone Hydrochloride Hydrate	An antagonist of dopamine D2 receptor (DRD2) and serotonin 5-HT2A receptor used to treat schizophrenia and bipolar mania.	Approved
	Ocaperidone	A 5-hydroxytryptamine receptor 2A (5-HT2A receptor) antagonist and dopamine D2 receptor (DRD2) antagonist potentially for the treatment of schizophrenia.	Phase II
	JNJ-37822681	A dopamine D2 receptor (DRD2) antagonist potentially for the treatment of schizophrenia.	Phase II
	Ziprasidone	A dopamine D2 receptor (DRD2) and serotonin 5-HT2 receptor antagonist used to treat schizophrenia and bipolar I disorder.	Approved
	Roxindole	A dopamine D2 receptor (DRD2) agonist, serotonin 5-HT1A receptor agonist and serotonin uptake inhibitor potentially for the treatment of psychotic disorders.	Phase III
	Pergolide Mesilate	A D(2) dopamine receptor (DRD2) agonist and D(1) dopamine receptor (DRD1) agonist used to treat Parkinson's disease.	Approved
	Prochlorperazine edisylate	A dopamine D2 receptor (DRD2) antagonist used to treat schizophrenia and anxiety disorder.	Approved
	JNJ-37822681	A dopamine D2 receptor (DRD2) antagonist potentially for the treatment of schizophrenia.	Phase II

ITK	JTE-051	An IL2 inducible T-cell kinase (ITK) inhibitor potentially for the treatment of autoimmune diseases, hypersensitivity and rheumatoid arthritis (RA).	Phase II
KLB	RG-7992	A bispecific antibody targeting KLB and FGFR1 potentially for the treatment of type 2 diabetes.	Phase I
PDC	CPI-613	An oxoglutarate dehydrogenase complex (OGDC) and pyruvate dehydrogenase complex (PDC) inhibitor potentially for the treatment of small cell lung cancer (SCLC), myelodysplastic syndrome (MDS) and metastatic pancreatic cancer.	Phase II
PDE2A	OSI-461	A Phosphodiesterase 2A/5A (PDE2A/5A) inhibitor potentially for the treatment of renal cell carcinoma, prostate cancer, Crohn's disease, and chronic lymphocytic leukemia (CLL).	Phase II
	TAK-915	A phosphodiesterase 2A (PDE2A) inhibitor potentially for the treatment of schizophrenia.	Phase I
	PF-05180999	A phosphodiesterase PDE2A inhibitor potentially for the treatment of migraine and schizophrenia.	Phase I
	ND-7001	A phosphodiesterase PDE2A inhibitor potentially for the treatment of anxiety and depression.	Phase I
	Fluticasone Propionate	A phosphodiesterase 2A (PDE2A) agonist and glucocorticoid receptor (GR) agonist used for the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses.	Approved
TGFB2	ISTH-0036	A TGFB2 inhibitor potentially for the treatment of glaucoma.	Phase I

Table AE: Pharmacodia drug targets for ER+ vs. ER- using MEGENA

Gene	Drug Name	Description	Clinical Trials
CD40	ADC-1013	An agonistic CD40 antibody potentially for the treatment of solid tumours.	Phase I
	Bleselumab	A CD40 targeted antibody potentially for the treatment of renal transplant rejection and other transplant rejection.	Phase II
	SEA-CD40	A CD40 targeted antibody potentially for the treatment of haematological malignancies and solid tumours.	Phase I
	Lucatumumab	A CD40 targeted antibody potentially for the treatment of chronic lymphocytic leukaemia, follicular lymphoma and multiple myeloma.	Phase II
	CP-870893	An agonistic CD40 antibody potentially for the treatment of malignant melanoma.	Phase I
	BI-655064	A CD40 targeted monoclonal antibody potentially for the treatment of immune thrombocytopenic purpura, lupus nephritis and rheumatoid arthritis.	Phase II
	RG-7876	A CD40 agonist potentially for the treatment of pancreatic cancer and some other solid tumours.	Phase I
	Dacetuzumab	A CD40 targeted antibody potentially for the treatment of diffuse large B cell lymphoma.	Phase II
	BMS-986090	An anti-CD40 antibody potentially for the treatment of immunological disorders.	Phase I
	FFP-104	A CD40 targeted antibody potentially for the treatment of Crohn's disease and primary biliary cirrhosis.	Phase II
	APX-005M	A CD40 agonistic antibody potentially for the treatment of solid tumors.	Phase I
	BIIB-063	A CD40 ligand (CD40L) inhibitor potentially for the treatment of Sjoegren's syndrome.	Phase I

	MEDI-4920	An anti-CD40L-Tn3 fusion protein potentially for the treatment of primary Sjogren's syndrome and rheumatoid arthritis.	Phase I
	Letolizumab	A CD40 ligand inhibitor potentially for the treatment of immune thrombocytopenic purpura.	Phase II
	Dapirolizumab pegol	A CD40 ligand (CD40L) inhibitor potentially for the treatment of systemic lupus erythematosus (SLE).	Phase II
CX3CL1	E-6011	A fractalkine (CX3CL1) inhibitor potentially for the treatment of Crohn's disease, rheumatoid arthritis.	Phase II
	AB-001	An anti-fractalkine (CX3CL1; FKN) for the treatment of chronic low back pain, musculoskeletal pain and arthritis.	Phase II
CYP2D6	Bupropion Hydrochloride; Amfebutamone hydrochloride	A CYP2D6 inhibitor used to treat depression.	Approved
	Halofantrine Hydrochloride	A CYP2D6 inhibitor used to treat plasmodium falciparum malaria and plasmodium vivax malaria.	Approved
	Hydralazine hydrochloride	A CYP2D6 inhibitor used to treat hypertension.	Approved
PDE10A	TAK-063	A phosphodiesterase 10A (PDE10A) inhibitor potentially for the treatment of schizophrenia.	Phase II
	PBF-999	An adenosine A2A receptor antagonist and PDE10A inhibitor potentially for the treatment of Huntington's disease.	Phase I
	TAK-063	A phosphodiesterase 10A (PDE10A) inhibitor potentially for the treatment of schizophrenia.	Phase II
	OMS-643762	A phosphodiesterase 10A (PDE10A) inhibitor potentially for the treatment of schizophrenia and Huntington's disease.	Phase II
	PF-02545920	A phosphodiesterase 10A (PDE10A) inhibitor potentially for the treatment of Huntington's Disease.	Phase II
	AMG-579	A phosphodiesterase PDE10A inhibitor potentially for the treatment of schizoaffective disorder and schizophrenia.	Phase I

Table AF: Pharmacodia drug targets for ER+ vs. ER- using MEGENA nGOseq

Gene	Drug Name	Description	Clinical Trials
ADORA2B	ATL-844	An adenosine A2b receptor (ADORA2B) antagonist potentially for the treatment of asthma and type-2 diabetes.	Phase II
	GS-6201	An adenosine A2B receptor (ADORA2B) antagonist potentially for the treatment of pulmonary diseases.	Phase I
	LAS-101057	An adenosine A2B receptor (ADORA2B) antagonist potentially for the treatment of asthma.	Phase I
ALK	ZL-2302	An anaplastic lymphoma kinase (ALK) inhibitor potentially for the treatment of anaplastic lymphoma kinase (ALK)-positive NSCLC.	IND Filing
	Foritinib Succinate	An anaplastic lymphoma kinase (ALK) inhibitor potentially for the treatment of lung cancer.	Phase I
	Lorlatinib	An ALK inhibitor and ROS1 inhibitor potentially for the treatment of non-small cell lung cancer.	Phase III
	Ceritinib	A kinase inhibitor used to treat ALK-positive metastatic non-small cell lung cancer (NSCLC) following treatment with crizotinib.	Approved
	TSR-011	A TrKA/ALK inhibitor potentially for the treatment of solid tumours and lymphoma.	Phase II

	Ensartinib	An anaplastic lymphoma kinase (ALK) inhibitor potentially for the treatment of central nervous system tumors and non small cell lung cancer.	Phase III
	EBI-215	An anaplastic lymphoma kinase (ALK) inhibitor for the treatment of non small cell lung cancer (NSCLC).	Phase I
	TQ-B3101	A anaplastic lymphoma kinase (ALK) inhibitor potentially for the treatment of non small cell lung cancer (NSCLC), gastric cancer and lymphoma.	Phase I
	CEP-37440	An ALK and FAK inhibitor potentially for the treatment of solid tumors.	Phase I
	PLB-1003	An nnaplastic lymphoma kinase (ALK) inhibitor potentially for the treatment of ALK positive non small cell lung cancer (NSCLC).	Phase I
	Entrectinib	A multi-kinase (ALK, TrkB, TrkC, TrkA, ROS1) inhibitor potentially for the treatment of non small cell lung cancer (NSCLC) and colorectal cancer.	Phase II
	TPX-0005	A multi-target ALK/ROS1/TRK/SRC inhibitor potentially for the treatment of non small cell lung cancer (NSCLC) and solid tumours.	Phase II
	ASP-3026	An ALK inhibitor potentially for the treatment of solid tumors and B-cell lymphoma.	Phase I
	Alectinib Hydrochloride	A tyrosine kinase (ALK and RET) inhibitor used to treat non small cell lung cancer.	Approved
	Frizotinib	An anaplastic lymphoma kinase (ALK) inhibitor potentially for the treatment of non small cell lung cancer (NSCLC).	Phase I
	Brigatinib	A multi-target inhibitor used for the treament of ALK+ non-small cell lung cancer (NSCLC).	Approved
CA2	Brinzolamide	A carbonic anhydrase 2 (CA2) inhibitor used to treat ocular hypertension and open-angle glaucoma.	Approved
CDK7	SY-1365	A cyclin-dependent kinase 7 (CDK7) inhibitor potentially for the treatment of solid tumours.	Phase I
ENPP3	AGS-16C3F	A ENPP3 targeted antibody conjugated to MMAF potentially for the treatment of renal cell carcinoma.	Phase II
JAK2	Gandotinib	A Janus kinase 2 (JAK2) inhibitor potentially for the treatment of myeloproliferative disorders (MPD).	Phase II
	Ruxolitinib Phosphate	An inhibitor of Janus kinase 1 (JAK1) and Janus kinase 2 (JAK2) used to treat bone marrow cancer.	Approved
	BMS-911543	A Janus kinase 2 (JAK2) inhibitor potentially for the treatment of myelofibrosis.	Phase II
	Fedratinib	A JAK2/FLT3 inhibitor potentially for the treatment of myelofibrosis, essential thrombocythaemia (ET) and solid tumours.	Phase III
	Lestaurtinib	An Fms-like tyrosine kinase 3 (FLT-3) inhibitor and a janus kinase 2 (JAK2) inhibitor potentially for the treatment of acute lymphoblastic leukaemia (ALL).	Phase III
	BMS-911543	A Janus kinase 2 (JAK2) inhibitor potentially for the treatment of myelofibrosis.	Phase II
	Baricitinib	An inhibitor of Janus kinase 1(JAK1) and Janus kinase 2(JAK2) potentially for the treatment of rheumatoid arthritis.	Approved
	Itacitinib	A Janus kinase (JAK1, JAK2) inhibitor potentially for the treatment of non-small cell lung cancer and pancreatic cancer.	Phase II
	AC-410	A janus kinase 2 (JAK2) inhibitor potentially for the treatment of cancer, autoimmune and inflammatory diseases.	Phase I
PGF	Aflibercept	A vascular endothelial growth factor A (VEGFA) and placental growth factor (PGF) inhibitor used to treat neovascular (Wet) age-related macular degeneration, macular edema following retinal vein occlusion and diabetic macularedema.	Approved

	Anti-placental growth factor monoclonal antibody	A placental growth factor (PGF) inhibitor potentially for the treatment of diabetic macular oedema and medulloblastoma.	Phase II
	Ziv-aflibercept	A vascular endothelial growth factor A (VEGFA) and placental growth factor (PGF) inhibitor used to treat metastatic colorectal cancer.	Approved
	Latanoprostene Bunod	A nitric oxide-donating prostaglandin F2-alpha (PGF2-α) analogue potentially for the treatment of glaucoma in patients with open angle glaucoma and ocular hypertension.	NDA Filing
PLAU	BAY-1129980	A Ly6/PLAUR domain-containing protein 3 (LYPD3/C4.4a) targeted antibody conjugated to auristatin potentially for the treatment of cancer.	Phase I

Table AG: Pharmacodia drug targets for KIRP vs. KIRC using MEGENA

Gene	Drug Name	Description	Clinical Trials
CCR1	BX-471	A C-C motif chemokine receptor 1 (CCR1) antagonist potentially for the treatment of multiple myeloma, multiple sclerosis, endometriosis, psoriasis and Alzheimer's disease (AD).	Phase II
	MLN-3701	A CCR1 receptor antagonist potentially for the treatment of inflammation and rheumatoid arthritis (RA).	Phase I
	CCX-354	A C-C motif chemokine receptor 1 (CCR1) antagonist potentially for the treatment of rheumatoid arthritis.	Phase II
	MLN-3897	A chemokine CCR1 antagonist potentially for the treatment of multiple sclerosis and rheumatoid arthritis.	Phase I
PDC	CPI-613	An oxoglutarate dehydrogenase complex (OGDC) and pyruvate dehydrogenase complex (PDC) inhibitor potentially for the treatment of small cell lung cancer (SCLC), myelodysplastic syndrome (MDS) and metastatic pancreatic cancer.	Phase II

Table AH: Pharmacodia drug targets for KIRP vs. KIRC using nGOseq

Gene	Drug Name	Description	Clinical Trials
ATM	AZD-0156	An ataxia telangiectasia mutated kinase (ATM) inhibitor potentially for the treatment of solid tumors.	Phase I
MET	Onartuzumab	A MET blocker used to treat metastatic non-small cell lung cancer and gastric cancer.	Phase III
	LY-3164530	An epidermal growth factor receptor (EGFR) and mesenchymal-epithelial transition factor (MET) antagonist potentially for the treatment of cancer.	Phase I
	SGX-523	A HGFR (MET; c-Met) inhibitor potentially for the treatment of patients with solid tumours.	Phase I
MIR21	RG-012	A microRNA 21 (MIR21) inhibitor potentially for the treatment of nephritis.	Phase II

PAK 4	KPT-9274	A nicotinamide phosphoribosyltransferase (NAMPT) inhibitor and p21-activated kinase 4 (PAK4) inhibitor potentially for the treatment of non-Hodgkin B-cell lymphomas and solid tumours.	Phase I
	PF-3758309	A serine/threonine-protein kinase PAK4 inhibitor potentially for the treatment of solid tumours.	Phase I

Table AI: Pharmacodia drug targets for LUAD vs. LUSC using MEGENA

Gene	Drug Name	Description	Clinical Trials
CTSC	AZD-7986	A Cathepsin C (CTSC) modulator potentially for the treatment of chronic obstructive pulmonary disease.	Phase I
KCNC1	AUT-00063	A voltage-gated potassium channel subunit Kv3.1 (KCNC1) modulator potentially for the treatment of hearing loss and tinnitus.	Phase II

Table AJ: Pharmacodia drug targets for LUAD vs. LUSC using nGOseq

Gene	Drug Name	Description	Clinical Trials
GHSR	Relamorelin	A growth hormone secretagogue receptor (GHSR) agonist potentially for the treatment of gastroparesis diabeticorum, anorexia nervosa and constipation.	Phase II
	GTP-200	A growth hormone releasing factor (GHSR) agonist potentially for the treatment of cachexia.	Phase II
MST1R	ASLAN-002	A macrophage stimulating 1 receptor (MST1R) and hepatocyte growth factor receptor (c-Met/HGFR) inhibitor potentially for the treatment of gastric and breast cancer.	Phase II
	MK-8033	A c-MET and MST1R inhibitor potentially for the treatment of solid tumors.	Phase I
USP1	VLX-600	An UCHL5 and USP14 protein inhibitor potentially for the treatment of solid tumours.	Phase I

Table AK: Pharmacodia drug targets for Luminal A vs. Luminal B using MEGENA

Gene	Drug Name	Description	Clinical Trials
SMO	Glasdegib	A smoothened (SMO) receptor antagonist potentially for treatment of myelodysplastic syndrome (MDS), chronic myeloid leukemia (CML) and acute myeloid leukemia(AML).	Phase II
	BMS-833923	A smoothened (SMO) receptor antagonist potentially for the treatment of basal cell nevus syndrome.	Phase II
	LEQ-506	A SMO receptor antagonist potentially for the treatment of advanced solid tumors.	Phase I
	BMS-833923	A smoothened (SMO) receptor antagonist potentially for the treatment of basal cell nevus syndrome.	Phase II

	Cipromedegib	A smoothened receptor (SMO) inhibitor potentially for the treatment of gastric cancer, lung cancer, medulloblastoma and basal cell carcinoma (BCC).	Phase I
	CUR-61414	A smoothened (SMO) receptor antagonist potentially for the treatment of basal cell carcinoma (BCC).	Phase I
	Vismodegib	A smoothened receptor (SMO) antagonist used to treat basal cell carcinoma (BCC).	Approved
	Taladegib Hydrochloride	A smoothened (SMO) receptor antagonist potentially for the treatment of esophageal cancer and small cell lung cancer (SCLC).	Phase II
	TAK-441	A smoothened receptor (SMO) antagonist potentially for the treatment of Solid tumours.	Phase I
	Sonidegib Phosphate	A smoothened receptor (SMO) antagonist used to treat advanced basal cell carcinoma (BCC).	Approved

Table AL: Pharmacodia drug targets for Luminal A vs. Luminal B using nGOseq

Gene	Drug Name	Description	Clinical Trials
ATM	AZD-0156	An ataxia telangiectasia mutated kinase (ATM) inhibitor potentially for the treatment of solid tumors.	Phase I
AVPR1B	Nelivaptan	A vasopressin 1B receptor (AVPR1B) antagonist potentially for the treatment of generalised anxiety disorder and major depressive disorder.	Phase II
	ABT-436	A vasopressin 1B receptor (AVPR1B) antagonist potentially for the treatment of alcohol dependence.	Phase II
BIRC5	EZN-3042	A BIRC5 protein inhibitor potentially for the treatment of acute lymphoblastic leukaemia, lymphoma and solid tumours.	Phase I
	SVN53-67/M57-KLH peptide vaccine	A peptide mimic vaccine targeting survivin (BIRC5) for the treatment of glioblastoma.	Phase II
	Terameprocol	A baculoviral inhibitor of apoptosis repeat-containing 5 (BIRC5) inhibitor potentially for the treatment of cervical intraepithelial neoplasia, glioma and human papillomavirus infections.	Phase II
	Sepantronium Bromide	A baculoviral inhibitor of apoptosis repeat-containing 5 (BIRC5) inhibitor potentially for the treatment of cancer.	Phase II
C5AR1	PMX-53	A complement component 5a receptor 1 (C5AR1) antagonist potentially for the treatment of osteoarthritis (OA), rheumatoid arthritis and psoriasis.	Phase II
CX3CR1	BI-655088	A nanobody targeting C-X3-C motif chemokine receptor 1 (CX3CR1) potentially for the treatment of kidney disorders.	Phase I
GPC3	ERY-974	A bispecific antibody targeting glypican3 (GPC3) and CD3 potentially for the treatment of solid tumors.	Phase I
	Codrituzumab	A glypican 3 (GPC3) targeted antibody potentially for the treatment of metastatic hepatocellular carcinoma.	Phase II
LPAR3	SAR-100842	A lysophosphatidic acid receptor (LPAR1, LPAR3) antagonist potentially for the treatment of systemic scleroderma.	Phase II
NPR3	Linaclotide	A natriuretic peptide receptor 3 (NPR3) agonist used to treat irritable bowel syndrome with constipation (IBS-C) and chronic idiopathic constipation (CIC).	Approved

TNFRSF 18	MEDI-1873	An antibody targeting tumour necrosis factor receptor superfamily member 18 (TNFRSF18, GITR) potentially for the treatment of solid tumour.	Phase I
XCR1	Reparixin	A inhibitor of C-X-C motif chemokine receptor 1/2 (CXCR1/2) potentially for the treatment of delayed graft function.	Phase III
	Navarixin	A C-X-C motif chemokine receptor 1 (CXCR1) antagonist and C-X-C motif chemokine receptor 2 (CXCR2) antagonist potentially for the treatment of chronic obstructive pulmonary disease (COPD), asthma and psoriasis.	Phase II
	Ladarixin Sodium	A C-X-C motif chemokine receptor (CXCR1, CXCR2) antagonist potentially for the treatment of type I diabetes.	Phase II
	CXCR1/2 ligands antibody	A CXCR1/2 ligands inhibitor potentially for the treatment of immunological disorders.	Phase I

Table AM: Pharmacodia drug targets for pan-22 cancer multinomial modeling using MEGENA.

Gene	Drug Name	Description	Clinical Trials
AGT	Lomeguatrib	An O6-alkylguanine-DNA alkyltransferase (AGT/MGMT/AGAT) inhibitor potentially for the treatment of metastatic melanoma and metastatic colorectal cancer.	Phase II
ANGPTL3	Evinacumab	An angiopoietin like 3 (ANGPTL3) targeted antibody potentially for the treatment of hypertriglyceridemia and hypercholesterolemia.	Phase II
	IONIS-ANGPTL3Rx	An angiopoietin like 3 (ANGPTL3) protein inhibitor potentially for the treatment of hyperlipoproteinaemia type IIa.	Phase II
CYP17A1	ODM-204	An androgen receptor (AR) antagonist and steroid 17-alpha-hydroxylase (CYP17A1) inhibitor potentially for the treatment of prostate cancer.	Phase II
	Abiraterone Acetate	A prodrug of abiraterone with CYP17A1 enzyme inhibition used to treat prostate cancer.	Approved
	Orteronel	A steroid 17-alpha-hydroxylase (CYP17A1) inhibitor potentially for the treatment of prostate cancer.	Phase III
	Orteronel	A steroid 17-alpha-hydroxylase (CYP17A1) inhibitor potentially for the treatment of prostate cancer.	Phase III
	ASN-001	A steroid 17-alpha-hydroxylase (CYP17A1) inhibitor potentially for the treatment of prostate cancer.	Phase II
EGF	Panitumumab	An epidermal growth factor receptor (EGFR) antagonist used to treat wild-type KRAS (exon 2) metastatic colorectal cancer (mCRC).	Approved
	Recombinant epidermal growth factor (Bharat Biotech)	An epidermal growth factor receptor (EGFR) agonist used to treat burns, diabetic foot ulcer and wounds.	Approved
	KHK-2866	A heparin binding EGF like growth factor (HB-EGF) inhibitor for the treatment of ovarian cancer and some other solid tumour.	Phase I
	Recombinant epidermal growth factor (Bharat Biotech)	An epidermal growth factor receptor (EGFR) agonist used to treat burns, diabetic foot ulcer and wounds.	Approved

	Lapatinib Ditosylate Hydrate	A dual epidermal growth factor receptor (EGFR) and human epidermal growth factor receptor 2 (ErbB2/HER2) inhibitor used to treat breast cancer and other solid tumours.	Approved
	Tarloxotinib Bromide	A EGFR/ErbB2/ErbB4 inhibitor potentially for the treatment of squamous cell carcinoma of head and neck and non-small cell lung cancer.	Phase II
	Cetuximab biosimilar (Shanghai Zhangjiang Biotechnology)	An epidermal growth factor receptor (EGFR) antagonist potentially for the treatment of colorectal cancer.	Phase III
	Epitinib Succinate	An EGFR inhibitor potentially for the treatment of solid tumours and non small cell lung cancer (NSCLC).	Phase II
	RM-1929	An EGFR targeted antibody conjugated to IR-700 potentially for the treatment of head and neck cancer.	Phase I
	Allitinib Tosylate	An EGFR and ErbB2 inhibitor potentially for the treatment of lung cancer and breast cancer.	Phase II
	Cetuximab	An epidermal growth factor receptor (EGFR) antagonist used to treat colorectal cancer, head and neck cancer.	Approved
	Theliatinib	An epidermal growth factor receptor (EGFR) inhibitor potentially for the treatment of esophagus cancer and other advanced solid tumours.	Phase I
FGF1	Sprifermin	A recombinant human fibroblast growth factor 18 (FGF18) potentially for the treatment of osteoarthritis.	Phase II
GJA1	CODA-001	A gap junction alpha-1 protein (GJA1) inhibitor potentially for the treatment of diabetic foot ulcer, leg ulcer and wounds.	Phase II
MGMT	Lomeguatrib	An O6-alkylguanine-DNA alkyltransferase (AGT/MGMT/AGAT) inhibitor potentially for the treatment of metastatic melanoma and metastatic colorectal cancer.	Phase II
	O6-Benzylguanine	A O6-alkylguanine-DNA alkyltransferase (MGMT) potentially for the treatment of glioblastoma multiforme.	Phase II
PTPN1	KQ-791	A protein tyrosine phosphatase non receptor type 1 (PTPN1) antagonist potentially for the treatment of type 2 diabetes and insulin resistance.	Phase I

Table AN: Pharmacodia drug targets for pan-20 cancer survival using MEGENA

Gene	Drug Name	Description	Clinical Trials
CDK 4	Trilaciclib Hydrochloride	A cyclin-dependent kinase 4 (CDK4) inhibitor and cyclin-dependent kinase 6 (CDK6) inhibitor potentially for the treatment of small cell lung cancer.	Phase II
	Palbociclib Isethionate	A cyclin-dependent kinase (CDK4/6) inhibitor potentially for the treatment of central nervous system tumors.	Phase I
	G1T-38	A cyclin-dependent kinase 4 (CDK4) inhibitor and a cyclin-dependent kinase 6 (CDK6) inhibitor potentially for the treatment of cancer.	Phase II
	SHR-6390	A CDK4/6 inhibitor potentially for the treatment of melanoma and malignancies.	Phase I
	Palbociclib	A cyclin-dependent kinase (CDK4/6) inhibitor used to treat advanced breast cancer.	Approved
	Birociclib	A CDK4/6 inhibitor potentially for the treatment of breast cancer and malignant brain tumor.	Phase I

	MM-D37K	A cyclin-dependent kinase 4/6 (CDK4/6) inhibitor ptentially for the treatment of bladder cancer, gastrointestinal cancer, glioblastoma and malignant melanoma.	Phase II
	Riviciclib	A CDK4 and CDK9 inhibitor potentially for the treatment of breast cancer and radiation induced mucositis in head and neck cancer.	Phase III
	Abemaciclib	A CDK4/6 inhibitor used for the treatment of HR-positive, HER2-negative advanced or metastatic breast cancer.	Approved
	Ribociclib Succinate	A cyclin-dependent kinase 4/6 (CDK4/6) inhibitor used for the treatment of postmenopausal women with hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative advanced or metastatic breast cancer.	Approved
OLR1	EC-1456	A folate receptor 1 inhibitor (FOLR1) potentially for the treatment of solid tumours and non small cell lung cancer (NSCLC).	Phase I
	Mirvetuximab soravtansine	A FOLR1 targeted antibody conjugated to maytansinoid DM4 potentially for the treatment of fallopian tube cancer, ovarian cancer, peritoneal cancer and endometrial cancer.	Phase II
TRPV4	GSK-2798745	A transient receptor potential cation channel subfamily V member 4 (TRPV4) antagonist potentially for the treatment of heart failure and pulmonary edema.	Phase II

Table AO: Pharmacodia drug targets for pan-20 cancer survival using nGOseq

Gene	Drug Name	Description	Clinical Trials
C2	Vistusertib	A mammalian target of rapamycin complex 1 (mTORC1) inhibitor and mammalian target of rapamycin complex 2 (mTORC2) inhibitor potentially for the treatment of solid tumours.	Phase II
CD80	Galiximab	A CD80 targeted antibody potentially for the treatment of autoimmune disorders, non-Hodgkin's lymphoma and psoriasis.	Phase II
	AV-1142742	A cluster of differentiation 80 (CD80) inhibitor potentially for the treatment of autoimmune disease (AID).	Phase II
MIP	Macrophage inflammatory protein-1α analogue	A (MIP)-1α analogue potentially for the treatment of breast cancer chemo/radiotherapy-induced myelosuppression, HIV infections and myeloid leukaemia.	Phase II
	ECI-301	A derivative of human chemokine MIP-1α potentially for the treatment of hepatocellular carcinoma and cancer.	Phase I
SCARB1	ITX-5061	A scavenger receptor B1 antagonist (SCARB1) potentially for the treatment of HCV infection.	Phase II

[0135] As used herein, "plurality" means two or more and includes a combination of 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, or more or any range inclusive.

[0136] **Methods**

[0137] Methods of identifying therapeutic or drug targets

[0138] Methods of the invention include identifying at least one therapeutic or drug target for at least one cancer type (*e.g.*, any of the cancers listed in Table A). The methods also include binomial comparisons to classify cancers of the same tissue of origin or between molecular subtypes. Such binomial comparisons include, LUAD vs. LUSC, KIRC vs. KIRP, ER+ vs. ER- BRCA subtypes, and Luminal A vs. Luminal B BRCA subtypes.

[0139] The methods can identify at least two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty, twenty-one, twenty-two, twenty-three, twenty-four, twenty-five, twenty-six, twenty-seven, twenty-eight, twenty-nine, thirty, thirty-one, thirty-two, thirty-three, thirty-four, thirty-five, thirty-six, thirty-seven, thirty-eight, thirty-nine, forty, forty-one, forty-two, forty-three, forty-four, forty-five, forty-six, forty-seven, forty-eight, forty-nine, fifty, fifty-one, fifty-two, fifty-three, fifty-four, fifty-five, fifty-six, fifty-seven, or more therapeutic or drug targets. The methods can comprise receiving or obtaining at least one, two, three, four, or more data sets from at least one cancer type (e.g., any of the cancers listed in Table A). The data sets can comprise whole genome sequencing data, whole exome sequencing data, RNA-Seq data, miRNA-SEQ data, cDNA sequencing data, and Methylation Array data from a company, hospital, researcher, and the like, who is interested in identifying biologically relevant sets of gens whose collective state correlates with a given phenotype. Once received, downloaded, or obtained, the data sets are processed according to the methods, systems, algorithms, programs, and codes set forth above to identify therapeutic or drug targets or genes. The methods, systems, algorithms, programs, and codes enable perfect and near perfect classifications of multiple human tumor type designations, independent of tissue-specific annotation, to identify known and previously undescribed

integrated molecular signatures of pan-cancer etiology and patient survival, thus creating a new archetype for biological and therapeutic discovery identify at least one therapeutic or drug target.

[0140] In some embodiments, the therapeutic or drug targets or genes are set forth in Table B, Table C, Table D, Table E, Table F, Table G, Table H, Table I, Table J, Table K, Table L, Table M, Table N, Table O, Table AP, Table AQ, Table AR, Table AS, Table AT, Table AU, Table AV, Table AX, Table AY, Table AZ, Table AAA, Table AAB, Table AAC, Table AAD, Table AAF, Table AAG, Table AAH, Table AAJ, Table AAK, Table AAL, Table AAM, Table AAN, Table AAO, or combinations thereof.

[0141] In certain embodiments, the therapeutic or drug targets or genes for BRCA are set forth in Appendix A, Appendix B, Table B, Table C, Table AT, Table AU, Table AV, or combinations thereof. In some embodiments, the at least one therapeutic or drug target for BRCA is at least fifty therapeutic or drug targets, wherein said at least fifty therapeutic or drug targets correspond to the fifty genes listed in Table B. In some embodiments, the at least one therapeutic or drug target for BRCA is at least fifty-two therapeutic or drug targets, wherein said at least fifty-two therapeutic or drug targets correspond to the fifty-two genes listed in Table C. In some embodiments, the at least one therapeutic or drug target for BRCA is at least twenty-three therapeutic or drug targets, wherein said at least twenty-three therapeutic or drug targets correspond to the twenty-three genes listed in Table AT. In some embodiments, the at least one therapeutic or drug target for BRCA is at least fourteen therapeutic or drug targets, wherein said at least fourteen therapeutic or drug targets correspond to the fourteen genes listed in Table AU. In some embodiments, the at least one therapeutic or drug target for BRCA is at least five therapeutic or drug targets, wherein said at least five therapeutic or drug targets correspond to the at least genes listed in Table AV.

[0142] In certain embodiments, the therapeutic or drug targets of genes for LUAD or LUSC are set forth in Appendix G, Appendix H, Table H, Table I, Table AAB, Table AAC, Table AAD, or combinations thereof. In some embodiments, the at least one therapeutic or drug target for LUAD or LUSC is at least fifty therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty genes listed Table H. In some embodiments, the at least one therapeutic or drug target for LUAD or LUSC is at least fifty therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty genes listed Table E. In some embodiments, the at least one therapeutic or drug target for LUAD or LUSC is at least twenty-five therapeutic or drug targets, wherein said at least twenty-five therapeutic or drug targets correspond to the twenty-five genes listed in Table AAB. In some embodiments, the at least one therapeutic or drug target for LUAD or LUSC is at least fourteen therapeutic or drug targets, wherein said at least fourteen therapeutic or drug targets correspond to the fourteen genes listed in Table AAC. In some embodiments, the at least one therapeutic or drug target for LUAD or LUSC is at least three therapeutic or drug targets, wherein said at least three therapeutic or drug targets correspond to the three genes listed in Table AAD.

[0143] In certain embodiments, the therapeutic or drug targets or genes for ER positive or ER negative are set forth in Appendix C, Appendix D, Table D, Table E, Table AX, Table AY, Table AZ, Table AAA, or combinations thereof. In some embodiments, the at least one therapeutic or drug target for ER positive or ER negative is at least fifty-two therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-two genes listed Table D. In some embodiments, the at least one therapeutic or drug target for ER positive or ER negative is at least fifty-two therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-two genes listed Table E. In some embodiments, the at least one

therapeutic or drug target for ER positive or ER negative is at least thirty-two therapeutic or drug targets, wherein said at least thirty-two therapeutic or drug targets correspond to the thirty-two genes listed in Table AX. In some embodiments, the at least one therapeutic or drug target for ER positive or ER negative is at least seventeen therapeutic or drug targets, wherein said at least seventeen therapeutic or drug targets correspond to the seventeen genes listed in Table AY. In some embodiments, the at least one therapeutic or drug target for ER positive or ER negative corresponds to the one gene listed in Table AZ. In some embodiments, the at least one therapeutic or drug target for ER positive or ER negative is at least two therapeutic or drug targets, wherein said at least two therapeutic or drug targets correspond to the two genes listed in Table AAA.

[0144] In certain embodiments, the therapeutic or drug targets or genes for Luminal A or Luminal B are set forth in Appendix I, Appendix J, Table J, Table K, Table AAF, Table AAG, Table AAH, or combinations thereof. In some embodiments, the at least one therapeutic or drug target for Luminal A or Luminal B is at least fifty-one therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-one genes listed Table J. In some embodiments, the at least one therapeutic or drug target for Luminal A or Luminal B is at least fifty-one therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-one genes listed Table K. In some embodiments, the at least one therapeutic or drug target for Luminal A or Luminal B is at least thirty-two therapeutic or drug targets, wherein said at least thirty-two therapeutic or drug targets correspond to the thirty-two genes listed in Table AAF. In some embodiments, the at least one therapeutic or drug target for Luminal A or Luminal B is at least seventeen therapeutic or drug targets, wherein said at least seventeen therapeutic or drug targets correspond to the seventeen genes listed in Table AAG. In some embodiments, the

at least one therapeutic or drug target for Luminal A or Luminal B is at least three therapeutic or drug targets, wherein said at least therapeutic or drug targets correspond to the three genes listed in Table AAH.

[0145] In certain embodiments, the therapeutic or drug targets or genes for KIRP or KIRC are set forth in Appendix E, Appendix F, Table F, Table G, Table AP, Table AQ, Table AR, Table AS, or combinations thereof. In some embodiments, the at least one therapeutic or drug target for KIRP or KIRC is at least fifty-seven therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-seven genes listed Table F. In some embodiments, the at least one therapeutic or drug target for KIRP or KIRC is at least fifty-three therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-three genes listed Table G. In some embodiments, the at least one therapeutic or drug target for KIRP or KIRC is at least twenty-eight therapeutic or drug targets, wherein said at least twenty-eight therapeutic or drug targets correspond to the twenty-eight genes listed in Table AP. In some embodiments, the at least one therapeutic or drug target for KIRP or KIRC is at least twenty-two therapeutic or drug targets, wherein said at least twenty-two therapeutic or drug targets correspond to the twenty-two genes listed in Table AQ. In some embodiments, the at least one therapeutic or drug target for KIRP or KIRC is at least three therapeutic or drug targets, wherein said at least three therapeutic or drug targets correspond to the three genes listed in Table AR. In some embodiments, the at least one therapeutic or drug target for KIRP or KIRC corresponds to the one gene listed in Table AS.

[0146] In certain embodiments, the therapeutic or drug targets or genes shared between multiple cancer types (*e.g.* any of the cancers in Table A) are set forth in Appendix K, Appendix, L, Table L, Table M, Table AAJ, Table AAK, or combinations thereof. In some embodiments, the at least

one therapeutic or drug target for pan-cancer is at least two hundred therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the two hundred genes listed in Table M. In some embodiments, the at least one therapeutic or drug target for pan-cancer is at least fifty-one therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-one genes listed in Table L. In some embodiments, the at least one therapeutic or drug target for pan-cancer is at least forty-six therapeutic or drug targets, wherein said at least forty-six therapeutic or drug targets correspond to the forty-six genes listed in Table AAJ. In some embodiments, the at least one therapeutic or drug target for pan-cancer is at least twenty-six therapeutic or drug targets, wherein said at least twenty-six therapeutic or drug targets correspond to the twenty-six genes listed in Table AAK.

[0147] In certain embodiments, the therapeutic or drug targets or genes shared between multiple cancer types (*e.g.* any of the cancers in Table A) that are indicative of survival are set forth in Appendix M, Appendix N, Table N, Table O, Table AAL, Table AAM, Table AAN, Table AAO, or combinations thereof. In some embodiments, the at least one therapeutic or drug target shared between multiple cancer types that are indicative of survival is at least fifty-one therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-one genes listed in Table N. In some embodiments, the at least one therapeutic or drug target shared between multiple cancer types that are indicative of survival is at least fifty-one therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-one genes listed in Table O. In some embodiments, the at least one therapeutic or drug target shared between multiple cancer types that are indicative of survival is at least twenty-seven therapeutic or drug targets, wherein said at least twenty-seven therapeutic or drug targets correspond to the twenty-seven genes listed in Table AAL. In some embodiments, the at least one therapeutic or drug

target shared between multiple cancer types that are indicative of survival is at least twenty-three therapeutic or drug targets, wherein said at least twenty-three therapeutic or drug targets correspond to the twenty-three genes listed in Table AAM. In some embodiments, the at least one therapeutic or drug target shared between multiple cancer types that are indicative of survival is at least three therapeutic or drug targets, wherein said at least three therapeutic or drug targets correspond to the three genes listed in Table AAN.

[0148] Methods of Detecting and/or Diagnosing Cancers

[0149] Methods of the invention include detecting and/or diagnosing a cancer in a subject having or suspected of having a cancer (*e.g.*, any of the cancers listed in Table A). The method can include determining the expression levels of a plurality of therapeutic or drug targets or genes (*e.g.*, RNA transcripts or expression products thereof of) at pre-selected number or plurality of therapeutic or drug targets or genes in a biological sample from a subject having or suspected of having a cancer such as a cancer.

[0150] The methods generally begin by collecting, obtaining, or receiving a biological sample from a subject having or suspected of having a cancer (*e.g.*, any of the cancers listed in Table A). The biological sample can comprise any collection of cells, tissues, organs or bodily fluids in which expression of a therapeutic or drug target or gene can be detected. Examples of such samples include, but are not limited to, biopsy specimens of cells, tissues or organs, bodily fluids and smears.

[0151] When the sample is a biopsy specimen, it can include, but is not limited to, cells from a biopsy, such as a tumor tissue sample. Biopsy specimens can be obtained by a variety of techniques including, but not limited to, scraping or swabbing an area, using a needle to aspirate cells or bodily fluids, or removing a tissue sample. Methods for collecting various body

samples/biopsy specimens are well known in the art, and may include, for example, fine needle aspiration biopsy, core needle biopsy, or excisional biopsy.

[0152] Fixative and staining solutions can be applied to, for example, cells or tissues for preserving them and for facilitating examination. Body samples, particularly tissue samples, can be transferred to a glass slide for viewing under magnification. The body sample can be a formalin-fixed, paraffin-embedded tissue sample, particularly a primary tumor sample.

[0153] When the sample is a bodily fluid, it can include, but is not limited to, blood, lymph, urine, saliva, aspirates or any other bodily secretion or derivative thereof. When the sample is blood, it can include whole blood, plasma, serum or any derivative of blood.

[0154] After collecting and preparing the specimen from the subject having or suspected of having cancer (*e.g.*, any of the cancers listed in Table A), the methods then include detecting expression of the therapeutic or drug targets or genes. One can use any method available for detecting expression of polynucleotides and polypeptides. As used herein, "detecting expression" means determining the quantity or presence of a therapeutic or drug target or gene polynucleotide or its expression product. As such, detecting expression encompasses instances where a therapeutic or drug target or gene is determined not to be expressed, not to be detectably expressed, expressed at a low level, expressed at a normal level, or overexpressed.

[0155] Methods of determining expression levels

[0156] Expression of a therapeutic or drug target or gene can be determined by normalizing the level of a reference marker/control, which can be all measured transcripts (or their products) in the sample or a particular reference set of RNA transcripts (or their products). Normalization can be performed to correct for or normalize away both differences in the amount of therapeutic or drug target or gene assayed and variability in the quality of the therapeutic or drug target or

gene type used. Therefore, an assay typically measures and incorporates the expression of certain normalizing polynucleotides or polypeptides, including well known housekeeping genes, such as, for example, GAPDH and/or actin. Alternatively, normalization can be based on the mean or median signal of all of the assayed therapeutic or drug targets or genes or a large subset thereof (global normalization approach).

[0157] To determine overexpression, the sample can be compared with a corresponding sample that originates from a healthy individual. That is, the "normal" level of expression is the level of expression of the therapeutic or drug target or gene in, for example, a tissue sample from an individual not afflicted with cancer. Such a sample can be present in standardized form. Sometimes, determining therapeutic or drug target or gene overexpression requires no comparison between the sample and a corresponding sample that originated from a healthy individual. For example, detecting overexpression of a therapeutic or drug target or gene indicative of a poor prognosis in a tumor sample may preclude the need for comparison to a corresponding tissue sample that originates from a healthy individual. Moreover, no expression, underexpression or normal expression (*i.e.*, the absence of overexpression) of a therapeutic or drug target or gene or combination of therapeutic or drug targets or genes of interest provides useful information regarding the prognosis of a cancer patient.

[0158] Methods of detecting and quantifying polynucleotide therapeutic or drug target or genes in a sample are well known in the art. Such methods include, but are not limited to gene expression profiling, which are based on hybridization analysis of polynucleotides, and sequencing of polynucleotides. The most commonly used methods art for detecting and quantifying polynucleotide expression in include northern blotting and in situ hybridization (Parker & Barnes (1999) *Methods Mol. Biol.* 106:247-283), RNAse protection assays (Hod

(1992) *Biotechniques* 13:852-854), PCR-based methods, such as RT-PCR (Weis *et al.* (1992) *TIG* 8:263-264), and array-based methods (Schena *et al.* (1995) Science 270:467-470). Alternatively, antibodies may be employed that can recognize specific duplexes, including DNA duplexes, RNA duplexes, and DNA-RNA hybrid duplexes, or DNA-protein duplexes in, for example, an oligonucleotide-linked immunosorbent assay ("OLISA"). See, Lee *et al.* (1985) *FEBS Lett.* 190:120-124; Han et al. (2010) *Bioconjug. Chem.* 21:2190-2196; Miura et al. (1987) *Biochem. Biophys. Res. Commun.* 144:930-935; and Tanha & Lee (1997) *Nucleic Acids Res.* 25:1442-1449. Representative methods for sequencing-based gene expression analysis include Serial Analysis of Gene Expression ("SAGE") and gene expression analysis by massively parallel signature sequencing. See, Velculescu *et al.* (1995) *Science* 270: 484-487.

[0159] Isolated RNA can be used to determine the level of therapeutic or drug target or gene transcripts (*i.e.*, mRNA) in a sample, as many expression detection methods use isolated RNA. The starting material typically is total RNA isolated from a body sample, such as a tumor or tumor cell line, and corresponding normal tissue or cell line, respectively. Thus, RNA can be isolated from a variety of primary tumors, including breast, lung, colon, prostate, brain, liver, kidney, pancreas, spleen, thymus, testis, ovary, uterus, and the like, or tumor cell lines. If the source of mRNA is a primary tumor, mRNA can be extracted, for example, from frozen or archived paraffin-embedded and fixed (e.g., formalin-fixed) tissue samples.

[0160] Methods of isolating polynucleotides such as RNA from a sample are well known in the art. See, *e.g.*, Molecular Cloning: A Laboratory Manual, 3rd ed. (Sambrook *et al.* eds., Cold Spring Harbor Press 2001); and Current Protocols in Molecular Biology (Ausubel *et al.* eds., John Wiley & Sons 1995). Methods for RNA extraction from paraffin-embedded tissues also are well known in the art. See, *e.g.*, Rupp & Locker (1987) *Lab Invest.* 56:A67; and De Andres *et*

al. (1995) *Biotechniques* 18:42-44. Moreover, isolation/purification kits are commercially available for isolating polynucleotides such as RNA (Qiagen; Valencia, CA). For example, total RNA from cells in culture can be isolated using Qiagen RNeasy® Mini-Columns. Other commercially available RNA isolation/purification kits include MasterPure™ Complete DNA and RNA Purification Kit (Epicentre; Madison, WI.) and Paraffin Block RNA Isolation Kit (Ambion; Austin, TX). Total RNA from tissue samples can be isolated, for example, using RNA Stat-60 (Tel-Test; Friendswood, TX). RNA prepared from a tumor can be isolated, for example, by cesium chloride density gradient centrifugation. Additionally, large numbers of tissue samples readily can be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (US Patent No. 4,843,155).

[0161] Once isolated, the polynucleotide, such as mRNA, can be used in hybridization or amplification assays including, but not limited to, Southern or Northern blotting, PCR and probe arrays. One method of detecting polynucleotide levels involves contacting the isolated polynucleotides with a nucleic acid molecule (probe) that can hybridize to the desired polynucleotide target. The nucleic acid probe can be, for example, a full-length DNA, or a portion thereof, such as an oligonucleotide of at least about 10, 15, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 400 or 500 nucleotides or more in length and sufficient to specifically hybridize under stringent conditions to a polynucleotide such as an mRNA or genomic DNA encoding a therapeutic or drug target or gene of interest. Hybridization of a polynucleotide encoding the therapeutic or drug target or gene of interest with the probe indicates that the therapeutic or drug target or gene in question is being expressed.

[0162] Stringent hybridization conditions are defined as hybridizing at 68°C in 5x SSC/5x Denhardt's solution/1.0% SDS, and washing in 0.2x SSC/0.1% SDS +/- 100 µg/ml denatured salmon sperm DNA at room temperature (RT), and moderately stringent hybridization conditions are defined as washing in the same buffer at 42°C. Additional guidance regarding such conditions is readily available in the art, for example, in Molecular Cloning: A Laboratory Manual, 3rd ed. (Sambrook *et al.* eds., Cold Spring Harbor Press 2001); and Current Protocols in Molecular Biology (Ausubel *et al.* eds., John Wiley & Sons 1995).

[0163] Another method of detecting polynucleotide expression levels involves immobilized polynucleotides on a solid surface and contacting the immobilized polynucleotides with a probe, for example by running isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. Alternatively, the probes can be immobilized on a solid surface and isolated mRNA is contacted with the probes, for example, in an Agilent Gene Chip Array.

[0164] For example, microarrays can be used to detect polynucleotide expression. Microarrays are particularly well suited because of the reproducibility between different experiments. DNA microarrays provide one method for the simultaneous measurement of the expression levels of large numbers of polynucleotides. Each array consists of a reproducible pattern of capture probes attached to a solid support. Labeled RNA or DNA is hybridized to complementary probes on the array and then detected by laser scanning. Hybridization intensities for each probe on the array are determined and converted to a quantitative value representing relative gene expression levels. See, *e.g.*, US Patent Nos. 6,040,138; 5,800,992; 6,020,135; 6,033,860 and 6,344,316. High-density oligonucleotide arrays are particularly useful for determining expression profiles for a large number of polynucleotides in a sample.

[0165] Methods of synthesizing these arrays using mechanical synthesis methods are described in, for example, US Patent No. 5,384,261. Although a planar array surface generally is used, the array can be fabricated on a surface of virtually any shape or even a multiplicity of surfaces. Arrays can be nucleic acids (or peptides) on beads, gels, polymeric surfaces, fibers (such as fiber optics), glass or any other appropriate substrate. See, *e.g.*, US Patent Nos. 5,770,358; 5,789,162; 5,708,153; 6,040,193 and 5,800,992.

[0166] As such, PCR-amplified inserts of cDNA clones can be applied to a substrate in a dense array. For example, at least about 10,000 nucleotide sequences can be applied to the substrate. The microarrayed genes, immobilized on the microchip at 10,000 elements each, are suitable for hybridization under stringent conditions. Fluorescently labeled cDNA probes can be generated through incorporation of fluorescent nucleotides by reverse transcription of RNA extracted from tissues of interest. Labeled cDNA probes applied to the chip hybridize with specificity to each spot of DNA on the array. After stringent washing to remove non-specifically bound probes, the chip is scanned by confocal laser microscopy or by another detection method, such as a CCD camera. Quantitation of hybridization of each arrayed element allows for assessment of corresponding mRNA abundance.

[0167] With dual color fluorescence, separately labeled cDNA probes generated from two sources of polynucleotide can be hybridized pairwise to the array. The relative abundance of the transcripts from the two sources corresponding to each specified molecule is thus determined simultaneously. The miniaturized scale of the hybridization affords a convenient and rapid evaluation of the expression pattern for large numbers of genes. Such methods have been shown to have the sensitivity required to detect rare transcripts, which are expressed at a few copies per cell, and to reproducibly detect at least approximately two-fold differences in the expression

levels. See, Schena *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:106-149. Advantageously, microarray analysis can be performed by commercially available equipment, following manufacturer's protocols, such as by using the Affymetrix® GenChip Technology, or Agilent® Ink-Jet Microarray Technology. The development of microarray methods for large-scale analysis of gene expression makes it possible to search systematically for molecular markers of cancer classification and outcome prediction in a variety of tumor types.

[0168] Another method of detecting polynucleotide expression levels involves a digital technology developed by NanoString® Technologies (Seattle, WA) and based on direct multiplexed measurement of gene expression, which offers high levels of precision and sensitivity (<1 copy per cell). The method uses molecular "barcodes" and single molecule imaging to detect and count hundreds of unique transcripts in a single reaction. Each color-coded barcode is attached to a single target-specific probe corresponding to a gene of interest. Mixed together with controls, they form a multiplexed CodeSet. Two ~50 base probes per mRNA can be included for hybridization. The reporter probe carries the signal, and the capture probe allows the complex to be immobilized for data collection. After hybridization, the excess probes are removed and the probe/target complexes aligned and immobilized in an nCounter® Cartridge. Sample cartridges are placed in a digital analyzer for data collection. Color codes on the surface of the cartridge are counted and tabulated for each target molecule.

[0169] Another method of detecting polynucleotide expression levels involves nucleic acid amplification, for example, by RT-PCR (US Patent No. 4,683,202), ligase chain reaction (Barany (1991) *Proc. Natl. Acad. Sci.* USA 88:189-193), self-sustained sequence replication (Guatelli *et al.* (1990) *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh et al. (1989) *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*,

(1988) *Bio/Technology* 6:1197), rolling circle replication (US Patent No. 5,854,033), or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known in the art. Likewise, therapeutic or drug target or gene expression can be assessed by quantitative fluorogenic RT-PCR (*i.e.*, the TaqMan® System). For PCR analysis, methods and software are available to determine primer sequences for use in the analysis. These methods are particularly useful for detecting polynucleotides present in very low numbers.

[0170] Additional methods of detecting polynucleotide expression levels of RNA may be monitored using a membrane blot (such as used in hybridization analysis such as Northern or Southern blotting, dot, and the like), or microwells, sample tubes, gels, beads or fibers (or any solid support comprising bound nucleic acids). See, *e.g.*, US Patents Nos. 5,770,722; 5,874,219; 5,744,305; 5,677,195 and 5,445,934. Polynucleotide therapeutic or drug target or gene expression also can include using nucleic acid probes in solution.

[0171] Another method of detecting polynucleotide expression levels involves SAGE, which is a method that allows the simultaneous and quantitative analysis of a large number of polynucleotides without the need of providing an individual hybridization probe for each transcript. First, a short sequence tag (about 10-14 bp) is generated that contains sufficient information to uniquely identify a transcript, provided that the tag is obtained from a unique position within each transcript. Then, many transcripts are linked together to form long serial molecules that can be sequenced, revealing the identity of the multiple tags simultaneously. The expression pattern of any population of transcripts can be quantitatively evaluated by determining the abundance of individual tags and identifying the gene corresponding to each tag. See, Velculescu et al. (1995), supra.

[0172] Another method of detecting polynucleotide expression levels involves massively parallel signature sequencing ("MPSS"). See, Brenner *et al.* (2000) *Nat. Biotech.* 18:630-634. This sequencing combines non-gel-based signature sequencing with in vitro cloning of millions of templates on separate diameter microbeads. First, a microbead library of DNA templates can be constructed by in vitro cloning. This is followed by assembling a planar array of the template-containing microbeads in a flow cell at a high density (typically greater than 3.0 x 106 microbeads/cm2). The free ends of the cloned templates on each microbead are analyzed simultaneously, using a fluorescence-based signature sequencing method that does not require DNA fragment separation. This method has been shown to simultaneously and accurately provide, in a single operation, hundreds of thousands of gene signature sequences from a yeast DNA library.

[0173] Likewise, methods of detecting and quantifying polypeptides in a sample are well known in the art and include, but are not limited to, immunohistochemistry and proteomics-based methods.

[0174] For example, a tissue sample can be collected by, for example, biopsy techniques known in the art. Samples can be frozen for later preparation or immediately placed in a fixative solution. Tissue samples can be fixed by treatment with a reagent, such as formalin, gluteraldehyde, methanol, or the like and embedded in paraffin. Methods for preparing slides for immunohistochemical analysis from formalin-fixed, paraffin-embedded tissue samples are well known in the art.

[0175] Some samples may need to be subjected to antigen retrieval or antigen unmasking to make the therapeutic or drug target or gene polypeptides accessible to, for example, antibody binding. As used herein, "antigen retrieval" or "antigen unmasking" means methods for

increasing antigen accessibility or recovering antigenicity in, for example, formalin-fixed, paraffin-embedded tissue samples. Formalin fixation of tissue samples results in extensive cross-linking of proteins that can lead to the masking or destruction of antigen sites and, subsequently, poor antibody staining. Any method of making antigens more accessible for antibody binding may be used in the practice of the invention, including those antigen retrieval methods known in the art. See, e.g., Tumor Marker Protocols (Hanausek & Walaszek, eds., Humana Press, Inc. 1988); and Shi et al., Antigen Retrieval Techniques: Immunohistochemistry and Molecular Morphology (Eaton Publishing 2000).

[0176] Methods of antigen retrieval are well known in the art. Examples of such methods include, but are not limited to, treatment with proteolytic enzymes (e.g., trypsin, chymotrypsin, pepsin, pronase and the like) or antigen retrieval solutions. Antigen retrieval solutions can include citrate buffer, pH 6.0, Tris buffer, pH 9.5, EDTA, pH 8.0, L.A.B. ("Liberate Antibody Binding Solution"; Polysciences; Warrington, PA), antigen retrieval Glyca solution (Biogenex; San Ramon, CA), citrate buffer solution, pH 4.0, Dawn® detergent (Proctor & Gamble; Cincinnati, OH), deionized water and 2% glacial acetic acid. Such an antigen retrieval solutions can be applied to a formalin-fixed tissue sample and then heated in an oven (e.g., at 60°C), steamed (e.g., at 95°C) or pressure cooked (e.g., at 120°C) for a pre-determined time periods. Alternatively, antigen retrieval can be performed at room temperature. As such, incubation times will vary with the particular antigen retrieval solution selected and with the incubation temperature. For example, an antigen retrieval solution can be applied to a sample for as little as about 5, 10, 20 or 30 minutes or up to overnight. The design of assays to determine the appropriate antigen retrieval solution and optimal incubation times and temperatures is standard and well within the routine capabilities of one of skill in the art.

[0177] Following antigen retrieval, samples are blocked using an appropriate blocking agent (e.g., hydrogen peroxide). An antibody directed to a therapeutic or drug target or gene of interest then is incubated with the sample for a time sufficient to permit antigen-antibody binding. As described elsewhere, at least five antibodies directed to five distinct therapeutic or drug targets or genes can be used to detect cancer. Where more than one antibody may be used, these antibodies can be added to a single sample sequentially as individual antibody reagents, or simultaneously as an antibody cocktail. Alternatively, each individual antibody can be added to a separate tissue section from a single patient sample, and the resulting data pooled.

[0178] Methods of detecting antibody binding are well known in the art. Antibody binding to a therapeutic or drug target or gene of interest can be detected through the use of chemical reagents that generate a detectable signal that corresponds to the level of antibody binding, and, accordingly, to the level of therapeutic or drug target or gene protein expression. For example, antibody binding can be detected through the use of a secondary antibody that is conjugated to a labeled polymer. Examples of labeled polymers include but are not limited to polymer-enzyme conjugates. The enzymes in these complexes are typically used to catalyze the deposition of a chromogen at the antigen-antibody binding site, thereby resulting in cell or tissue staining that corresponds to expression level of the therapeutic or drug target or gene of interest. Enzymes of particular interest include horseradish peroxidase (HRP) and alkaline phosphatase (AP). Commercially antibody detection systems include, for example, the Dako Envision+system (Glostrup; Denmark) and Biocare Medical's Mach 3 System (Concord, CA), and can be used herein.

[0179] Detecting antibody binding can be facilitated by coupling the antibody to a detectable moiety. Examples of detectable moieties include various enzymes, prosthetic groups, fluorescent

materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase, galactosidase and acetylcholinesterase. Examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin. Examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriaziny-lamine fluorescein, dansyl chloride and phycoerythrin. An example of a luminescent material is luminol. Examples of bioluminescent materials include luciferase, luciferin and aequorin. Examples of radioactive materials include 125I, 131I, 35S and 3H.

[0180] In regard to additional antibody detection methods, there also exists video microscopy and software methods for quantitatively determining an amount of multiple molecular species (*e.g.*, therapeutic or drug target or gene proteins) in a biological sample, where each molecular species present is indicated by a representative dye marker having a specific color. Such methods are known in the art as a colorimetric analysis method. In these methods, video-microscopy is used to provide an image of the biological sample after it has been stained to visually indicate the presence of a particular therapeutic or drug target or gene of interest. See, e.g., US Patent Nos. 7,065,236 and 7,133,547, which disclose the use of an imaging system and associated software to determine the relative amounts of each molecular species present based on the presence of representative color dye markers as indicated by those color dye markers' optical density or transmittance value, respectively, as determined by an imaging system and associated software. These methods provide quantitative determinations of the relative amounts of each molecular species in a stained biological sample using a single video image that is "deconstructed" into its component color parts.

[0181] Once expression levels of the plurality of therapeutic or drug targets or genes are determined, the expression data is processed according to the methods, systems, algorithms, programs, and codes described above. Such processing generates a plurality of genes which have enhanced, enriched, increased, decreased, or reduced expression levels. The plurality of genes are once processed are compared to the genes listed in Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix F, Appendix G, Appendix H, Appendix I, Appendix J, Appendix K, Appendix L, Appendix M, Appendix N, Table B, Table C, Table D, Table E, Table F, Table G, Table H, Table I, Table J, Table K, Table L, Table M, Table N, Table O, Table AP, Table AQ, Table AR, Table AS, Table AT, Table AU, Table AV, Table AX, Table AY, Table AZ, Table AAA, Table AAB, Table AAC, Table AAD, Table AAF, Table AAG, Table AAH, Table AAJ, Table AAK, Table AAL, Table AAM, Table AAN, or Table AAO, or combinations thereof.

[0182] In some embodiments, based on the comparison, the presence of the genes listed in Appendix A, Appendix B, Table B, Table C, Table AT, Table AU, Table AV, or combination thereof, is an indication that the subject is likely to be afflicted with BRCA.

[0183] In some embodiments, based on the comparison, the presence of the genes listed in Appendix G, Appendix H, Table H, Table I, Table AAB, Table AAC, Table AAD, or combination thereof, is an indication that the subject is likely to be afflicted with LUAD or LUSC.

[0184] In some embodiments, based on the comparison, the presence of the genes listed in Appendix I, Appendix J, Table J, Table K, Table AAF, Table AAG, Table AAH, or combination thereof, is an indication that the subject is likely to be afflicted with Luminal A or Luminal B.

[0185] In some embodiments, based on the comparison, the presence of the genes listed in Appendix C, Appendix D, Table D, Table E, Table AX, Table AY, Table AZ, Table AAA, or combination thereof, is an indication that the subject is likely to be afflicted with ER positive or ER negative.

[0186] In some embodiments, based on the comparison, the presence of the genes listed in Appendix E, Appendix F, Table F, Table G, Table AP, Table AQ, Table AR, Table AS, or combination thereof, is an indication that the subject is likely to be afflicted with KIRP or KIRC.

[0187] In some embodiments, based on the comparison, the presence of the genes listed in Appendix K, Table L, Table M, Table AAJ, Table AAK, or combination thereof, is an indication that the subject is likely to be afflicted with cancer.

[0188] In some embodiments, based on the comparison, the presence of the genes listed in Appendix M, Appendix N, Table N, Table O, Table AAL, AAM, AAN, AAO, or combination thereof, is an indication that the subject is likely to not be afflicted with cancer, or likely to survive cancer.

[0189] Provided herein are diagnostic systems (*i.e.*, kits and panels) comprising the therapeutic or drug targets or genes listed in Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix F, Appendix G, Appendix H, Appendix I, Appendix J, Appendix K, Appendix L, Appendix M, Appendix N, Table B, Table C, Table D, Table E, Table F, Table G, Table H, Table I, Table J, Table K, Table L, Table M, Table N, Table O, Table AP, Table AQ, Table AR, Table AS, Table AT, Table AU, Table AV, Table AX, Table AY, Table AZ, Table AAA, Table AAB, Table AAC, Table AAD, Table AAF, Table AAG, Table AAH, Table AAJ, Table AAK, Table AAL, Table AAM, Table AAN, or Table AAO, or combinations thereof.

[0190] In some embodiments, the diagnostic systems (*i.e.*, kits and panels) comprise reagents for detecting, diagnosing, or prognosing an individual having or suspected of having cancer (*e.g.*, any of the cancers listed in Table A). As used herein, "kit" or "kits" means any manufacture (*e.g.*, a package or a container) including at least one reagent, such as a nucleic acid probe, an antibody or the like, for specifically detecting the expression of the any of the genes described herein. In some embodiments, a plurality of reagents may be used.

[0191] As used herein, "probe" means any molecule that is capable of selectively binding to a specifically intended target biomolecule, for example, a nucleotide transcript or a protein encoded by or corresponding to a therapeutic or drug target. Probes can be synthesized by one of skill in the art, or derived from appropriate biological preparations. Probes may be specifically designed to be labeled. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies and organic molecules.

[0192] In other embodiments, primer (*e.g.*, oligonucleotide) sequences are useful for detecting or analyzing gene expression of therapeutic or drug targets. In other embodiments, the invention provides oligonucleotides which are able to amplify a therapeutic or drug target, for example, including at least one forward and one reverse primer, which together can be used for amplification and/or sequencing of an intended therapeutic or drug target, can be suitably packaged in a kit. In one embodiment, nested pairs of amplification and sequencing primers are provided. In still another embodiment, the kit comprises a set of primers. The primers in such kits can be labeled or unlabeled. The kit can also include additional reagents such as reagents for performing an amplification (*e.g.*, PCR) reaction, a reverse transcriptase for conversion of RNA to cDNA for amplification, DNA polymerases, dNTP and ddNTP feedstocks. Kits of the present invention can also include instructions for use.

[0193] The kits can be promoted, distributed or sold as units for performing any of the methods described herein. Additionally, the kits can contain a package insert describing the kit and methods for its use. For example, the insert can include instructions for correlating the level of therapeutic or drug target expression measured with a subject's likelihood of having developed cancer or the likely prognosis of a subject already diagnosed with cancer.

[0194] The kits therefore can be for detecting, diagnosing and prognosing a cancer (e.g., any of the cancers listed in Table A) with therapeutic or drug targets at the nucleic acid level. Such kits are compatible with both manual and automated nucleic acid detection techniques (*e.g.*, gene arrays, Northern blotting or Southern blotting. Likewise, the kits can be for detecting, diagnosing and prognosing a cancer with therapeutic or drug targets at the amino acid level. Such kits are compatible with both manual and automated immunohistochemistry techniques (e.g., cell staining, ELISA or Western blotting).

[0195] Any or all of the kit reagents can be provided within containers that protect them from the external environment, such as in sealed containers. Positive and/or negative controls can be included in the kits to validate the activity and correct usage of reagents employed in accordance with the invention. Controls can include samples, such as tissue sections, cells fixed on glass slides, RNA preparations from tissues or cell lines, and the like, known to be either positive or negative for any of the therapeutic or drug targets set forth in Table B, Table C, Table D, Table E, Table F, Table G, Table H, Table I, Table J, Table K, Table L, Table M, Table N, Table O, Table AP, Table AQ, Table AR, Table AS, Table AT, Table AU, Table AV, Table AX, Table AY, Table AZ, Table AAA, Table AAB, Table AAC, Table AAD, Table AAF, Table AAG, Table AAH, Table AAJ, Table AAK, Table AAL, Table AAM, Table AAN, or Table AAO. The

design and use of controls is standard and well within the routine capabilities of one of skill in the art.

[0196] Methods of Prognosing Cancers

[0197] Methods of the invention include prognosing the likelihood of metastasis in an individual having a cancer (*e.g.*, any of the cancers listed in Table A). The methods include detecting the expression of therapeutic or drug targets or genes in a biological sample from a subject having a cancer at a first point in time prior to treatment with an anti-cancer therapy or therapeutic regimen, and then at least one subsequent point in time after the subject has undergone treatment, completed treatment, and/or is in remission for the cancer.

[0198] In some embodiments, the subject has undergone chemotherapy, radiation therapy, or surgical removal of tumor. In some embodiments, the subject has been treated or administered any of the therapeutic agents or drugs set forth in Tables P-AO.

[0199] Absence, presence, or altered expression levels of a therapeutic or drug target or gene or combination of therapeutic or drug targets or genes can be used to indicate cancer prognosis (*i.e.*, poor or good prognosis). As such, presence, absence, or altered expression of a particular therapeutic or drug target or gene or combination of therapeutic or drug targets or genes permits the differentiation of subjects having a cancer that are likely to experience disease recurrence and/or metastasis (*i.e.*, poor prognosis) from those who are more likely to remain cancer free (*i.e.*, good prognosis).

[0200] In some embodiments, the absence of the genes listed in Appendix A, Appendix B, Table B, Table C, Table AT, Table AU, Table AV, or combination thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats BRCA in the subject.

[0201] In some embodiments, the absence of the genes listed in Appendix G, Appendix H, Table H, Table I, Table AAB, Table AAC, Table AAD, or combination thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats LUAD or LUSC in the subject.

[0202] In some embodiments, the absence of the genes listed in Appendix I, Appendix J, Table J, Table K, Table AAF, Table AAG, Table AAH, or combination thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats Luminal A or Luminal B in the subject.

[0203] In some embodiments, the absence of the genes listed in Appendix C, Appendix D, Table D, Table E, Table AX, Table AY, Table AZ, Table AAA, or combination thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats ER positive or ER negative in the subject.

[0204] In some embodiments, the absence of the genes listed in Appendix E, Appendix F, Table F, Table G, Table AP, Table AQ, Table AR, Table AS, or combination thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats KIRP or KIRC in the subject.

[0205] In some embodiments, the absence of the genes listed in Appendix K, Table L, Table M, Table AAJ, Table AAK, or combination thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats cancer in the subject.

[0206] In some embodiments, the presence of the genes listed in Appendix M, Appendix N, Table N, Table O, Table AAL, AAM, AAN, AAO, or combination thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats cancer in the subject.

[0207] As used herein, "prognose," "prognoses," "prognosis" and "prognosing" means predictions about or predicting a likely course or outcome of a disease or disease progression, particularly with respect to a likelihood of, for example, disease remission, disease relapse, tumor recurrence, metastasis and death (*i.e.*, the outlook for chances of survival). As used herein, "good prognosis" or "favorable prognosis" means a likelihood that an individual having cancer will remain disease-free (*i.e.*, cancer-free). As used herein, "poor prognosis" means a likelihood of a relapse or recurrence of the underlying cancer or tumor, metastasis or death. Individuals classified as having a good prognosis remain free of the underlying cancer or tumor. Conversely, individuals classified as having a bad prognosis experience disease relapse, tumor recurrence, metastasis or death.

[0208] Additional criteria for evaluating the response to anti-cancer therapies are related to "survival," which includes all of the following: survival until mortality, also known as overall survival (wherein said mortality may be either irrespective of cause or tumor related); "recurrence-free survival" (wherein the term recurrence shall include both localized and distant recurrence); metastasis free survival; disease free survival (wherein the term disease shall include cancer and diseases associated therewith). The length of said survival may be calculated by reference to a defined start point (*e.g.* time of diagnosis or start of treatment) and end point (e.g. death, recurrence or metastasis). In addition, criteria for efficacy of treatment can be expanded to include response to chemotherapy, probability of survival, probability of metastasis within a given time period, and probability of tumor recurrence.

[0209] One of skill in the art is familiar with the time frame(s) for assessing prognosis and outcome. Examples of such time frames include, but are not limited to, less than one year, about one, two, three, four, five, six, seven, eight, nine, ten, fifteen, twenty or more years. With respect

to cancer, the relevant time for assessing prognosis or disease-free survival time often begins with the surgical removal of the tumor or suppression, mitigation or inhibition of tumor growth. Thus, for example, a good prognosis can be a likelihood that the individual having cancer will remain free of the underlying cancer or tumor for a period of at least about five, more particularly, a period of at least about ten years. In contrast, for example, a bad prognosis can be a likelihood that the individual having cancer experiences disease relapse, tumor recurrence, metastasis or death within a period of less than about five years, more particularly a period of less than about ten years.

[0210] Methods of prognosing cancer are well known in the art. One method to evaluate the prognostic performance of the therapeutic or drug targets or genes and/or other clinical parameters utilizes PAM. PAM is a statistical technique for class prediction from gene expression data using nearest shrunken centroids. See, Tibshirani *et al.* (2002) *Proc. Natl. Acad. Sci.* 99:6567-6572.

[0211] Another method is the nearest shrunken centroids, which identifies subsets of genes that best characterize each class. This method is general and can be used in many other classification problems. It can also be applied to survival analysis problems. The method computes a standardized centroid for each class., which is the average gene expression for each gene in each class divided by the within-class standard deviation for that gene. Nearest centroid classification takes the gene expression profile of a new sample, and compares it to each of these class centroids. The class whose centroid that it is closest to, in squared distance, is the predicted class for that new sample. Nearest shrunken centroid classification makes one important modification to standard nearest centroid classification. It "shrinks" each of the class centroids toward the overall centroid for all classes by an amount we call the threshold. This shrinkage consists of

moving the centroid towards zero by threshold, setting it equal to zero if it hits zero. For example if threshold was 2.0, a centroid of 3.2 would be shrunk to 1.2, a centroid of -3.4 would be shrunk to -1.4, and a centroid of 1.2 would be shrunk to zero. After shrinking the centroids, the new sample is classified by the usual nearest centroid rule, but using the shrunken class centroids. This shrinkage has two advantages: 1) it can make the classifier more accurate by reducing the effect of noisy genes; and 2) it does automatic gene selection. The user decides on the value to use for threshold. Typically one examines a number of different choices.

[0212] Alternatively, prognostic performance of the therapeutic or drug targets or genes and/or other clinical parameters can be assessed by Cox Proportional Hazards Model Analysis, which is a regression method for survival data that provides an estimate of the hazard ratio and its confidence interval. The Cox model is a well-recognized statistical method for exploring the relationship between the survival of a patient and particular variables. This statistical method permits estimation of the hazard (*i.e.*, risk) of individuals given their prognostic variables (e.g., overexpression of particular therapeutic or drug targets or genes, as described herein). Cox model data are commonly presented as Kaplan-Meier curves or plots. The "hazard ratio" is the risk of death at any given time point for patients displaying particular prognostic variables. See generally, Spruance *et al.* (2004) *Antimicrob. Agents & Chemo.* 48:2787-2792.

[0213] The therapeutic or drug targets or genes of interest can be statistically significant for assessment of the likelihood of cancer recurrence or death due to the underlying cancer. Methods for assessing statistical significance are well known in the art and include, for example, using a log-rank test, Cox analysis and Kaplan-Meier curves. A p-value of less than 0.05 can be used to constitute statistical significance.

[0214] The expression levels of at least one therapeutic or drug target or gene in a tumor sample can be indicative of a poor cancer prognosis and thereby used to identify individuals who are more likely to suffer a recurrence of the underlying cancer. The therefore methods involve detecting the expression levels of at least one therapeutic or drug target or gene in a tumor sample that is indicative of early stage disease.

[0215] In some embodiments, overexpression of a therapeutic or drug target or gene or combination of therapeutic or drug targets or genes of interest in a sample can be indicative of a poor cancer prognosis. As used herein, "indicative of a poor prognosis" is intended that altered expression of particular therapeutic or drug target or gene or combination of therapeutic or drug targets or genes is associated with an increased likelihood of relapse or recurrence of the underlying cancer or tumor, metastasis or death. For example, "indicative of a poor prognosis" may refer to an increased likelihood of relapse or recurrence of the underlying cancer or tumor, metastasis, or death within ten years, such as five years. In other aspects of the invention, the absence of overexpression of a therapeutic or drug target or gene or combination of therapeutic or drug targets or genes of interest is indicative of a good prognosis. As used herein, "indicative of a good prognosis" refers to an increased likelihood that the patient will remain cancer free. In some embodiments, "indicative of a good prognosis" refers to an increased likelihood that the patient will remain cancer-free for ten years, such as five years.

[0216] Methods of Treating Cancers

[0217] The therapeutic or drug targets or genes, and detection, diagnosing and prognosing methods described above can be used to assist in selecting appropriate treatment regimen and to identify individuals that would benefit from more aggressive therapy.

[0218] Approaches to the treating cancers include surgery, immunotherapy, chemotherapy, radiation therapy, a combination of chemotherapy and radiation therapy, or biological therapy. Additional approaches to treating cancer include administering or prescribing to the subject having cancer with any of the therapeutic agents set forth in Tables P-AO. In some embodiments, the subject is administered a therapeutically effective amount of any of the therapeutic agents set forth in Tables P-AO to mediate a therapeutic. In some embodiments, the subject is administered a defined treatment based upon the diagnosis.

[0219] The term "therapeutic effect" refers to a local or systemic effect in animals, particularly mammals, and more particularly humans, caused by a pharmacologically active substance. The term thus means any substance intended for use in the diagnosis, cure, mitigation, treatment or prevention of disease or in the enhancement of desirable physical or mental development and conditions in an animal or human. The phrase "therapeutically-effective amount" means that amount of such a substance that produces some desired local or systemic effect at a reasonable benefit/risk ratio applicable to any treatment. In certain embodiments, a therapeutically effective amount of a compound will depend on its therapeutic index, solubility, and the like. For example, certain compounds set forth in Tables P-AO may be administered in a sufficient amount to produce a reasonable benefit/risk ratio applicable to such treatment.

[0220] The terms "therapeutically-effective amount" and "effective amount" as used herein means that amount of a compound, material, or composition comprising a compound set forth in Tables P-AO which is effective for producing some desired therapeutic effect in at least a sub-population of cells in an animal at a reasonable benefit/risk ratio applicable to any medical treatment. Toxicity and therapeutic efficacy of subject compounds may be determined by standard pharmaceutical procedures in cell cultures or experimental animals, *e.g.*, for

determining the LD_{50} and the ED_{50}. Compositions that exhibit large therapeutic indices are preferred. In some embodiments, the LD_{50} (lethal dosage) can be measured and can be, for example, at least 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, 200%, 300%, 400%, 500%, 600%, 700%, 800%, 900%, 1000% or more reduced for the agent relative to no administration of the agent. Similarly, the ED_{50} (*i.e.*, the concentration which achieves a half-maximal inhibition of symptoms) can be measured and can be, for example, at least 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, 200%, 300%, 400%, 500%, 600%, 700%, 800%, 900%, 1000% or more increased for the agent relative to no administration of the agent. Also, Similarly, the IC_{50} (*i.e.*, the concentration which achieves half-maximal cytotoxic or cytostatic effect on cancer cells) can be measured and can be, for example, at least 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, 200%, 300%, 400%, 500%, 600%, 700%, 800%, 900%, 1000% or more increased for the agent relative to no administration of the agent. In some embodiments, cancer cell growth in an assay can be inhibited by at least about 10%, 15%, 20%, 25%, 30%, 35%, 40%, 45%, 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, or even 100%. In another embodiment, at least about a 10% , 15%, 20%, 25%, 30%, 35%, 40%, 45%, 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, or even 100% decrease in a solid malignancy can be achieved.

[0221] In some embodiments, the subject is determined to have ER positive or ER negative cancer, and therefore is administered or prescribed any of the therapeutic agents, drugs, or treatment is defined in Table R, Table S, Table AE, or Table AF.

[0222] In some embodiments, the subject is determined to have BRCA cancer, and therefore is administered or prescribed any of the therapeutic agent or treatment is defined in Table P, Table Q, Table AC, or Table AD.

[0223] In some embodiments, the subject is determined to have KIRP or KIRC cancer, and therefore is administered or prescribed any of the therapeutic agent or treatment is defined in Table T, Table U, Table AG, or Table AH.

[0224] In some embodiments, the subject is determined to have LUAD or LUSC cancer, and therefore is administered or prescribed any of the therapeutic agent or treatment is defined in Table V, Table W, Table AI, or Table AJ.

[0225] In some embodiments, the subject is determined to have Luminal A or Luminal B cancer, and therefore is administered or prescribed any of the therapeutic agent or treatment is defined in Table X, Table Y, Table AK, or Table AL.

[0226] Clinical efficacy can be measured by any method known in the art. For example, the response to a therapy, such as to any of the therapeutic agents or treatments set forth in Tables P-AO, relates to any response of the cancer, *e.g.*, a tumor, to the therapy, preferably to a change in tumor mass and/or volume after initiation of neoadjuvant or adjuvant chemotherapy. Tumor response may be assessed in a neoadjuvant or adjuvant situation where the size of a tumor after systemic intervention can be compared to the initial size and dimensions as measured by CT, PET, mammogram, ultrasound or palpation and the cellularity of a tumor can be estimated histologically and compared to the cellularity of a tumor biopsy taken before initiation of treatment. Response may also be assessed by caliper measurement or pathological examination of the tumor after biopsy or surgical resection. Response may be recorded in a quantitative fashion like percentage change in tumor volume or cellularity or using a semi-quantitative scoring system such as residual cancer burden (Symmans *et al.*, *J. Clin. Oncol.* (2007) 25:4414-4422) or Miller-Payne score (Ogston *et al.*, (2003) *Breast* (Edinburgh, Scotland) 12:320-327) in a qualitative fashion like "pathological complete response" (pCR), "clinical complete remission"

(cCR), "clinical partial remission" (cPR), "clinical stable disease" (cSD), "clinical progressive disease" (cPD) or other qualitative criteria. Assessment of tumor response may be performed early after the onset of neoadjuvant or adjuvant therapy, *e.g.*, after a few hours, days, weeks or preferably after a few months. A typical endpoint for response assessment is upon termination of neoadjuvant chemotherapy or upon surgical removal of residual tumor cells and/or the tumor bed.

[0227] In some embodiments, clinical efficacy of the therapeutic treatments described herein may be determined by measuring the clinical benefit rate (CBR). The clinical benefit rate is measured by determining the sum of the percentage of patients who are in complete remission (CR), the number of patients who are in partial remission (PR) and the number of patients having stable disease (SD) at a time point at least 6 months out from the end of therapy. The shorthand for this formula is CBR=CR+PR+SD over 6 months. In some embodiments, the CBR for a particular therapeutic agent set forth in Table P to AO is at least 25%, 30%, 35%, 40%, 45%, 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, or more.

[0228] For example, in order to determine appropriate threshold values, a particular therapeutic agent as set forth in Tables P-AO can be administered to a population of subjects and the outcome can be correlated to therapeutic or drug target measurements that were determined prior to administration of any of the therapeutic agents set forth in Tables P-AO. The outcome measurement may be pathologic response to therapy given in the neoadjuvant setting. Alternatively, outcome measures, such as overall survival and disease-free survival can be monitored over a period of time for subjects following administering any of the therapeutic agents set forth in Tables P-AO for whom therapeutic or drug target measurement values are known. In certain embodiments, the same doses of any of the therapeutic agents set forth in

Tables P-AO are administered to each subject. In related embodiments, the doses administered are standard doses known in the art for any of the therapeutic agents set forth in Tables P-AO. The period of time for which subjects are monitored can vary. For example, subjects may be monitored for at least 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 45, 50, 55, or 60 months.

[0229] The methods described above therefore find particular use in selecting appropriate treatment for early- or late-stage cancer patients. The majority of individuals having cancer diagnosed at an early-stage of the disease enjoy long-term survival following surgery and/or radiation therapy without further adjuvant therapy. However, a significant percentage of these individuals will suffer disease recurrence or death, leading to clinical recommendations that some or all early-stage cancer patients should receive adjuvant therapy (*e.g.*, chemotherapy). The methods of the present invention can identify this high-risk, poor prognosis population of individuals having early-stage cancer and thereby can be used to determine which ones would benefit from continued and/or more aggressive therapy and close monitoring following treatment. For example, individuals having early-stage cancer and assessed as having a poor prognosis by the methods disclosed herein may be selected for more aggressive adjuvant therapy, such as chemotherapy, following surgery and/or radiation treatment. In the situation where the subject has late-stage cancer, the methods of the present invention can identify appropriate therapeutic drugs or agents that a doctor, physician, or health provider can prescribed having short treatment regimens or quicker efficacy time frames. The methods of the present invention may be used in conjunction with standard procedures and treatments to permit physicians to make more informed cancer treatment decisions.

[0230] **Exemplary Results**

[0231] Referring now to **FIGS. 4-7**, exemplary results of a system according to the present disclosure are presented.

[0232] In **FIG. 4**, binomial model comparisons at both the module and gene level specifically highlighting kidney renal papillary cell carcinoma (KIRP) versus kidney renal clear cell carcinoma (KIRC) are shown. **FIG. 4A** is a table showing various test data set model statistics (area under curve (AUC), accuracy, balanced accuracy, F1 score, sensitivity, and specificity) for each of the five binomial comparisons at the module level (MEGENA Module and nGOseq Module) and gene level (MEGENA Gene and nGOseq Gene). Bolded values indicate the highest value of each statistic. **FIGS. 4B-C** show nGOseq (b) and MEGENA (c) derived directed acyclic graphs (DAG) from the training data set showing causal drivers of the 100 most informative genes for KIRP vs. KIRC. Genes on the left side of the DAG are the most likely upstream causal drivers while the genes on the right are the most likely downstream targets (both determined based on incoming and outgoing edges in the DAG). Data types: METH (blue), mRNA (red), miRNA (orange), STV (Pink), CNV (green). **FIGS. 4D-E** show nGOseq (d) and MEGENA (e) natural language processing diagrams showing known literature connections between the 100 most informative genes and cancer and/or kidney cancer (using MESH terms as detailed in Methods) as well as known literature gene to gene connections. For each gene, the outer ring indicates the presence (blue) or absence (white) of functional annotation, the middle ring displays the difference in outgoing to incoming edges from the respective DAG (colored with 10 bins where white – lowest and black – highest, see Methods), and the inner ring indicates the total number of edges (colored with 6 bins where white – lowest and dark purple – highest, see Methods). Inner chord colors for gene to cancer relationships (gene to cancer and/or kidney cancer): red – inhibitory, grey – neither inhibitory or stimulatory, green – stimulatory, yellow –

both inhibitory and stimulatory. Inner chord colors for gene to gene relationships: pink – inhibitory, purple – neither inhibitory or stimulatory, orange – stimulatory, blue – both inhibitory and stimulatory. Genes highlighted in red are those that appear on the left side of the DAGs and those that are bold and italicized are known drug targets. Average degree of gene connections to both cancer and/or kidney cancer and other genes is displayed above the diagram.

[0233] **FIG. 5** illustrates multinomial models at the module and gene level comparing 22 cancer types from the TCGA database. **FIG. 5A** shows test data set model statistics (area under curve (AUC), accuracy, balanced accuracy, F1 score) at the module level (MEGENA Module) and gene level (MEGENA Gene). **FIG. 5B** is a clustergram showing the similarities between all 22 cancers for the training data set of the 13 most informative MEGENA modules. The rankings were derived based on the ensemble rankings of DANN and DBNN models at the module level for each cancer type (see Methods). Signed module importance is normalized between -1 (blue) and 1 (red) where 0 (beige-white) represents a non-important module. **FIG. 5C** shows selected nGOseq enrichment terms for the gene level data matrix. The gene level data matrix was derived from each of the important MEGENA modules by breaking out the genes from each summary statistic of clusters. The left column indicates the nested GO terms while the right column indicates which GO terms the nested GO terms were nested inside of. **FIG. 5D** is a clustergram showing 51 genes with an informative rank at the gene level in 5 or more cancer types across all 8,272 samples (training and testing data sets) and 22 cancer types. Data is z-scored between ≤ -3 (blue) and ≥ 3 (red). **FIG. 5E** is a natural language processing diagram showing known literature connections between the 200 most informative genes (based on informative rank in 4 or more cancer types) and cancer (using MESH terms as detailed in Methods) as well as known literature gene to gene connections. For each gene, the outer ring indicates the presence (blue) or

absence (white) of functional annotation, the middle ring displays the difference in outgoing to incoming edges from the respective DAG (colored with 10 bins where white – lowest and black – highest), and the inner ring indicates the total number of edges (colored with 6 bins where white – lowest and dark purple – highest). Inner chord colors for gene to cancer relationships (gene to cancer and/or kidney cancer): red – inhibitory, grey – neither inhibitory or stimulatory, green – stimulatory, yellow – both inhibitory and stimulatory. Inner chord colors for gene to gene relationships: pink – inhibitory, purple – neither inhibitory or stimulatory, orange – stimulatory, blue – both inhibitory and stimulatory. Average degree of gene connections to both cancer and other genes is displayed above the diagram.

[0234] **FIG. 6** illustrates survival models at the module and gene level comparing 20 cancer types from the TCGA database. **FIG. 6A** shows test data set survival model statistics (temporal area under curve (t-AUC) and Harrel's C-Index) at the module level (MEGENA Module – red and nGOseq Module – green) and gene level (MEGENA Gene – light blue and nGOseq Gene – dark blue). **FIG. 6B** shows survival model statistics at the MEGENA module level (for both training and testing data sets) broken down by each of the 20 cancer types. 9 of 20 cancers have a test data set model statistic above 0.70. **FIG. 6C** shows Statistics for a survival model built at the MEGENA module level and trained on 19 cancers and tested on a left-out cancer type, UCEC. **FIG. 6D** shows Kaplan-Meier plots for each of the 20 cancer types stratified into 3 risk groups (Low – red, Moderate – blue, and High – green). Risk stratification was determined by grouping the predicted risks from the survival model at the MEGENA module level into 3 quantiles for all 7,822 samples. P values were calculated via uncorrected log-rank tests for each pairwise risk group comparison (3 per cancer type) for each individual cancer type (20 cancer types).

[0235] FIG. 7 illustrates an analysis of the most informative survival genes. **FIGS. 7A-B** show nGOseq (a) and MEGENA (b) networks showing the shared significant hazard ratios (calculated by univariate cox-proportional hazards models and correcting for false discovery with the Benjamini–Hochberg procedure) between different cancer types for the full gene level inputs. Edges connecting cancer types are labeled with the number of significant hazard ratios shared between the cancer types. Also shown are significant hazard ratios that are specific to a single cancer type (i.e. LGG Specific). **FIGS. 7C-D** show nGOseq (c) and MEGENA (d) derived directed acyclic graphs (DAG) from the training data set showing causal drivers of the 100 most informative genes for survival. Genes on the left side of the DAG are the most likely upstream causal drivers while the genes on the right are the most likely downstream targets (both determined based on incoming and outgoing edges in the DAG). Data types: METH (blue), mRNA (red), miRNA (orange), STV (Pink), CNV (green). **FIGS. 7E-F** shows nGOseq (e) and MEGENA (f) natural language processing diagrams showing known literature connections between the 100 most informative genes cancer, and survival (using MESH terms as detailed in Methods) as well as known literature gene to gene connections. For each gene, the outer ring indicates the presence (blue) or absence (white) of functional annotation, the middle ring displays the difference in outgoing to incoming edges from the respective DAG (colored with 10 bins where white – lowest and black – highest), and the inner ring indicates the total number of edges (colored with 6 bins where white – lowest and dark purple – highest). Inner chord colors for gene to cancer relationships (gene to cancer and/or kidney cancer): red – inhibitory, grey – neither inhibitory or stimulatory, green – stimulatory, yellow – both inhibitory and stimulatory. Inner chord colors for gene to gene relationships: pink – inhibitory, purple – neither inhibitory or stimulatory, orange – stimulatory, blue – both inhibitory and stimulatory. Genes highlighted in

red are those that appear on the left side of the DAGs and those that are bold and italicized are known drug targets. Average degree of gene connections to cancer, survival, and other genes is displayed above the diagram.

[0236] FIG. 9A-FIG. 9D depict binomial model comparisons at both the module and gene level specifically highlighting breast cancer (BRCA) versus normal tissue. **FIG. 9A** and **FIG. 9B** show nGOseq (**FIG. 9A**) and MEGENA (**FIG. 9B**) derived directed acyclic graphs (DAG) from the training data set showing causal drivers of the 100 most informative genes for BRCA vs. Normal. Genes on the left side of the DAG are the most likely upstream causal drivers while the genes on the right are the most likely downstream targets (both determined based on incoming and outgoing edges in the DAG). Data types: METH (blue), mRNA (red), miRNA (orange), STV (Pink), CNV (green) **FIG. 9C** and **FIG. 9D** show nGOseq (**FIG. 9C**) and MEGENA (**FIG. 9D**) natural language processing diagrams showing known literature connections between the 100 most informative genes cancer and/or breast cancer (using MESH terms as detailed in Methods) as well as known literature gene to gene connections. For each gene, the outer ring indicates the presence (blue) or absence (white) of functional annotation, the middle ring displays the difference in outgoing to incoming edges from the respective DAG (colored with 10 bins where white – lowest and black – highest, see Methods), and the inner ring indicates the total number of edges (colored with 6 bins where white – lowest and dark purple – highest, see Methods). Inner chord colors for gene to cancer relationships (gene to cancer and/or kidney cancer): red – inhibitory, grey – neither inhibitory or stimulatory, green – stimulatory, yellow – both inhibitory and stimulatory. Inner chord colors for gene to gene relationships: pink – inhibitory, purple – neither inhibitory or stimulatory, orange – stimulatory, blue – both inhibitory and stimulatory. Genes highlighted in red are those that appear on the left side of the DAGs and

those that are bold and italicized are known drug targets. Average degree of gene connections to both cancer and/or breast cancer and other genes is displayed above the diagram.

[0237] FIG. 10A-FIG. 10D depict binomial model comparisons at both the module and gene level specifically highlighting LUAD versus LUSC lung cancer subtypes. **FIG. 10A** and **FIG. 10B** show nGOseq (**FIG. 10A**) and MEGENA (**FIG. 10B**) derived directed acyclic graphs (DAG) from the training data set showing causal drivers of the 100 most informative genes for LUAD versus LUSC. Genes on the left side of the DAG are the most likely upstream causal drivers while the genes on the right are the most likely downstream targets (both determined based on incoming and outgoing edges in the DAG). Data types: METH (blue), mRNA (red), miRNA (orange), STV (Pink), CNV (green). **FIG. 10C** and **FIG. 10D** show nGOseq (**FIG. 10C**) and MEGENA (**FIG. 10D**) natural language processing diagrams showing known literature connections between the 100 most informative genes and cancer (using MESH terms as detailed in Methods) as well as known literature gene to gene connections. For each gene, the outer ring indicates the presence (blue) or absence (white) of functional annotation, the middle ring displays the difference in outgoing to incoming edges from the respective DAG (colored with 10 bins where white – lowest and black – highest, see Methods), and the inner ring indicates the total number of edges (colored with 6 bins where white – lowest and dark purple – highest, see Methods). Inner chord colors for gene to cancer relationships (gene to cancer and/or kidney cancer): red – inhibitory, grey – neither inhibitory or stimulatory, green – stimulatory, yellow – both inhibitory and stimulatory. Inner chord colors for gene to gene relationships: pink – inhibitory, purple – neither inhibitory or stimulatory, orange – stimulatory, blue – both inhibitory and stimulatory. Genes highlighted in red are those that appear on the left side of the DAGs.

Average degree of gene connections to both cancer and/or lung cancer and other genes is displayed above the diagram.

[0238] **FIG. 11A-FIG. 11D** depict binomial model comparisons at both the module and gene level specifically highlighting ER+ versus ER- breast cancer subtypes. **FIG. 11A** and **FIG. 11B** show nGOseq (**FIG. 11A**) and MEGENA (**FIG. 11B**) derived directed acyclic graphs (DAG) from the training data set showing causal drivers of the 100 most informative genes for ER positive versus ER negative. Genes on the left side of the DAG are the most likely upstream causal drivers while the genes on the right are the most likely downstream targets (both determined based on incoming and outgoing edges in the DAG). Data types: METH (blue), mRNA (red), miRNA (orange), STV (Pink), CNV (green). **FIG. 11C** and **FIG. 11D** show nGOseq (**FIG. 11C**) and MEGENA (**FIG. 11D**) natural language processing diagrams showing known literature connections between the 100 most informative genes and cancer (using MESH terms as detailed in Methods) as well as known literature gene to gene connections. For each gene, the outer ring indicates the presence (blue) or absence (white) of functional annotation, the middle ring displays the difference in outgoing to incoming edges from the respective DAG (colored with 10 bins where white – lowest and black – highest, see Methods), and the inner ring indicates the total number of edges (colored with 6 bins where white – lowest and dark purple – highest, see Methods). Inner chord colors for gene to cancer relationships (gene to cancer and/or kidney cancer): red – inhibitory, grey – neither inhibitory or stimulatory, green – stimulatory, yellow – both inhibitory and stimulatory. Inner chord colors for gene to gene relationships: pink – inhibitory, purple – neither inhibitory or stimulatory, orange – stimulatory, blue – both inhibitory and stimulatory. Genes highlighted in red are those that appear on the left side of the

DAGs and those that are bold and italicized are known drug targets. Average degree of gene connections to both cancer and/or breast cancer and other genes is displayed above the diagram.

[0239] FIG. 12A-FIG. 12D depict binomial model comparisons at both the module and gene level specifically highlighting Luminal A versus Luminal B breast cancer subtypes. **FIG. 12A** and **FIG. 12B** show nGOseq (**FIG. 12A**) and MEGENA (**FIG. 12B**) derived directed acyclic graphs (DAG) from the training data set showing causal drivers of the 100 most informative genes for Luminal A versus Luminal B. Genes on the left side of the DAG are the most likely upstream causal drivers while the genes on the right are the most likely downstream targets (both determined based on incoming and outgoing edges in the DAG). Data types: METH (blue), mRNA (red), miRNA (orange), STV (Pink), CNV (green). **FIG. 12C** and **FIG. 12D** show nGOseq (**FIG. 12C**) and MEGENA (**FIG. 12D**) natural language processing diagrams showing known literature connections between the 100 most informative genes and cancer (using MESH terms as detailed in Methods) as well as known literature gene to gene connections. For each gene, the outer ring indicates the presence (blue) or absence (white) of functional annotation, the middle ring displays the difference in outgoing to incoming edges from the respective DAG (colored with 10 bins where white – lowest and black – highest, see Methods), and the inner ring indicates the total number of edges (colored with 6 bins where white – lowest and dark purple – highest, see Methods). Inner chord colors for gene to cancer relationships (gene to cancer and/or kidney cancer): red – inhibitory, grey – neither inhibitory or stimulatory, green – stimulatory, yellow – both inhibitory and stimulatory. Inner chord colors for gene to gene relationships: pink – inhibitory, purple – neither inhibitory or stimulatory, orange – stimulatory, blue – both inhibitory and stimulatory. Genes highlighted in red are those that appear on the left side of the

DAGs and those that are bold and italicized are known drug targets. Average degree of gene connections to both cancer and/or breast cancer and other genes is displayed above the diagram.

[0240] FIG. 13A and **FIG. 13B** depict the top 20 most informative MEGENA genes at the gene level for Lung Adenocarcinoma (LUAD) versus Lung Squamous Cell (LUSC) lung cancer subtypes (for both training (FIG. 13B) and testing data sets (13A)).

[0241] FIG. 14A and **FIG. 14B** depict the top 20 most informative nGOseq genes at the gene level for Lung Adenocarcinoma (LUAD) versus Lung Squamous Cell (LUSC) lung cancer subtypes (for both training (FIG. 14B) and testing data sets (14A)).

[0242] FIG. 15A and **FIG. 15B** depicts the top 20 most informative MEGENA genes at the gene level for ER+ versus ER- breast cancer subtypes (for both training (FIG. 15B) and testing data sets (15A)).

[0243] FIG. 16A and **FIG. 16B** depicts the top 20 most informative nGOseq genes at the gene level for ER+ versus ER- breast cancer subtypes (for both training (FIG. 16B) and testing data sets (16A)).

[0244] FIG. 17A and **FIG. 17B** depicts the top 20 most informative MEGENA genes at the gene level for Luminal A versus Luminal B breast cancer subtypes (for both training (FIG. 17B) and testing data sets (17A)).

[0245] FIG. 18A and **FIG. 18B** depicts the top 20 most informative nGOseq genes at the gene level for Luminal A versus Luminal B breast cancer subtypes (for both training (FIG. 18A) and testing data sets (18B)).

[0246] FIG. 19A and **FIG. 19B** depicts the top 20 most informative MEGENA genes at the gene level for breast cancer (BRCA) versus normal tissue (for both training (FIG. 19B) and testing data sets (19A)).

[0247] **FIG. 20A** and **FIG. 20B** depicts the top 20 most informative nGOseq genes at the gene level for breast cancer (BRCA) versus normal tissue (for both training (FIG. 20B) and testing data sets (20A)).

[0248] **FIG. 21A** and **FIG. 21B** depicts the top 20 most informative MEGENA genes at the gene level for kidney renal papillary cell carcinoma (KIRP) versus kidney renal clear cell carcinoma (KIRC) (for both training (FIG. 21B) and testing data sets (21A)).

[0249] **FIG. 22A** and **FIG. 22B** depicts the top 20 most informative nGOseq genes at the gene level for kidney renal papillary cell carcinoma (KIRP) versus kidney renal clear cell carcinoma (KIRC) (for both training (FIG. 22B) and testing data sets (22A)).

[0250] **FIG. 23A** and **FIG. 23B** depicts the top 20 most informative MEGENA genes at the gene level for the pan 22 cancer comparison (for both training (FIG. 23B) and testing data sets (23A))

[0251] **FIG. 24A** and **FIG. 24B** depicts survival models at the nGOseq module level comparing 20 cancer types from the TCGA database. **(top)** Survival model statistics (for both training (FIG. 24B) and testing (FIG. 24A) data sets) broken down by each of the 20 cancer types. **(bottom)** Kaplan-Meier plots for each of the 20 cancer types stratified into 2 risk groups (low risk – red, high risk – blue, solid – testing data, dashed – training data). Risk stratification was determined by grouping the predicted risks for each cancer type from the survival model at the MEGENA module level into 2 quantiles for all training samples and using the same median value to stratify the testing samples. P values were calculated via log-rank tests.

[0252] **FIG. 25A** and **FIG. 25B** depicts survival models at the MEGENA gene level comparing 20 cancer types from the TCGA database. **(top)** Survival model statistics (for both training (FIG. 24B) and testing (FIG. 24A) data sets) broken down by each of the 20 cancer types. **(bottom)** Kaplan-Meier plots for each of the 20 cancer types stratified into 2 risk groups (low risk – red,

high risk – blue, solid – testing data, dashed – training data). Risk stratification was determined by grouping the predicted risks for each cancer type from the survival model at the MEGENA module level into 2 quantiles for all training samples and using the same median value to stratify the testing samples. P values were calculated via log-rank tests.

[0253] **FIG. 26A** and **FIG. 26B** depicts survival models at the nGOseq gene level comparing 20 cancer types from the TCGA database. **(top)** Survival model statistics (for both training (FIG. 25B) and testing (FIG. 25A) data sets) broken down by each of the 20 cancer types. **(bottom)** Kaplan-Meier plots for each of the 20 cancer types stratified into 2 risk groups (low risk – red, high risk – blue, solid – testing data, dashed – training data). Risk stratification was determined by grouping the predicted risks for each cancer type from the survival model at the MEGENA module level into 2 quantiles for all training samples and using the same median value to stratify the testing samples. P values were calculated via log-rank tests.

[0254] We sought to understand and evaluate the use of deep learning methodologies in classifying tumor sub-types from the same tissue of origin. This allowed us to focus on underlying differences in tumor biology rather than possible confounding tissue of origin biology. Consequently, we focused on 4 binomial comparisons (**FIG. 4A**) using tumor types from lung, kidney, and breast tissues with sufficient sample size and molecular measurements from all 5 data types; LUAD vs. LUSC (n=500 and n=462), KIRC vs. KIRP (n=284 and n=327), ER+ vs. ER- BRCA subtypes (n=740 and n=219), and Luminal A vs. Luminal B BRCA subtypes (n=199 and n=112). Data from each platform (mRNA, miRNA, CNV, methylation, and SNP) was pre-processed and normalized and then merged into a single data matrix containing ~70,000 molecular measurements for each binomial comparison. For single nucleotide polymorphism data, we built a deep artificial neural network (DANN) model (and a standard

machine learning LASSO model) to assess pathogenicity of missense genomic variants. Both high-scoring loss of function variants and somatic missense variants with a pathogenic probability of ≥ 0.51 were retained. Each variant was mapped to a gene and the counts of all variants for a given gene were added together into a single count value, thus translating sparse binomial data into a continuous value.

[0255] We applied two distinct feature learning and dimensionality reduction techniques to create an overall integrated data matrix of all 5 data types for our computational intelligence methodology. MEGENA followed by principal component analysis (PCA) is a data driven clustering methodology that combines various molecular signals into integrated modules which are then represented by their first principal components (PC), commonly known as metagenes. Integrative nGOseq followed by PCA uses differential genes (across all 5 platforms) and *a priori* biological knowledge (gene ontology) to find functionally enriched biological pathways which are then represented by their first PCs. For example, MEGENA feature learning collapsed the original 70,005 molecular measurements, consisting of all 5 data types, from the KIRC vs. KIRP comparison into 604 modules, while nGOseq feature learning found 1,915 unique enriched GO terms. Thus, these smaller data matrices at the module/gene-set level were used as the input for the initial deep learning models.

[0256] We applied two distinct deep learning methodologies to these training datasets at the module/gene-set level; deep artificial neural networks (DANNs) and deep Bayesian neural networks (DBNNs). Model hyper-parameters were automatically tuned (such as learning rate, layer size, dropout rate, *etc.*) for optimal performance. Classification performance (**FIG. 4a**) of both deep learning techniques using each of the feature learning methodologies on the held-out test dataset at the module/gene-set level was perfect (AUC 1.0 -- LUAD vs. LUSC) or near

perfect (AUC > 0.90 -- KIRC vs. KIRP, ER+ vs. ER-) for 3 of the 4 binomial comparisons while Luminal A vs. B showed reasonable classification performance (AUC > 0.85). To further assess robustness of our feature learning approaches, independent of classification scheme and experimental platform, LASSO classifiers were trained using the nGOseq feature learning methodology with RNA-seq data only (mRNA) for the ER+ vs. ER-, Luminal A vs. B, and LUAD vs. LUSC comparisons. These classifiers were then validated on independently available microarray datasets (Network, C. G. A. *Nature* 490, 61-70, (2012); Gyorffy, B. *et al. PLoS One* 8, e82241, (2013))_ENREF_45. The models achieved near perfect (AUC > 0.90) classification performance on the validation microarray mRNA expression profiles for all comparisons. These cross-platform results indicate that the nGOseq feature learning strategy robustly captures a significant degree of biological signal within each experimental comparison. Interestingly, the LUAD vs. LUSC comparison uncovered an informative nGOseq term, containing 16 genes (*DVL3*, *GRHL3*, *GJB6*, *USH1G*, *SLC9A3R1*, *WNT5A*, *FZD6*, *DLX5*, *NRP1*, *HPN*, *WNT3A*, *FGFR2*, *GLI2*, *CLIC5*, *VANGL2*, *TFAP2A*), annotated for the GO term *ear morphogenesis*. These findings suggest that our feature learning approaches are capable of identifying informative genes annotated for seemingly unrelated biological processes, thus affording novel hypothesis testing of disease etiology.

[0257] Although the classification performance at the module/gene-set level is remarkable, it is difficult to interpret underlying biological factors driving class separation due to the aggregation of multiple genes across integrated data types. Therefore, we developed a novel strategy to transition from the module/gene-set level to the gene level for both feature learning methodologies. We utilized an ensemble strategy, applied to each feature learning methodology independently, by taking the intersection of the most important modules/gene-sets identified

through saliency mapping of both DANN and DBNN models. The most informative modules/gene-sets were determined and all molecular measurements within these modules/gene-sets were aggregated into a gene level matrix. For example, the KIRC vs. KIRP matrices consisted of 2,880 genes for nGOseq (592 CNVs, 663 METH, 36 miRNA, 612 mRNA, and 977 STVs) and 1,046 genes for MEGENA (177 CNVs, 340 METH, 35 miRNA, 382 mRNA, and 112 STVs).

[0258] We then re-trained DANNs and DBNNs on these gene level training datasets and automatically tuned model hyper-parameters (such as learning rate, layer size, dropout rate, etc.) for optimal performance. Classification performance at the gene level (**FIG. 4a**) of both deep learning techniques and both feature learning methodologies on the held-out test dataset, now at the gene level, remained high for LUAD vs. LUSC (AUC = 1.0) and increased for KIRC vs. KIRP (increased accuracy, balanced accuracy, F1 score, and sensitivity), ER+ vs. ER- (increased balanced accuracy and F1 score), and Luminal A vs. B (increased AUC, accuracy, balanced accuracy, F1 score, sensitivity, and specificity). Therefore, when moving from module/gene-set level to gene-level we retain and in 3 of 4 cases gain class separability with the added benefit of increased biological interpretability discussed below.

[0259] We next identified and examined important molecular markers for each feature learning methodology that contributed most to class separability between each of the 4 binomial comparisons. These molecular markers help give insights into the biology driving disease and can lead to novel hypotheses of pathways and genes implicated in cancer. Herein, we focus our discussion on the KIRC vs. KIRP comparison, however all methodology described was applied to the other comparisons (LUAD vs. LUSC, ER+ vs. ER-, and Luminal A vs. Luminal B) and is discussed briefly below.

[0260] We first applied our ensemble saliency mapping methodology to our deep learning models at the gene level in order to calculate a ranked list of the most informative genes for each feature learning methodology. We then used the top 100 most informative genes (in some cases 99 genes if ties were present in rankings) to build Bayesian Belief Networks (BBNs) for each feature learning methodology to better understand the causal dependencies between informative genes (**FIG. 4B-C**). Genes that end up closer to the top of the directed acyclic graph (DAG) are more likely to have causal influence over those lower in the DAG. Changes in these upstream genes are more likely to lead to state changes of the downstream genes, thus affecting genes that are informative in class separability. We hypothesize that upstream genes in the BBNs would be useful molecular markers for class discrimination (diagnostics) or novel therapeutic targets. For the integrative nGOseq feature learning, we identified multiple methylated genes, *CFPL2*, *FAM134C*, *CNGA4*, *ACAD9*, and *PPIF* (**FIG. 4B**), that lie upstream in the BBN, while for MEGENA feature learning we identified 2 expression genes and 3 methylated genes, *RP11.59C5.3*, *RP11.39404.5*, *RP11.517H2.6*, *FOXJ3*, *RP11.299J3.8 9* (**FIG. 4C**), and *CCR1*, that lie upstream in the BBN. Most striking is the MEGENA feature learning derived BBN has 4 of 6 non-functionally annotated upstream genes. In addition, several other genes had upstream qualities in the BBNs for both feature learning methodologies (**FIG. 4D-E** – black band), thus also being hypothetical candidates as molecular markers or therapeutic targets. Selected upstream genes for the other 3 binomial comparisons include; LUAD vs. LUSC – nGOseq: *DTX3L* and *PLD1*, MEGENA: *ABI2*, *ABALON*, and *IDE*, ER+ vs. ER- – nGOseq: *TFDP1*, *BCL11A*, and *SOSTDC1*, MEGENA: *LYN*, *RPRML*, and *CHAC1*, Luminal A vs. Luminal B – nGOseq: *TP63*, *SORCS1*, and *APC2*, MEGENA: *OR1L4*, *SLC7A10*, and *SUCLA2*.

[0261] We mined available literature using natural language processing (NLP) to determine the connectivity of the top 100 genes to cancer, tissue specific cancer, and to other genes[46]. Unsurprisingly, we found that informative genes from nGOseq feature learning were more significantly connected to cancer, survival, and between themselves in comparison to MEGENA feature learning with an average degree (edges per node) of 16.95 compared to 7.13 (**FIG. 4D-E**). This trend is consistent across the other 3 binomial comparisons. Moreover, 22 of the most informative MEGENA genes for KIRC vs. KIRP are functionally un-annotated (**FIG. 4E** – blue band) with 6 being considered upstream genes in the BBN. This demonstrates that a significant amount of biological information exists in functionally un-annotated genes that would not have be discovered with *a priori* knowledge approaches (*e.g.* nGOseq). However, both approaches also identified many known cancer and immune related genes (**FIG. 4D-E** – purple band) including; nGOseq: *ATM*, *CD34*, *CDK5*, *JUN*, *MET*, *NFATC2*, *PRKCA*, *RAC1* and MEGENA: *CCR1*, *HK1*, *RACGAP1*.

[0262] We then examined if the top 100 genes for each feature learning methodology were associated with any known drug targets by mining DrugBank and Pharmacodia for existence of clinical trials in any indication. We found 14 genes from nGOseq and 11 genes from MEGENA, for the KIRC vs. KIRP comparison, that have existing therapeutics in which the gene is linked to the mechanism of action, some specifically in cancers such as *CDK5*, *LCK*, *MAPK11*, *MET*, and *MMP16*. This indicates that a portion of the identified genes are already therapeutic targets, but also that a substantial amount of the discovered gene space is still unexplored including many functionally un-annotated genes.

[0263] Given our methodologies success in classifying various tumor subtypes, we sought to understand the genetic similarities and differences driving a diverse set of tumors across multiple

tissues of origin. We extended the applicability of our deep learning approach to a multinomial comparison of 22 cancer types across the TCGA database, following a similar strategy as described above for the binomial models. We focused on TCGA cancer types (**Table A**) with sufficient sample size (>100) and molecular measurements from all 5 data types. Thus, a total of 8,272 samples representing 22 cancer types (**Table A**) were used for further analysis. Due to the difficulty in establishing viable multinomial statistical models to calculate differential genes within the 5 data types, we only applied our data-driven MEGENA feature learning approach for this analysis. The multinomial deep learning models served as a benchmark of the scalability of our methodology and provided further insights into the applicability of our approach in understanding molecular cues underlying diverse cancer types.

[0264] MEGENA feature learning collapsed the original 78,915 molecular measurements from the 5 data types into 743 modules and this data matrix at the module level was used as the input for the two initial deep learning models. In short, we again trained both DANNs and DBNNs (using training data) and automatically tuned model hyper-parameters. Classification performance (**FIG. 5A**) of both deep learning techniques consisted of multiclass AUCs of 0.999, model accuracies greater than 0.95, and F1 scores greater than 0.90. These statistics indicated that our deep learning models performed exceptionally well in multinomial classification similar to our binomial models (**FIG. 4A**). Next, we calculated the relative importance, based on saliency maps derived from our ensemble DANN and DBNN deep learning models, of the most informative MEGENA modules for each cancer type (**FIG. 5B**). For each cancer type, there was a unique set of modules important for classification that differed among these cancer types. However, to our surprise, we also found important modules that are shared among different cancer types (e.g., c1_22_Block_14) which suggests a high degree of shared biology across

cancers, despite their differences. This supports the notion that there are overlapping molecular factors underlying cancer biology.

[0265] One possible explanation for how well our models classified different tumor types is that the discovered molecular signatures simply reflect tissue of origin biology rather than specific tumor biology. Interestingly, important modules did not appear to cluster by tissue of origin as lung cancer subtypes (LUSC and LUAD) as well as kidney cancer subtypes (KIRP and KIRC) were separated from each other in the clustergram (**FIG. 5B**). However, to directly assess the possible confounding issues of tissue of origin signal, we employed our multinomial ensemble computational intelligence approach using only mRNA expression data (RNA-seq) to classify 19 cancer types along with sufficient matching normal tissue samples (17 tissues from GTEx and/or TCGA)(Consortium, G. T. *Nat Genet* 45, 580-585, (2013); Consortium, G. T. *Science* 348, 648-660, (2015); Consortium, G. T. *et al. Nature* 550, 204-213, (2017)). Our methodology led to near perfect classification (multiclass AUCs greater than 0.99, model accuracies greater than 0.95, and F1 scores greater than 0.95) at both the MEGENA module (n=236) and gene levels (n=3059) in also segregating specific tumor types from matching normal tissue samples.

[0266] In addition, we utilized our computational approach on only normal tissues (as described above) and used it to classify the 17 tissues of origin which showed perfect discriminatory capabilities. We assessed if we could use this model, trained on only normal tissues, to predict tissue of origin of the 19 cancer types. The model showed marginal ability to predict tissue of origin of tumors. This concept is further illustrated by a 5th integrated binomial comparison of BRCA vs. normal (73 matched tumor and normal samples). As with the integrated binomial LUAD vs. LUSC comparison described above, this model yielded perfect classification performance (AUC = 1; model accuracy = 1; F1 Score = 1) with both deep learning techniques

and both feature learning methodologies on the held-out test dataset at the module/gene-set and gene levels. Moreover, BNN analysis of nGOseq and MEGENA top 100 genes identified potential molecular markers or therapeutic targets, including *AURKB*, *DDR2*, *MAML*, *AVPI1* and *PSMD11* which overlap with known breast cancer related genes. Interestingly, we also discovered a gene related to the dopamine receptor pathway (DRD2) that has recently garnered attention as an anti-cancer target using thioridazine (an anti-psychotic). Taken together, these results demonstrate that the similarities and differences between the diverse cancer types identified by our computational intelligence approach are not primarily due to a tissue of origin signal.

[0267] Therefore, we assessed the biological significance of the genes in the most informative MEGENA modules from the pan 22 cancer DANNs and DBNNs with integrative nGOseq functional enrichment (selected nGO terms in **FIG. 5C**). We discovered that the genes making up the 13 modules showed significant enrichment (p-value ≤ 0.05) for all 10 of the hallmarks of cancer_ENREF_50 (Hanahan, D. *et al. Cell* 144, 646-674, doi:10.1016/j.cell.2011.02.013 (2011).). Even more notable was that we identified these enriched pathways nested in highly relevant GO terms (**FIG. 5B** – left column is nGO term and right column is GO term). For example, enrichment of *lymphocyte activation*, an immune related process, was nested in the *cellular response to DNA damage stimulus* GO term indicating that the immune response is tied to canonical oncogenic processes. In addition, we found more well-known process such as *PI3K binding* nested in *ion binding*, *response to FGF* nested in *cell differentiation*, and *regulation of G1/S transition of mitotic cell cycle* nested in *cell differentiation*. Taken together, these results indicate that our deep learning approach at the module level can identify relevant cancer biology shared across multiple tumor types.

[0268] As we did for the binomial models above, the most important modules were then determined and all molecular measurements that were within these modules/gene-sets were aggregated into a gene level matrix. This matrix consisted of 1316 genes made up of 445 mRNA, 20 miRNA, 22 STV, and 829 methylation measurements. CNV data was not present most likely due to the low frequency of alterations shared across cancers with similar reasoning justifying the low number of STVs in the final gene matrix. As with our binomial approach, we observed a marked increase in model performance on the test data set at the gene level compared to the module level with AUCs, accuracies, and F1 scores all greater than 0.99. We misclassified only 7 of 1645 and 9 of 1645 test samples using DANN and DBNN models respectively, with 5 overlapping misclassifications. We then calculated the top 100 most informative genes for each of the 22 cancer types, based on the intersection of saliency maps derived from our ensemble DANN and DBNN deep learning models, ordered the union set by the total number of occurrences (i.e. the number of cancers the gene is important in), and subsequently filtered the list by removing genes important in less than 5 cancers which lead to a list that consisted of 200 informative genes shared across 22 cancer types (**Table M**).

[0269] The top 51 genes, which are informative in 6 or more cancers, are shown in **FIG. 5D** for all 8,272 samples (training and testing data sets) with *KCNQ1* (METH), *PIK3CA* (METH), *IL-20* (METH), *STON2* (METH), *RP11.540D14.8* (METH), *AGT* (METH), *HAS2-AS1* (mRNA), *XPR1* (mRNA), *NFIX* (mRNA), and *MGMT* (METH) ranked as the top 10 genes respectively. *PIK3CA* is a member of the well-studied PI3K family which has been shown to significantly contribute to the development of cancer_ENREF_51 (Fruman, D. A. *et al. Nature Reviews Drug Discovery* 13, 140-156, (2014).), *KCNQ1* is a voltage gated potassium channel that may have a potential role in GI cancer_ENREF_52 (Than, B. L. N. *et al. Oncogene* 33, 3861-3868, (2014).), *AGT* is

part of the Renin-angiotensin system which plays a role in many oncogenic processes_ENREF_53 (Pinter, M. *et al.* 5616, (2017).), and *IL-20* in an emerging pro-inflammatory cytokine that may regulate proliferation and metastasis (Lee, S. J. *et al. Journal of Biological Chemistry* 288, 5539-5552, (2013); Hsu, Y.-H. *et al. The Journal of Immunology* 188, 1981-1991, (2012)). Collectively, these results demonstrate that our computational methodology was able to discover both known and novel genomic details shared between multiple cancer types.

[0270] To assess the biological relevance of the outcome of our gene-level models in cancer, we again performed NPL on the top 200 informative genes from multinomial comparison (Figure 3e). We identified associations between many of the top 200 genes and cancer in published literature. Notably, we discovered 46 informative genes across 22 cancer types that currently have no association with cancer or other genes in published literature (**FIG. 5E** – purple band) with 26 that have no associated functional annotation (**FIG. 5E** – blue band). Therefore, we believe that our deep learning models identified new associations between poorly characterized genes (*i.e.*, RP11 genes) and cancer and propose that this is a highly valuable tool to identify new therapeutic targets. Importantly, our model also identified several genes that are known drug targets, including *PIK3CA*_ENREF_56 (Pixu Liu, H. C. *et al. Nature Reviews Drug Discovery* 8, 627-644, (2009).), *EGF*_ENREF_57 (Parthasarathy Seshacharyulu, M. P. P., *et al. Expert Opinion on Therapeutic Targets* 16, 15-31, (2012).) and *ADAM28*_ENREF_58 (Maeve Mullooly, P. M. M., *et al. Cancer Biology & Therapy* 17, 870-880, (2016).), (**FIG. 5E** – bold italicized names) which are highly associated with cancer and to other genes (**FIG. 5E** – dark purple in inner band). Combined, these two observations suggest that our multinomial model can

generate testable hypotheses for new therapeutic targets as well as capture more un-known cancer biology.

[0271] We then investigated the prognostic utility of TCGA molecular data in predicting patient survival. We focused on 20 cancer types for survival analysis that included molecular data from all 5 data types, significant follow up data (more than 5% of follow-ups were reported as deceased), and sufficient sample size and thus a total of 7,822 samples were used in subsequent analysis. Unlike most existing work (Yuan, Y. *et al. Nat Biotechnol* 32, 644-652, (2014); Director's Challenge Consortium for the Molecular Classification of Lung, A. *et al. Nat Med* 14, 822-827, (2008); Cheng, W. Y. *et al. Sci Transl Med* 5, 181ra150, (2013); Ceccarelli, M. *et al. Cell* 164, 550-563, (2016)) where clinical information such as molecular subtype, grade, stage, etc. were used in survival analysis our analysis only included a single clinical variable, age, to help control for two well-known factors; risk of death as age increases and the use of overall survival (death from any cause) instead of disease-specific survival (death from the specific disease only). Therefore, our models were focused on assessing the prognostic utility of molecular scale information. We hypothesized that investigating survival across multiple cancer types would benefit from multiple factors: (1) increased statistical power due to increased sample size, (2) an increased incidence of death as right censored data is highly informative but notoriously difficult to model, and (3) there exist shared molecular factors between cancers that contain significant prognostic value when interrogating data across multiple cancer types.

[0272] In order to adequately assess the prognostic utility of molecular information, we determined that it was critical to balance for multiple factors when splitting the dataset into training and testing sets. We stratified the dataset based on age (collapsed into 2 year intervals), overall survival (collapsed into 2 month intervals), survival status (LIVING vs. DECEASED),

and cancer type in order to preserve the overall data distribution between the training and testing datasets. We built our predictive survival models on the training data set using deep hazard neural networks (DHNNs, see Supplemental Materials and Methods) with the same workflow to move from the module/gene-set level to the gene level as used in previous models. Two different metrics were used to assess model performance, c-index and tAUC (Uno, H., *et al.* Stat Med 30, 1105-1117, (2011).), both of which scale between 0 and 1 where 0.5 is no better than random while 1.0 is perfect model concordance.

[0273] All DHNN models, MEGENA and nGOseq at both the module and gene level, showed substantial predictive performance (**FIG. 6A**) with overall model c-indices of (0.75, 0.76, 0.75, 0.76) and overall temporal AUCs of (0.75, 0.75, 0.75, 0.75). When model statistics at the MEGENA module level were broken down by individual cancer types (**FIG. 6B**), where models were trained on all cancer types but the predictive power was evaluated on each cancer type, 9 of 20 cancer types have a predictive test statistic (c-index or tAUC) above 0.70 and 15 of 20 cancers have a predictive test statistic (c-index or tAUC) above 0.60. Cancers with predictive statistics above 0.70 are similar (e.g. BRCA and LGG) or surpass the current state of the art predictive capabilities of survival models (Director's Challenge Consortium for the Molecular Classification of Lung, A. et al. Nat Med 14, 822-827, (2008); Cheng, W. Y. et al. Sci Transl Med 5, 181ra150, (2013); Ceccarelli, M. et al. Cell 164, 550-563, (2016); Bianchi, F. *et al. J Clin Invest* 117, 3436-3444, (2007); Guinney, J. *et al. The Lancet Oncology* 18, 132-142, (2017); Mankoo, P. K., *et al. PLoS One* 6, e24709, (2011)). Furthermore, these predictions are based on molecular scale features and contain no clinical information other than age, thus demonstrating that molecular scale information has significantly more prognostic power than previously suggested_ENREF_59 (Yuan, Y. *et al. Nat Biotechnol* 32, 644-652, (2014)). Survival models at

the MEGENA gene level, nGOseq module level, and nGOseq gene level demonstrate similar trends in predictive power across multiple cancer types; however, these models have increased variability in predictive power between training and testing data sets.

[0274] In order to better understand the possible shared nature of molecular risk factors across multiple cancer types, we trained a survival model at the MEGENA module level on data from 19 of the 20 cancer types and tested on the left-out cancer type (in this case UCEC). The c-index and tAUC metrics (**FIG. 6C**) on the left-out UCEC samples were 0.70 and 0.71 respectively, which denoted that the survival model retained predictive capabilities on an unknown cancer type. This indicated that shared molecular scale risk factors exist between UCEC and at least a portion of the other 19 cancers.

[0275] To determine if risk groups exist in within the predictive survival models, we used the model predicted risks and stratified each cancer into 2 groups (high-risk and low-risk) based on the median predicted risk from the training data set (6,225 samples). **FIG. 6D** shows Kaplan-Meier plots for the training and held-out testing samples stratified by median training data set risk for each of the 20 cancer types at the MEGENA module level. 19 of 20 cancer types from the training data sets and 10 of 20 cancer types from the testing data set (**FIG. 6D** – bolded names) showed significant differences (by log rank test, p-value ≤ 0.05) in risk between the 2 groups, indicating the prognostic utility of molecular information in stratifying patients into risk groups. Again, survival models at the MEGENA gene level, nGOseq module level, and nGOseq gene level demonstrate similar trends in risk stratification. Most notably from the test data set, CESC (p=0.048, log-rank), KIRP (p=0.0033, log-rank), LGG (p=0.0039, log-rank), LUAD (p=0.014, log-rank), and STAD (p=0.014, log-rank) showed clearly delimited risk groups, with the high-risk groups having less than ~60% survival by 30 months compared to greater than

~85% survival in the lower risk group (STAD is slightly different with 25% and 70% respectively). In addition, we were able to stratify a high-risk population from the test data set for BRCA (p=0.0014, log-rank), CRAD (p=0.0033, log-rank), OV (p=0.037, log-rank), PRAD (p=0.021, log-rank), and UCEC (p=0.0019, log-rank) with BLCA, HNSC, and KIRC bordering on statistically significant risk groups (p=0.11, 0.16, and 0.055 respectively, log-rank). For BRCA, our patient stratification results were similar to those found by the DREAM breast cancer prognosis challenge_ENREF_67 (Cheng, W.-y., *et al. Science translational medicine* 5, 181ra150, (2013)). Similarly, LGG stratification was comparable to the hyper-methylation subset discovered within all glioblastoma stages_ENREF_68 (Ceccarelli, M. *et al. Cell* 164, 550-563, (2016)). These results show that prediction of risk groups in multiple cancer types could have significant impact on patient prognosis, biomarker development, and identification of appropriate treatment regimes.

[0276] We explored the most important molecular markers from each of the survival models at the gene level to gain mechanistic understanding of patterns of survival across multiple cancer types. We identified important molecular features using two complementary methods; univariate assessments of significant hazard ratios and saliency mapping of the gene level DHNNs to determine the most informative genes.

[0277] Univariate hazards ratios were calculated for each cancer type for both the input gene level lists from MEGENA and nGOseq feature learning using a simple cox proportional hazards model with the gene of interest as the only covariate. All p-values were corrected with Benjamini-Hochberg false-discovery and the number of shared hazards ratios between each pair of cancers were calculated (**FIG. 7A-B**). Both nGOseq and MEGENA feature learning methodologies showed a large number of shared significant hazards ratios (p-value ≤ 0.05,

likelihood ratio test) between different cancer types with BRCA, BLCA, LGG, LUAD, LUSC, KIRP, KIRC, and UCEC specifically enriched for shared risk factors between each other and with other cancer types. However, the maximum number of shared cancers for significant hazard ratios was only 7 (LIHC, LGG, KIRC, LUAD, CESC, LUSC, and KIRP) indicating that we are more likely identifying shared risk factors between multiple cancers and not fully pan-cancer signals. These results demonstrate that our survival models are not finding only cancer-type specific prognostic molecular markers as a large portion of important molecular features at the gene level are shared across multiple cancers.

[0278] In order to assess the contribution of genes to survival predictions in a more multivariate manner we computed saliency maps for both MEGENA and nGOseq DHNN models at the gene level and determined the top 100 most informative genes associated with survival for each model. The top 100 genes for nGOseq consisted of methylation, CNV, mRNA and STV data types while those for MEGENA consisted of methylation, mRNA, STV, and miRNA data types. This indicates that all 5 types of molecular information have some prognostic utility. We then constructed Bayesian belief networks for the top 100 genes for both nGOseq and MEGENA (**FIG. 7C-D**) to better understand the causal drivers of survival. The most upstream genes in the network for nGOseq were *EFNA2* (CNV), *TBC1D10C* (mRNA), *RAB15* (Methylation), *KLHL10* (Methylation), and *CACNG4* (Methylation). *EFNA2* belongs to the Eph family of receptor tyrosine kinases while *TBC1D10C* and *RAB15* are part of the Ras oncogene pathway. The most upstream drivers in the network for MEGENA were *TUBB2B* (mRNA), *TERC* (Methylation), *FCGR2A* (mRNA), *CDK4* (STV), and *GCNT4* (mRNA). *TUBB2D* is an isoform of tubulin which forms the basis of microtubules, *TERC* maintains teleomere ends, *FCGR2A* is a major immune receptor found mainly on B-cells, and *CDK4* is a well-known Ser/Thr protein kinase

implicated in a multitude of cancers (also a target for multiple developed drugs). Taken together these results indicate that a multitude of biological pathways (from cellular senescence to cellular division to the immune response) play a role in determining patient survival across multiple cancer types.

[0279] To validate the importance of a portion of the top 100 most informative genes we identified significant hazard ratios for BRCA using the same univariate analysis as described above (only of the top 100 genes) and performed a similar analysis with the METABRIC dataset, another publically available BRCA dataset consisting of molecular measurements (mRNA and CNV data only) and survival information_ENREF_61 (Cheng, W. Y. *et al. Sci Transl Med* 5, 181ra150, (2013).). For nGOseq there were 24 significant hazard ratios of which 10 mRNAs and 3 CNVs are present in both datasets, while for MEGENA there were 23 significant hazard ratios of which 9 mRNAs and 0 CNVs are present in both datasets. Of the TCGA identified significant hazard ratios, 7 of 10 mRNA and 2 of 3 CNVs from the most informative nGOseq genes were also significant in the METABRIC data, while 4 of 9 mRNA from the most informative MEGENA genes were also significant in the METABRIC data. This demonstrates that our identified prognostic molecular markers are not dataset specific, however this needs to be further validated with additional patient data.

[0280] We mined available literature using natural language processing to determine the connectivity of the top 100 genes to survival and between the most informative genes (**FIG. 5E-F**). We found results similar to those shown above (binomial models) in which nGOseq genes are much more connected to cancer, survival, and between themselves in comparison to MEGENA genes. This indicates that MEGENA feature learning tends to bring more novel information to the survival models. In addition, 22 of the top 100 MEGENA genes are un-

annotated indicating that there are significant prognostic molecular factors that we have limited understanding of (*i.e. RP11-1055B8.1*). Yet, saliency mapping (for both nGOseq and MEGENA) also identified many known cancer related processes and molecules which include; known oncogenes (*i.e. TP63*, *MAP2K2*, *CDKN2A*), kinase pathways (*MAP2K2*, *CDK4*), and immune related molecules (*FCGR2A*, *CD80*, *TGFB1*). This reinforces the theme that a multitude of biological processes contribute to patient survival and that no one single factor is the determinant of our model predictions; however, there exist a multitude of shared molecular factors that are prognostic across multiple cancer types.

[0281] Referring now to **FIG. 8**, a schematic of an example of a computing node is shown. Computing node **10** is only one example of a suitable computing node and is not intended to suggest any limitation as to the scope of use or functionality of embodiments of the invention described herein. Regardless, computing node **10** is capable of being implemented and/or performing any of the functionality set forth hereinabove.

[0282] In computing node **10** there is a computer system/server **12**, which is operational with numerous other general purpose or special purpose computing system environments or configurations. Examples of well-known computing systems, environments, and/or configurations that may be suitable for use with computer system/server **12** include, but are not limited to, personal computer systems, server computer systems, thin clients, thick clients, handheld or laptop devices, multiprocessor systems, microprocessor-based systems, set top boxes, programmable consumer electronics, network PCs, minicomputer systems, mainframe computer systems, and distributed cloud computing environments that include any of the above systems or devices, and the like.

[0283] Computer system/server **12** may be described in the general context of computer system-executable instructions, such as program modules, being executed by a computer system. Generally, program modules may include routines, programs, objects, components, logic, data structures, and so on that perform particular tasks or implement particular abstract data types. Computer system/server **12** may be practiced in distributed cloud computing environments where tasks are performed by remote processing devices that are linked through a communications network. In a distributed cloud computing environment, program modules may be located in both local and remote computer system storage media including memory storage devices.

[0284] As shown in **FIG. 8**, computer system/server **12** in computing node **10** is shown in the form of a general-purpose computing device. The components of computer system/server **12** may include, but are not limited to, one or more processors or processing units **16**, a system memory **28**, and a bus **18** that couples various system components including system memory **28** to processor **16**.

[0285] Bus **18** represents one or more of any of several types of bus structures, including a memory bus or memory controller, a peripheral bus, an accelerated graphics port, and a processor or local bus using any of a variety of bus architectures. By way of example, and not limitation, such architectures include Industry Standard Architecture (ISA) bus, Micro Channel Architecture (MCA) bus, Enhanced ISA (EISA) bus, Video Electronics Standards Association (VESA) local bus, and Peripheral Component Interconnect (PCI) bus.

[0286] Computer system/server **12** typically includes a variety of computer system readable media. Such media may be any available media that is accessible by computer system/server **12**, and it includes both volatile and non-volatile media, removable and non-removable media.

[0287] System memory **28** can include computer system readable media in the form of volatile memory, such as random access memory (RAM) **30** and/or cache memory **32**. Computer system/server **12** may further include other removable/non-removable, volatile/non-volatile computer system storage media. By way of example only, storage system **34** can be provided for reading from and writing to a non-removable, non-volatile magnetic media (not shown and typically called a "hard drive"). Although not shown, a magnetic disk drive for reading from and writing to a removable, non-volatile magnetic disk (*e.g.*, a "floppy disk"), and an optical disk drive for reading from or writing to a removable, non-volatile optical disk such as a CD-ROM, DVD-ROM or other optical media can be provided. In such instances, each can be connected to bus **18** by one or more data media interfaces. As will be further depicted and described below, memory **28** may include at least one program product having a set (*e.g.*, at least one) of program modules that are configured to carry out the functions of embodiments of the invention.

[0288] Program/utility **40**, having a set (at least one) of program modules **42**, may be stored in memory **28** by way of example, and not limitation, as well as an operating system, one or more application programs, other program modules, and program data. Each of the operating system, one or more application programs, other program modules, and program data or some combination thereof, may include an implementation of a networking environment. Program modules **42** generally carry out the functions and/or methodologies of embodiments of the invention as described herein.

[0289] Computer system/server **12** may also communicate with one or more external devices **14** such as a keyboard, a pointing device, a display **24**, etc.; one or more devices that enable a user to interact with computer system/server **12**; and/or any devices (*e.g.*, network card, modem, etc.) that enable computer system/server **12** to communicate with one or more other computing

devices. Such communication can occur via Input/Output (I/O) interfaces **22**. Still yet, computer system/server **12** can communicate with one or more networks such as a local area network (LAN), a general wide area network (WAN), and/or a public network (*e.g.*, the Internet) via network adapter **20**. As depicted, network adapter **20** communicates with the other components of computer system/server **12** via bus **18**. It should be understood that although not shown, other hardware and/or software components could be used in conjunction with computer system/server **12**. Examples, include, but are not limited to: microcode, device drivers, redundant processing units, external disk drive arrays, RAID systems, tape drives, and data archival storage systems, etc.

[0290] The present invention may be a system, a method, and/or a computer program product. The computer program product may include a computer readable storage medium (or media) having computer readable program instructions thereon for causing a processor to carry out aspects of the present invention.

[0291] The computer readable storage medium can be a tangible device that can retain and store instructions for use by an instruction execution device. The computer readable storage medium may be, for example, but is not limited to, an electronic storage device, a magnetic storage device, an optical storage device, an electromagnetic storage device, a semiconductor storage device, or any suitable combination of the foregoing. A non-exhaustive list of more specific examples of the computer readable storage medium includes the following: a portable computer diskette, a hard disk, a random access memory (RAM), a read-only memory (ROM), an erasable programmable read-only memory (EPROM or Flash memory), a static random access memory (SRAM), a portable compact disc read-only memory (CD-ROM), a digital versatile disk (DVD), a memory stick, a floppy disk, a mechanically encoded device such as punch-cards or raised

structures in a groove having instructions recorded thereon, and any suitable combination of the foregoing. A computer readable storage medium, as used herein, is not to be construed as being transitory signals per se, such as radio waves or other freely propagating electromagnetic waves, electromagnetic waves propagating through a waveguide or other transmission media (*e.g.*, light pulses passing through a fiber-optic cable), or electrical signals transmitted through a wire.

[0292] Computer readable program instructions described herein can be downloaded to respective computing/processing devices from a computer readable storage medium or to an external computer or external storage device via a network, for example, the Internet, a local area network, a wide area network and/or a wireless network. The network may comprise copper transmission cables, optical transmission fibers, wireless transmission, routers, firewalls, switches, gateway computers and/or edge servers. A network adapter card or network interface in each computing/processing device receives computer readable program instructions from the network and forwards the computer readable program instructions for storage in a computer readable storage medium within the respective computing/processing device.

[0293] Computer readable program instructions for carrying out operations of the present invention may be assembler instructions, instruction-set-architecture (ISA) instructions, machine instructions, machine dependent instructions, microcode, firmware instructions, state-setting data, or either source code or object code written in any combination of one or more programming languages, including an object oriented programming language such as Smalltalk, C++ or the like, and conventional procedural programming languages, such as the "C" programming language or similar programming languages. The computer readable program instructions may execute entirely on the user's computer, partly on the user's computer, as a stand-alone software package, partly on the user's computer and partly on a remote computer or

entirely on the remote computer or server. In the latter scenario, the remote computer may be connected to the user's computer through any type of network, including a local area network (LAN) or a wide area network (WAN), or the connection may be made to an external computer (for example, through the Internet using an Internet Service Provider). In some embodiments, electronic circuitry including, for example, programmable logic circuitry, field-programmable gate arrays (FPGA), or programmable logic arrays (PLA) may execute the computer readable program instructions by utilizing state information of the computer readable program instructions to personalize the electronic circuitry, in order to perform aspects of the present invention.

[0294] Aspects of the present invention are described herein with reference to flowchart illustrations and/or block diagrams of methods, apparatus (systems), and computer program products according to embodiments of the invention. It will be understood that each block of the flowchart illustrations and/or block diagrams, and combinations of blocks in the flowchart illustrations and/or block diagrams, can be implemented by computer readable program instructions.

[0295] These computer readable program instructions may be provided to a processor of a general purpose computer, special purpose computer, or other programmable data processing apparatus to produce a machine, such that the instructions, which execute via the processor of the computer or other programmable data processing apparatus, create means for implementing the functions/acts specified in the flowchart and/or block diagram block or blocks. These computer readable program instructions may also be stored in a computer readable storage medium that can direct a computer, a programmable data processing apparatus, and/or other devices to function in a particular manner, such that the computer readable storage medium having instructions stored therein comprises an article of manufacture including instructions which

implement aspects of the function/act specified in the flowchart and/or block diagram block or blocks.

[0296] The computer readable program instructions may also be loaded onto a computer, other programmable data processing apparatus, or other device to cause a series of operational steps to be performed on the computer, other programmable apparatus or other device to produce a computer implemented process, such that the instructions which execute on the computer, other programmable apparatus, or other device implement the functions/acts specified in the flowchart and/or block diagram block or blocks.

[0297] The flowchart and block diagrams in the Figures illustrate the architecture, functionality, and operation of possible implementations of systems, methods, and computer program products according to various embodiments of the present invention. In this regard, each block in the flowchart or block diagrams may represent a module, segment, or portion of instructions, which comprises one or more executable instructions for implementing the specified logical function(s). In some alternative implementations, the functions noted in the block may occur out of the order noted in the figures. For example, two blocks shown in succession may, in fact, be executed substantially concurrently, or the blocks may sometimes be executed in the reverse order, depending upon the functionality involved. It will also be noted that each block of the block diagrams and/or flowchart illustration, and combinations of blocks in the block diagrams and/or flowchart illustration, can be implemented by special purpose hardware-based systems that perform the specified functions or acts or carry out combinations of special purpose hardware and computer instructions.

[0298] The descriptions of the various embodiments of the present invention have been presented for purposes of illustration, but are not intended to be exhaustive or limited to the

embodiments disclosed. Many modifications and variations will be apparent to those of ordinary skill in the art without departing from the scope and spirit of the described embodiments. The terminology used herein was chosen to best explain the principles of the embodiments, the practical application or technical improvement over technologies found in the marketplace, or to enable others of ordinary skill in the art to understand the embodiments disclosed herein.

APPENDIX A

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	cnv_MT1H	cnv	MT1H	YES	9
1	cnv_ZPLD1	cnv	ZPLD1	YES	2
2	mrna_C6orf203	mrna	C6orf203	YES	1
2	stv_LINC00996	stv	LINC00996	NO	0
3	mrna_PSMD11	mrna	PSMD11	YES	43
3	mrna_ACLY	mrna	ACLY	YES	31
4	cnv_MTVR2	cnv	MTVR2	NO	0
4	mrna_FBXO3	mrna	FBXO3	YES	7
5	meth_AKAP12	meth	AKAP12	YES	16
5	mrna_SLC4A8	mrna	SLC4A8	YES	22
6	cnv_GLYAT	cnv	GLYAT	YES	13
6	mrna_MAMDC2	mrna	MAMDC2	YES	6
7	cnv_ABHD10	cnv	ABHD10	YES	8
7	mrna_PRIMA1	mrna	PRIMA1	YES	8
8	cnv_ZC3H12A	cnv	ZC3H12A	YES	92
8	meth_DUSP26	meth	DUSP26	YES	22
9	cnv_TOX3	cnv	TOX3	YES	13
9	stv_EXOC3L1	stv	EXOC3L1	YES	9
10	mrna_PPAT	mrna	PPAT	YES	26
10	mrna_SGOL1	mrna	SGOL1	YES	17
11	cnv_PLXND1	cnv	PLXND1	YES	27
11	cnv_TMEM184C	cnv	TMEM184C	YES	4
12	mrna_FAM35A	mrna	FAM35A	NO	0
12	mrna_CACHD1	mrna	CACHD1	YES	2
13	cnv_CXCL8	cnv	CXCL8	YES	38
13	cnv_SLC16A6	cnv	SLC16A6	YES	9
14	mrna_METTL17	mrna	METTL17	YES	8
14	mrna_RP5-1065J22.8	mrna	RP5-1065J22.8	NO	0
15	meth_CUL1	meth	CUL1	YES	36
15	mrna_MYOM2	mrna	MYOM2	YES	18
16	meth_FOXC1	meth	FOXC1	YES	77
16	mrna_CTCF	mrna	CTCF	YES	41
17	meth_HK1	meth	HK1	YES	31
18	meth_AATK	meth	AATK	YES	20
18	mrna_TOB1-AS1	mrna	TOB1-AS1	NO	0
19	cnv_HMGN1	cnv	HMGN1	YES	18
19	mrna_MAFG	mrna	MAFG	YES	19
20	mirna_MIR4738	mirna	MIR4738	NO	0
20	stv_KIF13A	stv	KIF13A	YES	35
21	mrna_PRR11	mrna	PRR11	YES	5
21	mrna_GSTT2B	mrna	GSTT2B	YES	9
22	meth_CCL18	meth	CCL18	YES	23
22	stv_BRD9	stv	BRD9	YES	8
23	meth_RASSF4	meth	RASSF4	YES	3
23	mrna_SPRED2	mrna	SPRED2	YES	17
24	mrna_EFR3B	mrna	EFR3B	YES	7
24	stv_TLR8	stv	TLR8	YES	38
25	mrna_ANKMY2	mrna	ANKMY2	YES	6
25	mrna_GFM1	mrna	GFM1	YES	12
26	cnv_SGSM1	cnv	SGSM1	YES	12
26	cnv_TMCO5B	cnv	TMCO5B	NO	0

27	mrna_TBC1D8	mrna	TBC1D8	YES	10
27	mrna_GS1-124K5.11	mrna	GS1-124K5.11	NO	0
28	cnv_CES5A	cnv	CES5A	YES	5
28	mrna_EZH2	mrna	EZH2	YES	69
29	cnv_PSMG1	cnv	PSMG1	YES	11
29	mrna_LRRIQ1	mrna	LRRIQ1	YES	1
30	mirna_MIR676	mirna	MIR676	NO	0
30	stv_NQO1	stv	NQO1	YES	28
31	meth_C19orf70	meth	C19orf70	YES	8
31	mrna_ABCG1	mrna	ABCG1	YES	56
32	mirna_MIR3940	mirna	MIR3940	NO	0
32	mrna_PTS	mrna	PTS	YES	14
33	cnv_LOC101929268	cnv	LOC101929268	NO	0
33	mrna_B4GALT1	mrna	B4GALT1	YES	59
34	mrna_MAP3K14-AS1	mrna	MAP3K14-AS1	NO	0
34	stv_AQP3	stv	AQP3	YES	25
35	mrna_SAMD11	mrna	SAMD11	YES	6
35	mrna_ZDHHC11B	mrna	ZDHHC11B	YES	5
36	meth_ACADS	meth	ACADS	YES	19
36	stv_RNF141	stv	RNF141	YES	6
37	meth_RPS24	meth	RPS24	YES	28
37	stv_ZNF3	stv	ZNF3	YES	14
38	cnv_EEF1E1	cnv	EEF1E1	YES	18
38	cnv_LRBA	cnv	LRBA	YES	11
39	cnv_CASC3	cnv	CASC3	YES	27
39	stv_DDX39B	stv	DDX39B	YES	45
40	meth_ADAMTS15	meth	ADAMTS15	YES	14
40	mrna_OSR1	mrna	OSR1	YES	63
41	mrna_OSCP1	mrna	OSCP1	YES	5
41	stv_PCDH7	stv	PCDH7	YES	9
42	cnv_LOC101928580	cnv	LOC101928580	NO	0
42	meth_PLIN2	meth	PLIN2	YES	13
43	mrna_SNF8	mrna	SNF8	YES	40
43	mrna_CFAP36	mrna	CFAP36	YES	3
44	cnv_ZC4H2	cnv	ZC4H2	YES	13
44	stv_FXR2	stv	FXR2	YES	15
45	mrna_PEX10	mrna	PEX10	YES	11
45	stv_AVPI1	stv	AVPI1	YES	3
46	cnv_SH3BGR	cnv	SH3BGR	YES	5
46	meth_CCKBR	meth	CCKBR	YES	27
47	cnv_LIPI	cnv	LIPI	YES	10
47	stv_SEPP1	stv	SEPP1	YES	10
48	meth_SP100	meth	SP100	YES	43
48	mrna_PP14571	mrna	PP14571	NO	0
49	mrna_TBRG4	mrna	TBRG4	YES	8
49	mrna_SLC25A32	mrna	SLC25A32	YES	14
50	meth_FBLN1	meth	FBLN1	YES	27
50	mrna_ZSCAN21	mrna	ZSCAN21	YES	13
51	meth_MEG3_1	meth	MEG3	NO	0
51	stv_RP11-196G11.1	stv	RP11-196G11.1	NO	0
52	mrna_THAP5	mrna	THAP5	YES	9
52	stv_THBS2	stv	THBS2	YES	12

53	cnv_LINC00581	cnv	LINC00581	NO	0
53	mrna_MMAB	mrna	MMAB	YES	10
54	cnv_PHF12	cnv	PHF12	YES	16
54	mrna_LRRC37A7P	mrna	LRRC37A7P	NO	0
55	cnv_ZBTB8A	cnv	ZBTB8A	YES	10
55	mirna_MIR5586	mirna	MIR5586	NO	0
56	cnv_PGR	cnv	PGR	YES	37
56	meth_LRP5	meth	LRP5	YES	61
57	cnv_HLF	cnv	HLF	YES	15
57	stv_MUC5B	stv	MUC5B	YES	10
58	mrna_CASD1	mrna	CASD1	YES	9
58	stv_DEFB132	stv	DEFB132	YES	9
59	cnv_LOC157273	cnv	LOC157273	NO	0
59	stv_MEGF11	stv	MEGF11	YES	6
60	cnv_LOC339622	cnv	LOC339622	NO	0
60	mrna_RP11-834C11.7	mrna	RP11-834C11.7	NO	0
61	cnv_BSDC1	cnv	BSDC1	NO	0
61	cnv_SLC35B3	cnv	SLC35B3	YES	11
62	meth_CYBA	meth	CYBA	YES	73
62	mrna_FAM167A	mrna	FAM167A	YES	2
63	cnv_TXNDC5	cnv	TXNDC5	YES	16
63	meth_MMP24	meth	MMP24	YES	26
64	cnv_CATSPER1	cnv	CATSPER1	YES	30
64	meth_PAOX	meth	PAOX	YES	21
65	cnv_NEU3	cnv	NEU3	YES	19
65	mrna_PCSK9	mrna	PCSK9	YES	70
66	meth_CEACAM4	meth	CEACAM4	YES	4
66	stv_NPR2	stv	NPR2	YES	31
67	cnv_RTF1	cnv	RTF1	YES	25
67	stv_LOXL3	stv	LOXL3	YES	26
68	mrna_RWDD2A	mrna	RWDD2A	YES	1
68	mrna_IFITM1	mrna	IFITM1	YES	22
69	meth_BBC3	meth	BBC3	YES	32
69	meth_DUSP22	meth	DUSP22	YES	21
70	meth_CCL8	meth	CCL8	YES	31
70	mrna_RNF212	mrna	RNF212	YES	12
71	cnv_LOC100507639	cnv	LOC100507639	NO	0
71	cnv_TMEM151A	cnv	TMEM151A	YES	2
72	cnv_LOC101928797	cnv	LOC101928797	NO	0
72	stv_ACPP	stv	ACPP	YES	31
73	mrna_AC093616.4	mrna	AC093616.4	NO	0
73	stv_RP11-20A20.2	stv	RP11-20A20.2	NO	0
74	cnv_PITPNC1	cnv	PITPNC1	YES	14
74	mrna_SWSAP1	mrna	SWSAP1	YES	12
75	cnv_PSMD12	cnv	PSMD12	YES	38
75	mrna_PRTFDC1	mrna	PRTFDC1	YES	8
76	meth_WSB2	meth	WSB2	YES	5
76	mirna_MIR5706	mirna	MIR5706	NO	0
77	cnv_TOM1L1	cnv	TOM1L1	YES	24
77	mrna_RP1-197B17.3	mrna	RP1-197B17.3	NO	0
78	cnv_LINC01256	cnv	LINC01256	NO	0
78	mrna_MAOB	mrna	MAOB	YES	27

79	mrna_KLHL8	mrna	KLHL8	YES	5
79	mrna_PLD5	mrna	PLD5	YES	3
80	cnv_LSM4	cnv	LSM4	YES	24
80	mrna_SH3BGRL2	mrna	SH3BGRL2	YES	6
81	meth_MLIP	meth	MLIP	YES	4
81	mrna_ZHX1-C8orf76	mrna	ZHX1-C8orf76	NO	0
82	cnv_ADIG	cnv	ADIG	YES	10
82	mrna_GRIK4	mrna	GRIK4	YES	24
83	cnv_OR5AN1	cnv	OR5AN1	YES	12
83	mrna_FURIN	mrna	FURIN	YES	54
84	cnv_SLC22A25	cnv	SLC22A25	YES	12
84	mrna_ZNF473	mrna	ZNF473	YES	14
85	cnv_HOXA-AS3	cnv	HOXA-AS3	NO	0
85	cnv_SLC22A24	cnv	SLC22A24	YES	14
86	mrna_SEC63	mrna	SEC63	YES	21
86	mrna_MZT1	mrna	MZT1	YES	14
87	cnv_ERG	cnv	ERG	YES	25
87	mrna_RAB34	mrna	RAB34	YES	27
88	mrna_GBA2	mrna	GBA2	YES	22
88	stv_ABHD2	stv	ABHD2	YES	21
89	cnv_LOC105376671	cnv	LOC105376671	NO	0
89	mrna_BAIAP2L1	mrna	BAIAP2L1	YES	22
90	cnv_TSSK3	cnv	TSSK3	YES	17
90	meth_PRSS1	meth	PRSS1	YES	13
91	cnv_CYP4V2	cnv	CYP4V2	YES	17
91	cnv_SYNC	cnv	SYNC	YES	10
92	cnv_TMPRSS11B	cnv	TMPRSS11B	YES	12
92	meth_RAPSN	meth	RAPSN	YES	22
93	mrna_TMTC4	mrna	TMTC4	YES	3
93	mrna_RP11-279F6.1	mrna	RP11-279F6.1	NO	0
94	meth_CRYM	meth	CRYM	YES	21
94	stv_LPCAT3	stv	LPCAT3	YES	16
95	cnv_DLGAP2	cnv	DLGAP2	YES	12
95	meth_TFAP2B	meth	TFAP2B	YES	64
96	cnv_PLCXD2-AS1	cnv	PLCXD2-AS1	NO	0
96	stv_ITIH4	stv	ITIH4	YES	16
97	cnv_CENPI	cnv	CENPI	YES	12
97	mrna_LDHA	mrna	LDHA	YES	33
98	mirna_MIR4652	mirna	MIR4652	NO	0
98	mrna_ADI1	mrna	ADI1	YES	16
99	meth_PNOC	meth	PNOC	YES	13
99	mrna_RP4-555D20.2	mrna	RP4-555D20.2	NO	0
100	cnv_AMBP	cnv	AMBP	YES	27
100	cnv_NRIP1	cnv	NRIP1	YES	32
101	mrna_RP11-110I1.12	mrna	RP11-110I1.12	NO	0
101	stv_STAB2	stv	STAB2	YES	24
102	cnv_PIP5K1C	cnv	PIP5K1C	YES	43
102	stv_PDCD1LG2	stv	PDCD1LG2	YES	14
103	cnv_CD59	cnv	CD59	YES	31
103	mrna_AKTIP	mrna	AKTIP	YES	19
104	mrna_SSPO	mrna	SSPO	YES	4
104	stv_MTR	stv	MTR	YES	20

105	cnv_CLU	cnv	CLU	YES	80
105	stv_TNKS1BP1	stv	TNKS1BP1	YES	21
106	cnv_BZW2	cnv	BZW2	YES	7
106	mrna_ZMYND11	mrna	ZMYND11	YES	28
107	mirna_MIR138	mirna	MIR138	NO	0
107	mrna_SGK1	mrna	SGK1	YES	43
108	stv_VWA3A	stv	VWA3A	YES	1
108	stv_TTC21B-AS1	stv	TTC21B-AS1	NO	0
109	cnv_GATA2-AS1	cnv	GATA2-AS1	NO	0
109	cnv_NOP10	cnv	NOP10	YES	24
110	mrna_CLN8	mrna	CLN8	YES	38
110	mrna_RP4-758J18.10	mrna	RP4-758J18.10	NO	0
111	cnv_LRRC74A	cnv	LRRC74A	NO	0
111	stv_NBR2	stv	NBR2	NO	0
112	meth_PHC2	meth	PHC2	YES	12
112	stv_RPS6KA1	stv	RPS6KA1	YES	45
113	cnv_PDLIM2	cnv	PDLIM2	YES	10
113	mrna_NXPH4	mrna	NXPH4	YES	5
114	cnv_P2RX3	cnv	P2RX3	YES	48
114	stv_ZNF385A	stv	ZNF385A	YES	34
115	meth_KCNJ8	meth	KCNJ8	YES	30
115	stv_FRMD8	stv	FRMD8	YES	2
116	mrna_GALE	mrna	GALE	YES	19
116	stv_OR2G2	stv	OR2G2	YES	11
117	cnv_TRPM1	cnv	TRPM1	YES	22
117	meth_CCDC102A	meth	CCDC102A	YES	2
118	cnv_ZNF805	cnv	ZNF805	YES	7
118	mrna_MORF4L2	mrna	MORF4L2	YES	20
119	cnv_TPH2	cnv	TPH2	YES	21
119	mrna_AC093838.4	mrna	AC093838.4	NO	0
120	mirna_MIR363	mirna	MIR363	YES	3
120	mrna_TADA1	mrna	TADA1	YES	13
121	cnv_AHSA1	cnv	AHSA1	YES	10
121	meth_C14orf93	meth	C14orf93	YES	3
122	mrna_SRSF1	mrna	SRSF1	YES	32
123	cnv_LOC101929237	cnv	LOC101929237	NO	0
123	mrna_PLEKHF2	mrna	PLEKHF2	YES	9
124	cnv_EFCAB1	cnv	EFCAB1	YES	2
124	cnv_ZBTB8B	cnv	ZBTB8B	YES	6
125	cnv_DENND5B	cnv	DENND5B	YES	10
125	mrna_CTB-51J22.1	mrna	CTB-51J22.1	NO	0
126	cnv_AMOTL1	cnv	AMOTL1	YES	14
126	mrna_CCT2	mrna	CCT2	YES	30
127	meth_MORN1	meth	MORN1	NO	0
127	mrna_C17orf58	mrna	C17orf58	YES	1
128	mrna_ZNF521	mrna	ZNF521	YES	10
129	cnv_YPEL4	cnv	YPEL4	YES	3
129	mrna_C5orf28	mrna	C5orf28	YES	1
130	cnv_AAAS	cnv	AAAS	YES	27
130	meth_GLOD4	meth	GLOD4	YES	3
131	mrna_FLOT2	mrna	FLOT2	YES	33
131	mrna_KCNMA1	mrna	KCNMA1	YES	49

132	meth_SYNPO2	meth	SYNPO2	YES	19
132	stv_CIDEC	stv	CIDEC	YES	14
133	meth_HCP5	meth	HCP5	NO	0
133	mrna_RP11-159J3.1	mrna	RP11-159J3.1	NO	0
134	cnv_LOC100287846	cnv	LOC100287846	NO	0
134	cnv_NAV2-AS5	cnv	NAV2-AS5	NO	0
135	cnv_GYPA	cnv	GYPA	YES	14
135	mrna_CERS4	mrna	CERS4	YES	14
136	cnv_ARRDC2	cnv	ARRDC2	YES	3
136	cnv_SCARA3	cnv	SCARA3	YES	12
137	cnv_PRPS1L1	cnv	PRPS1L1	YES	16
137	mrna_GRIP2	mrna	GRIP2	YES	9
138	cnv_ZNF770	cnv	ZNF770	YES	9
138	stv_ZNF273	stv	ZNF273	YES	8
139	cnv_TAF7L	cnv	TAF7L	YES	17
139	mrna_RP5-884G6.2	mrna	RP5-884G6.2	NO	0
140	cnv_TBC1D19	cnv	TBC1D19	YES	3
140	stv_CSAG1	stv	CSAG1	NO	0
141	cnv_MED1	cnv	MED1	YES	100
141	stv_TCTN1	stv	TCTN1	YES	21
142	mrna_MCTS2P	mrna	MCTS2P	NO	0
142	stv_P3H3	stv	P3H3	YES	12
143	meth_CD74	meth	CD74	YES	85
143	mrna_CEACAM7	mrna	CEACAM7	YES	6
144	cnv_C3	cnv	C3	YES	45
144	mrna_RP3-510D11.2	mrna	RP3-510D11.2	NO	0
145	mrna_TNFAIP1	mrna	TNFAIP1	YES	20
145	stv_TTLL3	stv	TTLL3	YES	18
146	mirna_MIR3074	mirna	MIR3074	NO	0
146	mrna_DHX15	mrna	DHX15	YES	22
147	cnv_ASTN2	cnv	ASTN2	YES	18
147	mrna_MS4A14	mrna	MS4A14	YES	2
148	cnv_EEF1DP3	cnv	EEF1DP3	NO	0
148	mrna_EXOC8	mrna	EXOC8	YES	20
149	cnv_TECR	cnv	TECR	YES	18
150	cnv_GAST	cnv	GAST	YES	7
150	meth_TFAP2C	meth	TFAP2C	YES	30
151	meth_STAT3	meth	STAT3	YES	102
151	mrna_SMAD1	mrna	SMAD1	YES	62
152	cnv_TLK2	cnv	TLK2	YES	24
152	meth_PRR16	meth	PRR16	YES	3
153	cnv_OTUD4	cnv	OTUD4	YES	10
153	stv_GJA8	stv	GJA8	YES	17
154	stv_ACRBP	stv	ACRBP	YES	8
154	stv_C6orf106	stv	C6orf106	YES	7
155	mrna_PKD1P5	mrna	PKD1P5	NO	0
155	stv_RP5-966M1.6	stv	RP5-966M1.6	NO	0
156	cnv_HSPG2	cnv	HSPG2	YES	32
156	mrna_EFS	mrna	EFS	YES	6
157	meth_BMPER	meth	BMPER	YES	11
157	mrna_LINS	mrna	LINS	NO	0
158	cnv_MRC2	cnv	MRC2	YES	12

158	meth_EIF2S2	meth	EIF2S2	YES	14
159	cnv_GXYLT1	cnv	GXYLT1	YES	9
159	cnv_LOC101927018	cnv	LOC101927018	NO	0
160	mrna_AKAP3	mrna	AKAP3	YES	15
161	mirna_MIR6798	mirna	MIR6798	NO	0
161	mrna_MT-CYB	mrna	MT-CYB	YES	37
162	mrna_MED1	mrna	MED1	YES	100
162	stv_ETFB	stv	ETFB	YES	10
163	meth_ZNF70	meth	ZNF70	YES	6
163	stv_MXD3	stv	MXD3	YES	11
164	meth_CRACR2A	meth	CRACR2A	YES	16
165	cnv_ANAPC10	cnv	ANAPC10	YES	17
165	meth_DNTTIP1	meth	DNTTIP1	YES	10
166	mrna_GNB1	mrna	GNB1	YES	44
166	stv_ALPP	stv	ALPP	YES	15
167	meth_IRS1	meth	IRS1	YES	48
167	mrna_FOXN1	mrna	FOXN1	YES	34
168	mirna_MIR1910	mirna	MIR1910	NO	0
168	stv_CDK18	stv	CDK18	YES	12
169	cnv_MYBL2	cnv	MYBL2	YES	19
169	meth_OCIAD1	meth	OCIAD1	YES	4
170	cnv_LINC01532	cnv	LINC01532	NO	0
170	mrna_PTRH2	mrna	PTRH2	YES	11
171	meth_SPRR3	meth	SPRR3	YES	12
171	mrna_LRRC55	mrna	LRRC55	YES	15
172	mrna_B3GALT5	mrna	B3GALT5	YES	10
172	stv_EPHX2	stv	EPHX2	YES	34
173	mrna_RP11-259G18.3	mrna	RP11-259G18.3	NO	0
173	stv_NAA50	stv	NAA50	YES	14
174	cnv_BTC	cnv	BTC	YES	30
174	mrna_HIST1H1C	mrna	HIST1H1C	YES	15
175	cnv_MIR1288	cnv	MIR1288	NO	0
175	mrna_AMOTL1	mrna	AMOTL1	YES	14
176	cnv_STT3B	cnv	STT3B	YES	17
176	mrna_CLCN1	mrna	CLCN1	YES	22
177	meth_DQX1	meth	DQX1	YES	10
177	meth_MKS1	meth	MKS1	YES	32
178	cnv_ARHGAP31-AS1	cnv	ARHGAP31-AS1	NO	0
178	mrna_EXTL3	mrna	EXTL3	YES	12
179	meth_CTB-171A8.1	meth	CTB-171A8.1	NO	0
179	stv_DNAH1	stv	DNAH1	YES	25
180	cnv_SMAD1-AS1	cnv	SMAD1-AS1	NO	0
180	cnv_TAX1BP1	cnv	TAX1BP1	YES	10
181	cnv_POLR3D	cnv	POLR3D	YES	17
181	mrna_ATG5	mrna	ATG5	YES	49
182	mrna_HRCT1	mrna	HRCT1	YES	2
183	stv_HSPG2	stv	HSPG2	YES	32
183	stv_NTRK1	stv	NTRK1	YES	89
184	meth_RN7SL479P	meth	RN7SL479P	NO	0
184	mrna_TMEM206	mrna	TMEM206	YES	3
185	meth_CTD-2368P22.1	meth	CTD-2368P22.1	NO	0
185	mrna_KCNK13	mrna	KCNK13	YES	13

186	mrna_GPR137C	mrna	GPR137C	YES	2
186	stv_ERN2	stv	ERN2	YES	33
187	cnv_MYO18B	cnv	MYO18B	YES	16
187	mirna_MIR4523	mirna	MIR4523	NO	0
188	cnv_ARHGAP40	cnv	ARHGAP40	YES	6
188	stv_TM7SF2	stv	TM7SF2	YES	22
189	cnv_LOC105371937	cnv	LOC105371937	NO	0
189	cnv_SEPT4-AS1	cnv	SEPT4-AS1	NO	0
190	stv_DLEU2	stv	DLEU2	NO	0
190	stv_SRRM2	stv	SRRM2	YES	12
191	meth_DAZL	meth	DAZL	YES	20
191	mrna_UBA3	mrna	UBA3	YES	24
192	mrna_CDC42	mrna	CDC42	YES	130
193	cnv_IGF2BP3	cnv	IGF2BP3	YES	17
193	stv_CTB-134H23.3	stv	CTB-134H23.3	NO	0
194	cnv_PIK3R2	cnv	PIK3R2	YES	40
194	mrna_EIF3M	mrna	EIF3M	YES	10
195	cnv_CLN8	cnv	CLN8	YES	38
195	meth_INSL3	meth	INSL3	YES	18
196	meth_UBE4A	meth	UBE4A	YES	11
196	mrna_CNIH3	mrna	CNIH3	YES	19
197	meth_SIRPG	meth	SIRPG	YES	13
197	mrna_IGSF5	mrna	IGSF5	YES	7
198	cnv_ZDHHC22	cnv	ZDHHC22	YES	8
198	mrna_CRAT	mrna	CRAT	YES	15
199	cnv_IDO2	cnv	IDO2	YES	12
199	cnv_LRRFIP2	cnv	LRRFIP2	YES	6
200	meth_TRPC1	meth	TRPC1	YES	25
200	mrna_RHOB	mrna	RHOB	YES	41
201	cnv_ZNF483	cnv	ZNF483	YES	9
201	mrna_TRUB1	mrna	TRUB1	YES	10
202	cnv_LINC00423	cnv	LINC00423	NO	0
202	stv_ZAN	stv	ZAN	YES	7
203	cnv_USP25	cnv	USP25	YES	21
203	mrna_PRMT6	mrna	PRMT6	YES	35
204	meth_MX1	meth	MX1	YES	28
204	mrna_HOXB13	mrna	HOXB13	YES	19
205	cnv_PTHLH	cnv	PTHLH	YES	30
205	mrna_EIF2S3L	mrna	EIF2S3L	NO	0
206	stv_PPP5C	stv	PPP5C	YES	46
206	stv_IGLV2-14	stv	IGLV2-14	YES	18
207	mrna_ATN1	mrna	ATN1	YES	16
207	stv_GFAP	stv	GFAP	YES	37
208	stv_NFRKB	stv	NFRKB	YES	14
208	stv_RP11-274B21.5	stv	RP11-274B21.5	NO	0
209	mrna_SIGLEC15	mrna	SIGLEC15	YES	9
210	cnv_LGALS9	cnv	LGALS9	YES	57
210	stv_TEP1	stv	TEP1	YES	20
211	cnv_KLHL7-AS1	cnv	KLHL7-AS1	NO	0
211	mrna_ZDHHC20	mrna	ZDHHC20	YES	8
212	cnv_ADSL	cnv	ADSL	YES	23
212	mrna_ZNF544	mrna	ZNF544	YES	9

213	cnv_TRIM32	cnv	TRIM32	YES	50
213	meth_PTPDC1	meth	PTPDC1	YES	14
214	cnv_RCAN3	cnv	RCAN3	YES	11
214	meth_MAN2A2	meth	MAN2A2	YES	19
215	cnv_TLCD1	cnv	TLCD1	YES	3
215	mrna_TCF7L2	mrna	TCF7L2	YES	74
216	mrna_TOX3	mrna	TOX3	YES	13
216	mrna_CDC20B	mrna	CDC20B	YES	4
217	cnv_HPS4	cnv	HPS4	YES	25
218	cnv_FUT10	cnv	FUT10	YES	23
218	stv_PTAFR	stv	PTAFR	YES	57
219	mrna_DPH1	mrna	DPH1	YES	9
219	mrna_DAB2IP	mrna	DAB2IP	YES	114
220	mrna_MAPKAPK5	mrna	MAPKAPK5	YES	33
220	mrna_CACNB2	mrna	CACNB2	YES	32
221	meth_CDK14	meth	CDK14	YES	23
221	mrna_GAPDHP1	mrna	GAPDHP1	NO	0
222	stv_SIGLEC11	stv	SIGLEC11	YES	4
222	stv_RP1-302G2.5	stv	RP1-302G2.5	NO	0
223	cnv_MT1F	cnv	MT1F	YES	10
224	cnv_LOC101928435	cnv	LOC101928435	NO	0
224	mrna_SCN8A	mrna	SCN8A	YES	28
225	cnv_FAM32A	cnv	FAM32A	YES	7
225	stv_TENM2	stv	TENM2	YES	33
226	cnv_SPG20-AS1	cnv	SPG20-AS1	NO	0
226	meth_BAALC	meth	BAALC	YES	11
227	mrna_TCEAL1	mrna	TCEAL1	YES	7
227	mrna_MEMO1P1	mrna	MEMO1P1	NO	0
228	meth_TIGIT	meth	TIGIT	YES	17
228	stv_RP11-144G7.2	stv	RP11-144G7.2	NO	0
229	cnv_KPNA2	cnv	KPNA2	YES	21
229	mrna_NIT2	mrna	NIT2	YES	16
230	meth_GALNTL5	meth	GALNTL5	YES	9
230	mrna_SRPK1	mrna	SRPK1	YES	31
231	cnv_LOC100996263	cnv	LOC100996263	NO	0
231	mrna_ZNF639	mrna	ZNF639	YES	20
232	mrna_IFT20	mrna	IFT20	YES	46
232	mrna_XRCC4	mrna	XRCC4	YES	32
233	mrna_ACKR2	mrna	ACKR2	YES	26
233	mrna_BEND3P3	mrna	BEND3P3	NO	0
234	cnv_BBS2	cnv	BBS2	YES	46
234	mrna_CPB1	mrna	CPB1	YES	10
235	mrna_PCDHB5	mrna	PCDHB5	YES	10
235	stv_RP11-255G12.2	stv	RP11-255G12.2	NO	0
236	mrna_RP11-730G20.2	mrna	RP11-730G20.2	NO	0
236	stv_TYMS	stv	TYMS	YES	52
237	cnv_AFM	cnv	AFM	YES	7
237	mrna_PRKCZ	mrna	PRKCZ	YES	87
238	mirna_MIR3194	mirna	MIR3194	NO	0
238	mrna_INIP	mrna	INIP	YES	7
239	mrna_PPP2R2D	mrna	PPP2R2D	YES	13
239	mrna_CCDC149	mrna	CCDC149	NO	0

240	cnv_CNNM4	cnv	CNNM4	YES	16
240	stv_ZNF703	stv	ZNF703	YES	22
241	meth_GGA3	meth	GGA3	YES	18
241	meth_LRIG1	meth	LRIG1	YES	7
242	meth_CAPZB	meth	CAPZB	YES	37
242	mrna_ERICH6-AS1	mrna	ERICH6-AS1	NO	0
243	meth_NSMAF	meth	NSMAF	YES	10
243	mrna_ZDHHC7	mrna	ZDHHC7	YES	10
244	mrna_AMER1	mrna	AMER1	YES	26
244	mrna_SLC51B	mrna	SLC51B	YES	12
245	mrna_CERS6	mrna	CERS6	YES	13
245	stv_HSPA5	stv	HSPA5	YES	74
246	cnv_ASCC2	cnv	ASCC2	YES	6
246	cnv_PSMD5-AS1	cnv	PSMD5-AS1	NO	0
247	mrna_EIF2AK2	mrna	EIF2AK2	YES	53
247	stv_CCNO	stv	CCNO	YES	14
248	mirna_MIR6868	mirna	MIR6868	NO	0
248	mrna_DDX5	mrna	DDX5	YES	63
249	mrna_ESRRB	mrna	ESRRB	YES	42
249	mrna_DBI	mrna	DBI	YES	12
250	meth_COIL	meth	COIL	YES	10
250	stv_CLIP3	stv	CLIP3	YES	25
251	mrna_LINC00339	mrna	LINC00339	NO	0
251	stv_STT3B	stv	STT3B	YES	17
252	cnv_DOHH	cnv	DOHH	YES	9
252	mrna_TPSB2	mrna	TPSB2	YES	7
253	meth_OAS2	meth	OAS2	YES	29
253	stv_SLC29A1	stv	SLC29A1	YES	18
254	meth_BICD2	meth	BICD2	YES	24
254	mrna_RP11-428L9.2	mrna	RP11-428L9.2	NO	0
255	mrna_OSGEP	mrna	OSGEP	YES	13
255	mrna_DNAJC2	mrna	DNAJC2	YES	21
256	cnv_CD200R1L	cnv	CD200R1L	YES	4
256	mrna_CDK12	mrna	CDK12	YES	33
257	cnv_FAM168A	cnv	FAM168A	YES	2
257	mrna_BTF3L4	mrna	BTF3L4	YES	1
258	cnv_ARHGAP31	cnv	ARHGAP31	YES	11
258	mrna_GNL2	mrna	GNL2	YES	10
259	mrna_CD24	mrna	CD24	YES	1
259	stv_HFE	stv	HFE	YES	55
260	cnv_CCNA1	cnv	CCNA1	YES	15
260	meth_RP11-46H11.12	meth	RP11-46H11.12	NO	0
261	mrna_ZNF207	mrna	ZNF207	YES	33
261	mrna_SNPH	mrna	SNPH	YES	17
262	cnv_BPTF	cnv	BPTF	YES	28
263	stv_MAML2	stv	MAML2	YES	10
263	stv_PIWIL4	stv	PIWIL4	YES	16
264	meth_CCNDBP1	meth	CCNDBP1	YES	6
264	stv_CDKN2B-AS1	stv	CDKN2B-AS1	NO	0
265	meth_ID2	meth	ID2	YES	55
265	stv_EIF2AK1	stv	EIF2AK1	YES	30
266	cnv_PLAC8	cnv	PLAC8	YES	11

266	stv_SDHAP1	stv	SDHAP1	NO	0
267	cnv_UPB1	cnv	UPB1	YES	12
267	meth_RDH11	meth	RDH11	YES	16
268	meth_CTD-2587H24.14	meth	CTD-2587H24.14	NO	0
268	stv_MMP28	stv	MMP28	YES	12
269	mrna_CAPN11	mrna	CAPN11	YES	11
269	mrna_AMIGO1	mrna	AMIGO1	YES	24
270	cnv_KCNN1	cnv	KCNN1	YES	14
270	stv_MERTK	stv	MERTK	YES	37
271	stv_SAMD4B	stv	SAMD4B	YES	12
272	cnv_ALAD	cnv	ALAD	YES	58
272	cnv_RARRES3	cnv	RARRES3	YES	12
273	cnv_LINC00599	cnv	LINC00599	NO	0
273	stv_RCN3	stv	RCN3	YES	5
274	mrna_DNAJB6	mrna	DNAJB6	YES	27
274	stv_ADAMTS14	stv	ADAMTS14	YES	11
275	cnv_HIST1H2BD	cnv	HIST1H2BD	YES	11
276	mrna_GTF2IP1	mrna	GTF2IP1	NO	0
277	meth_DNAJC17	meth	DNAJC17	YES	8
277	meth_TIPIN	meth	TIPIN	YES	21
278	cnv_UCP3	cnv	UCP3	YES	26
278	cnv_ZNF460	cnv	ZNF460	YES	8
279	mrna_DHRS4L2	mrna	DHRS4L2	YES	3
279	stv_LTBP4	stv	LTBP4	YES	21
280	stv_CTD-2012K14.8	stv	CTD-2012K14.8	NO	0
280	stv_RNF8	stv	RNF8	YES	41
281	mrna_RP11-277P12.20	mrna	RP11-277P12.20	NO	0
282	meth_ABHD12	meth	ABHD12	YES	13
282	mrna_EPN3	mrna	EPN3	YES	13
283	cnv_UBE2E1	cnv	UBE2E1	YES	24
283	mrna_RP11-86H7.7	mrna	RP11-86H7.7	NO	0
284	meth_SYNJ2BP	meth	SYNJ2BP	YES	11
284	mrna_ZNF835	mrna	ZNF835	YES	7
285	cnv_THAP9-AS1	cnv	THAP9-AS1	NO	0
285	mrna_POP4	mrna	POP4	YES	19
286	meth_PHF21A	meth	PHF21A	YES	17
286	stv_CDRT1	stv	CDRT1	YES	4
287	cnv_INPP5J	cnv	INPP5J	YES	20
287	mirna_MIR4701	mirna	MIR4701	NO	0
288	mrna_ZNF429	mrna	ZNF429	YES	8
288	stv_SRR	stv	SRR	YES	34
289	meth_RNF144A	meth	RNF144A	YES	18
289	mrna_MARCH6	mrna	MARCH6	YES	21
290	mrna_HIST1H4H	mrna	HIST1H4H	YES	36
291	cnv_CENPV	cnv	CENPV	YES	22
291	stv_IGSF11	stv	IGSF11	YES	6
292	cnv_NAV2-AS4	cnv	NAV2-AS4	NO	0
292	cnv_RFC3	cnv	RFC3	YES	24
293	cnv_C4orf19	cnv	C4orf19	YES	3
293	cnv_DEPDC7	cnv	DEPDC7	YES	9
294	cnv_TRIM35	cnv	TRIM35	YES	11
294	mrna_PCDHB3	mrna	PCDHB3	YES	11

295	meth_SLC2A8	meth	SLC2A8	YES	29
295	mrna_UNC5A	mrna	UNC5A	YES	15
296	mrna_CYP2J2	mrna	CYP2J2	YES	24
296	mrna_CTAGE5	mrna	CTAGE5	YES	12
297	cnv_CACTIN	cnv	CACTIN	YES	26
297	cnv_LOC439933	cnv	LOC439933	NO	0
298	meth_C11orf68	meth	C11orf68	YES	2
299	meth_CTD-2571L23.8	meth	CTD-2571L23.8	NO	0
299	mrna_TRAIP	mrna	TRAIP	YES	16
300	mirna_MIR550A	mirna	MIR550A	NO	0
301	mrna_WDSUB1	mrna	WDSUB1	YES	6
301	mrna_TMEM116	mrna	TMEM116	YES	5
302	mrna_ARFGEF2	mrna	ARFGEF2	YES	37
302	stv_KCND1	stv	KCND1	YES	22
303	meth_PLOD2	meth	PLOD2	YES	17
303	stv_COL6A6	stv	COL6A6	YES	7
304	cnv_EIF4B	cnv	EIF4B	YES	19
305	cnv_LOC646588	cnv	LOC646588	NO	0
305	cnv_MPEG1	cnv	MPEG1	YES	2
306	cnv_MIS18A	cnv	MIS18A	YES	16
306	meth_RP11-46F15.2	meth	RP11-46F15.2	NO	0
307	cnv_VAV1	cnv	VAV1	YES	40
307	mrna_ASIC3	mrna	ASIC3	YES	31
308	mrna_TRIM16	mrna	TRIM16	YES	22
308	stv_CTU2	stv	CTU2	YES	13
309	mrna_SLC46A1	mrna	SLC46A1	YES	23
309	stv_C11orf95	stv	C11orf95	YES	1
310	stv_DIRAS1	stv	DIRAS1	YES	9
311	meth_SERINC3	meth	SERINC3	YES	19
311	mrna_PTTG1IP	mrna	PTTG1IP	YES	14
312	cnv_MAP7D1	cnv	MAP7D1	YES	7
312	mrna_MRPL13	mrna	MRPL13	YES	13
313	cnv_CCDC169	cnv	CCDC169	NO	0
313	mrna_QDPR	mrna	QDPR	YES	22
314	meth_NR5A2	meth	NR5A2	YES	41
314	meth_VWCE	meth	VWCE	YES	4
315	stv_MPPE1	stv	MPPE1	YES	20
316	cnv_HACE1	cnv	HACE1	YES	23
316	cnv_NUTM1	cnv	NUTM1	YES	3
317	meth_PTPRG	meth	PTPRG	YES	19
318	meth_PTPRC	meth	PTPRC	YES	66
318	meth_TDRD1	meth	TDRD1	YES	14
319	cnv_MIR455	cnv	MIR455	NO	0
319	meth_OR7C1	meth	OR7C1	YES	12
320	meth_ZNF615	meth	ZNF615	YES	8
320	stv_C3	stv	C3	YES	45
321	mrna_LTF	mrna	LTF	YES	68
321	stv_TRIM11	stv	TRIM11	YES	21
322	cnv_PGPEP1	cnv	PGPEP1	YES	7
322	mrna_RIOK3	mrna	RIOK3	YES	28
323	meth_C5orf38	meth	C5orf38	YES	1
323	mrna_WDR6	mrna	WDR6	YES	12

324	cnv_GNAI1	cnv	GNAI1	YES	44
324	mrna_TMEM92	mrna	TMEM92	YES	2
325	meth_CYP26C1	meth	CYP26C1	YES	20
325	stv_COX10	stv	COX10	YES	24
326	mrna_RP11-679B19.1	mrna	RP11-679B19.1	NO	0
326	stv_DENND1C	stv	DENND1C	YES	8
327	cnv_FAN1	cnv	FAN1	YES	25
327	mrna_RGS11	mrna	RGS11	YES	13
328	mrna_TUSC8	mrna	TUSC8	NO	0
328	stv_ASPG	stv	ASPG	YES	10
329	cnv_GUCA1B	cnv	GUCA1B	YES	18
329	mrna_ARF4	mrna	ARF4	YES	29
330	mrna_ASF1A	mrna	ASF1A	YES	18
331	meth_RP1-309F20.3	meth	RP1-309F20.3	NO	0
331	mrna_APBB2	mrna	APBB2	YES	18
332	cnv_DLGAP4-AS1	cnv	DLGAP4-AS1	NO	0
332	mrna_PBX2	mrna	PBX2	YES	16
333	cnv_UPK1B	cnv	UPK1B	YES	8
333	mrna_WDR43	mrna	WDR43	YES	12
334	mrna_RPAP3	mrna	RPAP3	YES	2
334	mrna_HMGCR	mrna	HMGCR	YES	46
335	cnv_BMPR1B-AS1	cnv	BMPR1B-AS1	NO	0
335	stv_FSTL3	stv	FSTL3	YES	30
336	mrna_RAB39B	mrna	RAB39B	YES	19
336	stv_USP4	stv	USP4	YES	21
337	cnv_AIM1	cnv	AIM1	YES	3
337	stv_MOAP1	stv	MOAP1	YES	14
338	cnv_POPDC2	cnv	POPDC2	YES	7
338	cnv_TMEM39B	cnv	TMEM39B	YES	2
339	cnv_CACTIN-AS1	cnv	CACTIN-AS1	NO	0
339	cnv_TTC21A	cnv	TTC21A	YES	5
340	mrna_KHNYN	mrna	KHNYN	YES	4
341	meth_DDOST	meth	DDOST	YES	20
341	mrna_SLC38A1	mrna	SLC38A1	YES	24
342	mrna_FCHSD2	mrna	FCHSD2	YES	5
342	stv_MUM1	stv	MUM1	YES	7
343	mrna_SRI	mrna	SRI	YES	53
343	stv_BTN3A3	stv	BTN3A3	YES	6
344	cnv_LOC145845	cnv	LOC145845	NO	0
344	mrna_TUBD1	mrna	TUBD1	YES	18
345	cnv_LOC105371930	cnv	LOC105371930	NO	0
345	mrna_BCR	mrna	BCR	YES	53
346	mrna_TIMM17A	mrna	TIMM17A	YES	14
346	stv_IL9RP4	stv	IL9RP4	NO	0
347	mrna_ECI2	mrna	ECI2	YES	15
347	stv_STAG3	stv	STAG3	YES	17
348	cnv_RAB11B	cnv	RAB11B	YES	40
348	mirna_MIR5683	mirna	MIR5683	NO	0
349	stv_RP11-794M8.2	stv	RP11-794M8.2	NO	0
349	stv_RP11-778D9.9	stv	RP11-778D9.9	NO	0
350	meth_CORO2B	meth	CORO2B	YES	8
350	mrna_WWOX	mrna	WWOX	YES	29

351	cnv_DNAH11	cnv	DNAH11	YES	23
351	meth_GZMA	meth	GZMA	YES	18
352	mrna_TMEM30A	mrna	TMEM30A	YES	20
352	stv_EIF6	stv	EIF6	YES	27
353	meth_HMGB1	meth	HMGB1	YES	124
353	mirna_MIR1343	mirna	MIR1343	NO	0
354	mrna_FOXP1	mrna	FOXP1	YES	74
354	stv_SLC38A4	stv	SLC38A4	YES	11
355	mrna_CTR9	mrna	CTR9	YES	35
355	mrna_ENTPD3-AS1	mrna	ENTPD3-AS1	NO	0
356	cnv_PGAP3	cnv	PGAP3	YES	10
356	mrna_RPL22L1	mrna	RPL22L1	YES	8
357	cnv_COX11	cnv	COX11	YES	11
357	cnv_EVA1B	cnv	EVA1B	YES	3
358	stv_LMF1	stv	LMF1	YES	15
358	stv_LINC00969	stv	LINC00969	NO	0
359	cnv_N4BP2L2	cnv	N4BP2L2	YES	10
359	stv_HIST1H1T	stv	HIST1H1T	YES	11
360	meth_ULBP1	meth	ULBP1	YES	11
360	mrna_ZNF676	mrna	ZNF676	YES	7
361	mirna_MIR624	mirna	MIR624	NO	0
361	stv_ZNF557	stv	ZNF557	YES	7
362	mrna_WDR4	mrna	WDR4	YES	10
363	cnv_C4orf47	cnv	C4orf47	YES	4
363	mrna_C4BPB	mrna	C4BPB	YES	13
364	mirna_MIR202	mirna	MIR202	NO	0
364	mrna_WDR3	mrna	WDR3	YES	10
365	mrna_FAM181B	mrna	FAM181B	NO	0
366	mrna_SYNGR3	mrna	SYNGR3	YES	12
366	mrna_HNRNPUL2	mrna	HNRNPUL2	YES	6
367	cnv_ASPHD2	cnv	ASPHD2	YES	7
367	mrna_L2HGDH	mrna	L2HGDH	YES	11
368	cnv_RUNX1	cnv	RUNX1	YES	38
368	mrna_PDSS1	mrna	PDSS1	YES	11
369	cnv_CCDC124	cnv	CCDC124	YES	7
369	meth_TAS2R14	meth	TAS2R14	YES	12
370	cnv_IL15	cnv	IL15	YES	44
371	cnv_TMCO5A	cnv	TMCO5A	YES	2
371	stv_COL18A1	stv	COL18A1	YES	25
372	cnv_SMARCA5	cnv	SMARCA5	YES	34
372	stv_ZDHHC11	stv	ZDHHC11	YES	6
373	cnv_EIF4EBP2	cnv	EIF4EBP2	YES	18
373	mrna_PLAGL2	mrna	PLAGL2	YES	17
374	meth_SEMA3B-AS1	meth	SEMA3B-AS1	NO	0
374	mrna_TAB3	mrna	TAB3	YES	26
375	cnv_NUDT21	cnv	NUDT21	YES	21
375	mrna_RAD23B	mrna	RAD23B	YES	23
376	cnv_SLC25A41	cnv	SLC25A41	YES	11
377	cnv_BBS1	cnv	BBS1	YES	29
377	mrna_IMPACT	mrna	IMPACT	YES	28
378	mirna_MIR508	mirna	MIR508	NO	0
378	stv_KRTAP10-4	stv	KRTAP10-4	YES	5

379	cnv_LRP2BP	cnv	LRP2BP	YES	2
379	meth_CCDC40	meth	CCDC40	YES	19
380	meth_TRAF3	meth	TRAF3	YES	34
380	stv_ACP1	stv	ACP1	YES	16
381	cnv_LINC01482	cnv	LINC01482	NO	0
381	mrna_DPY19L4	mrna	DPY19L4	YES	7
382	cnv_ZNF548	cnv	ZNF548	YES	7
382	stv_CLEC2D	stv	CLEC2D	YES	10
383	cnv_MFSD5	cnv	MFSD5	YES	8
383	mrna_LRRC75B	mrna	LRRC75B	NO	0
384	cnv_MRGPRX2	cnv	MRGPRX2	YES	16
385	meth_PCDHB4	meth	PCDHB4	YES	13
385	stv_EWSAT1	stv	EWSAT1	NO	0
386	mirna_MIR6894	mirna	MIR6894	NO	0
386	mrna_ZNF702P	mrna	ZNF702P	NO	0
387	mrna_ELOVL6	mrna	ELOVL6	YES	25
387	stv_KMT2A	stv	KMT2A	YES	63
388	meth_MIR1273F	meth	MIR1273F	NO	0
388	stv_FBXW9	stv	FBXW9	YES	5
389	cnv_BPHL	cnv	BPHL	YES	8
389	meth_DCAF8	meth	DCAF8	YES	9
390	cnv_GJB4	cnv	GJB4	YES	11
390	mrna_RP11-185E8.2	mrna	RP11-185E8.2	NO	0
391	cnv_LOC101927769	cnv	LOC101927769	NO	0
391	stv_SLCO1B3	stv	SLCO1B3	YES	16
392	cnv_LINC01423	cnv	LINC01423	NO	0
392	cnv_MSI2	cnv	MSI2	YES	8
393	stv_CFAP74	stv	CFAP74	YES	6
393	stv_DLGAP5	stv	DLGAP5	YES	17
394	meth_SIK2	meth	SIK2	YES	18
394	mrna_MFSD9	mrna	MFSD9	YES	5
395	mrna_ATP13A4	mrna	ATP13A4	YES	17
395	stv_RFX1	stv	RFX1	YES	11
396	cnv_EBI3	cnv	EBI3	YES	15
396	meth_DENND4C	meth	DENND4C	YES	18
397	mrna_SCGN	mrna	SCGN	YES	13
397	mrna_METTL2A	mrna	METTL2A	YES	5
398	cnv_THRAP3	cnv	THRAP3	YES	35
398	stv_SEMA4B	stv	SEMA4B	YES	7
399	mrna_FOXQ1	mrna	FOXQ1	YES	15
399	mrna_TANC2	mrna	TANC2	YES	2
400	mrna_PVRL4	mrna	PVRL4	YES	10
400	stv_PCF11	stv	PCF11	YES	13
401	cnv_PTGES3	cnv	PTGES3	YES	37
401	meth_RP11-466F5.8	meth	RP11-466F5.8	NO	0
402	mrna_CWF19L1	mrna	CWF19L1	YES	4
402	stv_GRIA1	stv	GRIA1	YES	56
403	cnv_HEPH	cnv	HEPH	YES	18
403	cnv_TMEM196	cnv	TMEM196	YES	2
404	meth_AMPH	meth	AMPH	YES	16
404	mrna_DYNC2LI1	mrna	DYNC2LI1	YES	28
405	meth_FAH	meth	FAH	YES	12

405	mrna_BACE2	mrna	BACE2	YES	16
406	mrna_MYLIP	mrna	MYLIP	YES	23
406	mrna_RAP1GAP	mrna	RAP1GAP	YES	25
407	mrna_SMC2	mrna	SMC2	YES	22
407	stv_BMPR2	stv	BMPR2	YES	86
408	cnv_SAMSN1	cnv	SAMSN1	YES	10
409	cnv_CCKAR	cnv	CCKAR	YES	22
409	cnv_GTSF1L	cnv	GTSF1L	YES	2
410	meth_GPR88	meth	GPR88	YES	18
410	mrna_DAZAP2P1	mrna	DAZAP2P1	NO	0
411	cnv_FGD4	cnv	FGD4	YES	25
411	mrna_KIF14	mrna	KIF14	YES	51
412	cnv_MGARP	cnv	MGARP	YES	16
412	cnv_WSB1	cnv	WSB1	YES	9
413	cnv_TMED8	cnv	TMED8	YES	2
413	mrna_BPTF	mrna	BPTF	YES	28
414	cnv_C1orf94	cnv	C1orf94	YES	1
414	mrna_CFAP20	mrna	CFAP20	YES	17
415	mrna_MBD1	mrna	MBD1	YES	28
415	stv_POU2F3	stv	POU2F3	YES	16
416	cnv_DEFA9P	cnv	DEFA9P	NO	0
416	mrna_DPP6	mrna	DPP6	YES	11
417	cnv_PAPPA	cnv	PAPPA	YES	14
417	mirna_MIR4662A	mirna	MIR4662A	NO	0
418	cnv_TIAM1	cnv	TIAM1	YES	62
418	mrna_CTD-3220F14.3	mrna	CTD-3220F14.3	NO	0
419	mrna_ISOC1	mrna	ISOC1	YES	8
420	meth_MLLT3	meth	MLLT3	YES	13
420	mrna_CRIM1	mrna	CRIM1	YES	15
421	cnv_OVCH1-AS1	cnv	OVCH1-AS1	NO	0
421	stv_AP2A2	stv	AP2A2	YES	38
422	mrna_CYB5R4	mrna	CYB5R4	YES	20
422	mrna_SHMT2	mrna	SHMT2	YES	36
423	mrna_CPSF7	mrna	CPSF7	YES	14
423	mrna_RP11-550F7.1	mrna	RP11-550F7.1	NO	0
424	cnv_LPCAT2	cnv	LPCAT2	YES	23
424	mrna_RP11-680F20.6	mrna	RP11-680F20.6	NO	0
425	mrna_SYNCRIP	mrna	SYNCRIP	YES	27
426	cnv_SNAI2	cnv	SNAI2	YES	57
426	mrna_KRT79	mrna	KRT79	YES	9
427	cnv_STMN4	cnv	STMN4	YES	11
427	stv_KIAA1671	stv	KIAA1671	NO	0
428	cnv_INTU	cnv	INTU	YES	24
428	meth_VTI1A	meth	VTI1A	YES	35
429	cnv_NXPE3	cnv	NXPE3	YES	1
429	cnv_TFIP11	cnv	TFIP11	YES	25
430	cnv_KBTBD12	cnv	KBTBD12	YES	3
430	cnv_TSPAN13	cnv	TSPAN13	YES	8
431	cnv_MEF2B	cnv	MEF2B	YES	14
431	mrna_FANCM	mrna	FANCM	YES	18
432	cnv_GPATCH2L	cnv	GPATCH2L	YES	1
432	cnv_GPNMB	cnv	GPNMB	YES	31

433	cnv_GSTZ1	cnv	GSTZ1	YES	19
433	meth_MAP2K6	meth	MAP2K6	YES	45
434	mrna_PRRG3	mrna	PRRG3	YES	5
434	mrna_C2orf72	mrna	C2orf72	YES	1
435	mrna_MUC20	mrna	MUC20	YES	14
436	cnv_LOC339568	cnv	LOC339568	NO	0
436	cnv_RAB1B	cnv	RAB1B	YES	26
437	cnv_ACE	cnv	ACE	YES	61
437	mrna_PITPNC1	mrna	PITPNC1	YES	14
438	cnv_CIPC	cnv	CIPC	YES	9
438	cnv_FTLP10	cnv	FTLP10	NO	0
439	cnv_USP48	cnv	USP48	YES	13
439	meth_TMOD1	meth	TMOD1	YES	20
440	cnv_OTOG	cnv	OTOG	YES	10
440	meth_ATP5A1	meth	ATP5A1	YES	35
441	cnv_UBE2E2	cnv	UBE2E2	YES	14
442	mrna_HMGN5	mrna	HMGN5	YES	18
442	mrna_ZSCAN31	mrna	ZSCAN31	YES	7
443	mrna_KRCC1	mrna	KRCC1	YES	4
443	stv_KIFC3	stv	KIFC3	YES	28
444	stv_OR4K14	stv	OR4K14	YES	13
445	cnv_VGLL3	cnv	VGLL3	YES	5
445	meth_BRD8	meth	BRD8	YES	18
446	mrna_KIF3B	mrna	KIF3B	YES	37
446	stv_GOSR2	stv	GOSR2	YES	25
447	mrna_DNAH3	mrna	DNAH3	YES	20
447	mrna_MYRFL	mrna	MYRFL	YES	5
448	cnv_SUSD1	cnv	SUSD1	YES	3
448	mirna_MIR5000	mirna	MIR5000	NO	0
449	meth_GRPEL2-AS1	meth	GRPEL2-AS1	NO	0
449	stv_RP11-303E16.8	stv	RP11-303E16.8	NO	0
450	meth_TMCO5A	meth	TMCO5A	YES	2
450	stv_GHR	stv	GHR	YES	64
451	meth_PPP1R3C	meth	PPP1R3C	YES	10
451	mrna_TLK1	mrna	TLK1	YES	16
452	meth_SPRR1B	meth	SPRR1B	YES	11
452	meth_TYK2	meth	TYK2	YES	30
453	cnv_TNFSF9	cnv	TNFSF9	YES	21
453	stv_CDK11A	stv	CDK11A	YES	18
454	cnv_GTPBP8	cnv	GTPBP8	YES	7
454	cnv_TCAP	cnv	TCAP	YES	32
455	cnv_LOC100507175	cnv	LOC100507175	NO	0
455	mrna_WDR70	mrna	WDR70	YES	1
456	meth_HLF	meth	HLF	YES	15
456	mrna_ABCC13	mrna	ABCC13	NO	0
457	cnv_IGSF11	cnv	IGSF11	YES	6
457	mrna_PPEF1	mrna	PPEF1	YES	13
458	mirna_MIR5680	mirna	MIR5680	NO	0
458	stv_TMEM127	stv	TMEM127	YES	11
459	mrna_MOCOS	mrna	MOCOS	YES	14
459	mrna_GTF2A1	mrna	GTF2A1	YES	19
460	cnv_KCNJ15	cnv	KCNJ15	YES	14

462	mrna_GRB10	mrna	GRB10	YES	17
462	mrna_RP3-395M20.8	mrna	RP3-395M20.8	NO	0
463	cnv_KIAA1671	cnv	KIAA1671	NO	0
463	stv_ARHGEF39	stv	ARHGEF39	YES	8
464	cnv_ERICH1	cnv	ERICH1	NO	0
464	cnv_RBPMS	cnv	RBPMS	YES	22
465	mrna_TUBB2B	mrna	TUBB2B	YES	16
465	mrna_SEC24D	mrna	SEC24D	YES	24
466	mrna_COQ9	mrna	COQ9	YES	7
467	mirna_MIR584	mirna	MIR584	YES	2
468	cnv_COPB2	cnv	COPB2	YES	21
468	mrna_TMEM45B	mrna	TMEM45B	YES	2
469	cnv_METTL2A	cnv	METTL2A	YES	5
469	cnv_ZNF551	cnv	ZNF551	YES	7
470	cnv_ZBTB20-AS1	cnv	ZBTB20-AS1	NO	0
470	meth_DEGS1	meth	DEGS1	YES	19
471	cnv_LOC286083	cnv	LOC286083	NO	0
471	mrna_UCHL5	mrna	UCHL5	YES	31
472	meth_FANCF	meth	FANCF	YES	13
472	meth_RP11-93B14.6	meth	RP11-93B14.6	NO	0
473	cnv_POSTN	cnv	POSTN	YES	32
474	cnv_OR5T3	cnv	OR5T3	YES	31
474	mirna_MIR3190	mirna	MIR3190	NO	0
475	meth_AKR1B10	meth	AKR1B10	YES	18
475	stv_MYBL2	stv	MYBL2	YES	19
476	meth_FASLG	meth	FASLG	YES	54
476	meth_TMEM156	meth	TMEM156	YES	2
477	cnv_KHSRP	cnv	KHSRP	YES	28
477	mrna_SPINK1	mrna	SPINK1	YES	16
478	meth_SLCO3A1	meth	SLCO3A1	YES	10
478	stv_CUBN	stv	CUBN	YES	39
479	mrna_DNAL1	mrna	DNAL1	YES	4
479	mrna_PCDHGA5	mrna	PCDHGA5	YES	9
480	cnv_LOC105374908	cnv	LOC105374908	NO	0
480	mrna_UPF2	mrna	UPF2	YES	15
481	cnv_EDNRA	cnv	EDNRA	YES	57
481	cnv_LOC101927849	cnv	LOC101927849	NO	0
482	mrna_ESYT2	mrna	ESYT2	YES	23
482	mrna_USP38	mrna	USP38	YES	8
483	meth_GPR161	meth	GPR161	YES	15
483	stv_MEGF8	stv	MEGF8	YES	23
484	mrna_C4orf19	mrna	C4orf19	YES	3
484	mrna_SLC12A8	mrna	SLC12A8	YES	12
485	cnv_DTHD1	cnv	DTHD1	YES	2
485	meth_H19	meth	H19	NO	0
486	cnv_EEF1E1-BLOC1S5	cnv	EEF1E1-BLOC1S5	YES	3
486	cnv_EVI2B	cnv	EVI2B	YES	3
487	mrna_SNIP1	mrna	SNIP1	YES	11
487	stv_LSR	stv	LSR	YES	13
488	cnv_KCNH6	cnv	KCNH6	YES	16
489	cnv_TTC25	cnv	TTC25	YES	4
489	cnv_ZCCHC4	cnv	ZCCHC4	YES	7

490	stv_C17orf80	stv	C17orf80	YES	5
491	stv_TGFB1I1	stv	TGFB1I1	YES	30
492	cnv_GTF2A1	cnv	GTF2A1	YES	19
492	meth_ITGB7	meth	ITGB7	YES	26
493	cnv_C6orf229	cnv	C6orf229	YES	1
493	stv_PCDHA4	stv	PCDHA4	YES	12
494	cnv_BANF1	cnv	BANF1	YES	22
494	meth_HOXA11	meth	HOXA11	YES	35
495	cnv_CHMP1B2P	cnv	CHMP1B2P	NO	0
495	stv_STRA8	stv	STRA8	YES	23
496	cnv_HRASLS2	cnv	HRASLS2	YES	10
497	mirna_MIR7706	mirna	MIR7706	NO	0
497	stv_CYP11A1	stv	CYP11A1	YES	71
498	stv_OSBP	stv	OSBP	YES	23
499	cnv_TRIM38	cnv	TRIM38	YES	16
499	stv_UBE2Q1	stv	UBE2Q1	YES	17
500	stv_PRR18	stv	PRR18	NO	0
501	meth_CERK	meth	CERK	YES	19
501	mrna_CCDC183-AS1	mrna	CCDC183-AS1	NO	0
502	cnv_CDK12	cnv	CDK12	YES	33
502	stv_STX2	stv	STX2	YES	28
503	meth_HAPLN2	meth	HAPLN2	YES	9
503	stv_DFNA5	stv	DFNA5	YES	9
504	meth_ATXN10	meth	ATXN10	YES	15
505	meth_INHA	meth	INHA	YES	44
505	stv_RP11-64C12.6	stv	RP11-64C12.6	NO	0
506	meth_CYTH3	meth	CYTH3	YES	18
506	mrna_ZNF720	mrna	ZNF720	YES	4
507	meth_PTPLA	meth	PTPLA	YES	9
507	mrna_CLDN14	mrna	CLDN14	YES	12
508	stv_CNGA4	stv	CNGA4	YES	18
508	stv_UGT3A2	stv	UGT3A2	YES	10
509	mirna_MIR3173	mirna	MIR3173	YES	1
509	mrna_RP11-458F8.4	mrna	RP11-458F8.4	NO	0
510	mrna_DMBX1	mrna	DMBX1	YES	19
511	cnv_LCA5L	cnv	LCA5L	YES	1
512	meth_RAB21	meth	RAB21	YES	34
513	cnv_ARHGAP10	cnv	ARHGAP10	YES	14
513	mrna_RBM23	mrna	RBM23	YES	6
514	cnv_ZNF530	cnv	ZNF530	YES	7
514	mrna_ANKRD27	mrna	ANKRD27	YES	29
515	cnv_SERGEF	cnv	SERGEF	YES	12
515	stv_EIF1AD	stv	EIF1AD	YES	6
516	mrna_UBL3	mrna	UBL3	YES	4
516	mrna_ADD3	mrna	ADD3	YES	17
517	mrna_ING1	mrna	ING1	YES	10
517	stv_FMO2	stv	FMO2	YES	19
518	mrna_RP11-266L9.4	mrna	RP11-266L9.4	NO	0
518	stv_PRSS36	stv	PRSS36	YES	8
519	cnv_ADAMTS1	cnv	ADAMTS1	YES	20
519	mrna_KIAA0513	mrna	KIAA0513	YES	1
520	cnv_HOXA3	cnv	HOXA3	YES	24

520	stv_TBC1D10B	stv	TBC1D10B	YES	13
521	meth_GSTA3	meth	GSTA3	YES	8
522	cnv_DNAJC24	cnv	DNAJC24	YES	9
522	mrna_DVL1	mrna	DVL1	YES	72
523	cnv_ARHGEF25	cnv	ARHGEF25	YES	10
523	cnv_LCK	cnv	LCK	YES	65
524	meth_ZNF79	meth	ZNF79	YES	10
525	cnv_OPRM1	cnv	OPRM1	YES	70
525	mrna_MCM7	mrna	MCM7	YES	29
526	cnv_GANAB	cnv	GANAB	YES	18
526	mrna_CTD-2336O2.1	mrna	CTD-2336O2.1	NO	0
527	cnv_ASB12	cnv	ASB12	YES	4
527	mrna_COL6A6	mrna	COL6A6	YES	7
528	cnv_LOC100506207	cnv	LOC100506207	NO	0
528	mrna_EMC8	mrna	EMC8	YES	7
529	cnv_HIPK3	cnv	HIPK3	YES	21
529	stv_SPDEF	stv	SPDEF	YES	17
530	stv_ZPBP	stv	ZPBP	YES	7
531	cnv_APBA3	cnv	APBA3	YES	13
531	meth_GLYAT	meth	GLYAT	YES	13
532	cnv_ADORA2B	cnv	ADORA2B	YES	28
532	cnv_F11-AS1	cnv	F11-AS1	NO	0
533	cnv_WDR31	cnv	WDR31	YES	1
533	mrna_RAB27B	mrna	RAB27B	YES	25
534	meth_TRAM1L1	meth	TRAM1L1	YES	6
534	stv_XAB2	stv	XAB2	YES	21
535	meth_EXOC7	meth	EXOC7	YES	15
535	mrna_ZNF772	mrna	ZNF772	YES	8
536	cnv_BTBD19	cnv	BTBD19	YES	1
537	cnv_HIST1H1E	cnv	HIST1H1E	YES	24
538	mrna_PCP4L1	mrna	PCP4L1	NO	0
538	stv_MEI1	stv	MEI1	YES	7
539	cnv_NOXRED1	cnv	NOXRED1	YES	7
539	stv_EIF2AK4	stv	EIF2AK4	YES	48
540	cnv_NOTCH2	cnv	NOTCH2	YES	46
540	stv_RP11-174O3.4	stv	RP11-174O3.4	NO	0
541	mrna_C2orf70	mrna	C2orf70	YES	1
541	mrna_FLG-AS1	mrna	FLG-AS1	NO	0
542	cnv_TRHDE	cnv	TRHDE	YES	18
542	mrna_MMS19	mrna	MMS19	YES	27
543	meth_MAP1A	meth	MAP1A	YES	9
543	mrna_SLC30A7	mrna	SLC30A7	YES	20
544	mrna_MPP2	mrna	MPP2	YES	22
545	stv_RBM19	stv	RBM19	YES	10
545	stv_AC092168.4	stv	AC092168.4	NO	0
546	cnv_COPS4	cnv	COPS4	YES	17
546	mrna_RNF214	mrna	RNF214	YES	2
547	cnv_ADAMTS3	cnv	ADAMTS3	YES	22
548	cnv_PPP1R14D	cnv	PPP1R14D	YES	5
548	stv_MAGEA12	stv	MAGEA12	YES	3
549	mrna_MIEN1	mrna	MIEN1	YES	11
549	stv_CWC22	stv	CWC22	YES	13

550	mrna_PLA2G6	mrna	PLA2G6	YES	39
551	cnv_MRE11A	cnv	MRE11A	YES	44
552	cnv_KRT18P55	cnv	KRT18P55	NO	0
552	mirna_MIR516B	mirna	MIR516B	NO	0
553	stv_TMEM104	stv	TMEM104	YES	5
553	stv_MICD	stv	MICD	NO	0
554	mrna_FTH1	mrna	FTH1	YES	25
554	mrna_RBMXL1	mrna	RBMXL1	YES	9
555	mrna_IDH1	mrna	IDH1	YES	36
555	stv_PIGU	stv	PIGU	YES	13
556	cnv_STIM2	cnv	STIM2	YES	18
556	meth_SIL1	meth	SIL1	YES	9
557	mrna_DEGS1	mrna	DEGS1	YES	19
557	stv_GRHL1	stv	GRHL1	YES	21
558	cnv_LOC101927305	cnv	LOC101927305	NO	0
558	mrna_UBQLN2	mrna	UBQLN2	YES	15
559	cnv_KIAA1522	cnv	KIAA1522	YES	1
559	mrna_CTD-2510F5.4	mrna	CTD-2510F5.4	NO	0
560	mrna_RHOH	mrna	RHOH	YES	22
560	stv_KRT35	stv	KRT35	YES	8
561	cnv_LOC101929295	cnv	LOC101929295	NO	0
561	stv_SIRT6	stv	SIRT6	YES	40
562	meth_AF127936.9	meth	AF127936.9	NO	0
562	mrna_KDELR2	mrna	KDELR2	YES	17
563	mrna_UNC119	mrna	UNC119	YES	24
563	stv_FAM53A	stv	FAM53A	YES	1
564	mrna_CYB561	mrna	CYB561	YES	11
564	mrna_ATP6V1B1	mrna	ATP6V1B1	YES	35
565	cnv_CNOT2	cnv	CNOT2	YES	28
565	stv_OR51E2	stv	OR51E2	YES	17
566	stv_CPA5	stv	CPA5	YES	10
567	stv_TAB3	stv	TAB3	YES	26
568	mrna_AC068282.3	mrna	AC068282.3	NO	0
568	stv_PTX4	stv	PTX4	YES	2
569	cnv_OR1J2	cnv	OR1J2	YES	11
569	mrna_BEX4	mrna	BEX4	YES	2
570	cnv_HEG1	cnv	HEG1	YES	32
570	cnv_TTC19	cnv	TTC19	YES	13
571	cnv_KANSL3	cnv	KANSL3	YES	12
571	meth_MRPL32	meth	MRPL32	YES	12
572	meth_COL6A3	meth	COL6A3	YES	18
572	meth_LIPF	meth	LIPF	YES	13
573	mirna_MIR1291	mirna	MIR1291	NO	0
573	mrna_OSGIN1	mrna	OSGIN1	YES	10
574	mrna_LDHAP7	mrna	LDHAP7	NO	0
574	stv_APOPT1	stv	APOPT1	YES	6
575	cnv_CSF3R	cnv	CSF3R	YES	16
575	stv_CYP2D7	stv	CYP2D7	YES	17
576	mrna_UTP6	mrna	UTP6	YES	9
576	mrna_RTN4IP1	mrna	RTN4IP1	YES	8
577	mrna_ELF1	mrna	ELF1	YES	18
577	stv_PIEZO2	stv	PIEZO2	YES	16

578	mirna_MIR6734	mirna	MIR6734	NO	0
578	stv_ARMC6	stv	ARMC6	YES	2
579	cnv_MUC13	cnv	MUC13	YES	13
579	mrna_PDSS2	mrna	PDSS2	YES	12
580	cnv_EPGN	cnv	EPGN	YES	16
580	stv_RP11-145E5.5	stv	RP11-145E5.5	NO	0
581	meth_KLHL35	meth	KLHL35	YES	4
582	mrna_CCNC	mrna	CCNC	YES	15
582	mrna_RNFT1	mrna	RNFT1	YES	4
583	mrna_EXOC4	mrna	EXOC4	YES	24
584	cnv_FBXL2	cnv	FBXL2	YES	17
584	mrna_RP11-132A1.4	mrna	RP11-132A1.4	NO	0
585	mrna_GNAO1	mrna	GNAO1	YES	41
585	stv_L3MBTL4	stv	L3MBTL4	YES	8
586	cnv_MED13	cnv	MED13	YES	22
586	mrna_SPOPL	mrna	SPOPL	YES	11
587	cnv_LTK	cnv	LTK	YES	24
587	stv_PROSER3	stv	PROSER3	NO	0
589	meth_MIR4733	meth	MIR4733	NO	0
589	mrna_RP1-92O14.3	mrna	RP1-92O14.3	NO	0
590	cnv_OR5AK4P	cnv	OR5AK4P	NO	0
590	mrna_RPL23AP53	mrna	RPL23AP53	NO	0
591	stv_SEMA6C	stv	SEMA6C	YES	8
591	stv_SLC6A5	stv	SLC6A5	YES	16
592	cnv_DEC1	cnv	DEC1	YES	1
593	mirna_MIR6883	mirna	MIR6883	NO	0
593	mrna_MRPS23	mrna	MRPS23	YES	12
594	cnv_TANC2	cnv	TANC2	YES	2
594	mrna_JUP	mrna	JUP	YES	68
595	mrna_SNHG16	mrna	SNHG16	NO	0
595	mrna_PAFAH1B2	mrna	PAFAH1B2	YES	22
596	mirna_MIR3176	mirna	MIR3176	NO	0
596	mrna_CEP63	mrna	CEP63	YES	19
597	cnv_FAM149A	cnv	FAM149A	NO	0
597	mrna_RP11-531A24.5	mrna	RP11-531A24.5	NO	0
598	meth_GNB1	meth	GNB1	YES	44
599	mrna_TTC5	mrna	TTC5	YES	10
599	stv_JSRP1	stv	JSRP1	YES	7
600	cnv_KDM4E	cnv	KDM4E	YES	10
600	mrna_G2E3	mrna	G2E3	YES	12
602	mrna_C17orf75	mrna	C17orf75	YES	3
602	mrna_RP11-157G21.2	mrna	RP11-157G21.2	NO	0
603	meth_ZDHHC8	meth	ZDHHC8	YES	16
603	stv_BAIAP2L2	stv	BAIAP2L2	YES	19
605	cnv_OR7A10	cnv	OR7A10	YES	11
606	mirna_MIR548V	mirna	MIR548V	NO	0
606	mrna_COX11	mrna	COX11	YES	11
607	cnv_LYRM9	cnv	LYRM9	NO	0
607	mrna_RAB27A	mrna	RAB27A	YES	53
608	cnv_LINC01011	cnv	LINC01011	NO	0
608	stv_CYP2D6	stv	CYP2D6	YES	34
609	cnv_CCT6P1	cnv	CCT6P1	NO	0

609	stv_NGEF	stv	NGEF	YES	17
610	cnv_C8orf22	cnv	C8orf22	YES	4
610	mrna_YPEL2	mrna	YPEL2	YES	3
611	cnv_C6orf132	cnv	C6orf132	NO	0
611	mrna_TMCC1-AS1	mrna	TMCC1-AS1	NO	0
612	cnv_GDAP2	cnv	GDAP2	YES	3
613	meth_LEMD2	meth	LEMD2	YES	18
613	mrna_PPAPDC2	mrna	PPAPDC2	YES	4
614	cnv_LEPROTL1	cnv	LEPROTL1	YES	6
614	mrna_EGLN2	mrna	EGLN2	YES	23
615	cnv_SPACA3	cnv	SPACA3	YES	21
616	cnv_DFNA5	cnv	DFNA5	YES	9
616	stv_SLC39A4	stv	SLC39A4	YES	20
617	cnv_PALM2-AKAP2	cnv	PALM2-AKAP2	YES	3
617	mrna_CTBS	mrna	CTBS	YES	12
618	mrna_COMT	mrna	COMT	YES	43
618	mrna_ITGB6	mrna	ITGB6	YES	23
619	stv_MFSD2B	stv	MFSD2B	YES	3
619	stv_C3orf20	stv	C3orf20	YES	3
620	cnv_SOHLH2	cnv	SOHLH2	YES	13
620	stv_OXCT1	stv	OXCT1	YES	23
621	cnv_CD96	cnv	CD96	YES	14
621	cnv_GSN-AS1	cnv	GSN-AS1	NO	0
622	cnv_TSPAN11	cnv	TSPAN11	YES	4
622	meth_TTLL11	meth	TTLL11	YES	13
623	stv_INSR	stv	INSR	YES	79
624	stv_RFT1	stv	RFT1	YES	8
624	stv_AGXT2	stv	AGXT2	YES	17
625	mrna_LYPLAL1	mrna	LYPLAL1	YES	9
626	cnv_ZSCAN4	cnv	ZSCAN4	YES	12
626	mrna_EML4	mrna	EML4	YES	9
627	meth_CAPN10	meth	CAPN10	YES	19
627	mrna_WDTC1	mrna	WDTC1	YES	18
628	stv_DOK3	stv	DOK3	YES	8
629	cnv_OR8U1	cnv	OR8U1	YES	12
630	cnv_DEFA8P	cnv	DEFA8P	NO	0
630	mrna_DGKZP1	mrna	DGKZP1	NO	0
631	cnv_PTPN5	cnv	PTPN5	YES	13
631	stv_LOXL2	stv	LOXL2	YES	40
632	mrna_TMEM57	mrna	TMEM57	YES	12
632	mrna_RP4-765C7.2	mrna	RP4-765C7.2	NO	0
633	meth_KRTCAP3	meth	KRTCAP3	YES	2
633	stv_LTBP2	stv	LTBP2	YES	14
634	stv_SLC44A2	stv	SLC44A2	YES	15
634	stv_TGM6	stv	TGM6	YES	6
635	cnv_SH3D21	cnv	SH3D21	YES	4
635	mrna_PSMD6	mrna	PSMD6	YES	39
636	meth_NDST1	meth	NDST1	YES	35
637	stv_RP11-326C3.2	stv	RP11-326C3.2	NO	0
637	stv_SLC9B1P2	stv	SLC9B1P2	NO	0
638	cnv_TBC1D9	cnv	TBC1D9	YES	9
638	mrna_C9orf41	mrna	C9orf41	NO	0

639	cnv_LOC401312	cnv	LOC401312	NO	0
639	meth_TMEM88	meth	TMEM88	YES	11
640	mirna_MIR4786	mirna	MIR4786	NO	0
640	mrna_PRRG4	mrna	PRRG4	YES	6
641	cnv_LOC283856	cnv	LOC283856	NO	0
641	mrna_COX15	mrna	COX15	YES	18
642	mrna_NUB1	mrna	NUB1	YES	7
643	cnv_RBM18	cnv	RBM18	YES	3
643	stv_DDOST	stv	DDOST	YES	20
644	mrna_PROC	mrna	PROC	YES	28
644	mrna_TIPRL	mrna	TIPRL	YES	4
645	cnv_PELI3	cnv	PELI3	YES	12
645	mrna_KPNA3	mrna	KPNA3	YES	20
646	cnv_SEPT14	cnv	SEPT14	YES	7
646	cnv_ZNF362	cnv	ZNF362	YES	6
647	cnv_THRB	cnv	THRB	YES	33
647	stv_INS	stv	INS	YES	84
648	mrna_TFAP2B	mrna	TFAP2B	YES	64
648	mrna_PAPD7	mrna	PAPD7	YES	17
649	mrna_AP001258.4	mrna	AP001258.4	NO	0
649	mrna_RP11-46H11.3	mrna	RP11-46H11.3	NO	0
650	stv_KEL	stv	KEL	YES	19
651	mrna_RAMP1	mrna	RAMP1	YES	29
651	stv_FREM1	stv	FREM1	YES	11
652	mirna_MIR29B	mirna	MIR29B	NO	0
652	mrna_BEND3	mrna	BEND3	YES	18
653	cnv_DIO2	cnv	DIO2	YES	16
653	stv_ZBTB45	stv	ZBTB45	YES	7
654	meth_HTR3A	meth	HTR3A	YES	29
654	stv_FBXL7	stv	FBXL7	YES	20
655	mrna_SNRNP27	mrna	SNRNP27	YES	9
656	cnv_CSTF2	cnv	CSTF2	YES	17
656	cnv_NAA15	cnv	NAA15	YES	21
657	cnv_TDP2	cnv	TDP2	YES	24
658	cnv_NDUFC1	cnv	NDUFC1	YES	10
658	mrna_LINC00674	mrna	LINC00674	NO	0
659	mirna_MIR6748	mirna	MIR6748	NO	0
659	mrna_POLR3D	mrna	POLR3D	YES	17
660	cnv_BMPR1B	cnv	BMPR1B	YES	52
660	meth_MYH2	meth	MYH2	YES	32
661	cnv_AMER1	cnv	AMER1	YES	26
661	mrna_ALDH4A1	mrna	ALDH4A1	YES	16
662	cnv_ARAP2	cnv	ARAP2	YES	10
662	mirna_MIR2115	mirna	MIR2115	NO	0
663	mrna_GNB4	mrna	GNB4	YES	10
663	stv_RP11-277J6.3	stv	RP11-277J6.3	NO	0
664	mrna_ZNF274	mrna	ZNF274	YES	16
664	mrna_BASP1	mrna	BASP1	YES	26
665	mrna_NF2	mrna	NF2	YES	54
665	stv_WDR27	stv	WDR27	YES	2
666	mrna_FAM57A	mrna	FAM57A	YES	5
666	stv_PQBP1	stv	PQBP1	YES	21

667	cnv_TSHR	cnv	TSHR	YES	38
667	mrna_CLDN12	mrna	CLDN12	YES	11
668	meth_CORO1A	meth	CORO1A	YES	62
668	mrna_MORN1	mrna	MORN1	NO	0
669	mrna_NPHP4	mrna	NPHP4	YES	32
670	cnv_ADORA2A-AS1	cnv	ADORA2A-AS1	NO	0
670	meth_SMIM7	meth	SMIM7	YES	2
671	meth_EIF1B	meth	EIF1B	YES	7
671	stv_CLSTN1	stv	CLSTN1	YES	27
672	meth_MED15	meth	MED15	YES	11
672	mrna_PGM3	mrna	PGM3	YES	17
673	mrna_WT1	mrna	WT1	YES	66
674	cnv_STXBP4	cnv	STXBP4	YES	12
674	meth_C15orf27	meth	C15orf27	YES	1
675	meth_RTP3	meth	RTP3	YES	9
676	mrna_MED26	mrna	MED26	YES	11
677	stv_MADD	stv	MADD	YES	22
678	cnv_LRRN4CL	cnv	LRRN4CL	YES	2
678	mrna_RP11-758H9.2	mrna	RP11-758H9.2	NO	0
679	stv_SSRP1	stv	SSRP1	YES	16
680	mirna_MIR3157	mirna	MIR3157	NO	0
680	stv_PCBP3-OT1	stv	PCBP3-OT1	NO	0
681	stv_UNC79	stv	UNC79	YES	8
682	cnv_CCDC14	cnv	CCDC14	YES	8
682	meth_AC004041.2	meth	AC004041.2	NO	0
683	mrna_ALK	mrna	ALK	YES	37
683	stv_L3HYPDH	stv	L3HYPDH	YES	4
684	cnv_HSD3B2	cnv	HSD3B2	YES	25
684	stv_TRBV5-6	stv	TRBV5-6	YES	1
685	cnv_GDPD5	cnv	GDPD5	YES	24
685	mrna_ADAMTS5	mrna	ADAMTS5	YES	19
686	cnv_RAB6A	cnv	RAB6A	YES	33
686	mrna_USP43	mrna	USP43	YES	12
687	cnv_FLOT2	cnv	FLOT2	YES	33
687	cnv_PPHLN1	cnv	PPHLN1	YES	11
688	meth_TRIM33	meth	TRIM33	YES	19
688	mrna_GRIK1	mrna	GRIK1	YES	30
689	cnv_LOC100505635	cnv	LOC100505635	NO	0
689	meth_TCF3	meth	TCF3	YES	48
690	mrna_TRIM36	mrna	TRIM36	YES	16
690	stv_EEF1G	stv	EEF1G	YES	14
691	stv_TEX35	stv	TEX35	YES	2
691	stv_PRKAR1B	stv	PRKAR1B	YES	25
693	meth_FUT8	meth	FUT8	YES	29
694	mirna_MIR143	mirna	MIR143	YES	16
695	mrna_CASP2	mrna	CASP2	YES	35
695	mrna_CTD-2256P15.2	mrna	CTD-2256P15.2	NO	0
696	cnv_SLC3A2	cnv	SLC3A2	YES	27
696	stv_ZNF90	stv	ZNF90	YES	10
697	cnv_CLIC4	cnv	CLIC4	YES	46
697	cnv_RELL1	cnv	RELL1	YES	4
698	cnv_ATP5B	cnv	ATP5B	YES	44

698	mrna_ZNF184	mrna	ZNF184	YES	8
699	mrna_RP11-54O7.17	mrna	RP11-54O7.17	NO	0
700	cnv_HSD3B1	cnv	HSD3B1	YES	24
700	stv_ZFP14	stv	ZFP14	YES	8
701	cnv_IKZF3	cnv	IKZF3	YES	28
701	meth_CECR1	meth	CECR1	YES	15
702	mrna_CACNB1	mrna	CACNB1	YES	17
703	cnv_LOC102723828	cnv	LOC102723828	NO	0
704	cnv_LOC101929698	cnv	LOC101929698	NO	0
704	cnv_RGL4	cnv	RGL4	YES	5
705	mrna_RP5-1092A3.4	mrna	RP5-1092A3.4	NO	0
705	stv_MORN3	stv	MORN3	YES	2
706	mrna_DACT2	mrna	DACT2	YES	14
706	mrna_TCEAL2	mrna	TCEAL2	YES	5
707	cnv_PCLO	cnv	PCLO	YES	22
707	cnv_SPOCD1	cnv	SPOCD1	YES	4
708	cnv_ZNF671	cnv	ZNF671	YES	7
708	stv_DCST2	stv	DCST2	YES	2
709	mrna_C12orf66	mrna	C12orf66	YES	8
709	stv_KIAA1644	stv	KIAA1644	YES	2
710	cnv_NCMAP	cnv	NCMAP	YES	9
710	meth_UGGT2	meth	UGGT2	YES	17
711	cnv_INTS5	cnv	INTS5	YES	10
711	mrna_MAP4K3	mrna	MAP4K3	YES	20
712	mrna_SIN3B	mrna	SIN3B	YES	19
712	stv_MAPT	stv	MAPT	YES	78
713	cnv_ANKFN1	cnv	ANKFN1	YES	1
713	stv_SEPSECS	stv	SEPSECS	YES	14
714	stv_CIRBP	stv	CIRBP	YES	17
715	cnv_ITGB8	cnv	ITGB8	YES	18
715	mrna_RP11-177H2.1	mrna	RP11-177H2.1	NO	0
716	mrna_RRP15	mrna	RRP15	YES	4
717	cnv_C15orf41	cnv	C15orf41	NO	0
717	cnv_MEOX2-AS1	cnv	MEOX2-AS1	NO	0
718	cnv_DERL3	cnv	DERL3	YES	13
719	cnv_LGR4	cnv	LGR4	YES	39
719	mrna_CYP2R1	mrna	CYP2R1	YES	20
720	meth_MRPL18	meth	MRPL18	YES	16
720	mrna_NUS1P1	mrna	NUS1P1	NO	0
721	mrna_IL10RB-AS1	mrna	IL10RB-AS1	NO	0
721	mrna_ZNF528-AS1	mrna	ZNF528-AS1	NO	0
722	mrna_FDFT1	mrna	FDFT1	YES	27
722	stv_INPP5B	stv	INPP5B	YES	27
723	stv_PKD1L3	stv	PKD1L3	YES	23
723	stv_RAB26	stv	RAB26	YES	23
724	cnv_STARD10	cnv	STARD10	YES	13
724	meth_SAMD7	meth	SAMD7	YES	1
725	cnv_RAD51	cnv	RAD51	YES	72
725	meth_CHKB-CPT1B	meth	CHKB-CPT1B	YES	3
726	cnv_DTX3	cnv	DTX3	YES	7
726	cnv_TGFB3	cnv	TGFB3	YES	73
727	meth_PARS2	meth	PARS2	YES	11

727	stv_PCDH15	stv	PCDH15	YES	39
728	stv_TRIM64C	stv	TRIM64C	YES	3
728	stv_SH3TC1	stv	SH3TC1	YES	3
729	meth_RP11-343C2.7	meth	RP11-343C2.7	NO	0
729	mrna_ETNK2	mrna	ETNK2	YES	16
730	mrna_IRX3	mrna	IRX3	YES	14
730	stv_PARP12	stv	PARP12	YES	6
731	mrna_UST	mrna	UST	YES	12
731	stv_RP11-49K24.9	stv	RP11-49K24.9	NO	0
732	mrna_SLC18A2	mrna	SLC18A2	YES	48
732	stv_MRAS	stv	MRAS	YES	16
733	mrna_CNIH1	mrna	CNIH1	YES	14
733	stv_Z69666.2	stv	Z69666.2	NO	0
734	cnv_ADPRHL2	cnv	ADPRHL2	YES	10
734	cnv_MIR155HG	cnv	MIR155HG	NO	0
735	mrna_GMCL1	mrna	GMCL1	YES	10
735	stv_RP11-385D13.1	stv	RP11-385D13.1	NO	0
736	cnv_TMPRSS11F	cnv	TMPRSS11F	YES	9
737	mirna_MIR30E	mirna	MIR30E	YES	5
738	mrna_RIPK1	mrna	RIPK1	YES	79
738	mrna_ZNF737	mrna	ZNF737	YES	7
739	cnv_RAPGEF5	cnv	RAPGEF5	YES	12
739	mrna_SGPP2	mrna	SGPP2	YES	10
740	mirna_MIR4678	mirna	MIR4678	NO	0
740	mrna_TSEN15	mrna	TSEN15	YES	11
741	meth_BCS1L	meth	BCS1L	YES	13
741	stv_PRSS12	stv	PRSS12	YES	18
742	cnv_OSBPL10	cnv	OSBPL10	YES	12
742	cnv_PTBP3	cnv	PTBP3	YES	10
743	mrna_CDK11A	mrna	CDK11A	YES	18
743	mrna_UBA6-AS1	mrna	UBA6-AS1	NO	0
744	cnv_TRI-AAT7-2	cnv	TRI-AAT7-2	NO	0
744	meth_COL19A1	meth	COL19A1	YES	15
745	mrna_PYDC1	mrna	PYDC1	YES	12
745	stv_TICRR	stv	TICRR	YES	13
746	cnv_MT1A	cnv	MT1A	YES	11
747	meth_ANKRD54	meth	ANKRD54	YES	12
747	mrna_AC108938.5	mrna	AC108938.5	NO	0
748	meth_ELAVL1	meth	ELAVL1	YES	24
748	stv_IP6K2	stv	IP6K2	YES	24
749	cnv_EIF1B-AS1	cnv	EIF1B-AS1	NO	0
749	cnv_HCRTR1	cnv	HCRTR1	YES	19
750	cnv_DHX35	cnv	DHX35	YES	13
750	meth_EIF4A1	meth	EIF4A1	YES	25
751	meth_CCP110	meth	CCP110	YES	21
751	stv_PAX5	stv	PAX5	YES	29
752	mirna_MIR6737	mirna	MIR6737	NO	0
752	mrna_PHF20	mrna	PHF20	YES	24
753	mirna_MIR3170	mirna	MIR3170	NO	0
753	mrna_HSPA2	mrna	HSPA2	YES	37
754	mirna_MIR512	mirna	MIR512	NO	0
754	mrna_CYSLTR1	mrna	CYSLTR1	YES	22

755	cnv_EEFSEC	cnv	EEFSEC	YES	14
755	stv_IFIH1	stv	IFIH1	YES	36
756	mrna_LINC01116	mrna	LINC01116	NO	0
757	mrna_GNE	mrna	GNE	YES	20
757	stv_IZUMO3	stv	IZUMO3	YES	4
758	cnv_BLOC1S5-TXNDC5	cnv	BLOC1S5-TXNDC5	YES	3
758	stv_OR52E6	stv	OR52E6	YES	11
759	cnv_SLC46A2	cnv	SLC46A2	YES	12
759	meth_BRD7	meth	BRD7	YES	24
760	cnv_TUBB4A	cnv	TUBB4A	YES	25
760	stv_SUPT6H	stv	SUPT6H	YES	35
761	meth_DNAJA2	meth	DNAJA2	YES	15
762	cnv_LOC101928069	cnv	LOC101928069	NO	0
763	meth_TMX1	meth	TMX1	YES	14
763	mirna_MIR6807	mirna	MIR6807	NO	0
764	cnv_SUZ12	cnv	SUZ12	YES	29
764	stv_RP11-325O24.6	stv	RP11-325O24.6	NO	0
765	meth_CTD-2308L22.1	meth	CTD-2308L22.1	NO	0
766	cnv_KRT4	cnv	KRT4	YES	13
766	stv_ADAMTS12	stv	ADAMTS12	YES	24
767	meth_MRPS31	meth	MRPS31	YES	12
767	mrna_SPINK5	mrna	SPINK5	YES	27
768	cnv_SLC31A1	cnv	SLC31A1	YES	19
768	stv_GLB1L2	stv	GLB1L2	YES	8
769	cnv_KRT79	cnv	KRT79	YES	9
769	stv_ATCAY	stv	ATCAY	YES	19
770	cnv_TUBA8	cnv	TUBA8	YES	12
770	mrna_MTATP6P1	mrna	MTATP6P1	NO	0
771	mrna_CELSR2	mrna	CELSR2	YES	23
771	stv_NOMO3	stv	NOMO3	YES	6
772	cnv_LOC105371931	cnv	LOC105371931	NO	0
772	mirna_MIR196A	mirna	MIR196A	NO	0
773	cnv_SEMA3E	cnv	SEMA3E	YES	18
773	mrna_PEX1	mrna	PEX1	YES	20
774	mrna_TP53INP1	mrna	TP53INP1	YES	36
775	stv_TAS2R46	stv	TAS2R46	YES	14
775	stv_OR5V1	stv	OR5V1	YES	11
776	meth_CNTN2	meth	CNTN2	YES	39
776	meth_UBE2G1	meth	UBE2G1	YES	15
777	cnv_STOM	cnv	STOM	YES	31
778	meth_CTD-2270P14.5	meth	CTD-2270P14.5	NO	0
779	meth_KDM4B	meth	KDM4B	YES	17
779	stv_TRAV8-6	stv	TRAV8-6	YES	1
780	meth_KHDRBS1	meth	KHDRBS1	YES	34
780	mrna_SRSF10	mrna	SRSF10	YES	22
781	cnv_ZNF827	cnv	ZNF827	YES	6
783	cnv_LOC283194	cnv	LOC283194	NO	0
784	mrna_HRASLS2	mrna	HRASLS2	YES	10
784	stv_PI4KAP2	stv	PI4KAP2	NO	0
786	stv_ZMYM4	stv	ZMYM4	YES	11
787	mrna_CA14	mrna	CA14	YES	7
787	mrna_SYNJ2BP	mrna	SYNJ2BP	YES	11

788	cnv_ERGIC2	cnv	ERGIC2	YES	14
788	stv_RP11-166B2.1	stv	RP11-166B2.1	NO	0
789	mrna_MTERF3	mrna	MTERF3	YES	17
790	cnv_LOC100507388	cnv	LOC100507388	NO	0
790	stv_CDH9	stv	CDH9	YES	10
791	mrna_RP5-1148A21.3	mrna	RP5-1148A21.3	NO	0
792	cnv_ZNF385D-AS1	cnv	ZNF385D-AS1	NO	0
792	mrna_RP11-755F10.1	mrna	RP11-755F10.1	NO	0
793	cnv_SERINC2	cnv	SERINC2	YES	9
793	cnv_ZNF740	cnv	ZNF740	YES	5
794	cnv_FOLR1	cnv	FOLR1	YES	45
794	cnv_ZNF830	cnv	ZNF830	YES	23
795	mrna_SVIP	mrna	SVIP	YES	22
796	cnv_EIF3M	cnv	EIF3M	YES	10
796	mrna_BHLHE40-AS1	mrna	BHLHE40-AS1	NO	0
797	mrna_TPMT	mrna	TPMT	YES	9
798	meth_HMGCS2	meth	HMGCS2	YES	16
798	stv_ARHGAP17	stv	ARHGAP17	YES	13
799	cnv_LOC101929199	cnv	LOC101929199	NO	0
799	stv_STK16	stv	STK16	YES	21
800	mrna_FTH1P7	mrna	FTH1P7	NO	0
801	meth_NFKBIZ	meth	NFKBIZ	YES	9
801	stv_RP11-112J3.15	stv	RP11-112J3.15	NO	0
802	cnv_TRANK1	cnv	TRANK1	YES	3
802	meth_C4orf17	meth	C4orf17	NO	0
803	meth_HEATR3	meth	HEATR3	YES	4
804	cnv_LOC100133315	cnv	LOC100133315	NO	0
804	meth_LEO1	meth	LEO1	YES	24
805	meth_EIF4EBP2	meth	EIF4EBP2	YES	18
805	meth_KATNAL2	meth	KATNAL2	YES	12
806	cnv_MRPL54	cnv	MRPL54	YES	8
806	mrna_SWAP70	mrna	SWAP70	YES	23
807	meth_RCBTB1	meth	RCBTB1	YES	7
807	mrna_DDX21	mrna	DDX21	YES	25
808	cnv_C20orf24	cnv	C20orf24	YES	5
810	meth_LRFN5	meth	LRFN5	YES	5
810	mrna_ATP11A	mrna	ATP11A	YES	23
811	cnv_APPBP2	cnv	APPBP2	YES	13
811	cnv_EREG	cnv	EREG	YES	59
812	cnv_AMZ2	cnv	AMZ2	YES	7
812	meth_B3GALNT2	meth	B3GALNT2	YES	13
813	mrna_NCOA6	mrna	NCOA6	YES	31
813	stv_NLRX1	stv	NLRX1	YES	18
814	meth_NAA50	meth	NAA50	YES	14
814	meth_SPATA20	meth	SPATA20	YES	5
815	mrna_NEURL4	mrna	NEURL4	YES	4
815	stv_NPHP4	stv	NPHP4	YES	32
816	cnv_WRNIP1	cnv	WRNIP1	YES	18
816	mrna_GLI3	mrna	GLI3	YES	121
817	cnv_SPECC1L	cnv	SPECC1L	YES	13
817	mrna_RP11-91K9.1	mrna	RP11-91K9.1	NO	0
818	stv_SIGIRR	stv	SIGIRR	YES	9

819	cnv_LINC00681	cnv	LINC00681	NO	0
819	mrna_GPR56	mrna	GPR56	YES	26
820	cnv_USP49	cnv	USP49	YES	20
820	stv_TTBK2	stv	TTBK2	YES	29
821	cnv_NUFIP2	cnv	NUFIP2	YES	10
821	mrna_SMYD2	mrna	SMYD2	YES	28
822	cnv_SDC3	cnv	SDC3	YES	14
822	stv_CACNA2D2	stv	CACNA2D2	YES	20
823	meth_SOCS5	meth	SOCS5	YES	25
823	mrna_COIL	mrna	COIL	YES	10
824	cnv_LOC100506675	cnv	LOC100506675	NO	0
825	cnv_PTCH2	cnv	PTCH2	YES	13
825	mrna_RP11-996F15.6	mrna	RP11-996F15.6	NO	0
826	mrna_HLF	mrna	HLF	YES	15
826	mrna_RP1-191J18.66	mrna	RP1-191J18.66	NO	0
827	mrna_SERBP1	mrna	SERBP1	YES	13
828	mrna_ASTN2	mrna	ASTN2	YES	18
828	stv_CLCN6	stv	CLCN6	YES	20
829	meth_C2orf61	meth	C2orf61	NO	0
830	mrna_HMGCS2	mrna	HMGCS2	YES	16
830	mrna_CHUK	mrna	CHUK	YES	64
831	cnv_GJB3	cnv	GJB3	YES	17
831	mrna_QPRT	mrna	QPRT	YES	14
832	cnv_DNAJB8	cnv	DNAJB8	YES	7
832	stv_C2orf71	stv	C2orf71	YES	8
833	mrna_SLPI	mrna	SLPI	YES	25
833	stv_EFCAB6	stv	EFCAB6	YES	6
834	cnv_PIGL	cnv	PIGL	YES	9
834	mrna_HAGLROS	mrna	HAGLROS	NO	0
835	stv_LRP1	stv	LRP1	YES	75
835	stv_FIG4	stv	FIG4	YES	30
836	stv_FYB	stv	FYB	YES	13
836	stv_SERBP1P6	stv	SERBP1P6	NO	0
837	cnv_LOC101929717	cnv	LOC101929717	NO	0
837	mrna_R3HCC1L	mrna	R3HCC1L	YES	2
838	mirna_MIR383	mirna	MIR383	NO	0
838	mrna_PRIMPOL	mrna	PRIMPOL	YES	19
839	stv_MIR124-2HG	stv	MIR124-2HG	NO	0
840	cnv_DENND5B-AS1	cnv	DENND5B-AS1	NO	0
840	mrna_RP3-523K23.2	mrna	RP3-523K23.2	NO	0
841	cnv_NT5C3B	cnv	NT5C3B	YES	11
841	stv_CTSK	stv	CTSK	YES	27
842	cnv_SLC10A7	cnv	SLC10A7	YES	7
842	mrna_ZNF280C	mrna	ZNF280C	YES	7
843	meth_FBXL12	meth	FBXL12	YES	9
843	meth_MBIP	meth	MBIP	YES	12
844	mirna_MIR3199	mirna	MIR3199	NO	0
844	mrna_CCDC15	mrna	CCDC15	YES	1
845	cnv_SAAL1	cnv	SAAL1	YES	3
845	mrna_CYP21A1P	mrna	CYP21A1P	NO	0
846	meth_NEIL2	meth	NEIL2	YES	26
846	mrna_RBBP7	mrna	RBBP7	YES	24

847	mrna_AP001046.5	mrna	AP001046.5	NO	0
847	stv_DNHD1	stv	DNHD1	YES	11
848	cnv_ANKRD39	cnv	ANKRD39	YES	4
848	mrna_HGD	mrna	HGD	YES	13
849	stv_C1orf112	stv	C1orf112	NO	0
849	stv_TUT1	stv	TUT1	YES	21
850	mrna_CDAN1	mrna	CDAN1	YES	12
850	stv_RP11-981G7.3	stv	RP11-981G7.3	NO	0
851	cnv_LTN1	cnv	LTN1	YES	8
851	mrna_NFYA	mrna	NFYA	YES	17
852	meth_PBK	meth	PBK	YES	17
852	mrna_RCN1P2	mrna	RCN1P2	NO	0
853	cnv_FBXO47	cnv	FBXO47	YES	1
853	mrna_ADAMTS15	mrna	ADAMTS15	YES	14
854	meth_C19orf33	meth	C19orf33	YES	4
854	stv_SLC43A2	stv	SLC43A2	YES	14
855	mrna_PRMT3	mrna	PRMT3	YES	20
855	stv_ZNF513	stv	ZNF513	YES	11
856	stv_PTPMT1	stv	PTPMT1	YES	19
857	mirna_MIR6716	mirna	MIR6716	NO	0
857	stv_NFKBIE	stv	NFKBIE	YES	9
858	cnv_GUSBP11	cnv	GUSBP11	NO	0
858	stv_CADPS	stv	CADPS	YES	20
859	mrna_PADI2	mrna	PADI2	YES	22
860	cnv_ADGRE1	cnv	ADGRE1	YES	16
860	cnv_CSNK1A1P1	cnv	CSNK1A1P1	NO	0
861	cnv_KIAA1551	cnv	KIAA1551	NO	0
862	mrna_MAU2	mrna	MAU2	YES	13
862	mrna_PHGR1	mrna	PHGR1	NO	0
863	stv_LAMA5	stv	LAMA5	YES	45
863	stv_OR13C7	stv	OR13C7	NO	0
864	cnv_PAPPA-AS1	cnv	PAPPA-AS1	YES	2
864	mrna_MME	mrna	MME	YES	36
865	cnv_LINC00691	cnv	LINC00691	NO	0
865	stv_C19orf54	stv	C19orf54	NO	0
866	cnv_TCP11L1	cnv	TCP11L1	YES	1
866	cnv_TTLL11	cnv	TTLL11	YES	13
867	mrna_ADAM10	mrna	ADAM10	YES	53
867	stv_TMEM8B	stv	TMEM8B	YES	13
868	cnv_LRRC3C	cnv	LRRC3C	YES	7
868	mrna_ZNF773	mrna	ZNF773	YES	7
869	cnv_LOC101928134	cnv	LOC101928134	NO	0
869	cnv_TRIM62	cnv	TRIM62	YES	17
870	meth_METTL7B	meth	METTL7B	YES	4
870	mrna_LINC01291	mrna	LINC01291	NO	0
871	meth_PIPOX	meth	PIPOX	YES	11
871	mrna_HSBP1L1	mrna	HSBP1L1	YES	2
872	cnv_NBAT1	cnv	NBAT1	NO	0
872	stv_GIF	stv	GIF	YES	13
873	cnv_CSMD2	cnv	CSMD2	YES	3
873	cnv_KIAA0319	cnv	KIAA0319	YES	13
874	cnv_HMBOX1	cnv	HMBOX1	YES	25

874	cnv_SPICE1	cnv	SPICE1	YES	11
875	cnv_PLCXD2	cnv	PLCXD2	YES	7
875	mrna_SV2A	mrna	SV2A	YES	26
876	mrna_PGK1	mrna	PGK1	YES	21
876	mrna_TEFM	mrna	TEFM	YES	13
877	stv_HNF1A	stv	HNF1A	YES	58
877	stv_MARCH10	stv	MARCH10	YES	5
878	stv_ANKRD24	stv	ANKRD24	YES	1
878	stv_NLRP5	stv	NLRP5	YES	19
879	meth_ZNF137P	meth	ZNF137P	NO	0
879	mrna_MAGEE1	mrna	MAGEE1	YES	10
880	mirna_MIR6513	mirna	MIR6513	NO	0
881	cnv_FAM222B	cnv	FAM222B	YES	1
881	stv_PTPRM	stv	PTPRM	YES	30
882	cnv_RCN1	cnv	RCN1	YES	9
882	mrna_NETO2	mrna	NETO2	YES	6
883	mrna_OSMR	mrna	OSMR	YES	12
883	stv_KIF1B	stv	KIF1B	YES	35
884	mrna_MIR635	mrna	MIR635	NO	0
884	mrna_AL390877.1	mrna	AL390877.1	NO	0
885	cnv_OSBPL3	cnv	OSBPL3	YES	19
886	mrna_ZNF419	mrna	ZNF419	YES	9
886	stv_FEZ1	stv	FEZ1	YES	25
887	cnv_C3orf17	cnv	C3orf17	YES	1
887	meth_MPDU1	meth	MPDU1	YES	9
889	cnv_ADAMTS5	cnv	ADAMTS5	YES	19
889	cnv_SSBP4	cnv	SSBP4	YES	10
890	stv_INTS1	stv	INTS1	YES	11
890	stv_RANBP6	stv	RANBP6	YES	12
891	cnv_GALNT6	cnv	GALNT6	YES	13
892	meth_TOPORS	meth	TOPORS	YES	41
892	stv_CTD-2333M24.1	stv	CTD-2333M24.1	NO	0
893	meth_TRMT12	meth	TRMT12	YES	4
893	stv_CAAP1	stv	CAAP1	YES	1
894	mrna_U47924.6	mrna	U47924.6	NO	0
895	cnv_PIP4K2B	cnv	PIP4K2B	YES	29
895	meth_SRSF10	meth	SRSF10	YES	22
896	cnv_VTN	cnv	VTN	YES	42
896	mirna_MIR185	mirna	MIR185	YES	1
897	cnv_FLJ41941	cnv	FLJ41941	NO	0
897	mrna_FMN2	mrna	FMN2	YES	38
898	mrna_CTD-2561J22.5	mrna	CTD-2561J22.5	NO	0
898	stv_PABPC1L	stv	PABPC1L	YES	8
899	stv_CARF	stv	CARF	YES	14
900	mrna_PODXL2	mrna	PODXL2	YES	9
900	stv_CHRNB2	stv	CHRNB2	YES	69
901	meth_C6orf57	meth	C6orf57	YES	2
901	mrna_PLCH1	mrna	PLCH1	YES	19
902	cnv_SLC22A9	cnv	SLC22A9	YES	19
902	stv_CLHC1	stv	CLHC1	YES	1
903	mrna_E2F8	mrna	E2F8	YES	29
903	stv_ATXN2L	stv	ATXN2L	YES	12

904	cnv_TAC3	cnv	TAC3	YES	7
904	meth_ACKR1	meth	ACKR1	YES	18
905	cnv_SLC22A6	cnv	SLC22A6	YES	29
905	meth_HIST1H1T	meth	HIST1H1T	YES	11
906	mirna_MIR767	mirna	MIR767	YES	2
907	mirna_MIR3187	mirna	MIR3187	NO	0
907	mrna_SNRPE	mrna	SNRPE	YES	32
908	stv_PREX2	stv	PREX2	YES	16
909	cnv_IL18BP	cnv	IL18BP	YES	10
909	meth_AC097467.2	meth	AC097467.2	NO	0
910	cnv_PLAGL2	cnv	PLAGL2	YES	17
910	mrna_PDHX	mrna	PDHX	YES	11
911	mrna_GPRC5A	mrna	GPRC5A	YES	17
911	stv_RP11-124N3.3	stv	RP11-124N3.3	NO	0
912	cnv_NBPF3	cnv	NBPF3	YES	2
912	mrna_XXyac-YX65C7_A.2	mrna	XXyac-YX65C7	NO	0
913	cnv_APP	cnv	APP	YES	126
913	mrna_PCDHB8	mrna	PCDHB8	YES	11
914	mrna_RP11-554D14.4	mrna	RP11-554D14.4	NO	0
914	stv_RP11-726G1.1	stv	RP11-726G1.1	NO	0
915	cnv_MEF2BNB	cnv	MEF2BNB	YES	2
915	cnv_SERPINH1	cnv	SERPINH1	YES	18
916	mirna_MIR3607	mirna	MIR3607	NO	0
916	stv_EEF2KMT	stv	EEF2KMT	YES	10
917	cnv_ERICH1-AS1	cnv	ERICH1-AS1	NO	0
917	meth_FAM65B	meth	FAM65B	YES	6
918	cnv_C6orf195	cnv	C6orf195	NO	0
918	mrna_FA2H	mrna	FA2H	YES	23
919	mrna_STK40	mrna	STK40	YES	22
919	stv_ZNF420	stv	ZNF420	YES	12
920	cnv_UBXN1	cnv	UBXN1	YES	22
921	cnv_BBOX1-AS1	cnv	BBOX1-AS1	NO	0
921	stv_KRT24	stv	KRT24	YES	8
922	cnv_LOC283710	cnv	LOC283710	NO	0
922	meth_MPPED2	meth	MPPED2	YES	4
923	mrna_CNTD1	mrna	CNTD1	YES	2
923	mrna_HLA-J	mrna	HLA-J	NO	0
924	mrna_CYP4Z1	mrna	CYP4Z1	YES	14
925	meth_ADD2	meth	ADD2	YES	26
925	mrna_PLA2G4F	mrna	PLA2G4F	YES	29
926	meth_CD1D	meth	CD1D	YES	32
927	stv_RP11-146B14.1	stv	RP11-146B14.1	NO	0
928	cnv_HNRNPA2B1	cnv	HNRNPA2B1	YES	37
928	mrna_CCZ1B	mrna	CCZ1B	YES	8
929	mrna_GLP1R	mrna	GLP1R	YES	25
929	stv_FANCG	stv	FANCG	YES	18
930	stv_SLC29A3	stv	SLC29A3	YES	13
931	cnv_CBX3	cnv	CBX3	YES	22
931	mrna_C12orf49	mrna	C12orf49	YES	2
932	stv_CTC-550B14.1	stv	CTC-550B14.1	NO	0
932	stv_PKHD1L1	stv	PKHD1L1	YES	7
933	meth_APOC4	meth	APOC4	YES	11

934	cnv_GGT1	cnv	GGT1	YES	27
934	mrna_SPICE1	mrna	SPICE1	YES	11
935	mrna_ZPLD1	mrna	ZPLD1	YES	2
936	cnv_ZNF385D	cnv	ZNF385D	YES	7
936	mrna_MEX3A	mrna	MEX3A	YES	7
937	cnv_DAAM2	cnv	DAAM2	YES	6
937	mrna_SOGA1	mrna	SOGA1	YES	7
938	cnv_HOXA4	cnv	HOXA4	YES	10
938	stv_TRMT44	stv	TRMT44	YES	8
939	cnv_ABCB5	cnv	ABCB5	YES	17
940	stv_ATP8B3	stv	ATP8B3	YES	21
940	stv_ADD2	stv	ADD2	YES	26
941	mrna_MT-ND4	mrna	MT-ND4	YES	19
941	stv_ZNF888	stv	ZNF888	YES	4
942	mrna_AP000439.3	mrna	AP000439.3	NO	0
943	meth_PPHLN1	meth	PPHLN1	YES	11
943	mirna_MIR3174	mirna	MIR3174	NO	0
944	cnv_NRG1-IT1	cnv	NRG1-IT1	NO	0
945	cnv_CGGBP1	cnv	CGGBP1	YES	12
945	meth_SLC10A2	meth	SLC10A2	YES	14
946	meth_OGG1	meth	OGG1	YES	42
947	mirna_MIR3680	mirna	MIR3680	NO	0
947	mrna_DTX3	mrna	DTX3	YES	7
948	mrna_HOXB9	mrna	HOXB9	YES	17
948	stv_PCGF3	stv	PCGF3	YES	9
949	meth_ARID5A	meth	ARID5A	YES	22
950	meth_FYN	meth	FYN	YES	109
951	stv_ZNF680	stv	ZNF680	YES	7
952	mirna_MIR19B	mirna	MIR19B	NO	0
952	stv_RP3-462D8.2	stv	RP3-462D8.2	NO	0
953	meth_KRT33A	meth	KRT33A	YES	6
953	meth_RP11-478C6.1	meth	RP11-478C6.1	NO	0
954	meth_MEPCE	meth	MEPCE	YES	12
955	mrna_RP11-254A24.2	mrna	RP11-254A24.2	NO	0
956	mrna_RP13-580F15.2	mrna	RP13-580F15.2	NO	0
956	stv_NBR1	stv	NBR1	YES	24
957	cnv_HOXA10-HOXA9	cnv	HOXA10-HOXA9	NO	0
957	mrna_SENP1	mrna	SENP1	YES	20
958	mrna_IFT57	mrna	IFT57	YES	29
959	meth_PRICKLE1	meth	PRICKLE1	YES	18
959	mrna_RP11-212P7.2	mrna	RP11-212P7.2	NO	0
960	cnv_LOC101928775	cnv	LOC101928775	NO	0
960	stv_RP11-404K5.2	stv	RP11-404K5.2	NO	0
961	meth_KCNH1	meth	KCNH1	YES	44
961	meth_ODAM	meth	ODAM	YES	17
962	stv_KIAA0556	stv	KIAA0556	YES	4
963	meth_MIR3928	meth	MIR3928	NO	0
963	stv_NBPF10	stv	NBPF10	YES	2
965	cnv_KIAA2018	cnv	KIAA2018	YES	6
965	cnv_PIP4K2C	cnv	PIP4K2C	YES	19
966	cnv_MON2	cnv	MON2	YES	8
966	stv_APOBR	stv	APOBR	YES	15

967	mirna_MIR885	mirna	MIR885	NO	0
967	mrna_TRA2A	mrna	TRA2A	YES	8
968	mrna_KRT17	mrna	KRT17	YES	21
969	mrna_CCNG2	mrna	CCNG2	YES	5
969	mrna_CTC-351M12.1	mrna	CTC-351M12.1	NO	0
970	mrna_RARA-AS1	mrna	RARA-AS1	NO	0
970	stv_TLR3	stv	TLR3	YES	77
971	cnv_CYCS	cnv	CYCS	YES	23
971	meth_DAB2	meth	DAB2	YES	56
972	cnv_IFT43	cnv	IFT43	YES	13
972	cnv_MTMR8	cnv	MTMR8	YES	12
973	cnv_HOXA11	cnv	HOXA11	YES	35
973	mrna_HOTAIR	mrna	HOTAIR	NO	0
974	cnv_GSR	cnv	GSR	YES	18
974	mrna_AC005077.14	mrna	AC005077.14	NO	0
975	mrna_TBC1D13	mrna	TBC1D13	YES	11
975	mrna_SRPK2	mrna	SRPK2	YES	32
976	cnv_DLGAP3	cnv	DLGAP3	YES	11
976	cnv_FOXS1	cnv	FOXS1	YES	37
977	meth_TRPC3	meth	TRPC3	YES	22
978	cnv_CDK5RAP2	cnv	CDK5RAP2	YES	39
978	mrna_GPR27	mrna	GPR27	YES	9
979	stv_SRCAP	stv	SRCAP	YES	20
980	cnv_RPSA	cnv	RPSA	YES	38
981	cnv_MYRFL	cnv	MYRFL	YES	5
981	stv_PTGES3L	stv	PTGES3L	NO	0
982	cnv_SPAG5	cnv	SPAG5	YES	29
982	meth_UCP1	meth	UCP1	YES	27
983	mrna_MSMO1	mrna	MSMO1	YES	16
983	mrna_RP11-69E11.4	mrna	RP11-69E11.4	NO	0
984	stv_THYN1	stv	THYN1	YES	1
984	stv_RP11-379B18.5	stv	RP11-379B18.5	NO	0
985	mrna_SHOC2	mrna	SHOC2	YES	13
985	stv_OR52E2	stv	OR52E2	YES	11
986	mrna_CDADC1	mrna	CDADC1	YES	4
986	stv_RAPGEF3	stv	RAPGEF3	YES	35
987	mrna_SLC3A2	mrna	SLC3A2	YES	27
987	stv_GRIN3B	stv	GRIN3B	YES	26
988	cnv_EPS15L1	cnv	EPS15L1	YES	13
988	stv_ITPR3	stv	ITPR3	YES	54
989	meth_FOXP1	meth	FOXP1	YES	74
989	mrna_PIH1D2	mrna	PIH1D2	YES	2
990	stv_SLC45A2	stv	SLC45A2	YES	9
990	stv_HOXA9	stv	HOXA9	YES	19
991	mrna_SERF1B	mrna	SERF1B	YES	5
991	stv_ZNF77	stv	ZNF77	YES	11
992	meth_ABCA5	meth	ABCA5	YES	23
992	stv_CORO1B	stv	CORO1B	YES	31
993	cnv_NQO2	cnv	NQO2	YES	23
993	mrna_ROPN1L	mrna	ROPN1L	YES	4
994	stv_DOPEY2	stv	DOPEY2	YES	12
995	cnv_MAP3K7CL	cnv	MAP3K7CL	YES	6

995	stv_PGM2	stv	PGM2	YES	22
996	mrna_WNT5A	mrna	WNT5A	YES	192
997	meth_PROS1	meth	PROS1	YES	24
997	meth_TTLL6	meth	TTLL6	YES	19
998	stv_ABLIM3	stv	ABLIM3	YES	13
998	stv_CACNA1B	stv	CACNA1B	YES	33
999	cnv_LOC285423	cnv	LOC285423	NO	0
1000	cnv_CLEC17A	cnv	CLEC17A	YES	7
1001	cnv_LL22NC03-75H12.2	cnv	LL22NC03-75H12.2	NO	0
1001	meth_ANXA11	meth	ANXA11	YES	27
1002	stv_NKX6-3	stv	NKX6-3	YES	10
1004	cnv_TMPPE	cnv	TMPPE	YES	4
1004	mrna_KCTD18	mrna	KCTD18	YES	1
1005	meth_GFRA2	meth	GFRA2	YES	16
1005	stv_INO80	stv	INO80	YES	37
1006	meth_HP	meth	HP	YES	24
1007	cnv_CCDC144NL	cnv	CCDC144NL	NO	0
1007	mrna_HSDL1	mrna	HSDL1	YES	3
1008	stv_ESAM	stv	ESAM	YES	11
1008	stv_SDHAP2	stv	SDHAP2	NO	0
1009	stv_SEH1L	stv	SEH1L	YES	41
1010	cnv_HORMAD2-AS1	cnv	HORMAD2-AS1	NO	0
1010	cnv_SSRP1	cnv	SSRP1	YES	16
1011	mrna_NCAPD3	mrna	NCAPD3	YES	15
1011	mrna_MTF1	mrna	MTF1	YES	22
1012	cnv_HHIP	cnv	HHIP	YES	24
1012	stv_TRIO	stv	TRIO	YES	22
1013	cnv_ITPR2	cnv	ITPR2	YES	38
1013	cnv_TBXA2R	cnv	TBXA2R	YES	31
1014	mrna_ABCC10	mrna	ABCC10	YES	13
1015	mrna_CBFB	mrna	CBFB	YES	27
1015	stv_TTN	stv	TTN	YES	59
1016	meth_RP4-612B15.3	meth	RP4-612B15.3	NO	0
1016	mrna_ARCN1	mrna	ARCN1	YES	23
1017	mrna_ENTPD4	mrna	ENTPD4	YES	14
1018	mrna_IRF2BPL	mrna	IRF2BPL	YES	8
1019	meth_WBP2	meth	WBP2	YES	10
1020	meth_MGLL	meth	MGLL	YES	27
1021	cnv_SF3B2	cnv	SF3B2	YES	15
1022	cnv_HDAC9	cnv	HDAC9	YES	37
1022	mrna_HCG15	mrna	HCG15	NO	0
1023	cnv_SLC31A2	cnv	SLC31A2	YES	12
1023	stv_CAPN12	stv	CAPN12	YES	9
1024	stv_S1PR5	stv	S1PR5	YES	10
1025	cnv_SMARCB1	cnv	SMARCB1	YES	48
1025	mirna_LET7B	mirna	LET7B	NO	0
1026	meth_GUSB	meth	GUSB	YES	20
1026	meth_SLC13A4	meth	SLC13A4	YES	14
1027	meth_AGL	meth	AGL	YES	30
1028	mrna_COQ10A	mrna	COQ10A	YES	6
1028	mrna_GRAMD2	mrna	GRAMD2	YES	1
1029	mrna_HERC1	mrna	HERC1	YES	15

1029	stv_LGI1	stv	LGI1	YES	13
1030	meth_CTD-2521M24.6	meth	CTD-2521M24.6	NO	0
1030	stv_C9orf24	stv	C9orf24	YES	10
1031	cnv_MCHR1	cnv	MCHR1	YES	17
1031	mrna_OAS2	mrna	OAS2	YES	29
1032	meth_GTF2H4	meth	GTF2H4	YES	36
1032	mrna_UBL7-AS1	mrna	UBL7-AS1	NO	0
1033	mrna_PIAS4	mrna	PIAS4	YES	28
1033	stv_MED15P6	stv	MED15P6	NO	0
1034	meth_KIAA0141	meth	KIAA0141	YES	5
1035	mirna_MIR4999	mirna	MIR4999	NO	0
1035	mrna_XYLT1	mrna	XYLT1	YES	15
1036	mrna_SLC41A2	mrna	SLC41A2	YES	14
1036	mrna_CLK3	mrna	CLK3	YES	24
1037	cnv_DCTN6	cnv	DCTN6	YES	11
1037	stv_MAP4	stv	MAP4	YES	20
1038	cnv_OR9G1	cnv	OR9G1	YES	11
1038	mrna_GSTM4	mrna	GSTM4	YES	13
1039	mrna_SEC61A2	mrna	SEC61A2	YES	11
1040	meth_UMPS	meth	UMPS	YES	20
1041	cnv_CASC5	cnv	CASC5	YES	15
1041	cnv_MICAL3	cnv	MICAL3	YES	23
1042	cnv_BRCA2	cnv	BRCA2	YES	58
1042	mrna_EXOSC8	mrna	EXOSC8	YES	27
1043	meth_GNA15	meth	GNA15	YES	20
1044	mrna_PCDHA6	mrna	PCDHA6	YES	10
1044	stv_ECI2	stv	ECI2	YES	15
1045	cnv_KIF18A	cnv	KIF18A	YES	35
1045	stv_ZNF76	stv	ZNF76	YES	12
1046	mrna_FH	mrna	FH	YES	13
1046	mrna_GTF3C6	mrna	GTF3C6	YES	10
1047	stv_TAP1	stv	TAP1	YES	38
1048	meth_RBM39	meth	RBM39	YES	14
1049	mrna_RP11-513G11.4	mrna	RP11-513G11.4	NO	0
1049	stv_IGHM	stv	IGHM	YES	28
1050	cnv_ZSWIM5	cnv	ZSWIM5	YES	3
1050	mrna_RP11-358L22.3	mrna	RP11-358L22.3	NO	0
1051	cnv_PTPRB	cnv	PTPRB	YES	19
1051	mrna_DLAT	mrna	DLAT	YES	19
1052	mrna_GGA2	mrna	GGA2	YES	17
1052	mrna_WBP4	mrna	WBP4	YES	13
1053	cnv_DUSP15	cnv	DUSP15	YES	17
1053	stv_AP000770.1	stv	AP000770.1	NO	0
1054	cnv_LOC340357	cnv	LOC340357	NO	0
1054	meth_EFNB2	meth	EFNB2	YES	34
1055	cnv_BAZ2A	cnv	BAZ2A	YES	21
1055	mrna_ANKRD24	mrna	ANKRD24	YES	1
1056	mrna_KDM2B	mrna	KDM2B	YES	36
1056	stv_UBXN8	stv	UBXN8	YES	12
1058	cnv_GABRR3	cnv	GABRR3	YES	21
1058	stv_SCAF1	stv	SCAF1	YES	6
1059	cnv_ATG3	cnv	ATG3	YES	22

1060	cnv_C17orf64	cnv	C17orf64	NO	0
1060	mrna_C1QL1	mrna	C1QL1	YES	14
1061	cnv_SEC61A1	cnv	SEC61A1	YES	19
1061	cnv_ZNF550	cnv	ZNF550	YES	8
1062	mrna_HEXA-AS1	mrna	HEXA-AS1	NO	0
1062	mrna_RP11-663N22.1	mrna	RP11-663N22.1	NO	0
1063	cnv_LOC100507195	cnv	LOC100507195	NO	0
1063	mrna_RAD54B	mrna	RAD54B	YES	16
1064	mrna_PLOD3	mrna	PLOD3	YES	33
1064	mrna_LINC00202-1	mrna	LINC00202-1	NO	0
1065	stv_KRT1	stv	KRT1	YES	31
1066	mrna_TMCC3	mrna	TMCC3	YES	3
1067	mrna_NLRP12	mrna	NLRP12	YES	27
1068	cnv_PEBP4	cnv	PEBP4	YES	5
1068	mrna_ZNF689	mrna	ZNF689	YES	8
1069	mrna_UBAP1	mrna	UBAP1	YES	16
1069	mrna_GPC2	mrna	GPC2	YES	19
1070	cnv_TTC3	cnv	TTC3	YES	11
1070	stv_DOK1	stv	DOK1	YES	14
1071	cnv_STON2	cnv	STON2	YES	17
1071	mrna_CCBL1	mrna	CCBL1	YES	23
1072	cnv_MPP6	cnv	MPP6	YES	6
1072	mirna_MIR301A	mirna	MIR301A	YES	1
1073	stv_AVPR1A	stv	AVPR1A	YES	48
1074	cnv_FER1L5	cnv	FER1L5	YES	4
1075	mrna_KARS	mrna	KARS	YES	42
1075	mrna_SLC51A	mrna	SLC51A	YES	11
1076	cnv_SSPN	cnv	SSPN	YES	12
1077	cnv_ANGPT2	cnv	ANGPT2	YES	32
1077	mrna_GLOD4	mrna	GLOD4	YES	3
1078	meth_OCEL1	meth	OCEL1	YES	2
1079	mrna_ZNF256	mrna	ZNF256	YES	11
1079	mrna_STX19	mrna	STX19	YES	12
1080	meth_MMP19	meth	MMP19	YES	22
1081	mrna_CD59	mrna	CD59	YES	31
1081	mrna_FCGRT	mrna	FCGRT	YES	12
1082	cnv_PLA1A	cnv	PLA1A	YES	12
1082	stv_HDX	stv	HDX	YES	5
1083	meth_FAM13A	meth	FAM13A	YES	6
1084	mrna_RDM1	mrna	RDM1	YES	12
1085	mrna_ZNF530	mrna	ZNF530	YES	7
1086	mrna_ZNF416	mrna	ZNF416	YES	7
1086	mrna_CDKAL1	mrna	CDKAL1	YES	19
1087	cnv_FRY	cnv	FRY	YES	12
1088	stv_SLC26A11	stv	SLC26A11	YES	28
1089	stv_ZNF286B	stv	ZNF286B	YES	7
1090	cnv_LOC100287015	cnv	LOC100287015	NO	0
1090	mrna_DHX40	mrna	DHX40	YES	11
1091	cnv_B3GAT3	cnv	B3GAT3	YES	22
1091	mrna_SOBP	mrna	SOBP	YES	8
1092	stv_ZNF723P	stv	ZNF723P	NO	0
1093	stv_ZNF341	stv	ZNF341	YES	8

1093	stv_DNAJB5	stv	DNAJB5	YES	8
1094	stv_NECAB2	stv	NECAB2	YES	16
1094	stv_TYW1B	stv	TYW1B	YES	8
1095	cnv_LOC105369868	cnv	LOC105369868	NO	0
1095	stv_NDUFS6	stv	NDUFS6	YES	18
1096	cnv_CCNE1	cnv	CCNE1	YES	27
1097	mrna_PABPC4	mrna	PABPC4	YES	14
1098	mrna_TOM1L1	mrna	TOM1L1	YES	24
1098	mrna_MIR503HG	mrna	MIR503HG	NO	0
1099	cnv_CCDC80	cnv	CCDC80	YES	12
1100	cnv_DCDC2B	cnv	DCDC2B	YES	3
1100	stv_FCGBP	stv	FCGBP	YES	3
1101	mrna_SMC4	mrna	SMC4	YES	21
1101	stv_R3HCC1	stv	R3HCC1	YES	2
1102	mrna_SPP1	mrna	SPP1	YES	32
1103	stv_CFAP45	stv	CFAP45	YES	4
1104	stv_MED25	stv	MED25	YES	16
1105	cnv_IGFL3	cnv	IGFL3	YES	1
1105	stv_AC079779.5	stv	AC079779.5	NO	0
1106	meth_MLPH	meth	MLPH	YES	18
1107	mrna_CIART	mrna	CIART	YES	12
1107	mrna_SETD8	mrna	SETD8	YES	14
1108	mirna_MIR320E	mirna	MIR320E	NO	0
1109	meth_FDCSP	meth	FDCSP	YES	1
1109	mrna_FAM111A	mrna	FAM111A	YES	10
1110	meth_PABPC3	meth	PABPC3	YES	7
1111	mrna_PRPF8	mrna	PRPF8	YES	27
1112	mrna_LMTK2	mrna	LMTK2	YES	28
1112	stv_DMRT1	stv	DMRT1	YES	37
1113	stv_OR11H7	stv	OR11H7	NO	0
1113	stv_TUBB2B	stv	TUBB2B	YES	16
1114	mrna_C1orf112	mrna	C1orf112	NO	0
1114	stv_PTK2B	stv	PTK2B	YES	146
1115	cnv_NKAIN1	cnv	NKAIN1	YES	5
1115	stv_MAPKBP1	stv	MAPKBP1	YES	14
1116	mrna_CTD-2561J22.2	mrna	CTD-2561J22.2	NO	0
1116	stv_MFN1	stv	MFN1	YES	17
1117	mrna_CENPV	mrna	CENPV	YES	22
1118	cnv_B4GALT4-AS1	cnv	B4GALT4-AS1	NO	0
1118	cnv_LOC101927356	cnv	LOC101927356	NO	0
1119	meth_ST13	meth	ST13	YES	18
1119	mrna_TNFSF18	mrna	TNFSF18	YES	26
1120	meth_TRIM2	meth	TRIM2	YES	9
1120	mrna_AHCTF1	mrna	AHCTF1	YES	27
1121	cnv_THAP9	cnv	THAP9	YES	9
1121	meth_CRABP1	meth	CRABP1	YES	13
1122	mrna_PPIL3	mrna	PPIL3	YES	12
1122	stv_CERS2	stv	CERS2	YES	15
1123	cnv_MMAA	cnv	MMAA	YES	11
1123	mrna_DMD	mrna	DMD	YES	100
1124	cnv_PPP2CB	cnv	PPP2CB	YES	23
1125	stv_TNXA	stv	TNXA	NO	0

1126	cnv_IMMP1L	cnv	IMMP1L	YES	13
1126	stv_PSMB6	stv	PSMB6	YES	40
1127	cnv_POLD3	cnv	POLD3	YES	21
1127	mrna_DCLK3	mrna	DCLK3	YES	15
1128	mrna_ETAA1	mrna	ETAA1	YES	9
1128	mrna_KIAA1407	mrna	KIAA1407	NO	0
1129	cnv_CD80	cnv	CD80	YES	30
1129	stv_CEP170	stv	CEP170	YES	11
1130	cnv_FAM20A	cnv	FAM20A	YES	14
1130	meth_SPACA3	meth	SPACA3	YES	21
1131	stv_AMOTL1	stv	AMOTL1	YES	14
1131	stv_ZSCAN4	stv	ZSCAN4	YES	12
1132	cnv_PDLIM5	cnv	PDLIM5	YES	22
1132	mrna_ZFYVE19	mrna	ZFYVE19	YES	15
1133	mrna_DDX60	mrna	DDX60	YES	19
1133	stv_PDXDC1	stv	PDXDC1	YES	8
1134	cnv_PXDNL	cnv	PXDNL	YES	15
1135	mrna_GATAD2A	mrna	GATAD2A	YES	18
1135	stv_KCNC4	stv	KCNC4	YES	19
1136	cnv_CACNA2D1	cnv	CACNA2D1	YES	30
1136	cnv_TMEM39A	cnv	TMEM39A	YES	2
1137	cnv_ESPL1	cnv	ESPL1	YES	24
1137	meth_KCNE1	meth	KCNE1	YES	42
1138	mrna_PRR16	mrna	PRR16	YES	3
1138	stv_CLEC17A	stv	CLEC17A	YES	7
1139	cnv_FTX	cnv	FTX	NO	0
1139	mrna_GPRASP1	mrna	GPRASP1	YES	5
1141	stv_TRAV13-1	stv	TRAV13-1	YES	1
1142	cnv_SERPINB9P1	cnv	SERPINB9P1	NO	0
1142	stv_ZNF619	stv	ZNF619	YES	7
1143	cnv_LINC00294	cnv	LINC00294	NO	0
1144	cnv_LOC100996338	cnv	LOC100996338	NO	0
1144	stv_FOPNL	stv	FOPNL	YES	14
1145	mrna_GSKIP	mrna	GSKIP	YES	1
1146	cnv_KLHL35	cnv	KLHL35	YES	4
1146	cnv_LRRC55	cnv	LRRC55	YES	15
1147	cnv_MUC15	cnv	MUC15	YES	7
1147	mrna_RPA1	mrna	RPA1	YES	39
1148	meth_ZNF526	meth	ZNF526	YES	6
1148	mrna_GSPT2	mrna	GSPT2	YES	14
1149	stv_USP5	stv	USP5	YES	18
1149	stv_SSH2	stv	SSH2	YES	17
1150	stv_HNRNPA0	stv	HNRNPA0	YES	15
1151	stv_ATP7B	stv	ATP7B	YES	40
1151	stv_C6orf226	stv	C6orf226	YES	1
1152	cnv_C7orf71	cnv	C7orf71	NO	0
1153	mrna_ZFP57	mrna	ZFP57	YES	13
1154	cnv_UCP2	cnv	UCP2	YES	29
1155	meth_DNHD1	meth	DNHD1	YES	11
1156	stv_CD151	stv	CD151	YES	14
1156	stv_CEL	stv	CEL	YES	23
1157	cnv_MT1IP	cnv	MT1IP	NO	0

1157	cnv_PTPRR	cnv	PTPRR	YES	22
1159	meth_PPP2CB	meth	PPP2CB	YES	23
1159	mrna_ENTPD7	mrna	ENTPD7	YES	9
1160	meth_TGM3	meth	TGM3	YES	18
1160	mrna_LRRC37A16P	mrna	LRRC37A16P	NO	0
1161	meth_HIST1H4B	meth	HIST1H4B	YES	36
1161	stv_PRG4	stv	PRG4	YES	8
1162	mrna_ZNF287	mrna	ZNF287	YES	14
1163	cnv_LOC100507250	cnv	LOC100507250	NO	0
1163	stv_NDN	stv	NDN	YES	32
1165	mirna_MIR514A	mirna	MIR514A	NO	0
1165	mrna_MS4A15	mrna	MS4A15	YES	2
1166	cnv_KPNA6	cnv	KPNA6	YES	15
1166	cnv_MAPKBP1	cnv	MAPKBP1	YES	14
1167	mrna_ADO	mrna	ADO	YES	9
1168	cnv_GMDS-AS1	cnv	GMDS-AS1	NO	0
1168	mrna_GUCY1A2	mrna	GUCY1A2	YES	15
1169	meth_FGF2	meth	FGF2	YES	83
1169	stv_CATSPER1	stv	CATSPER1	YES	30
1170	mirna_MIR6815	mirna	MIR6815	NO	0
1170	mrna_IGLV7-46	mrna	IGLV7-46	YES	9
1171	meth_EGLN1	meth	EGLN1	YES	31
1171	stv_REXO1	stv	REXO1	YES	8
1172	stv_ACTB	stv	ACTB	YES	44
1173	cnv_CD70	cnv	CD70	YES	17
1174	meth_MGMT	meth	MGMT	YES	31
1175	cnv_MGLL	cnv	MGLL	YES	27
1176	meth_KLHL5	meth	KLHL5	YES	10
1176	mrna_TNFSF15	mrna	TNFSF15	YES	17
1177	cnv_SPRYD4	cnv	SPRYD4	YES	5
1178	cnv_LGI2	cnv	LGI2	YES	2
1178	mirna_LET7F	mirna	LET7F	NO	0
1179	cnv_DENND1C	cnv	DENND1C	YES	8
1179	mrna_CHD3	mrna	CHD3	YES	30
1180	cnv_RAPGEFL1	cnv	RAPGEFL1	YES	9
1180	stv_DOC2B	stv	DOC2B	YES	16
1181	meth_MAP3K14	meth	MAP3K14	YES	31
1181	stv_CCDC142	stv	CCDC142	NO	0
1182	cnv_USP15	cnv	USP15	YES	25
1182	mrna_FMO4	mrna	FMO4	YES	13
1183	cnv_NFE2L3	cnv	NFE2L3	YES	15
1183	stv_GTF2F1	stv	GTF2F1	YES	31
1185	cnv_OR5AC2	cnv	OR5AC2	YES	12
1187	meth_GRIP1	meth	GRIP1	YES	24
1187	stv_C1orf143	stv	C1orf143	NO	0
1188	mrna_STK4	mrna	STK4	YES	52
1188	mrna_KIF13B	mrna	KIF13B	YES	25
1189	mrna_RP11-1072A3.3	mrna	RP11-1072A3.3	NO	0
1190	cnv_CLIC6	cnv	CLIC6	YES	14
1190	stv_ATP6V1E1	stv	ATP6V1E1	YES	24
1191	cnv_ENTPD3-AS1	cnv	ENTPD3-AS1	NO	0
1191	cnv_MGA	cnv	MGA	YES	8

1192	cnv_PPM1F	cnv	PPM1F	YES	30
1192	stv_FSD2	stv	FSD2	YES	1
1193	cnv_BVES	cnv	BVES	YES	25
1193	mrna_CD46	mrna	CD46	YES	42
1194	cnv_N4BP2L1	cnv	N4BP2L1	YES	2
1194	mrna_NRSN2-AS1	mrna	NRSN2-AS1	NO	0
1195	cnv_DEFA6	cnv	DEFA6	YES	10
1196	cnv_LOC152225	cnv	LOC152225	NO	0
1197	meth_ISOC2	meth	ISOC2	YES	7
1197	mrna_GATB	mrna	GATB	YES	12
1198	mrna_FAM199X	mrna	FAM199X	YES	1
1199	cnv_BSPRY	cnv	BSPRY	YES	10
1199	stv_MSLNL	stv	MSLNL	YES	5
1200	mrna_DBF4	mrna	DBF4	YES	11
1201	meth_ABL1	meth	ABL1	YES	142
1201	meth_HOXB5	meth	HOXB5	YES	19
1202	mrna_FHOD3	mrna	FHOD3	YES	14
1203	mrna_METTL6	mrna	METTL6	YES	4
1203	stv_ALDH16A1	stv	ALDH16A1	YES	6
1204	meth_CSRNP3	meth	CSRNP3	YES	12
1204	meth_PEX26	meth	PEX26	YES	13
1205	cnv_CLASP2	cnv	CLASP2	YES	52
1205	mrna_AACS	mrna	AACS	YES	28
1206	cnv_LINC01162	cnv	LINC01162	NO	0
1206	cnv_LPAR2	cnv	LPAR2	YES	16
1208	mrna_FUT3	mrna	FUT3	YES	17
1208	stv_SLIT2	stv	SLIT2	YES	63
1209	mrna_RP5-967N21.11	mrna	RP5-967N21.11	NO	0
1209	stv_MAP2K5	stv	MAP2K5	YES	43
1210	mirna_MIR101	mirna	MIR101	NO	0
1211	cnv_SARM1	cnv	SARM1	YES	22
1211	mrna_ZNF418	mrna	ZNF418	YES	9
1212	stv_RARG	stv	RARG	YES	62
1213	mrna_MTM1	mrna	MTM1	YES	39
1214	cnv_LOC284825	cnv	LOC284825	NO	0
1215	cnv_ALKBH1	cnv	ALKBH1	YES	41
1215	cnv_RAB11B-AS1	cnv	RAB11B-AS1	NO	0
1216	cnv_LINC00474	cnv	LINC00474	NO	0
1217	cnv_CYYR1-AS1	cnv	CYYR1-AS1	NO	0
1217	cnv_ZNF304	cnv	ZNF304	YES	22
1218	cnv_LOC101927159	cnv	LOC101927159	NO	0
1219	cnv_HOXA10-AS	cnv	HOXA10-AS	NO	0
1219	mrna_RAB20	mrna	RAB20	YES	16
1220	meth_GPX1	meth	GPX1	YES	70
1222	cnv_CCDC126	cnv	CCDC126	YES	5
1222	stv_MACF1	stv	MACF1	YES	28
1223	meth_AGPAT1	meth	AGPAT1	YES	19
1223	mrna_VIPR2	mrna	VIPR2	YES	14
1224	meth_DNAH6	meth	DNAH6	YES	19
1224	mrna_CHRDL2	mrna	CHRDL2	YES	7
1225	mrna_SLC25A17	mrna	SLC25A17	YES	32
1226	mrna_IGSF1	mrna	IGSF1	YES	9

1226	mrna_GGTA1P	mrna	GGTA1P	NO	0
1227	mrna_ARL6	mrna	ARL6	YES	37
1227	mrna_FAM208A	mrna	FAM208A	YES	6
1228	mrna_RAB3D	mrna	RAB3D	YES	22
1228	stv_BTBD2	stv	BTBD2	YES	10
1229	meth_CLPTM1L	meth	CLPTM1L	YES	3
1229	mrna_RANBP3L	mrna	RANBP3L	YES	17
1230	meth_NOL4	meth	NOL4	YES	3
1230	stv_PLEC	stv	PLEC	YES	23
1231	mirna_MIR519D	mirna	MIR519D	YES	4
1231	mrna_RP5-1033H22.2	mrna	RP5-1033H22.2	NO	0
1232	cnv_C9orf43	cnv	C9orf43	YES	1
1232	mirna_MIR636	mirna	MIR636	NO	0
1233	cnv_GLS2	cnv	GLS2	YES	14
1233	stv_FAM81A	stv	FAM81A	NO	0
1234	mrna_MANBA	mrna	MANBA	YES	15
1234	mrna_SCUBE1	mrna	SCUBE1	YES	20
1235	cnv_GUCD1	cnv	GUCD1	YES	1
1235	mrna_ZNF550	mrna	ZNF550	YES	8
1236	cnv_TSPY26P	cnv	TSPY26P	NO	0
1236	cnv_XIRP1	cnv	XIRP1	YES	10
1237	cnv_LINC00663	cnv	LINC00663	NO	0
1237	mrna_MYNN	mrna	MYNN	YES	9
1238	stv_RAPGEF4	stv	RAPGEF4	YES	25
1239	cnv_ANAPC4	cnv	ANAPC4	YES	19
1240	cnv_LOC388406	cnv	LOC388406	NO	0
1240	meth_NUDT6	meth	NUDT6	YES	7
1241	meth_PCDHB12	meth	PCDHB12	YES	10
1242	mrna_TCAIM	mrna	TCAIM	YES	1
1243	meth_C9orf3	meth	C9orf3	YES	14
1243	mrna_ARHGAP23	mrna	ARHGAP23	YES	7
1244	mrna_CIAPIN1	mrna	CIAPIN1	YES	17
1244	mrna_LMBRD2	mrna	LMBRD2	YES	2
1245	mrna_IPO8	mrna	IPO8	YES	15
1246	meth_KAT2B	meth	KAT2B	YES	51
1247	cnv_RAB21	cnv	RAB21	YES	34
1247	cnv_RXFP2	cnv	RXFP2	YES	17
1248	stv_OR13A1	stv	OR13A1	YES	12
1248	stv_TBKBP1	stv	TBKBP1	YES	4
1249	mrna_USB1	mrna	USB1	YES	10
1250	meth_GLI3	meth	GLI3	YES	121
1251	cnv_EMC4	cnv	EMC4	YES	5
1252	cnv_EGFR	cnv	EGFR	YES	176
1252	cnv_KL	cnv	KL	YES	39
1253	cnv_MTA2	cnv	MTA2	YES	33
1253	mrna_TMEM99	mrna	TMEM99	YES	2
1254	cnv_PRPF4	cnv	PRPF4	YES	16
1254	mrna_FBN2	mrna	FBN2	YES	19
1255	cnv_LOC105377792	cnv	LOC105377792	NO	0
1255	stv_PLXNB3	stv	PLXNB3	YES	24
1256	cnv_LOC105377200	cnv	LOC105377200	NO	0
1257	cnv_OR1N1	cnv	OR1N1	YES	13

1258	cnv_RAD51-AS1	cnv	RAD51-AS1	NO	0
1258	stv_ZSCAN21	stv	ZSCAN21	YES	13
1259	meth_AKIRIN1	meth	AKIRIN1	YES	4
1259	meth_BACH2	meth	BACH2	YES	15
1260	meth_NTHL1	meth	NTHL1	YES	25
1260	mrna_BRD8	mrna	BRD8	YES	18
1261	cnv_ANKRD13B	cnv	ANKRD13B	YES	7
1261	mrna_CEP83	mrna	CEP83	YES	14
1262	cnv_CPSF6	cnv	CPSF6	YES	14
1262	stv_ZNF208	stv	ZNF208	YES	8
1263	cnv_LAMTOR1	cnv	LAMTOR1	YES	34
1263	meth_CDK7	meth	CDK7	YES	47
1264	mrna_GRIK1-AS1	mrna	GRIK1-AS1	NO	0
1266	meth_ESAM	meth	ESAM	YES	11
1266	mrna_RP11-178C3.2	mrna	RP11-178C3.2	NO	0
1267	mrna_DNM2	mrna	DNM2	YES	90
1267	mrna_CFAP57	mrna	CFAP57	NO	0
1268	mrna_RP11-713P17.3	mrna	RP11-713P17.3	NO	0
1268	stv_MIR7-3HG	stv	MIR7-3HG	NO	0
1269	cnv_FSHB	cnv	FSHB	YES	24
1269	mirna_MIR320D	mirna	MIR320D	NO	0
1270	stv_TLR1	stv	TLR1	YES	35
1271	mrna_TUSC3	mrna	TUSC3	YES	18
1271	mrna_SF3B1	mrna	SF3B1	YES	18
1272	mrna_RP11-43F13.3	mrna	RP11-43F13.3	NO	0
1273	stv_STRIP2	stv	STRIP2	YES	6
1273	stv_HAUS6	stv	HAUS6	YES	17
1274	cnv_MATK	cnv	MATK	YES	24
1275	cnv_NR2C2AP	cnv	NR2C2AP	YES	5
1275	stv_SF3A2	stv	SF3A2	YES	18
1276	cnv_ZDHHC23	cnv	ZDHHC23	YES	7
1276	meth_MGAT2	meth	MGAT2	YES	14
1277	cnv_ELF2	cnv	ELF2	YES	15
1277	cnv_TREML4	cnv	TREML4	YES	3
1278	mrna_THAP6	mrna	THAP6	YES	5
1279	cnv_SNHG1	cnv	SNHG1	NO	0
1279	meth_AMY2B	meth	AMY2B	YES	11
1280	cnv_NR1D1	cnv	NR1D1	YES	51
1280	meth_SPEF2	meth	SPEF2	YES	17
1281	mrna_IFT46	mrna	IFT46	YES	17
1282	mrna_SLC22A4	mrna	SLC22A4	YES	32
1282	stv_GZMB	stv	GZMB	YES	17
1283	mrna_RP11-611E13.2	mrna	RP11-611E13.2	NO	0
1284	cnv_ACLY	cnv	ACLY	YES	31
1284	cnv_RAP1GAP	cnv	RAP1GAP	YES	25
1285	mirna_MIR380	mirna	MIR380	NO	0
1285	stv_ACAD8	stv	ACAD8	YES	15
1286	cnv_CHRM5	cnv	CHRM5	YES	22
1286	meth_PA2G4	meth	PA2G4	YES	23
1287	meth_RP11-343C2.11	meth	RP11-343C2.11	NO	0
1288	mrna_OXR1	mrna	OXR1	YES	14
1289	mrna_PRR3	mrna	PRR3	YES	3

1289	mrna_RP11-288L9.4	mrna	RP11-288L9.4	NO	0
1290	meth_LTBP3	meth	LTBP3	YES	13
1290	stv_IFFO1	stv	IFFO1	YES	2
1291	mrna_IFRD1	mrna	IFRD1	YES	10
1292	meth_CCDC82	meth	CCDC82	NO	0
1293	meth_AC138430.4	meth	AC138430.4	NO	0
1293	meth_SLC25A26	meth	SLC25A26	YES	10
1294	mrna_FAM161A	mrna	FAM161A	YES	13
1295	cnv_KRT3	cnv	KRT3	YES	9
1296	cnv_PCDH7	cnv	PCDH7	YES	9
1296	cnv_TJP3	cnv	TJP3	YES	6
1297	cnv_MIATNB	cnv	MIATNB	NO	0
1297	stv_DMWD	stv	DMWD	YES	4
1299	mrna_LCLAT1	mrna	LCLAT1	YES	17
1300	cnv_HUNK	cnv	HUNK	YES	13
1301	cnv_LOC101927730	cnv	LOC101927730	NO	0
1301	stv_DEAF1	stv	DEAF1	YES	27
1302	cnv_LOC101927269	cnv	LOC101927269	NO	0
1302	meth_CHFR	meth	CHFR	YES	19
1303	mrna_AASDHPPT	mrna	AASDHPPT	YES	11
1304	mrna_RIBC2	mrna	RIBC2	NO	0
1304	mrna_ABTB2	mrna	ABTB2	YES	10
1305	mirna_MIR5690	mirna	MIR5690	NO	0
1305	stv_RPP40	stv	RPP40	YES	11
1306	meth_LGI4	meth	LGI4	YES	10
1307	cnv_LRRC37B	cnv	LRRC37B	YES	3
1308	cnv_CCT6B	cnv	CCT6B	YES	15
1308	stv_NLRP11	stv	NLRP11	YES	5
1309	stv_RP11-730N24.1	stv	RP11-730N24.1	NO	0
1310	cnv_JAM2	cnv	JAM2	YES	12
1310	stv_PSMG2	stv	PSMG2	YES	8
1311	mrna_ZUFSP	mrna	ZUFSP	YES	3
1311	stv_PCDHA11	stv	PCDHA11	YES	9
1312	cnv_DNAJB13	cnv	DNAJB13	YES	13
1313	meth_TMEM106B	meth	TMEM106B	YES	15
1313	mrna_MNS1	mrna	MNS1	YES	12
1314	mrna_EYA2	mrna	EYA2	YES	27
1314	stv_JPH2	stv	JPH2	YES	27
1315	cnv_INTS9	cnv	INTS9	YES	7
1315	mrna_ACOX2	mrna	ACOX2	YES	24
1316	mirna_MIR3654	mirna	MIR3654	YES	2
1316	mrna_SPATA20	mrna	SPATA20	YES	5
1317	cnv_NUPL2	cnv	NUPL2	YES	26
1318	mrna_IQCG	mrna	IQCG	YES	14
1318	mrna_RBSN	mrna	RBSN	YES	25
1319	meth_COMT	meth	COMT	YES	43
1320	meth_CXCL13	meth	CXCL13	YES	38
1321	mrna_IFIT5	mrna	IFIT5	YES	20
1322	cnv_ZIK1	cnv	ZIK1	YES	7
1322	mrna_RNF5P1	mrna	RNF5P1	NO	0
1323	meth_RRM2	meth	RRM2	YES	20
1323	stv_CACTIN	stv	CACTIN	YES	26

1324	meth_GPR63	meth	GPR63	YES	12
1324	stv_IPO9	stv	IPO9	YES	13
1325	cnv_C3orf30	cnv	C3orf30	NO	0
1325	mrna_NLRP5	mrna	NLRP5	YES	19
1326	cnv_AP1M1	cnv	AP1M1	YES	25
1326	cnv_SEC31A	cnv	SEC31A	YES	26
1327	mrna_NT5C3B	mrna	NT5C3B	YES	11
1328	stv_RANBP9	stv	RANBP9	YES	16
1329	meth_CTD-2651B20.3	meth	CTD-2651B20.3	NO	0
1329	stv_GOLGA8UP	stv	GOLGA8UP	NO	0
1330	cnv_MIR548J	cnv	MIR548J	NO	0
1330	cnv_XKR5	cnv	XKR5	YES	2
1331	mrna_UAP1	mrna	UAP1	YES	14
1331	mrna_ZDHHC13	mrna	ZDHHC13	YES	17
1332	mrna_PITPNB	mrna	PITPNB	YES	12
1332	stv_CMIP	stv	CMIP	YES	5
1334	stv_RPS23P7	stv	RPS23P7	NO	0
1334	stv_AC004637.1	stv	AC004637.1	NO	0
1335	mrna_HAGLR	mrna	HAGLR	NO	0
1337	meth_GNAZ	meth	GNAZ	YES	24
1338	mrna_MSI2	mrna	MSI2	YES	8
1338	mrna_RP11-253M7.1	mrna	RP11-253M7.1	NO	0
1339	cnv_AGMO	cnv	AGMO	YES	13
1339	cnv_AURKC	cnv	AURKC	YES	36
1340	cnv_PPP1R1B	cnv	PPP1R1B	YES	25
1340	stv_LA16c-431H6.6	stv	LA16c-431H6.6	NO	0
1341	cnv_C20orf203	cnv	C20orf203	NO	0
1342	cnv_CCDC25	cnv	CCDC25	YES	2
1342	mrna_MKS1	mrna	MKS1	YES	32
1344	cnv_WDR3	cnv	WDR3	YES	10
1344	mrna_PMPCB	mrna	PMPCB	YES	16
1345	cnv_CWC15	cnv	CWC15	YES	11
1345	stv_EHD2	stv	EHD2	YES	32
1346	cnv_SPRED1	cnv	SPRED1	YES	22
1346	mrna_HPD	mrna	HPD	YES	15
1347	cnv_RPN1	cnv	RPN1	YES	17
1348	cnv_DNAJC25-GNG10	cnv	DNAJC25-GNG10	YES	6
1348	mrna_BAG3	mrna	BAG3	YES	27
1349	cnv_GSDMB	cnv	GSDMB	YES	5
1349	cnv_GSN	cnv	GSN	YES	69
1350	mrna_YEATS2	mrna	YEATS2	YES	9
1351	mrna_P2RY2	mrna	P2RY2	YES	15
1351	mrna_RP11-132F7.2	mrna	RP11-132F7.2	NO	0
1352	mrna_TWSG1	mrna	TWSG1	YES	23
1354	cnv_HTR1F	cnv	HTR1F	YES	15
1354	mrna_PUS3	mrna	PUS3	YES	12
1355	cnv_CLK2P1	cnv	CLK2P1	NO	0
1355	stv_SLC35B3	stv	SLC35B3	YES	11
1356	cnv_PRL	cnv	PRL	YES	24
1357	mrna_LIPT2	mrna	LIPT2	YES	11
1359	mrna_ACAA1	mrna	ACAA1	YES	23
1359	mrna_ASB8	mrna	ASB8	YES	5

1360	stv_ZNF627	stv	ZNF627	YES	8
1361	cnv_DCDC1	cnv	DCDC1	YES	2
1361	cnv_OGFOD1	cnv	OGFOD1	YES	19
1362	cnv_LANCL2	cnv	LANCL2	YES	14
1362	meth_RP4-591C20.9	meth	RP4-591C20.9	NO	0
1363	mrna_FAM98B	mrna	FAM98B	YES	13
1363	stv_TMEM239	stv	TMEM239	YES	3
1364	meth_EDDM3A	meth	EDDM3A	YES	3
1364	stv_CYP3A5	stv	CYP3A5	YES	23
1365	meth_HNRNPF	meth	HNRNPF	YES	23
1366	cnv_TRHDE-AS1	cnv	TRHDE-AS1	NO	0
1366	mrna_LRRC8B	mrna	LRRC8B	YES	15
1367	mrna_AC012358.8	mrna	AC012358.8	NO	0
1369	stv_AVPR2	stv	AVPR2	YES	36
1370	cnv_LOC101928135	cnv	LOC101928135	NO	0
1370	mrna_RBM18	mrna	RBM18	YES	3
1371	meth_TMEM52	meth	TMEM52	YES	2
1371	mrna_IARS2	mrna	IARS2	YES	15
1372	cnv_CSTF3-AS1	cnv	CSTF3-AS1	NO	0
1372	mrna_SPRTN	mrna	SPRTN	YES	15
1373	stv_BSDC1	stv	BSDC1	NO	0
1373	stv_COL7A1	stv	COL7A1	YES	24
1374	mrna_ABHD10	mrna	ABHD10	YES	8
1374	stv_C17orf107	stv	C17orf107	NO	0
1375	mrna_DALRD3	mrna	DALRD3	YES	7
1375	stv_VPS13A	stv	VPS13A	YES	12
1376	cnv_SGK494	cnv	SGK494	NO	0
1376	stv_TAS2R43	stv	TAS2R43	YES	16
1377	cnv_MFHAS1	cnv	MFHAS1	YES	5
1377	mrna_HCG4P5	mrna	HCG4P5	NO	0
1378	meth_AC092755.4	meth	AC092755.4	NO	0
1378	stv_RP11-288L9.4	stv	RP11-288L9.4	NO	0
1379	cnv_LONRF1	cnv	LONRF1	YES	9
1379	mrna_ZNF330	mrna	ZNF330	YES	9
1380	cnv_LOC101930332	cnv	LOC101930332	NO	0
1380	mrna_CYP4V2	mrna	CYP4V2	YES	17
1381	cnv_CASC15	cnv	CASC15	NO	0
1381	meth_PANK1	meth	PANK1	YES	14
1382	cnv_CCND1	cnv	CCND1	YES	72
1382	meth_EIF3G	meth	EIF3G	YES	17
1383	cnv_TOMM7	cnv	TOMM7	YES	18
1383	mrna_GTF3C3	mrna	GTF3C3	YES	15
1384	cnv_HECTD3	cnv	HECTD3	YES	9
1385	mrna_OAS3	mrna	OAS3	YES	26
1385	stv_TICAM1	stv	TICAM1	YES	43
1386	mrna_SLC35E2B	mrna	SLC35E2B	YES	3
1387	meth_ABHD6	meth	ABHD6	YES	16
1387	mrna_LRRC75A	mrna	LRRC75A	NO	0
1388	mrna_AIM1	mrna	AIM1	YES	3
1388	mrna_B3GALT5-AS1	mrna	B3GALT5-AS1	NO	0
1389	meth_WDR86	meth	WDR86	YES	1
1390	mrna_RAB3GAP2	mrna	RAB3GAP2	YES	21

1390	stv_CMTM6	stv	CMTM6	YES	10
1391	meth_CDK4	meth	CDK4	YES	63
1392	cnv_CELF5	cnv	CELF5	YES	8
1392	cnv_SEC22A	cnv	SEC22A	YES	14
1393	cnv_PKP2	cnv	PKP2	YES	47
1393	cnv_RAB3A	cnv	RAB3A	YES	54
1394	cnv_ZMYM6NB	cnv	ZMYM6NB	YES	1
1394	mrna_NUP214	mrna	NUP214	YES	33
1395	meth_RP1-111C20.4	meth	RP1-111C20.4	NO	0
1395	mrna_MYH3	mrna	MYH3	YES	27
1396	meth_UAP1L1	meth	UAP1L1	YES	7
1397	cnv_EPHX2	cnv	EPHX2	YES	34
1397	mirna_MIR190A	mirna	MIR190A	NO	0
1398	cnv_MTMR10	cnv	MTMR10	YES	2
1398	stv_PTGIR	stv	PTGIR	YES	20
1399	cnv_SLC26A10	cnv	SLC26A10	YES	19
1399	cnv_UNC5C	cnv	UNC5C	YES	16
1400	mrna_SLC20A1	mrna	SLC20A1	YES	23
1401	cnv_NDUFA13	cnv	NDUFA13	YES	32
1401	stv_ANKRD11	stv	ANKRD11	YES	12
1402	mrna_THAP2	mrna	THAP2	YES	4
1402	stv_SPINT1	stv	SPINT1	YES	18
1403	mirna_MIR4668	mirna	MIR4668	NO	0
1404	cnv_LOC101927403	cnv	LOC101927403	NO	0
1404	cnv_SMIM12	cnv	SMIM12	YES	2
1405	meth_AIM1	meth	AIM1	YES	3
1405	meth_INF2	meth	INF2	YES	11
1406	cnv_ZNF345	cnv	ZNF345	YES	11
1406	stv_PCDHA3	stv	PCDHA3	YES	9
1407	cnv_HMGCS2	cnv	HMGCS2	YES	16
1407	stv_SNRNP48	stv	SNRNP48	YES	10
1408	mrna_USP10	mrna	USP10	YES	28
1408	mrna_RP11-1148L6.5	mrna	RP11-1148L6.5	NO	0
1409	meth_FBXO3	meth	FBXO3	YES	7
1410	meth_DMRTB1	meth	DMRTB1	YES	7
1410	stv_TBXA2R	stv	TBXA2R	YES	31
1411	meth_AREL1	meth	AREL1	YES	11
1411	stv_LINC00840	stv	LINC00840	NO	0
1412	meth_SPRR2A	meth	SPRR2A	YES	10
1412	mrna_RP11-379F12.3	mrna	RP11-379F12.3	NO	0
1413	mirna_MIR4326	mirna	MIR4326	NO	0
1413	mrna_TSPYL2	mrna	TSPYL2	YES	20
1414	cnv_LINC00938	cnv	LINC00938	NO	0
1414	mrna_CNIH2	mrna	CNIH2	YES	28
1416	cnv_C3orf52	cnv	C3orf52	YES	5
1416	mrna_IFIT1	mrna	IFIT1	YES	20
1417	cnv_SLC38A1	cnv	SLC38A1	YES	24
1417	stv_CDHR5	stv	CDHR5	YES	19
1418	cnv_UBE2V2	cnv	UBE2V2	YES	24
1419	stv_SPEG	stv	SPEG	YES	15
1420	mrna_TNRC18P1	mrna	TNRC18P1	NO	0
1420	stv_RP11-373D7.1	stv	RP11-373D7.1	NO	0

1421	cnv_VKORC1L1	cnv	VKORC1L1	YES	11
1421	cnv_VPREB3	cnv	VPREB3	YES	6
1422	meth_CPS1	meth	CPS1	YES	59
1422	mrna_HIBCH	mrna	HIBCH	YES	9
1423	cnv_ADAM30	cnv	ADAM30	YES	13
1423	meth_CCER1	meth	CCER1	YES	1
1424	meth_FANCA	meth	FANCA	YES	17
1424	mrna_N6AMT2	mrna	N6AMT2	YES	2
1425	cnv_COIL	cnv	COIL	YES	10
1425	mrna_TTI1	mrna	TTI1	YES	6
1426	mrna_USP40	mrna	USP40	YES	7
1426	stv_CD300E	stv	CD300E	YES	7
1427	mrna_CES3	mrna	CES3	YES	8
1428	meth_SDC4	meth	SDC4	YES	34
1428	mirna_MIR181B	mirna	MIR181B	NO	0
1429	meth_TUBB2B	meth	TUBB2B	YES	16
1429	stv_TRAV14DV4	stv	TRAV14DV4	YES	3
1430	mrna_MYBBP1A	mrna	MYBBP1A	YES	29
1431	mrna_F2RL1	mrna	F2RL1	YES	68
1431	mrna_PTOV1-AS1	mrna	PTOV1-AS1	NO	0
1432	stv_FAM83E	stv	FAM83E	YES	1
1433	mrna_FAM72A	mrna	FAM72A	YES	5
1433	stv_KLHL22	stv	KLHL22	YES	18
1434	cnv_RUVBL1-AS1	cnv	RUVBL1-AS1	NO	0
1434	meth_NDUFA7	meth	NDUFA7	YES	13
1435	meth_JOSD2	meth	JOSD2	YES	8
1435	mrna_RIIAD1	mrna	RIIAD1	NO	0
1436	mrna_SOX2	mrna	SOX2	YES	70
1437	mrna_PADI3	mrna	PADI3	YES	10
1438	mrna_FOXJ2	mrna	FOXJ2	YES	15
1438	mrna_KIAA1549L	mrna	KIAA1549L	YES	2
1439	cnv_ITPKA	cnv	ITPKA	YES	19
1441	mrna_NUDT21	mrna	NUDT21	YES	21
1442	mirna_MIR6509	mirna	MIR6509	NO	0
1442	mrna_RYBP	mrna	RYBP	YES	14
1443	meth_RP11-290H9.2	meth	RP11-290H9.2	NO	0
1444	mrna_RP3-402G11.26	mrna	RP3-402G11.26	NO	0
1445	cnv_LRRC75B	cnv	LRRC75B	NO	0
1445	stv_ZNF699	stv	ZNF699	YES	9
1446	cnv_NR1I2	cnv	NR1I2	YES	32
1447	meth_TMEM161B	meth	TMEM161B	YES	4
1447	mrna_JPH4	mrna	JPH4	YES	16
1448	cnv_TAGLN3	cnv	TAGLN3	YES	5
1448	mrna_UGT2B7	mrna	UGT2B7	YES	16
1449	mrna_PIGS	mrna	PIGS	YES	9
1449	mrna_HUNK	mrna	HUNK	YES	13
1450	mrna_TBC1D24	mrna	TBC1D24	YES	9
1450	mrna_SBSPON	mrna	SBSPON	YES	7
1451	cnv_KDM4D	cnv	KDM4D	YES	19
1451	mrna_AIFM3	mrna	AIFM3	YES	12
1452	mirna_MIR29B	mirna	MIR29B	NO	0
1452	stv_KHSRP	stv	KHSRP	YES	28

1453	mrna_MZB1	mrna	MZB1	YES	12
1453	mrna_LRRC37B	mrna	LRRC37B	YES	3
1454	cnv_GAL3ST3	cnv	GAL3ST3	YES	16
1454	cnv_TMEM223	cnv	TMEM223	YES	4
1455	mrna_CPA4	mrna	CPA4	YES	12
1455	mrna_RNF165	mrna	RNF165	YES	20
1456	cnv_METTL20	cnv	METTL20	YES	3
1456	mrna_SLC35A5	mrna	SLC35A5	YES	8
1457	cnv_ALB	cnv	ALB	YES	40
1457	mirna_MIR223	mirna	MIR223	YES	5
1459	cnv_C1QA	cnv	C1QA	YES	15
1461	mrna_ZNF385D	mrna	ZNF385D	YES	7
1462	cnv_FOXN1	cnv	FOXN1	YES	34
1462	meth_DDX58	meth	DDX58	YES	53
1464	stv_SLC25A23	stv	SLC25A23	YES	22
1464	stv_KIAA1161	stv	KIAA1161	YES	11
1465	meth_HPCAL4	meth	HPCAL4	YES	10
1466	cnv_LINC00308	cnv	LINC00308	NO	0
1466	cnv_TXLNA	cnv	TXLNA	YES	10
1467	cnv_GAB1	cnv	GAB1	YES	24
1467	mrna_SFXN1	mrna	SFXN1	YES	13
1468	mrna_PHGDH	mrna	PHGDH	YES	27
1469	cnv_LOC105371558	cnv	LOC105371558	NO	0
1469	mirna_MIR4740	mirna	MIR4740	NO	0
1470	mrna_RRP7B	mrna	RRP7B	NO	0
1470	stv_RUSC2	stv	RUSC2	YES	7
1471	cnv_NAA50	cnv	NAA50	YES	14
1471	mrna_PPIG	mrna	PPIG	YES	13
1472	mrna_NAAA	mrna	NAAA	YES	11
1472	stv_TPSD1	stv	TPSD1	YES	6
1473	cnv_GDF15	cnv	GDF15	YES	19
1473	mrna_C6orf183	mrna	C6orf183	NO	0
1475	cnv_LOC100129203	cnv	LOC100129203	NO	0
1475	stv_SBNO2	stv	SBNO2	YES	18
1476	cnv_LOC101927973	cnv	LOC101927973	NO	0
1476	cnv_XIST	cnv	XIST	NO	0
1477	meth_RP11-762H8.5	meth	RP11-762H8.5	NO	0
1479	cnv_MKL1	cnv	MKL1	YES	27
1480	cnv_MMP11	cnv	MMP11	YES	19
1481	meth_KRI1	meth	KRI1	YES	4
1481	mirna_MIR361	mirna	MIR361	YES	2
1482	mirna_MIR320C	mirna	MIR320C	NO	0
1482	stv_TPM2	stv	TPM2	YES	16
1483	mrna_NUDCD3	mrna	NUDCD3	YES	8
1484	cnv_RBPJ	cnv	RBPJ	YES	85
1485	meth_UBE2S	meth	UBE2S	YES	24
1485	stv_SULF2	stv	SULF2	YES	33
1486	mrna_FER1L4	mrna	FER1L4	NO	0
1486	mrna_ORMDL1	mrna	ORMDL1	YES	9
1487	cnv_LOC101927668	cnv	LOC101927668	NO	0
1487	mrna_RP11-757G1.6	mrna	RP11-757G1.6	NO	0
1488	mrna_IFI6	mrna	IFI6	YES	11

1489	cnv_TOP2A	cnv	TOP2A	YES	50
1489	meth_MRI1	meth	MRI1	YES	14
1490	stv_TOX2	stv	TOX2	YES	9
1491	stv_GBA2	stv	GBA2	YES	22
1492	mrna_CDH19	mrna	CDH19	YES	7
1493	stv_APOF	stv	APOF	YES	11
1494	stv_OBSCN	stv	OBSCN	YES	35
1494	stv_RP11-241F15.7	stv	RP11-241F15.7	NO	0
1495	cnv_MARCH10	cnv	MARCH10	YES	5
1495	stv_PAK6	stv	PAK6	YES	27
1496	cnv_COA4	cnv	COA4	YES	3
1497	cnv_LOC102724190	cnv	LOC102724190	NO	0
1497	mrna_COX10	mrna	COX10	YES	24
1498	cnv_SLC35A5	cnv	SLC35A5	YES	8
1499	mrna_BLNK	mrna	BLNK	YES	15
1500	mrna_CRMP1	mrna	CRMP1	YES	17
1501	cnv_LOC105377777	cnv	LOC105377777	NO	0
1501	stv_VWCE	stv	VWCE	YES	4
1502	meth_MIMT1	meth	MIMT1	NO	0
1503	mrna_MEGF8	mrna	MEGF8	YES	23
1503	mrna_ALCAM	mrna	ALCAM	YES	27
1504	meth_NMRK1	meth	NMRK1	YES	13
1504	meth_TMEFF2	meth	TMEFF2	YES	8
1505	cnv_NLK	cnv	NLK	YES	33
1505	mrna_INTS10	mrna	INTS10	YES	6
1506	mrna_PCDHA10	mrna	PCDHA10	YES	10
1507	stv_ZNF606	stv	ZNF606	YES	8
1507	stv_SETD2	stv	SETD2	YES	35
1508	stv_ZNF696	stv	ZNF696	YES	7
1509	mrna_MCCC2	mrna	MCCC2	YES	15
1509	mrna_NUDT8	mrna	NUDT8	YES	3
1510	stv_STRBP	stv	STRBP	YES	13
1511	cnv_CD200R1	cnv	CD200R1	YES	10
1511	mrna_TMEM74B	mrna	TMEM74B	YES	2
1512	cnv_ZNF70	cnv	ZNF70	YES	6
1513	mrna_CACYBP	mrna	CACYBP	YES	22
1514	cnv_GRIP1	cnv	GRIP1	YES	24
1514	mrna_CANT1	mrna	CANT1	YES	25
1515	stv_FSIP1	stv	FSIP1	YES	1
1515	stv_CCDC159	stv	CCDC159	NO	0
1516	meth_PHF3	meth	PHF3	YES	7
1517	mrna_RP3-325F22.5	mrna	RP3-325F22.5	NO	0
1517	mrna_RP11-147L13.11	mrna	RP11-147L13.11	NO	0
1518	mrna_CCDC89	mrna	CCDC89	YES	3
1518	stv_HELZ	stv	HELZ	YES	9
1519	cnv_PTPRS	cnv	PTPRS	YES	43
1519	stv_MAZ	stv	MAZ	YES	15
1520	mrna_AXIN2	mrna	AXIN2	YES	49
1520	stv_CCDC92	stv	CCDC92	YES	7
1521	mirna_MIR1976	mirna	MIR1976	NO	0
1522	cnv_GATA2	cnv	GATA2	YES	68
1522	mrna_ZNF749	mrna	ZNF749	YES	7

1523	cnv_EMC7	cnv	EMC7	YES	6
1523	stv_TMCO1	stv	TMCO1	YES	14
1524	mirna_MIR3684	mirna	MIR3684	NO	0
1524	stv_SCARF1	stv	SCARF1	YES	15
1525	meth_SERBP1	meth	SERBP1	YES	13
1525	stv_CTD-2623N2.11	stv	CTD-2623N2.11	NO	0
1526	cnv_RFXANK	cnv	RFXANK	YES	14
1526	cnv_YTHDC1	cnv	YTHDC1	YES	13
1527	cnv_ZAR1L	cnv	ZAR1L	YES	2
1527	stv_ZSCAN31	stv	ZSCAN31	YES	7
1528	cnv_TAF8	cnv	TAF8	YES	16
1528	mrna_MFN1	mrna	MFN1	YES	17
1530	meth_MARCH8	meth	MARCH8	YES	16
1531	cnv_PPP1R12A	cnv	PPP1R12A	YES	29
1532	mrna_FTH1P20	mrna	FTH1P20	NO	0
1533	mrna_TBX2-AS1	mrna	TBX2-AS1	NO	0
1533	stv_ZNF683	stv	ZNF683	YES	16
1535	cnv_HOTTIP	cnv	HOTTIP	NO	0
1535	stv_YBX3	stv	YBX3	YES	35
1536	mrna_SPAG1	mrna	SPAG1	YES	7
1537	mrna_EPB41L5	mrna	EPB41L5	YES	43
1538	mrna_CIPC	mrna	CIPC	YES	9
1538	stv_FUT5	stv	FUT5	YES	15
1539	meth_KLC3	meth	KLC3	YES	12
1539	meth_SNX22	meth	SNX22	YES	7
1540	meth_PDXK	meth	PDXK	YES	26
1540	stv_OR1I1	stv	OR1I1	YES	13
1541	cnv_ANKRD20A11P	cnv	ANKRD20A11P	NO	0
1541	meth_XYLB	meth	XYLB	YES	17
1542	cnv_TEKT2	cnv	TEKT2	YES	14
1542	stv_CHTF18	stv	CHTF18	YES	14
1543	cnv_CPXCR1	cnv	CPXCR1	YES	1
1543	cnv_SART1	cnv	SART1	YES	21
1545	stv_TBC1D3P4	stv	TBC1D3P4	NO	0
1546	mrna_LITAF	mrna	LITAF	YES	40
1547	cnv_LINC00941	cnv	LINC00941	NO	0
1547	stv_RAB4B	stv	RAB4B	YES	16
1548	mrna_RWDD4P2	mrna	RWDD4P2	NO	0
1548	mrna_MAGEB17	mrna	MAGEB17	NO	0
1549	stv_SOGA1	stv	SOGA1	YES	7
1550	cnv_AMFR	cnv	AMFR	YES	44
1550	meth_NAT2	meth	NAT2	YES	12
1551	meth_FGF8	meth	FGF8	YES	92
1551	meth_TNNT1	meth	TNNT1	YES	11
1552	cnv_DCAF7	cnv	DCAF7	YES	12
1552	cnv_OR5A2	cnv	OR5A2	YES	12
1553	cnv_NATD1	cnv	NATD1	YES	1
1553	mrna_MOGAT2	mrna	MOGAT2	YES	14
1554	cnv_GNAT3	cnv	GNAT3	YES	30
1554	mrna_PLEKHB2	mrna	PLEKHB2	YES	7
1555	mrna_RNF4	mrna	RNF4	YES	33
1556	cnv_MIP	cnv	MIP	YES	21

1556	mrna_TMEM185A	mrna	TMEM185A	YES	5
1557	cnv_UNC119	cnv	UNC119	YES	24
1557	meth_VAPB	meth	VAPB	YES	26
1559	stv_KRTAP10-6	stv	KRTAP10-6	YES	4
1561	stv_KIR2DP1	stv	KIR2DP1	NO	0
1562	mrna_TNS4	mrna	TNS4	YES	9
1563	cnv_TJP2	cnv	TJP2	YES	25
1564	meth_RP11-212P7.3	meth	RP11-212P7.3	NO	0
1564	stv_TSPAN16	stv	TSPAN16	YES	4
1565	mrna_MKRN1	mrna	MKRN1	YES	10
1566	cnv_CCDC169-SOHLH2	cnv	CCDC169-SOHLH2	YES	1
1566	mirna_MIR548O	mirna	MIR548O	YES	1
1567	mrna_PPP1R3C	mrna	PPP1R3C	YES	10
1567	stv_SYNE1	stv	SYNE1	YES	30
1568	mrna_UBAP1L	mrna	UBAP1L	YES	3
1569	cnv_MYO1A	cnv	MYO1A	YES	21
1569	meth_PYHIN1	meth	PYHIN1	YES	4
1570	cnv_LOC100506606	cnv	LOC100506606	NO	0
1570	mrna_NUP93	mrna	NUP93	YES	31
1571	meth_ARMC3	meth	ARMC3	YES	3
1571	stv_PLA2G4F	stv	PLA2G4F	YES	29
1573	stv_AQP7	stv	AQP7	YES	22
1574	cnv_LOC100507530	cnv	LOC100507530	NO	0
1576	cnv_C1QC	cnv	C1QC	YES	15
1577	meth_SPAG5-AS1	meth	SPAG5-AS1	NO	0
1577	stv_JMJD8	stv	JMJD8	YES	1
1578	cnv_C2CD3	cnv	C2CD3	YES	26
1578	mrna_NADK2	mrna	NADK2	YES	12
1579	cnv_CPNE8	cnv	CPNE8	YES	3
1579	stv_WIPF2	stv	WIPF2	YES	6
1580	cnv_RCAN3AS	cnv	RCAN3AS	NO	0
1580	cnv_TIMM10	cnv	TIMM10	YES	19
1581	cnv_SEL1L3	cnv	SEL1L3	YES	2
1581	stv_GPR137B	stv	GPR137B	YES	5
1582	cnv_TBC1D1	cnv	TBC1D1	YES	12
1583	cnv_RPS13	cnv	RPS13	YES	26
1583	stv_CNTNAP3	stv	CNTNAP3	YES	6
1584	cnv_HPCA	cnv	HPCA	YES	31
1584	meth_TMC6	meth	TMC6	YES	16
1586	mrna_B4GAT1	mrna	B4GAT1	YES	16
1587	meth_FKBP9	meth	FKBP9	YES	10
1589	mrna_MT-ATP6	mrna	MT-ATP6	YES	19
1589	stv_FLG	stv	FLG	YES	18
1590	cnv_LOC100506985	cnv	LOC100506985	NO	0
1590	mrna_ITPR3	mrna	ITPR3	YES	54
1591	stv_ARHGEF5	stv	ARHGEF5	YES	29
1592	cnv_C5	cnv	C5	YES	31
1592	meth_CFAP52	meth	CFAP52	YES	3
1593	mrna_KTN1	mrna	KTN1	YES	15
1594	stv_ANKRD20A5P	stv	ANKRD20A5P	NO	0
1594	stv_CLPTM1L	stv	CLPTM1L	YES	3
1595	cnv_ASTN2-AS1	cnv	ASTN2-AS1	NO	0

1595	cnv_FABP3	cnv	FABP3	YES	28
1596	cnv_ELP4	cnv	ELP4	YES	17
1597	cnv_HTATSF1P2	cnv	HTATSF1P2	NO	0
1597	stv_APPL1	stv	APPL1	YES	21
1598	stv_WDR76	stv	WDR76	YES	4
1599	cnv_PTGS1	cnv	PTGS1	YES	29
1600	mrna_RSPH3	mrna	RSPH3	YES	4
1600	mrna_TMEM67	mrna	TMEM67	YES	22
1601	cnv_TESK2	cnv	TESK2	YES	22
1601	stv_RAB24	stv	RAB24	YES	15
1602	meth_PBRM1	meth	PBRM1	YES	13
1602	meth_RP11-97N19.2	meth	RP11-97N19.2	NO	0
1603	meth_ZNF703	meth	ZNF703	YES	22
1603	mirna_MIR374A	mirna	MIR374A	YES	1
1604	meth_GLB1L	meth	GLB1L	YES	9
1604	mrna_MAN1B1-AS1	mrna	MAN1B1-AS1	NO	0
1605	cnv_MMP2	cnv	MMP2	YES	35
1606	mrna_KRAS	mrna	KRAS	YES	51
1606	mrna_CKMT1A	mrna	CKMT1A	YES	13
1607	stv_DCAF6	stv	DCAF6	YES	10
1607	stv_AMOTL2	stv	AMOTL2	YES	10
1609	cnv_AGR3	cnv	AGR3	YES	7
1609	mirna_MIR4791	mirna	MIR4791	NO	0
1610	cnv_CFAP44	cnv	CFAP44	YES	2
1611	cnv_DHRS7B	cnv	DHRS7B	YES	8
1611	mrna_RALY-AS1	mrna	RALY-AS1	NO	0
1612	mirna_MIR19B	mirna	MIR19B	NO	0
1612	mrna_CWC22	mrna	CWC22	YES	13
1613	mrna_JOSD1	mrna	JOSD1	YES	11
1613	stv_RP11-426A6.5	stv	RP11-426A6.5	NO	0
1614	mrna_PLXNB1	mrna	PLXNB1	YES	30
1614	stv_BIRC6	stv	BIRC6	YES	31
1615	cnv_FCHSD2	cnv	FCHSD2	YES	5
1615	cnv_MRPS35	cnv	MRPS35	YES	10
1616	cnv_OSCP1	cnv	OSCP1	YES	5
1617	cnv_YARS2	cnv	YARS2	YES	20
1618	cnv_PPM1D	cnv	PPM1D	YES	17
1618	meth_ANKIB1	meth	ANKIB1	YES	12
1619	mrna_RP1-27K12.4	mrna	RP1-27K12.4	NO	0
1619	stv_SH3RF3	stv	SH3RF3	YES	2
1620	cnv_KSR1	cnv	KSR1	YES	23
1620	mrna_CTD-2626G11.2	mrna	CTD-2626G11.2	NO	0
1621	mrna_EXOSC9	mrna	EXOSC9	YES	32
1622	cnv_PDRG1	cnv	PDRG1	YES	4
1623	meth_FBXO32	meth	FBXO32	YES	13
1624	stv_ZNF83	stv	ZNF83	YES	9
1625	meth_HERC1	meth	HERC1	YES	15
1625	meth_LCLAT1	meth	LCLAT1	YES	17
1626	cnv_ATP6V1G1	cnv	ATP6V1G1	YES	23
1626	meth_NRP2	meth	NRP2	YES	44
1627	cnv_KIF3B	cnv	KIF3B	YES	37
1628	meth_RP11-607P23.1	meth	RP11-607P23.1	NO	0

1628	stv_CCP110	stv	CCP110	YES	21
1629	mrna_PDCD4	mrna	PDCD4	YES	23
1629	stv_COQ7	stv	COQ7	YES	17
1630	cnv_DAPK3	cnv	DAPK3	YES	48
1630	stv_BAG1	stv	BAG1	YES	14
1631	cnv_CEP128	cnv	CEP128	YES	4
1631	cnv_PDCD6IP	cnv	PDCD6IP	YES	45
1632	mrna_PCDHGA2	mrna	PCDHGA2	YES	9
1632	stv_H1FX-AS1	stv	H1FX-AS1	NO	0
1633	meth_ZKSCAN5	meth	ZKSCAN5	YES	10
1633	mrna_ID3	mrna	ID3	YES	33
1634	meth_CATSPER1	meth	CATSPER1	YES	30
1635	cnv_ARHGEF9-IT1	cnv	ARHGEF9-IT1	NO	0
1636	stv_TNFSF12	stv	TNFSF12	YES	24
1637	cnv_ZNF860	cnv	ZNF860	YES	8
1637	stv_RHOD	stv	RHOD	YES	22
1638	cnv_DTX4	cnv	DTX4	YES	10
1638	stv_ADGRF5P2	stv	ADGRF5P2	NO	0
1639	cnv_GNAO1	cnv	GNAO1	YES	41
1640	cnv_SAA3P	cnv	SAA3P	NO	0
1640	stv_TADA2A	stv	TADA2A	YES	25
1641	mrna_ATAD2	mrna	ATAD2	YES	16
1642	cnv_MIR223	cnv	MIR223	YES	5
1643	cnv_NUP107	cnv	NUP107	YES	37
1643	mrna_RP13-188A5.1	mrna	RP13-188A5.1	NO	0
1644	mrna_VPS53	mrna	VPS53	YES	17
1644	stv_PARP2	stv	PARP2	YES	18
1645	mirna_MIR1181	mirna	MIR1181	NO	0
1645	stv_HYOU1	stv	HYOU1	YES	21
1646	meth_BACH1	meth	BACH1	YES	23
1647	mrna_C6orf52	mrna	C6orf52	NO	0
1647	stv_NCKIPSD	stv	NCKIPSD	YES	12
1648	mrna_PLBD1	mrna	PLBD1	YES	12
1648	mrna_PNLDC1	mrna	PNLDC1	YES	15
1649	cnv_ZNF416	cnv	ZNF416	YES	7
1649	mrna_GNA14	mrna	GNA14	YES	17
1650	cnv_KLKB1	cnv	KLKB1	YES	27
1650	cnv_MOGAT2	cnv	MOGAT2	YES	14
1651	mrna_FGD3	mrna	FGD3	YES	21
1651	mrna_FRG1B	mrna	FRG1B	NO	0
1654	stv_IGF2BP1	stv	IGF2BP1	YES	33
1655	cnv_RAB8A	cnv	RAB8A	YES	59
1656	cnv_IKBKAP	cnv	IKBKAP	YES	17
1656	meth_WNT7B	meth	WNT7B	YES	62
1657	cnv_FAM46D	cnv	FAM46D	YES	1
1657	stv_ZNF710	stv	ZNF710	YES	6
1659	meth_PNRC2	meth	PNRC2	YES	11
1659	mrna_PRKCH	mrna	PRKCH	YES	34
1660	stv_PLK1	stv	PLK1	YES	79
1660	stv_YEATS2	stv	YEATS2	YES	9
1661	cnv_SLC34A2	cnv	SLC34A2	YES	26
1662	cnv_ERI1	cnv	ERI1	YES	22

1662	mrna_FUBP3	mrna	FUBP3	YES	15
1663	meth_VAV2	meth	VAV2	YES	30
1663	mrna_GLYATL1	mrna	GLYATL1	YES	5
1664	mrna_DNMBP	mrna	DNMBP	YES	13
1664	mrna_ARHGEF26	mrna	ARHGEF26	YES	11
1665	cnv_PTK2B	cnv	PTK2B	YES	146
1666	cnv_SUSD5	cnv	SUSD5	YES	5
1666	mrna_NAV3	mrna	NAV3	YES	7
1667	cnv_ZBTB40	cnv	ZBTB40	YES	10
1667	mrna_MT-TP	mrna	MT-TP	NO	0
1668	cnv_MTMR4	cnv	MTMR4	YES	21
1668	meth_C1orf56	meth	C1orf56	YES	1
1669	mirna_MIR151B	mirna	MIR151B	YES	1
1669	mrna_LRRC4C	mrna	LRRC4C	YES	14
1670	stv_POLR3D	stv	POLR3D	YES	17
1672	stv_SNW1	stv	SNW1	YES	49
1673	cnv_OR7E14P	cnv	OR7E14P	NO	0
1673	mrna_GPR162	mrna	GPR162	YES	7
1674	meth_TNFRSF4	meth	TNFRSF4	YES	22
1674	stv_C10orf126	stv	C10orf126	NO	0
1675	cnv_CHRDL2	cnv	CHRDL2	YES	7
1675	mrna_SDCBP2	mrna	SDCBP2	YES	11
1676	mrna_CXCL17	mrna	CXCL17	YES	11
1676	stv_FBXO18	stv	FBXO18	YES	30
1677	meth_SMIM12	meth	SMIM12	YES	2
1678	cnv_FZR1	cnv	FZR1	YES	27
1678	mrna_KDM1B	mrna	KDM1B	YES	24
1680	meth_LCN6	meth	LCN6	YES	2
1680	mrna_AGPAT5	mrna	AGPAT5	YES	19
1681	mrna_FAR2	mrna	FAR2	YES	21
1682	cnv_ZNF549	cnv	ZNF549	YES	7
1682	mrna_POC1A	mrna	POC1A	YES	15
1684	cnv_SNRNP40	cnv	SNRNP40	YES	18
1684	stv_DNAH8	stv	DNAH8	YES	22
1685	stv_ZNF835	stv	ZNF835	YES	7
1687	cnv_C9orf91	cnv	C9orf91	YES	1
1687	cnv_YIF1A	cnv	YIF1A	YES	15
1688	mrna_ANKFN1	mrna	ANKFN1	YES	1
1689	mrna_TM9SF2	mrna	TM9SF2	YES	7
1690	stv_IFNE	stv	IFNE	YES	18
1691	mrna_RPS6KB1	mrna	RPS6KB1	YES	77
1692	cnv_DGKE	cnv	DGKE	YES	20
1692	mrna_HPGD	mrna	HPGD	YES	32
1693	mrna_MPP5	mrna	MPP5	YES	21
1694	meth_GRIA2	meth	GRIA2	YES	31
1695	cnv_FNDC5	cnv	FNDC5	YES	12
1696	cnv_GJA4	cnv	GJA4	YES	16
1696	stv_SPDYE19P	stv	SPDYE19P	NO	0
1697	mrna_ZNF606	mrna	ZNF606	YES	8
1697	stv_CDC123	stv	CDC123	YES	8
1698	meth_ZBTB22	meth	ZBTB22	YES	7
1699	mirna_MIR184	mirna	MIR184	NO	0

1700	cnv_EXOSC8	cnv	EXOSC8	YES	27
1700	stv_C17orf97	stv	C17orf97	YES	1
1701	stv_ZFYVE9	stv	ZFYVE9	YES	18
1701	stv_NR1H2	stv	NR1H2	YES	49
1702	cnv_SMAD1-AS2	cnv	SMAD1-AS2	NO	0
1703	cnv_MAU2	cnv	MAU2	YES	13
1703	mrna_CIRH1A	mrna	CIRH1A	YES	7
1704	cnv_SLC4A8	cnv	SLC4A8	YES	22
1704	mrna_TTPAL	mrna	TTPAL	YES	4
1705	cnv_CXCL1	cnv	CXCL1	YES	27
1705	mrna_IPO9	mrna	IPO9	YES	13
1706	mrna_IGKV5-2	mrna	IGKV5-2	YES	17
1707	cnv_BVES-AS1	cnv	BVES-AS1	NO	0
1707	meth_CAMTA2	meth	CAMTA2	YES	14
1708	stv_CCDC171	stv	CCDC171	YES	4
1709	mrna_ZNF496	mrna	ZNF496	YES	14
1710	meth_DLG5	meth	DLG5	YES	38
1710	mirna_MIR4726	mirna	MIR4726	NO	0
1711	stv_CLUAP1	stv	CLUAP1	YES	12
1712	cnv_ANKMY2	cnv	ANKMY2	YES	6
1712	mrna_ATF2	mrna	ATF2	YES	53
1715	stv_TRPM5	stv	TRPM5	YES	21
1716	cnv_DLGAP2-AS1	cnv	DLGAP2-AS1	NO	0
1716	cnv_LOC728040	cnv	LOC728040	NO	0
1717	cnv_SLC22A10	cnv	SLC22A10	YES	13
1717	mrna_IQGAP2	mrna	IQGAP2	YES	25
1718	mrna_UFL1	mrna	UFL1	YES	24
1719	mirna_MIR520H	mirna	MIR520H	NO	0
1719	stv_SLC39A5	stv	SLC39A5	YES	22
1720	cnv_SYT12	cnv	SYT12	YES	17
1721	mrna_GALNT16	mrna	GALNT16	YES	11
1722	cnv_LOC101929217	cnv	LOC101929217	NO	0
1723	meth_FAM173A	meth	FAM173A	YES	2
1723	meth_GRB14	meth	GRB14	YES	15
1724	cnv_PDIA5	cnv	PDIA5	YES	15
1724	meth_HSD17B14	meth	HSD17B14	YES	12
1726	mrna_ABCB10	mrna	ABCB10	YES	14
1726	stv_RP11-207C16.4	stv	RP11-207C16.4	NO	0
1727	mrna_BPNT1	mrna	BPNT1	YES	10
1727	mrna_MORN4	mrna	MORN4	YES	5
1728	mrna_POM121C	mrna	POM121C	YES	6
1729	stv_LLfos-48D6.2	stv	LLfos-48D6.2	NO	0
1730	mrna_AURKC	mrna	AURKC	YES	36
1731	cnv_B4GALT4	cnv	B4GALT4	YES	16
1731	stv_NPHS1	stv	NPHS1	YES	25
1732	meth_CARD14	meth	CARD14	YES	13
1732	mrna_ZSCAN18	mrna	ZSCAN18	YES	11
1733	cnv_EVA1C	cnv	EVA1C	YES	6
1734	meth_PCTP	meth	PCTP	YES	10
1734	mrna_MYO1B	mrna	MYO1B	YES	28
1735	cnv_HCK	cnv	HCK	YES	61
1735	mrna_THPO	mrna	THPO	YES	14

1736	cnv_GLYATL2	cnv	GLYATL2	YES	5
1736	mrna_NUS1	mrna	NUS1	YES	19
1737	meth_FAM118B	meth	FAM118B	YES	4
1738	mrna_RAB18	mrna	RAB18	YES	25
1738	mrna_RPAP1	mrna	RPAP1	YES	7
1739	cnv_KRT8	cnv	KRT8	YES	30
1739	cnv_LOC102467079	cnv	LOC102467079	NO	0
1740	meth_MEIOB	meth	MEIOB	YES	19
1740	mrna_AGPAT4	mrna	AGPAT4	YES	13
1741	stv_TNNT1	stv	TNNT1	YES	11
1742	cnv_LOC400706	cnv	LOC400706	NO	0
1743	stv_NDUFS3	stv	NDUFS3	YES	23
1744	stv_FUT6	stv	FUT6	YES	15
1745	stv_WDR18	stv	WDR18	YES	6
1746	cnv_RUNX3	cnv	RUNX3	YES	28
1746	cnv_SLC2A11	cnv	SLC2A11	YES	14
1747	stv_RMDN3	stv	RMDN3	YES	15
1749	mrna_KCNC1	mrna	KCNC1	YES	41
1750	mrna_CDH8	mrna	CDH8	YES	14
1750	mrna_CTD-2587H24.14	mrna	CTD-2587H24.14	NO	0
1751	cnv_AMN1	cnv	AMN1	NO	0
1752	mrna_RP11-7K24.3	mrna	RP11-7K24.3	NO	0
1752	stv_IFNB1	stv	IFNB1	YES	37
1753	cnv_TMEM98	cnv	TMEM98	YES	3
1753	stv_ADCK5	stv	ADCK5	YES	8
1754	cnv_PLXDC1	cnv	PLXDC1	YES	15
1755	cnv_PHKG1	cnv	PHKG1	YES	21
1755	mrna_SLC31A1	mrna	SLC31A1	YES	19
1756	meth_LRRFIP1	meth	LRRFIP1	YES	21
1758	cnv_HOXA10	cnv	HOXA10	YES	23
1759	cnv_POU1F1	cnv	POU1F1	YES	33
1759	mrna_MARCH7	mrna	MARCH7	YES	6
1760	meth_PER1	meth	PER1	YES	38
1760	stv_GPR179	stv	GPR179	YES	11
1762	cnv_ARSG	cnv	ARSG	YES	15
1763	mirna_MIR3158	mirna	MIR3158	NO	0
1764	mrna_MT-CO2	mrna	MT-CO2	YES	20
1765	cnv_USP22	cnv	USP22	YES	29
1765	stv_IGLV2-23	stv	IGLV2-23	YES	17
1767	mrna_NXPH1	mrna	NXPH1	YES	2
1768	mrna_SRP72	mrna	SRP72	YES	16
1769	mrna_CH17-189H20.1	mrna	CH17-189H20.1	NO	0
1770	cnv_FAM83D	cnv	FAM83D	YES	20
1770	stv_GADD45B	stv	GADD45B	YES	14
1771	mrna_GPR107	mrna	GPR107	YES	8
1771	mrna_ZNF542P	mrna	ZNF542P	NO	0
1772	cnv_BMP6	cnv	BMP6	YES	52
1773	cnv_TPM4	cnv	TPM4	YES	27
1773	meth_ARNTL	meth	ARNTL	YES	52
1774	mrna_RP11-396K3.1	mrna	RP11-396K3.1	NO	0
1774	stv_FAM184B	stv	FAM184B	NO	0
1775	cnv_NKIRAS1	cnv	NKIRAS1	YES	11

1776	meth_AC073610.5	meth	AC073610.5	NO	0
1776	stv_TRBV5-3	stv	TRBV5-3	YES	1
1777	cnv_HOXA5	cnv	HOXA5	YES	44
1777	mrna_TMEM176A	mrna	TMEM176A	YES	3
1778	meth_NCL	meth	NCL	YES	24
1779	mrna_ZMYND12	mrna	ZMYND12	YES	2
1781	mrna_SUB1	mrna	SUB1	YES	23
1782	cnv_ADGRA3	cnv	ADGRA3	YES	9
1783	meth_CLIC3	meth	CLIC3	YES	16
1784	mrna_ZW10	mrna	ZW10	YES	37
1784	stv_WNK4	stv	WNK4	YES	26
1785	stv_DAAM2	stv	DAAM2	YES	6
1786	cnv_EEF2	cnv	EEF2	YES	47
1786	cnv_RHBDL3	cnv	RHBDL3	YES	9
1787	mrna_RP11-266K4.9	mrna	RP11-266K4.9	NO	0
1788	cnv_MYLK4	cnv	MYLK4	YES	14
1788	mrna_WNK4	mrna	WNK4	YES	26
1789	mrna_POFUT2	mrna	POFUT2	YES	16
1790	cnv_CWC25	cnv	CWC25	YES	3
1790	stv_KLK15	stv	KLK15	YES	7
1791	meth_CEBPG	meth	CEBPG	YES	29
1791	stv_PVRIG	stv	PVRIG	YES	5
1792	cnv_P3H4	cnv	P3H4	YES	6
1792	mrna_WDR63	mrna	WDR63	YES	5
1793	cnv_AHNAK	cnv	AHNAK	YES	23
1794	mrna_TRAF3IP2	mrna	TRAF3IP2	YES	11
1794	stv_TBX4	stv	TBX4	YES	13
1795	stv_POLM	stv	POLM	YES	16
1796	cnv_DHX15	cnv	DHX15	YES	22
1796	cnv_MTNR1A	cnv	MTNR1A	YES	17
1797	meth_CD83	meth	CD83	YES	15
1797	mrna_ZNF649	mrna	ZNF649	YES	13
1798	cnv_MIR99AHG	cnv	MIR99AHG	NO	0
1798	mrna_SEPT8	mrna	SEPT8	YES	5
1800	mrna_PDCL	mrna	PDCL	YES	14
1804	mirna_MIR5090	mirna	MIR5090	NO	0
1805	cnv_TMEM211	cnv	TMEM211	YES	2
1805	mrna_AC018816.3	mrna	AC018816.3	NO	0
1806	cnv_RCAN1	cnv	RCAN1	YES	19
1806	stv_CANT1	stv	CANT1	YES	25
1807	stv_DNAH14	stv	DNAH14	YES	16
1809	stv_CFHR3	stv	CFHR3	YES	4
1810	cnv_HHIP-AS1	cnv	HHIP-AS1	NO	0
1810	meth_MIR658	meth	MIR658	NO	0
1811	cnv_LINC00672	cnv	LINC00672	YES	2
1812	mrna_PAX6	mrna	PAX6	YES	101
1812	mrna_RBP5	mrna	RBP5	YES	9
1813	mrna_API5	mrna	API5	YES	11
1813	stv_SEPSECS-AS1	stv	SEPSECS-AS1	NO	0
1814	cnv_LOC285768	cnv	LOC285768	NO	0
1814	mrna_PRDM11	mrna	PRDM11	YES	7
1815	mrna_FAM133B	mrna	FAM133B	YES	1

1815	stv_ZNF207	stv	ZNF207	YES	33
1816	meth_HOXC4	meth	HOXC4	YES	17
1816	stv_RP11-432N13.2	stv	RP11-432N13.2	NO	0
1817	stv_PEX6	stv	PEX6	YES	19
1818	mrna_TRIM37	mrna	TRIM37	YES	28
1818	mrna_CHST6	mrna	CHST6	YES	12
1819	stv_ADAMTS2	stv	ADAMTS2	YES	16
1820	cnv_GAS2	cnv	GAS2	YES	10
1820	mrna_SRPK3	mrna	SRPK3	YES	20
1821	mrna_GTF2E2	mrna	GTF2E2	YES	15
1822	cnv_METTL15	cnv	METTL15	YES	7
1823	cnv_TMPRSS15	cnv	TMPRSS15	YES	11
1823	meth_DCLRE1A	meth	DCLRE1A	YES	14
1824	cnv_LOC100506403	cnv	LOC100506403	NO	0
1825	mrna_CYP2B7P	mrna	CYP2B7P	NO	0
1826	cnv_C4orf51	cnv	C4orf51	NO	0
1826	mrna_NSUN2	mrna	NSUN2	YES	21
1828	mrna_HELZ	mrna	HELZ	YES	9
1829	meth_PRNP	meth	PRNP	YES	86
1829	mrna_DKC1	mrna	DKC1	YES	38
1830	stv_RNF123	stv	RNF123	YES	6
1831	cnv_NDUFAF1	cnv	NDUFAF1	YES	9
1831	meth_AGT	meth	AGT	YES	111
1832	cnv_OR5H6	cnv	OR5H6	YES	12
1832	cnv_PPP1R16B	cnv	PPP1R16B	YES	18
1833	cnv_ACOT13	cnv	ACOT13	YES	11
1833	stv_RP11-73M18.2	stv	RP11-73M18.2	NO	0
1834	meth_ERP29	meth	ERP29	YES	20
1835	mrna_KNDC1	mrna	KNDC1	YES	18
1836	mrna_AK9	mrna	AK9	YES	29
1837	meth_SEPT1	meth	SEPT1	YES	8
1838	mrna_ZFYVE28	mrna	ZFYVE28	YES	10
1838	stv_LA16c-361A3.3	stv	LA16c-361A3.3	NO	0
1839	mrna_LTK	mrna	LTK	YES	24
1839	stv_DNAH6	stv	DNAH6	YES	19
1841	mrna_C11orf57	mrna	C11orf57	YES	1
1841	stv_CDK12	stv	CDK12	YES	33
1842	cnv_SMIM18	cnv	SMIM18	YES	2
1842	stv_FAM153C	stv	FAM153C	YES	1
1844	cnv_ABCC13	cnv	ABCC13	NO	0
1844	mrna_FADS1	mrna	FADS1	YES	35
1845	mrna_DIRAS3	mrna	DIRAS3	YES	12
1845	mrna_CTD-2008P7.9	mrna	CTD-2008P7.9	NO	0
1847	cnv_LOC390877	cnv	LOC390877	NO	0
1847	mrna_IGKV2D-40	mrna	IGKV2D-40	YES	19
1848	stv_GAS5	stv	GAS5	NO	0
1848	stv_HYAL3	stv	HYAL3	YES	19
1849	mrna_KHDRBS1	mrna	KHDRBS1	YES	34
1849	stv_NR1H3	stv	NR1H3	YES	58
1850	cnv_LOC105376337	cnv	LOC105376337	NO	0
1850	stv_KLF3-AS1	stv	KLF3-AS1	NO	0
1852	meth_ZNF57	meth	ZNF57	YES	7

1853	mrna_HBS1L	mrna	HBS1L	YES	14
1853	mrna_E2F5	mrna	E2F5	YES	19
1854	meth_CTD-2323K18.1	meth	CTD-2323K18.1	NO	0
1855	mirna_MIR6806	mirna	MIR6806	NO	0
1855	mrna_PDS5B	mrna	PDS5B	YES	17
1857	cnv_E2F8	cnv	E2F8	YES	29
1857	mrna_CD320	mrna	CD320	YES	18
1858	stv_ACAD10	stv	ACAD10	YES	11
1860	cnv_KIAA1683	cnv	KIAA1683	YES	3
1861	meth_TLR4	meth	TLR4	YES	105
1861	stv_MORF4L1	stv	MORF4L1	YES	23
1862	mrna_ZNF671	mrna	ZNF671	YES	7
1863	mrna_MOV10	mrna	MOV10	YES	19
1864	mrna_AP1AR	mrna	AP1AR	YES	16
1865	cnv_LPAR1	cnv	LPAR1	YES	50
1865	mrna_C8orf88	mrna	C8orf88	YES	3
1866	cnv_PRG3	cnv	PRG3	YES	13
1866	mrna_PITPNA	mrna	PITPNA	YES	17
1867	cnv_GMNN	cnv	GMNN	YES	19
1867	mrna_C9orf152	mrna	C9orf152	NO	0
1868	mrna_TOM1L2	mrna	TOM1L2	YES	10
1868	mrna_PSPHP1	mrna	PSPHP1	NO	0
1869	mrna_SYT6	mrna	SYT6	YES	25
1869	mrna_NOMO2	mrna	NOMO2	YES	7
1870	meth_CTD-2523D13.2	meth	CTD-2523D13.2	NO	0
1871	mrna_SLC1A4	mrna	SLC1A4	YES	37
1872	stv_ABCA4	stv	ABCA4	YES	24
1873	cnv_HIST1H2BE	cnv	HIST1H2BE	YES	17
1874	cnv_WRB	cnv	WRB	YES	6
1874	mrna_GNA13	mrna	GNA13	YES	42
1875	cnv_FKBP15	cnv	FKBP15	YES	16
1876	mrna_RP11-298I3.4	mrna	RP11-298I3.4	NO	0
1876	stv_SLC25A39	stv	SLC25A39	YES	9
1877	meth_SH3GL1	meth	SH3GL1	YES	18
1877	mrna_CCDC163P	mrna	CCDC163P	NO	0
1878	cnv_LMAN2L	cnv	LMAN2L	YES	13
1879	meth_SENP6	meth	SENP6	YES	14
1879	stv_GUSBP1	stv	GUSBP1	NO	0
1880	stv_COG5	stv	COG5	YES	14
1881	cnv_TINAGL1	cnv	TINAGL1	YES	16
1881	meth_EDDM3B	meth	EDDM3B	YES	3
1882	meth_AASDH	meth	AASDH	YES	10
1882	mrna_WDR82	mrna	WDR82	YES	13
1883	cnv_SERPING1	cnv	SERPING1	YES	24
1883	mrna_LINC01057	mrna	LINC01057	NO	0
1884	stv_INO80E	stv	INO80E	YES	12
1885	cnv_DGAT2	cnv	DGAT2	YES	36
1885	stv_AXIN1	stv	AXIN1	YES	87
1886	meth_TNFAIP6	meth	TNFAIP6	YES	14
1886	mrna_RP11-88E10.4	mrna	RP11-88E10.4	NO	0
1887	mirna_MIR320B	mirna	MIR320B	NO	0
1887	stv_SLC39A3	stv	SLC39A3	YES	16

1888	cnv_GUSBP5	cnv	GUSBP5	NO	0
1890	mrna_RP11-15A1.8	mrna	RP11-15A1.8	NO	0
1890	stv_TACC2	stv	TACC2	YES	13
1891	cnv_CCDC110	cnv	CCDC110	YES	6
1891	meth_TXNIP	meth	TXNIP	YES	28
1892	cnv_DAB2IP	cnv	DAB2IP	YES	114
1892	mrna_CLCNKA	mrna	CLCNKA	YES	19
1893	mrna_CORO6	mrna	CORO6	YES	4
1893	stv_E2F2	stv	E2F2	YES	21
1894	mrna_CCDC117	mrna	CCDC117	YES	1
1895	cnv_GLA	cnv	GLA	YES	27
1895	cnv_RHOD	cnv	RHOD	YES	22
1896	mirna_MIR31	mirna	MIR31	YES	6
1896	mrna_TCEAL8	mrna	TCEAL8	YES	5
1897	stv_PEAR1	stv	PEAR1	YES	6
1897	stv_RICTOR	stv	RICTOR	YES	31
1898	mirna_MIR1323	mirna	MIR1323	NO	0
1899	cnv_CSNK1A1L	cnv	CSNK1A1L	YES	15
1899	stv_ANKRD55	stv	ANKRD55	YES	1
1900	stv_DNAJC5G	stv	DNAJC5G	YES	2
1901	meth_UBE2U	meth	UBE2U	YES	14
1901	stv_SCRN1	stv	SCRN1	YES	8
1902	mrna_TOE1	mrna	TOE1	YES	15
1903	cnv_PDE2A	cnv	PDE2A	YES	49
1903	mrna_TMEM123	mrna	TMEM123	YES	7
1904	cnv_MRPS15	cnv	MRPS15	YES	15
1904	stv_PRSS57	stv	PRSS57	YES	9
1905	cnv_IL6	cnv	IL6	YES	132
1905	mrna_CNOT2	mrna	CNOT2	YES	28
1906	stv_SEPW1	stv	SEPW1	YES	4
1908	stv_DYRK3	stv	DYRK3	YES	25
1909	stv_SIT1	stv	SIT1	YES	13
1910	cnv_CMTM6	cnv	CMTM6	YES	10
1910	mrna_RWDD4	mrna	RWDD4	YES	1
1911	cnv_PGRMC2	cnv	PGRMC2	YES	9
1911	mirna_MIR548B	mirna	MIR548B	NO	0
1912	cnv_LOC100130075	cnv	LOC100130075	NO	0
1913	meth_RAB3B	meth	RAB3B	YES	23
1913	stv_RABEP1	stv	RABEP1	YES	22
1914	cnv_P4HA3	cnv	P4HA3	YES	13
1914	stv_AC005154.6	stv	AC005154.6	NO	0
1915	meth_PARL	meth	PARL	YES	18
1915	stv_LINC01194	stv	LINC01194	NO	0
1916	mrna_ZNF253	mrna	ZNF253	YES	9
1916	stv_MAST3	stv	MAST3	YES	14
1918	mirna_MIR3605	mirna	MIR3605	YES	1
1918	stv_TMEM215	stv	TMEM215	YES	2
1920	cnv_CDC26	cnv	CDC26	YES	16
1920	mrna_RP11-253E3.3	mrna	RP11-253E3.3	NO	0
1921	meth_FAR2	meth	FAR2	YES	21
1921	stv_TRBV20OR9-2	stv	TRBV20OR9-2	YES	1
1922	cnv_PTPRT	cnv	PTPRT	YES	23

1922	cnv_USP38	cnv	USP38	YES	8
1923	cnv_RPL14	cnv	RPL14	YES	23
1923	mrna_ZNF143	mrna	ZNF143	YES	16
1924	meth_NOG	meth	NOG	YES	79
1925	mrna_RP11-536I6.2	mrna	RP11-536I6.2	NO	0
1926	meth_CRHR1	meth	CRHR1	YES	60
1927	cnv_LOC105375057	cnv	LOC105375057	NO	0
1927	mrna_RSBN1L	mrna	RSBN1L	YES	1
1928	meth_KIAA0020	meth	KIAA0020	YES	4
1928	mrna_PTMAP2	mrna	PTMAP2	NO	0
1929	meth_ADAMTS10	meth	ADAMTS10	YES	14
1929	mrna_CLDN8	mrna	CLDN8	YES	12
1930	cnv_IGFBP4	cnv	IGFBP4	YES	23
1930	meth_DFNB31	meth	DFNB31	YES	12
1931	cnv_GORASP1	cnv	GORASP1	YES	13
1931	cnv_JAZF1	cnv	JAZF1	YES	11
1932	cnv_SOD3	cnv	SOD3	YES	23
1933	cnv_HMGB4	cnv	HMGB4	YES	4
1933	stv_RAB31	stv	RAB31	YES	24
1934	cnv_C3orf38	cnv	C3orf38	YES	4
1935	cnv_NBPF7	cnv	NBPF7	NO	0
1935	mrna_RPRD1B	mrna	RPRD1B	YES	14
1936	cnv_AGPAT5	cnv	AGPAT5	YES	19
1936	cnv_FOXQ1	cnv	FOXQ1	YES	15
1937	cnv_KIAA0368	cnv	KIAA0368	YES	21
1937	mrna_TRIM34	mrna	TRIM34	YES	10
1938	cnv_FOLR2	cnv	FOLR2	YES	20
1939	stv_CRACR2B	stv	CRACR2B	YES	6
1939	stv_PTCD1	stv	PTCD1	YES	6
1940	stv_NMRK2	stv	NMRK2	YES	18
1941	cnv_TREM1	cnv	TREM1	YES	19
1942	cnv_ACSL1	cnv	ACSL1	YES	37
1943	cnv_LINC01563	cnv	LINC01563	NO	0
1943	cnv_MYL9	cnv	MYL9	YES	10
1944	mrna_KLHDC10	mrna	KLHDC10	YES	4
1946	cnv_ZBTB20-AS3	cnv	ZBTB20-AS3	NO	0
1946	mrna_B4GALNT3	mrna	B4GALNT3	YES	8
1947	cnv_KHDRBS1	cnv	KHDRBS1	YES	34
1947	meth_RP11-519G16.2	meth	RP11-519G16.2	NO	0
1948	meth_SLC25A20	meth	SLC25A20	YES	14
1948	mrna_PCDHGB5	mrna	PCDHGB5	YES	12
1949	cnv_SEMA4C	cnv	SEMA4C	YES	21
1949	cnv_ZNF618	cnv	ZNF618	YES	6
1950	mrna_RP11-279F6.2	mrna	RP11-279F6.2	NO	0
1951	mrna_IFNAR1	mrna	IFNAR1	YES	28
1951	mrna_RFWD3	mrna	RFWD3	YES	21
1952	cnv_CNTRL	cnv	CNTRL	YES	16
1952	mrna_FASTKD3	mrna	FASTKD3	YES	7
1953	cnv_CSMD1	cnv	CSMD1	YES	4
1953	mrna_VMP1	mrna	VMP1	YES	19
1954	cnv_P2RY2	cnv	P2RY2	YES	15
1954	meth_TESK2	meth	TESK2	YES	22

1956	cnv_ISPD-AS1	cnv	ISPD-AS1	NO	0
1957	mrna_MICA	mrna	MICA	YES	24
1959	meth_PTP4A3	meth	PTP4A3	YES	24
1960	mrna_RP11-64B16.2	mrna	RP11-64B16.2	NO	0
1961	stv_HOXA6	stv	HOXA6	YES	10
1963	cnv_CCDC91	cnv	CCDC91	YES	10
1963	stv_CD300LB	stv	CD300LB	YES	6
1964	cnv_SPCS2	cnv	SPCS2	YES	12
1964	mrna_AC098820.3	mrna	AC098820.3	NO	0
1965	meth_CIRBP	meth	CIRBP	YES	17
1965	mirna_MIR106A	mirna	MIR106A	YES	3
1966	cnv_BDNF-AS	cnv	BDNF-AS	NO	0
1966	cnv_PAWR	cnv	PAWR	YES	26
1967	mrna_PTPN12	mrna	PTPN12	YES	22
1969	cnv_HIST1H3D	cnv	HIST1H3D	YES	32
1969	mrna_GTPBP10	mrna	GTPBP10	YES	10
1970	cnv_SIDT1	cnv	SIDT1	YES	4
1970	mrna_RABL3	mrna	RABL3	YES	6
1971	mrna_AMZ2	mrna	AMZ2	YES	7
1972	cnv_SLC43A1	cnv	SLC43A1	YES	14
1973	cnv_STK40	cnv	STK40	YES	22
1973	meth_S1PR5	meth	S1PR5	YES	10
1974	meth_APOC3	meth	APOC3	YES	49
1975	stv_AC079305.11	stv	AC079305.11	NO	0
1976	cnv_CHRM1	cnv	CHRM1	YES	34
1977	cnv_MAPK1	cnv	MAPK1	YES	125
1977	meth_SLC33A1	meth	SLC33A1	YES	14
1979	meth_PFKL	meth	PFKL	YES	34
1980	cnv_TM6SF2	cnv	TM6SF2	YES	9
1980	meth_KCNG4	meth	KCNG4	YES	17
1981	meth_MT1G	meth	MT1G	YES	13
1981	stv_KBTBD6	stv	KBTBD6	YES	9
1982	cnv_COL16A1	cnv	COL16A1	YES	15
1983	cnv_BRIP1	cnv	BRIP1	YES	44
1984	cnv_ZNF134	cnv	ZNF134	YES	7
1984	stv_ELMSAN1	stv	ELMSAN1	YES	12
1985	cnv_MT1L	cnv	MT1L	NO	0
1986	cnv_TBX15	cnv	TBX15	YES	16
1987	cnv_AKNA	cnv	AKNA	YES	14
1987	cnv_SPAG17	cnv	SPAG17	YES	12
1988	cnv_PNMT	cnv	PNMT	YES	7
1989	mrna_C10orf2	mrna	C10orf2	YES	14
1990	meth_LINC00637	meth	LINC00637	NO	0
1990	meth_RASSF5	meth	RASSF5	YES	15
1991	meth_WEE2-AS1	meth	WEE2-AS1	NO	0
1992	cnv_HOTAIRM1	cnv	HOTAIRM1	NO	0
1993	cnv_LOC101928471	cnv	LOC101928471	NO	0
1993	mrna_KRT87P	mrna	KRT87P	NO	0
1994	mrna_KIAA1244	mrna	KIAA1244	YES	7
1994	stv_RP11-449L23.2	stv	RP11-449L23.2	NO	0
1995	cnv_COMMD7	cnv	COMMD7	YES	12
1995	mrna_FGFR4	mrna	FGFR4	YES	50

1996	cnv_IGFL4	cnv	IGFL4	YES	2
1997	meth_PKIB	meth	PKIB	YES	10
1997	stv_CAPS	stv	CAPS	YES	5
1998	mrna_TMF1	mrna	TMF1	YES	27
1999	meth_ZFP82	meth	ZFP82	YES	8
1999	stv_RHBDF2	stv	RHBDF2	YES	15
2000	cnv_PRDM1	cnv	PRDM1	YES	48
2001	cnv_TRAF4	cnv	TRAF4	YES	29
2002	mirna_MIR6777	mirna	MIR6777	NO	0
2002	stv_EMILIN2	stv	EMILIN2	YES	9
2003	meth_TGM4	meth	TGM4	YES	9
2003	stv_GABRB3	stv	GABRB3	YES	34
2004	stv_GOLGA8K	stv	GOLGA8K	YES	1
2004	stv_ERBB2	stv	ERBB2	YES	82
2006	stv_PPARGC1A	stv	PPARGC1A	YES	127
2007	cnv_CDC6	cnv	CDC6	YES	30
2007	meth_PRSS58	meth	PRSS58	YES	6
2009	mrna_ZNF197	mrna	ZNF197	YES	8
2009	stv_NAT10	stv	NAT10	YES	30
2011	stv_CTD-2587H24.1	stv	CTD-2587H24.1	NO	0
2012	meth_SPIC	meth	SPIC	YES	14
2013	cnv_MAP2K4P1	cnv	MAP2K4P1	NO	0
2014	cnv_CA10	cnv	CA10	YES	3
2014	mrna_POLD3	mrna	POLD3	YES	21
2015	mrna_ZHX1	mrna	ZHX1	YES	14
2016	cnv_FXN	cnv	FXN	YES	42
2016	mrna_GSTK1	mrna	GSTK1	YES	18
2017	cnv_CREB3L3	cnv	CREB3L3	YES	25
2017	stv_TBC1D7	stv	TBC1D7	YES	13
2018	cnv_INHBC	cnv	INHBC	YES	12
2018	mrna_CLTCL1	mrna	CLTCL1	YES	30
2019	cnv_ZDHHC24	cnv	ZDHHC24	YES	6
2019	mrna_PNMA2	mrna	PNMA2	YES	4
2021	cnv_LOC105372811	cnv	LOC105372811	NO	0
2023	cnv_CACNB1	cnv	CACNB1	YES	17
2024	cnv_NUMA1	cnv	NUMA1	YES	69
2024	mrna_CNOT8	mrna	CNOT8	YES	30
2025	mrna_FBXW2	mrna	FBXW2	YES	7
2025	stv_NMT2	stv	NMT2	YES	14
2026	cnv_UNC13A	cnv	UNC13A	YES	40
2027	cnv_NR1D2	cnv	NR1D2	YES	28
2027	cnv_TNS4	cnv	TNS4	YES	9
2028	meth_ATP6V0A4	meth	ATP6V0A4	YES	34
2028	stv_USP10	stv	USP10	YES	28
2029	cnv_BRWD1	cnv	BRWD1	YES	13
2030	cnv_LOC101929464	cnv	LOC101929464	NO	0
2030	cnv_MUSK	cnv	MUSK	YES	32
2033	mrna_RP9	mrna	RP9	YES	10
2033	stv_NAA16	stv	NAA16	YES	15
2034	cnv_CCDC144NL-AS1	cnv	CCDC144NL-AS1	NO	0
2034	cnv_KIF2C	cnv	KIF2C	YES	40
2035	meth_CD180	meth	CD180	YES	12

2035	mirna_MIR6827	mirna	MIR6827	NO	0
2036	cnv_MFSD8	cnv	MFSD8	YES	11
2036	meth_PCDH9	meth	PCDH9	YES	9
2038	cnv_DNAJC17	cnv	DNAJC17	YES	8
2039	cnv_ORMDL3	cnv	ORMDL3	YES	13
2040	cnv_URI1	cnv	URI1	YES	24
2040	stv_KRT33A	stv	KRT33A	YES	6
2041	meth_AC097468.7	meth	AC097468.7	NO	0
2041	stv_KLK10	stv	KLK10	YES	7
2042	meth_RTN4R	meth	RTN4R	YES	41
2043	cnv_SUMF2	cnv	SUMF2	YES	7
2044	cnv_MEOX2	cnv	MEOX2	YES	25
2045	cnv_OVCH1	cnv	OVCH1	YES	7
2045	mrna_TLK2	mrna	TLK2	YES	24
2046	cnv_TLR4	cnv	TLR4	YES	105
2047	cnv_ZNF713	cnv	ZNF713	YES	7
2047	mirna_MIR4741	mirna	MIR4741	NO	0
2048	meth_ACAP3	meth	ACAP3	YES	4
2049	mrna_KLHL28	mrna	KLHL28	YES	3
2051	meth_IL24	meth	IL24	YES	18
2051	meth_TLK1	meth	TLK1	YES	16
2052	cnv_DRP2	cnv	DRP2	YES	13
2053	cnv_MYO18A	cnv	MYO18A	YES	30
2053	mrna_RP5-1120P11.1	mrna	RP5-1120P11.1	NO	0
2054	cnv_NBEA	cnv	NBEA	YES	8
2055	cnv_TYRO3	cnv	TYRO3	YES	46
2056	cnv_MTHFD2L	cnv	MTHFD2L	YES	20
2056	stv_NDUFS7	stv	NDUFS7	YES	21
2057	mrna_IPP	mrna	IPP	YES	7
2058	meth_PRPS1L1	meth	PRPS1L1	YES	16
2059	cnv_BBX	cnv	BBX	YES	7
2060	mrna_SDC4	mrna	SDC4	YES	34
2060	mrna_HAUS5	mrna	HAUS5	YES	16
2061	mirna_MIR548J	mirna	MIR548J	NO	0
2061	mrna_NLRP2	mrna	NLRP2	YES	15
2062	mrna_TNFRSF19	mrna	TNFRSF19	YES	13
2062	stv_ARVCF	stv	ARVCF	YES	9
2063	mrna_C5orf22	mrna	C5orf22	YES	1
2065	stv_TOPBP1	stv	TOPBP1	YES	25
2066	cnv_SNX30	cnv	SNX30	YES	9
2066	mrna_NDP	mrna	NDP	YES	24
2067	stv_KIAA1324	stv	KIAA1324	YES	18
2067	stv_CRTAP	stv	CRTAP	YES	12
2068	meth_H2AFZ	meth	H2AFZ	YES	17
2068	stv_HSPB3	stv	HSPB3	YES	4
2069	stv_DNAH2	stv	DNAH2	YES	19
2070	cnv_PLA2G4E	cnv	PLA2G4E	YES	20
2071	cnv_ANKRD23	cnv	ANKRD23	YES	10
2071	cnv_HSPA13	cnv	HSPA13	YES	6
2072	cnv_MTMR3	cnv	MTMR3	YES	22
2072	meth_LAX1	meth	LAX1	YES	19
2073	cnv_CRYBG3	cnv	CRYBG3	YES	1

2073	mrna_CECR6	mrna	CECR6	NO	0
2074	cnv_ROPN1	cnv	ROPN1	YES	4
2074	mrna_CYB561D1	mrna	CYB561D1	YES	4
2075	cnv_ASXL1	cnv	ASXL1	YES	34
2075	meth_ZNF180	meth	ZNF180	YES	8
2076	mrna_ADM2	mrna	ADM2	YES	11
2076	stv_CLEC1A	stv	CLEC1A	YES	8
2077	cnv_SRRD	cnv	SRRD	YES	1
2077	stv_ZNF778	stv	ZNF778	YES	8
2078	mrna_LPCAT3	mrna	LPCAT3	YES	16
2078	stv_DOCK10	stv	DOCK10	YES	15
2079	cnv_LOC441204	cnv	LOC441204	NO	0
2080	stv_FAM208B	stv	FAM208B	YES	1
2081	stv_PLEKHH2	stv	PLEKHH2	YES	11
2082	cnv_LOC100506700	cnv	LOC100506700	NO	0
2082	meth_MYL12B	meth	MYL12B	YES	15
2084	mrna_ERO1LB	mrna	ERO1LB	YES	9
2085	cnv_TRAPPC3	cnv	TRAPPC3	YES	14
2085	meth_CTD-2516F10.2	meth	CTD-2516F10.2	NO	0
2086	meth_BLOC1S4	meth	BLOC1S4	YES	12
2087	mrna_AHNAK2	mrna	AHNAK2	YES	10
2087	stv_SLC46A2	stv	SLC46A2	YES	12
2088	cnv_FAM46C	cnv	FAM46C	YES	1
2088	meth_RAB42	meth	RAB42	YES	4
2089	meth_COL6A1	meth	COL6A1	YES	20
2089	meth_TXN	meth	TXN	YES	42
2090	meth_TXNL4B	meth	TXNL4B	YES	12
2090	mrna_AMACR	mrna	AMACR	YES	14
2091	stv_BOD1L1	stv	BOD1L1	YES	5
2092	stv_FYN	stv	FYN	YES	109
2093	meth_PDE6A	meth	PDE6A	YES	16
2094	mrna_EAF1	mrna	EAF1	YES	14
2094	mrna_PLD4	mrna	PLD4	YES	17
2095	mrna_HOXB7	mrna	HOXB7	YES	19
2095	stv_C6orf10	stv	C6orf10	YES	3
2096	cnv_TMPRSS11BNL	cnv	TMPRSS11BNL	YES	1
2097	meth_CLPB	meth	CLPB	YES	12
2097	stv_BAG6	stv	BAG6	YES	50
2098	mrna_LBHD1	mrna	LBHD1	NO	0
2101	mrna_ORC2	mrna	ORC2	YES	16
2102	cnv_SRSF8	cnv	SRSF8	YES	8
2102	mrna_ZNF134	mrna	ZNF134	YES	7
2103	cnv_LOC101927204	cnv	LOC101927204	NO	0
2103	mrna_LZIC	mrna	LZIC	YES	3
2104	mrna_WAPAL	mrna	WAPAL	YES	22
2104	stv_PRICKLE2	stv	PRICKLE2	YES	8
2105	cnv_LOC100128494	cnv	LOC100128494	NO	0
2105	mrna_NBPF3	mrna	NBPF3	YES	2
2106	cnv_HAP1	cnv	HAP1	YES	47
2106	mrna_CCDC47	mrna	CCDC47	YES	13
2107	cnv_PTGR1	cnv	PTGR1	YES	15
2107	stv_AMACR	stv	AMACR	YES	14

2108	cnv_LOC105377021	cnv	LOC105377021	NO	0
2108	cnv_UBXN8	cnv	UBXN8	YES	12
2109	meth_MPPED1	meth	MPPED1	YES	4
2109	stv_DNAH12	stv	DNAH12	YES	12
2110	cnv_CEP97	cnv	CEP97	YES	12
2110	stv_CEP350	stv	CEP350	YES	10
2111	cnv_RNF150	cnv	RNF150	YES	4
2112	mrna_RP11-454H19.2	mrna	RP11-454H19.2	NO	0
2114	meth_ADAM8	meth	ADAM8	YES	57
2115	stv_WWTR1	stv	WWTR1	YES	35
2116	cnv_CACNG1	cnv	CACNG1	YES	16
2116	stv_GPATCH1	stv	GPATCH1	YES	4
2117	cnv_LOC105369146	cnv	LOC105369146	NO	0
2117	mrna_SLC25A24	mrna	SLC25A24	YES	16
2118	cnv_FPR2	cnv	FPR2	YES	34
2119	mrna_FOXJ3	mrna	FOXJ3	YES	12
2119	stv_HRCT1	stv	HRCT1	YES	2
2120	mrna_RP11-723O4.2	mrna	RP11-723O4.2	NO	0
2121	stv_FBXW4	stv	FBXW4	YES	17
2122	mrna_SSUH2	mrna	SSUH2	YES	3
2122	stv_RTN3	stv	RTN3	YES	16
2124	stv_GOLGA6L2	stv	GOLGA6L2	YES	1
2125	stv_SMC3	stv	SMC3	YES	39
2126	stv_SRCIN1	stv	SRCIN1	YES	26
2127	mrna_PDE12	mrna	PDE12	YES	10
2128	cnv_PDLIM3	cnv	PDLIM3	YES	10
2128	stv_IDI1	stv	IDI1	YES	16
2129	mrna_QTRTD1	mrna	QTRTD1	YES	6
2130	mrna_PRKAG2	mrna	PRKAG2	YES	40
2131	cnv_JMJD7-PLA2G4B	cnv	JMJD7-PLA2G4B	YES	4
2133	meth_LCA5L	meth	LCA5L	YES	1
2133	meth_UBR2	meth	UBR2	YES	23
2134	cnv_CRYBB1	cnv	CRYBB1	YES	3
2134	stv_MLANA	stv	MLANA	YES	9
2135	cnv_EGFR-AS1	cnv	EGFR-AS1	NO	0
2136	meth_KIF25-AS1	meth	KIF25-AS1	NO	0
2137	meth_ACVR2B	meth	ACVR2B	YES	59
2138	mrna_ZMYM4	mrna	ZMYM4	YES	11
2138	mrna_C2orf54	mrna	C2orf54	NO	0
2139	mrna_RP5-1159O4.1	mrna	RP5-1159O4.1	NO	0
2139	mrna_RP5-1136G13.2	mrna	RP5-1136G13.2	NO	0
2140	cnv_SMTNL1	cnv	SMTNL1	YES	19
2140	stv_PPRC1	stv	PPRC1	YES	14
2141	stv_CCL14	stv	CCL14	YES	22
2142	mrna_NDUFA5	mrna	NDUFA5	YES	13
2144	cnv_PRKDC	cnv	PRKDC	YES	76
2144	mrna_BCAN	mrna	BCAN	YES	19
2145	cnv_XRRA1	cnv	XRRA1	YES	6
2145	mrna_COPRS	mrna	COPRS	YES	11
2146	stv_FAM186A	stv	FAM186A	NO	0
2147	mrna_ACRBP	mrna	ACRBP	YES	8
2149	cnv_KLHL11	cnv	KLHL11	YES	9

2149	stv_TMF1	stv	TMF1	YES	27
2150	cnv_NRG1	cnv	NRG1	YES	96
2151	mrna_SUCLG2	mrna	SUCLG2	YES	20
2151	stv_PRAMEF6	stv	PRAMEF6	YES	6
2152	cnv_KLHL42	cnv	KLHL42	YES	14
2152	stv_TAS2R3	stv	TAS2R3	YES	12
2153	mirna_MIR4446	mirna	MIR4446	YES	1
2153	stv_ERBB3	stv	ERBB3	YES	62
2156	cnv_EML3	cnv	EML3	YES	5
2156	stv_DCST1	stv	DCST1	YES	3
2157	cnv_NCR3LG1	cnv	NCR3LG1	YES	7
2157	stv_KIFC1	stv	KIFC1	YES	23
2158	cnv_PHGDH	cnv	PHGDH	YES	27
2158	mrna_CBLN3	mrna	CBLN3	YES	6
2159	mrna_CH507-9B2.5	mrna	CH507-9B2.5	NO	0
2160	mrna_TTC12	mrna	TTC12	YES	2
2160	stv_MXD4	stv	MXD4	YES	9
2161	cnv_LINC01137	cnv	LINC01137	NO	0
2161	stv_HMGCS1	stv	HMGCS1	YES	37
2162	stv_FCGRT	stv	FCGRT	YES	12
2163	stv_PRDX2	stv	PRDX2	YES	17
2163	stv_COX6C	stv	COX6C	YES	8
2164	mrna_SPIDR	mrna	SPIDR	YES	15
2165	mrna_DAG1	mrna	DAG1	YES	84
2166	mirna_MIR548O	mirna	MIR548O	YES	1
2167	stv_HMCN1	stv	HMCN1	YES	15
2170	meth_GJC2	meth	GJC2	YES	14
2171	cnv_LOC101929754	cnv	LOC101929754	NO	0
2172	mrna_C5orf51	mrna	C5orf51	YES	2
2172	stv_A1BG-AS1	stv	A1BG-AS1	NO	0
2173	meth_TBR1	meth	TBR1	YES	19
2175	stv_CDK2AP1	stv	CDK2AP1	YES	9
2175	stv_CTD-2587H24.4	stv	CTD-2587H24.4	NO	0
2176	mirna_MIR320D	mirna	MIR320D	NO	0
2177	cnv_JUP	cnv	JUP	YES	68
2177	cnv_RBL2	cnv	RBL2	YES	18
2178	stv_TRPV3	stv	TRPV3	YES	18
2179	cnv_DPPA4	cnv	DPPA4	YES	8
2180	stv_E2F4	stv	E2F4	YES	33
2181	cnv_TMEM19	cnv	TMEM19	YES	3
2181	mrna_SPAG4	mrna	SPAG4	YES	17
2182	mrna_FTSJ3	mrna	FTSJ3	YES	17
2182	stv_GRB7	stv	GRB7	YES	24
2183	cnv_SEZ6L	cnv	SEZ6L	YES	9
2184	mrna_KIAA0922	mrna	KIAA0922	YES	1
2184	stv_PRPF8	stv	PRPF8	YES	27
2185	meth_GABRB1	meth	GABRB1	YES	35
2185	meth_LHX5	meth	LHX5	YES	17
2186	mrna_RGMB-AS1	mrna	RGMB-AS1	NO	0
2187	stv_CDYL2	stv	CDYL2	YES	5
2188	cnv_SNW1	cnv	SNW1	YES	49
2189	meth_AP006621.5	meth	AP006621.5	NO	0

2191	cnv_NWD2	cnv	NWD2	NO	0
2191	mrna_NEK8	mrna	NEK8	YES	20
2192	mrna_CCDC91	mrna	CCDC91	YES	10
2192	mrna_FBXL7	mrna	FBXL7	YES	20
2193	cnv_RPAP1	cnv	RPAP1	YES	7
2194	meth_TRIM60	meth	TRIM60	YES	4
2194	mrna_KCNC3	mrna	KCNC3	YES	27
2195	cnv_SLC35E3	cnv	SLC35E3	YES	2
2195	stv_EXOC7	stv	EXOC7	YES	15
2196	cnv_CILP2	cnv	CILP2	YES	3
2196	cnv_LINC01481	cnv	LINC01481	NO	0
2197	meth_MIR5691	meth	MIR5691	NO	0
2198	mrna_WDR31	mrna	WDR31	YES	1
2198	mrna_RALGAPB	mrna	RALGAPB	YES	9
2199	cnv_LGR5	cnv	LGR5	YES	19
2199	mrna_RP11-315O6.1	mrna	RP11-315O6.1	NO	0
2200	meth_CACNG4	meth	CACNG4	YES	20
2202	stv_DAP3	stv	DAP3	YES	17
2204	cnv_NUP93	cnv	NUP93	YES	31
2204	mirna_MIR320A	mirna	MIR320A	YES	3
2205	meth_SMYD5	meth	SMYD5	YES	7
2205	stv_PCDHA10	stv	PCDHA10	YES	10
2206	mirna_MIR29C	mirna	MIR29C	YES	17
2207	cnv_RAB3IP	cnv	RAB3IP	YES	15
2207	stv_GHRL	stv	GHRL	YES	73
2209	cnv_MLH1	cnv	MLH1	YES	47
2209	stv_CH17-360D5.1	stv	CH17-360D5.1	NO	0
2210	stv_CCAR2	stv	CCAR2	YES	36
2211	mrna_TET3	mrna	TET3	YES	18
2211	stv_BCAT2	stv	BCAT2	YES	23
2212	meth_FOXN2	meth	FOXN2	YES	11
2213	stv_FMO3	stv	FMO3	YES	15
2214	cnv_NUCB2	cnv	NUCB2	YES	12
2214	meth_TCF7	meth	TCF7	YES	30
2215	cnv_LINC00919	cnv	LINC00919	NO	0
2216	cnv_PACS1	cnv	PACS1	YES	9
2217	meth_DDX25	meth	DDX25	YES	23
2218	cnv_SH3GL1P1	cnv	SH3GL1P1	NO	0
2219	mirna_MIR4636	mirna	MIR4636	NO	0
2219	mrna_CHN1	mrna	CHN1	YES	18
2221	mrna_HOXC13	mrna	HOXC13	YES	16
2222	meth_DNAH8	meth	DNAH8	YES	22
2223	cnv_AGR2	cnv	AGR2	YES	20
2225	mrna_RP11-77P16.4	mrna	RP11-77P16.4	NO	0
2225	stv_KIAA0753	stv	KIAA0753	YES	10
2226	cnv_IDO1	cnv	IDO1	YES	31
2226	stv_HOTTIP	stv	HOTTIP	NO	0
2227	cnv_EPHA8	cnv	EPHA8	YES	35
2227	mrna_YBX2	mrna	YBX2	YES	22
2229	mrna_DUSP9	mrna	DUSP9	YES	17
2230	cnv_ZFR2	cnv	ZFR2	YES	2
2231	mrna_ACTR8	mrna	ACTR8	YES	17

2233	mrna_AP3B2	mrna	AP3B2	YES	17
2233	stv_PAPOLA	stv	PAPOLA	YES	21
2234	cnv_TMEM234	cnv	TMEM234	YES	3
2235	meth_NMNAT3	meth	NMNAT3	YES	15
2236	mirna_MIR3158	mirna	MIR3158	NO	0
2237	cnv_JADE1	cnv	JADE1	YES	24
2238	meth_FZD8	meth	FZD8	YES	28
2240	cnv_AK2	cnv	AK2	YES	22
2240	cnv_GJB5	cnv	GJB5	YES	12
2241	stv_USP21	stv	USP21	YES	24
2242	meth_CTB-118N6.2	meth	CTB-118N6.2	NO	0
2243	cnv_LINC00310	cnv	LINC00310	NO	0
2243	cnv_MCM4	cnv	MCM4	YES	19
2244	meth_MFSD10	meth	MFSD10	YES	11
2245	cnv_C9orf84	cnv	C9orf84	NO	0
2245	stv_PSORS1C1	stv	PSORS1C1	NO	0
2247	meth_CTB-96E2.3	meth	CTB-96E2.3	NO	0
2248	stv_SLFN13	stv	SLFN13	YES	3
2249	cnv_PEF1	cnv	PEF1	YES	25
2250	meth_CCDC14	meth	CCDC14	YES	8
2251	cnv_ISM2	cnv	ISM2	YES	2
2252	mrna_FAR2P4	mrna	FAR2P4	NO	0
2252	stv_UBAP2	stv	UBAP2	YES	5
2253	meth_PRDM5	meth	PRDM5	YES	24
2254	meth_AKNAD1	meth	AKNAD1	YES	1
2254	mrna_DTX3L	mrna	DTX3L	YES	17
2255	stv_FOXQ1	stv	FOXQ1	YES	15
2256	cnv_GRID2	cnv	GRID2	YES	33
2256	mrna_ALG11	mrna	ALG11	YES	10
2257	meth_ERI1	meth	ERI1	YES	22
2257	stv_ZNF254	stv	ZNF254	YES	9
2258	cnv_LOC283575	cnv	LOC283575	NO	0
2259	mrna_RSF1	mrna	RSF1	YES	18
2260	cnv_CLGN	cnv	CLGN	YES	12
2261	mrna_CAMK4	mrna	CAMK4	YES	29
2263	meth_ABCC4	meth	ABCC4	YES	27
2264	mrna_HINFP	mrna	HINFP	YES	32
2265	cnv_ZNF697	cnv	ZNF697	YES	9
2267	cnv_TGIF2	cnv	TGIF2	YES	12
2267	mrna_ZNF551	mrna	ZNF551	YES	7
2268	cnv_MAPRE1	cnv	MAPRE1	YES	34
2268	mrna_TM9SF4	mrna	TM9SF4	YES	13
2269	cnv_INHBE	cnv	INHBE	YES	11
2269	mrna_LINC00900	mrna	LINC00900	NO	0
2270	cnv_LRRC37A11P	cnv	LRRC37A11P	NO	0
2271	mirna_MIR770	mirna	MIR770	NO	0
2272	mrna_NCAM2	mrna	NCAM2	YES	9
2273	mrna_PTPRF	mrna	PTPRF	YES	25
2274	mrna_APPL1	mrna	APPL1	YES	21
2274	mrna_FAM222B	mrna	FAM222B	YES	1
2275	stv_ATP2A2	stv	ATP2A2	YES	55
2275	stv_CECR2	stv	CECR2	YES	17

2277	stv_CT45A8	stv	CT45A8	NO	0
2278	cnv_BDNF	cnv	BDNF	YES	48
2278	cnv_MT4	cnv	MT4	YES	6
2279	mrna_GDF11	mrna	GDF11	YES	29
2280	stv_BTN2A2	stv	BTN2A2	YES	8
2281	cnv_AKTIP	cnv	AKTIP	YES	19
2282	cnv_MTMR9LP	cnv	MTMR9LP	NO	0
2283	cnv_LOC101928622	cnv	LOC101928622	NO	0
2283	mrna_BAMBI	mrna	BAMBI	YES	18
2284	cnv_CCM2L	cnv	CCM2L	YES	10
2284	stv_DAPP1	stv	DAPP1	YES	11
2285	cnv_CCT2	cnv	CCT2	YES	30
2285	mrna_PFKM	mrna	PFKM	YES	33
2286	stv_RP11-190A12.7	stv	RP11-190A12.7	NO	0
2287	meth_ANTXR1	meth	ANTXR1	YES	23
2287	mrna_LBR	mrna	LBR	YES	18
2288	cnv_HOXA-AS2	cnv	HOXA-AS2	NO	0
2288	mrna_LINC01411	mrna	LINC01411	NO	0
2289	mirna_MIR20A	mirna	MIR20A	YES	13
2289	mrna_THNSL1	mrna	THNSL1	YES	3
2291	cnv_ZNF17	cnv	ZNF17	YES	7
2292	cnv_LINC00515	cnv	LINC00515	NO	0
2292	mirna_MIR483	mirna	MIR483	YES	3
2293	mirna_MIR6717	mirna	MIR6717	NO	0
2293	mrna_RP11-127O4.3	mrna	RP11-127O4.3	NO	0
2294	cnv_LINC00506	cnv	LINC00506	NO	0
2294	stv_ADGRE4P	stv	ADGRE4P	NO	0
2296	cnv_RASGEF1B	cnv	RASGEF1B	YES	9
2296	stv_TNIP1	stv	TNIP1	YES	25
2297	cnv_LOC101929406	cnv	LOC101929406	NO	0
2298	mrna_ZNF626	mrna	ZNF626	YES	7
2299	stv_FBXO38	stv	FBXO38	YES	3
2300	cnv_TMEM97	cnv	TMEM97	YES	12
2300	mrna_URGCP	mrna	URGCP	YES	5
2302	mrna_RP1-206D15.6	mrna	RP1-206D15.6	NO	0
2302	stv_PCDH11X	stv	PCDH11X	YES	9
2303	meth_TLE4	meth	TLE4	YES	16
2304	cnv_GMDS	cnv	GMDS	YES	12
2304	cnv_SMAD1	cnv	SMAD1	YES	62
2305	meth_CSPG4	meth	CSPG4	YES	30
2306	cnv_RIPPLY3	cnv	RIPPLY3	YES	10
2307	meth_GALNT6	meth	GALNT6	YES	13
2308	mrna_ALDH7A1	mrna	ALDH7A1	YES	19
2309	mrna_DNMBP-AS1	mrna	DNMBP-AS1	NO	0
2309	mrna_GUSBP5	mrna	GUSBP5	NO	0
2310	mrna_TMEM158	mrna	TMEM158	YES	3
2311	mrna_CTD-2206N4.4	mrna	CTD-2206N4.4	NO	0
2311	stv_CTRB2	stv	CTRB2	YES	12
2312	cnv_TNFSF8	cnv	TNFSF8	YES	17
2313	cnv_PRIM1	cnv	PRIM1	YES	14
2313	cnv_ZCRB1	cnv	ZCRB1	YES	11
2314	cnv_SPTLC2	cnv	SPTLC2	YES	21

2314	stv_HOXA10-HOXA9	stv	HOXA10-HOXA9	NO	0
2315	mrna_ZCCHC2	mrna	ZCCHC2	YES	5
2315	mrna_RP11-390P24.1	mrna	RP11-390P24.1	NO	0
2316	stv_PLCXD1	stv	PLCXD1	YES	3
2317	cnv_LINC00547	cnv	LINC00547	NO	0
2317	stv_ALG1L8P	stv	ALG1L8P	NO	0
2318	mirna_MIR3941	mirna	MIR3941	NO	0
2318	stv_ADSL	stv	ADSL	YES	23
2320	cnv_LIN7C	cnv	LIN7C	YES	25
2320	meth_PDZD9	meth	PDZD9	YES	1
2323	cnv_SPECC1L-ADORA2A	cnv	SPECC1L-ADORA2A	YES	7
2324	meth_PIEZO2	meth	PIEZO2	YES	16
2324	mrna_SLC7A1	mrna	SLC7A1	YES	12
2325	mrna_DMBT1	mrna	DMBT1	YES	27
2326	mrna_ZNF329	mrna	ZNF329	YES	7
2326	stv_SLC35E2B	stv	SLC35E2B	YES	3
2327	mrna_RFPL1S	mrna	RFPL1S	NO	0
2328	mrna_SYCE2	mrna	SYCE2	YES	6
2329	mirna_MIR6814	mirna	MIR6814	NO	0
2331	cnv_PCAT14	cnv	PCAT14	NO	0
2332	mrna_PUM2	mrna	PUM2	YES	16
2332	stv_XPO7	stv	XPO7	YES	12
2333	cnv_GCSAM	cnv	GCSAM	YES	10
2334	cnv_CCT6A	cnv	CCT6A	YES	21
2334	meth_SRCAP	meth	SRCAP	YES	20
2336	cnv_R3HDM2	cnv	R3HDM2	YES	3
2337	mrna_DNAI1	mrna	DNAI1	YES	21
2337	stv_ZBTB14	stv	ZBTB14	YES	21
2338	cnv_ROM1	cnv	ROM1	YES	12
2338	stv_HIST2H2BF	stv	HIST2H2BF	YES	10
2339	cnv_CDX4	cnv	CDX4	YES	19
2339	stv_HNRNPD	stv	HNRNPD	YES	51
2340	cnv_EFHC1	cnv	EFHC1	YES	12
2340	cnv_VSTM2B	cnv	VSTM2B	YES	3
2341	meth_CCND2	meth	CCND2	YES	23
2343	cnv_NMRK2	cnv	NMRK2	YES	18
2344	cnv_RASGRP1	cnv	RASGRP1	YES	49
2344	mrna_RNGTT	mrna	RNGTT	YES	25
2345	cnv_CSRP3	cnv	CSRP3	YES	27
2345	cnv_SLC1A6	cnv	SLC1A6	YES	24
2346	cnv_LOC105375817	cnv	LOC105375817	NO	0
2346	stv_PIGO	stv	PIGO	YES	14
2347	cnv_LRRC72	cnv	LRRC72	NO	0
2347	mrna_STIM2	mrna	STIM2	YES	18
2348	stv_EPHX3	stv	EPHX3	YES	8
2349	cnv_RARG	cnv	RARG	YES	62
2349	mrna_C20orf96	mrna	C20orf96	YES	3
2350	meth_MS4A10	meth	MS4A10	YES	2
2351	mrna_TRMT10A	mrna	TRMT10A	YES	13
2351	stv_FLJ12825	stv	FLJ12825	NO	0
2353	mrna_VPRBP	mrna	VPRBP	YES	7
2353	stv_PPT2	stv	PPT2	YES	12

2354	mrna_KSR2	mrna	KSR2	YES	19
2354	stv_NEURL4	stv	NEURL4	YES	4
2355	stv_ATP8A2P3	stv	ATP8A2P3	NO	0
2356	mrna_RNF135	mrna	RNF135	YES	15
2357	mrna_CADM1	mrna	CADM1	YES	35
2357	stv_HCN3	stv	HCN3	YES	29
2358	stv_FANCD2P2	stv	FANCD2P2	NO	0
2359	mrna_FAM83B	mrna	FAM83B	YES	8
2360	mrna_FBXO28	mrna	FBXO28	YES	5
2361	mrna_HDAC2	mrna	HDAC2	YES	84
2362	cnv_LOC101928002	cnv	LOC101928002	NO	0
2362	cnv_OR7C1	cnv	OR7C1	YES	12
2363	meth_PCP4	meth	PCP4	YES	8
2364	mrna_TRIM32	mrna	TRIM32	YES	50
2365	stv_HSD17B12	stv	HSD17B12	YES	24
2367	mrna_IFI44	mrna	IFI44	YES	2
2368	stv_UBR1	stv	UBR1	YES	16
2369	mrna_MAATS1	mrna	MAATS1	YES	11
2370	cnv_LINC01278	cnv	LINC01278	NO	0
2371	mrna_SLC39A10	mrna	SLC39A10	YES	17
2372	meth_MGAT5B	meth	MGAT5B	YES	11
2373	cnv_GMIP	cnv	GMIP	YES	12
2373	mrna_KLHL12	mrna	KLHL12	YES	21
2374	cnv_USH1C	cnv	USH1C	YES	30
2375	mrna_RNF213	mrna	RNF213	YES	17
2376	cnv_UBP1	cnv	UBP1	YES	13
2377	meth_RP11-375N15.2	meth	RP11-375N15.2	NO	0
2377	stv_ARID3A	stv	ARID3A	YES	18
2378	cnv_FRS3	cnv	FRS3	YES	12
2379	cnv_FAM111B	cnv	FAM111B	YES	1
2379	meth_CCDC132	meth	CCDC132	NO	0
2380	meth_NKX2-1	meth	NKX2-1	YES	60
2383	stv_RPGRIP1L	stv	RPGRIP1L	YES	46
2384	mrna_DUSP4	mrna	DUSP4	YES	27
2384	stv_MC2R	stv	MC2R	YES	16
2385	cnv_LOC729966	cnv	LOC729966	NO	0
2385	stv_ACOT7	stv	ACOT7	YES	20
2386	meth_AC007255.8	meth	AC007255.8	NO	0
2386	mrna_MT-ND4L	mrna	MT-ND4L	YES	12
2387	mirna_MIR423	mirna	MIR423	YES	3
2388	mrna_ULBP3	mrna	ULBP3	YES	10
2388	mrna_SLC30A1	mrna	SLC30A1	YES	30
2389	stv_MRPL48	stv	MRPL48	YES	9
2390	meth_RP11-432B6.3	meth	RP11-432B6.3	NO	0
2392	mrna_DYM	mrna	DYM	YES	9
2392	stv_IGHJ6	stv	IGHJ6	NO	0
2393	stv_TAF1L	stv	TAF1L	YES	27
2394	cnv_CASC16	cnv	CASC16	NO	0
2394	cnv_CCAR2	cnv	CCAR2	YES	36
2395	cnv_IGSF11-AS1	cnv	IGSF11-AS1	NO	0
2396	cnv_PAAF1	cnv	PAAF1	YES	5
2397	mrna_CKLF	mrna	CKLF	YES	13

2398	mirna_MIR6825	mirna	MIR6825	NO	0
2398	stv_FZR1	stv	FZR1	YES	27
2399	cnv_CIB3	cnv	CIB3	YES	4
2399	mrna_TMEM176B	mrna	TMEM176B	YES	7
2400	mrna_DISP1	mrna	DISP1	YES	16
2401	cnv_HOXA13	cnv	HOXA13	YES	26
2402	cnv_MRPL11	cnv	MRPL11	YES	14
2402	stv_RENBP	stv	RENBP	YES	17
2403	mrna_SLC40A1	mrna	SLC40A1	YES	31
2404	meth_RP11-71L14.4	meth	RP11-71L14.4	NO	0
2405	cnv_ATCAY	cnv	ATCAY	YES	19
2405	cnv_LIMK2	cnv	LIMK2	YES	18
2406	stv_CARD14	stv	CARD14	YES	13
2407	meth_AC007405.8	meth	AC007405.8	NO	0
2408	cnv_GATAD2A	cnv	GATAD2A	YES	18
2408	mrna_AKAP8	mrna	AKAP8	YES	34
2410	mrna_SLC33A1	mrna	SLC33A1	YES	14
2411	cnv_SLC25A38	cnv	SLC25A38	YES	11
2411	meth_CDKN2D	meth	CDKN2D	YES	27
2412	mrna_TECTA	mrna	TECTA	YES	10
2413	stv_MYCNOS	stv	MYCNOS	NO	0
2415	stv_GAS2L2	stv	GAS2L2	YES	11
2417	mrna_UGCG	mrna	UGCG	YES	14
2417	mrna_ASPRV1	mrna	ASPRV1	YES	8
2418	stv_DNAI2	stv	DNAI2	YES	22
2419	cnv_PLEKHF1	cnv	PLEKHF1	YES	18
2419	meth_SYT10	meth	SYT10	YES	25
2420	cnv_QTRTD1	cnv	QTRTD1	YES	6
2420	mrna_LRIG3	mrna	LRIG3	YES	8
2421	mrna_CNTN6	mrna	CNTN6	YES	12
2421	stv_CYP2A7P1	stv	CYP2A7P1	NO	0
2422	cnv_DCLK1	cnv	DCLK1	YES	30
2422	stv_SIGLEC6	stv	SIGLEC6	YES	9
2423	mrna_WIPF2	mrna	WIPF2	YES	6
2424	mrna_ZNF543	mrna	ZNF543	YES	9
2425	cnv_CD36	cnv	CD36	YES	108
2427	mrna_PCDHB13	mrna	PCDHB13	YES	10
2428	meth_EPPIN	meth	EPPIN	YES	15
2431	mrna_NOLC1	mrna	NOLC1	YES	19
2432	mirna_MIR1266	mirna	MIR1266	NO	0
2433	mrna_VEZF1	mrna	VEZF1	YES	15
2434	mrna_POLR2B	mrna	POLR2B	YES	28
2434	stv_CORO7	stv	CORO7	YES	14
2435	stv_TP73-AS1	stv	TP73-AS1	NO	0
2436	cnv_NGB	cnv	NGB	YES	11
2437	cnv_PRKAR1A	cnv	PRKAR1A	YES	39
2437	meth_WFIKKN1	meth	WFIKKN1	YES	13
2438	mrna_AC010524.2	mrna	AC010524.2	NO	0
2438	stv_ACSS1	stv	ACSS1	YES	15
2439	meth_IDO1	meth	IDO1	YES	31
2439	mrna_DND1P1	mrna	DND1P1	NO	0
2440	cnv_LOC102723831	cnv	LOC102723831	NO	0

2440	stv_PPP1R10	stv	PPP1R10	YES	13
2441	cnv_RAP1B	cnv	RAP1B	YES	33
2441	cnv_SGK2	cnv	SGK2	YES	26
2442	mrna_FAM3B	mrna	FAM3B	YES	6
2442	mrna_SMN2	mrna	SMN2	YES	23
2443	cnv_KBTBD11-OT1	cnv	KBTBD11-OT1	NO	0
2443	stv_TSNARE1	stv	TSNARE1	YES	10
2444	cnv_UQCR10	cnv	UQCR10	YES	12
2444	mrna_TPD52L1	mrna	TPD52L1	YES	13
2445	cnv_PHF19	cnv	PHF19	YES	14
2446	cnv_PSMD5	cnv	PSMD5	YES	32
2448	cnv_HSPA4L	cnv	HSPA4L	YES	7
2448	mrna_MAP7	mrna	MAP7	YES	27
2449	cnv_ZNF749	cnv	ZNF749	YES	7
2449	mrna_SLC16A14	mrna	SLC16A14	YES	9
2450	stv_CTC-523E23.5	stv	CTC-523E23.5	NO	0
2450	stv_RBCK1	stv	RBCK1	YES	21
2451	cnv_CRYBB2	cnv	CRYBB2	YES	7
2453	stv_UHRF2	stv	UHRF2	YES	19
2454	mirna_MIR140	mirna	MIR140	YES	7
2454	mirna_MIR1468	mirna	MIR1468	YES	1
2455	mrna_GPBP1L1	mrna	GPBP1L1	YES	6
2456	cnv_RUVBL1	cnv	RUVBL1	YES	50
2457	cnv_ARL5C	cnv	ARL5C	YES	4
2457	cnv_SLC17A6	cnv	SLC17A6	YES	16
2458	cnv_LOC100507487	cnv	LOC100507487	NO	0
2459	meth_TAS2R10	meth	TAS2R10	YES	12
2460	stv_KATNB1	stv	KATNB1	YES	28
2461	cnv_GRAMD1C	cnv	GRAMD1C	YES	3
2462	cnv_CCR4	cnv	CCR4	YES	24
2462	mrna_DMC1	mrna	DMC1	YES	33
2463	stv_ABCD4	stv	ABCD4	YES	15
2464	cnv_ADCY5	cnv	ADCY5	YES	36
2465	cnv_CRTAP	cnv	CRTAP	YES	12
2466	meth_RPL27	meth	RPL27	YES	19
2466	mrna_TIAL1	mrna	TIAL1	YES	18
2467	mrna_PCED1B	mrna	PCED1B	YES	1
2467	stv_ACACB	stv	ACACB	YES	38
2468	stv_AKR7A3	stv	AKR7A3	YES	11
2470	meth_HIST1H4J	meth	HIST1H4J	YES	36
2470	mrna_HDAC4	mrna	HDAC4	YES	78
2471	cnv_MSN	cnv	MSN	YES	57
2471	meth_ARSG	meth	ARSG	YES	15
2472	cnv_ZNF829	cnv	ZNF829	YES	8
2472	stv_RPS6	stv	RPS6	YES	41
2473	cnv_NXF1	cnv	NXF1	YES	21
2473	meth_CTHRC1	meth	CTHRC1	YES	17
2475	meth_AC074338.5	meth	AC074338.5	NO	0
2475	meth_MREG	meth	MREG	YES	9
2476	mrna_BRD3	mrna	BRD3	YES	8
2478	mrna_CCNA1	mrna	CCNA1	YES	15
2478	stv_OR11A1	stv	OR11A1	YES	11

2480	cnv_PGC	cnv	PGC	YES	11
2480	meth_IRF2	meth	IRF2	YES	20
2481	stv_PAF1	stv	PAF1	YES	31
2482	cnv_SPIN4	cnv	SPIN4	YES	1
2483	cnv_MRGPRX3	cnv	MRGPRX3	YES	8
2483	meth_API5	meth	API5	YES	11
2484	stv_SLC12A7	stv	SLC12A7	YES	18
2485	cnv_TRA2A	cnv	TRA2A	YES	8
2485	stv_FOXRED1	stv	FOXRED1	YES	10
2486	cnv_EIF3I	cnv	EIF3I	YES	13
2486	meth_GLRB	meth	GLRB	YES	41
2487	meth_AP001525.1	meth	AP001525.1	NO	0
2488	meth_TP63	meth	TP63	YES	103
2489	cnv_STX5	cnv	STX5	YES	29
2490	meth_LYNX1	meth	LYNX1	YES	4
2490	meth_TCEANC2	meth	TCEANC2	YES	3
2491	meth_ARCN1	meth	ARCN1	YES	23
2491	mrna_FGF14	mrna	FGF14	YES	13
2492	mrna_PDRG1	mrna	PDRG1	YES	4
2494	cnv_PRG2	cnv	PRG2	YES	15
2494	meth_NDUFS4	meth	NDUFS4	YES	19
2495	cnv_TRERF1	cnv	TRERF1	YES	24
2496	stv_RP11-512M8.11	stv	RP11-512M8.11	NO	0
2497	meth_PRMT7	meth	PRMT7	YES	35
2497	mrna_RP11-463J17.2	mrna	RP11-463J17.2	NO	0
2499	cnv_TNFSF14	cnv	TNFSF14	YES	25
2500	meth_CP	meth	CP	YES	19
2500	mrna_METTL15	mrna	METTL15	YES	7
2501	mrna_RAD51C	mrna	RAD51C	YES	40
2501	stv_OR4F17	stv	OR4F17	YES	13
2502	mrna_MTUS2	mrna	MTUS2	YES	11
2502	mrna_CEP57L1	mrna	CEP57L1	YES	13
2503	cnv_MAATS1	cnv	MAATS1	YES	11
2504	meth_ATF7IP	meth	ATF7IP	YES	16
2505	mrna_LINC00243	mrna	LINC00243	NO	0
2506	mrna_LINC00939	mrna	LINC00939	NO	0
2507	mrna_ZNF304	mrna	ZNF304	YES	22
2508	mrna_SLC37A2	mrna	SLC37A2	YES	14
2508	mrna_ZNF182	mrna	ZNF182	YES	8
2509	cnv_ACTR5	cnv	ACTR5	YES	13
2509	stv_SPIRE1	stv	SPIRE1	YES	22
2510	meth_RFX6	meth	RFX6	YES	23
2511	cnv_MORN5	cnv	MORN5	NO	0
2511	cnv_PREP	cnv	PREP	YES	11
2512	cnv_SCLT1	cnv	SCLT1	YES	15
2512	stv_RNF34	stv	RNF34	YES	28
2513	meth_AMPD3	meth	AMPD3	YES	22
2514	meth_RP11-66N24.3	meth	RP11-66N24.3	NO	0
2515	cnv_GPR182	cnv	GPR182	YES	11
2515	mrna_NEDD1	mrna	NEDD1	YES	17
2516	cnv_POLDIP2	cnv	POLDIP2	YES	8
2516	mrna_AP001347.6	mrna	AP001347.6	NO	0

2517	meth_LENG9	meth	LENG9	YES	2
2517	stv_TFDP1	stv	TFDP1	YES	31
2518	mrna_PRKAR1A	mrna	PRKAR1A	YES	39
2518	stv_NIPBL	stv	NIPBL	YES	49
2520	mrna_ERGIC2	mrna	ERGIC2	YES	14
2521	meth_P2RX6	meth	P2RX6	YES	25
2521	mirna_MIR1225	mirna	MIR1225	NO	0
2522	stv_SEC63	stv	SEC63	YES	21
2523	cnv_CHRNA2	cnv	CHRNA2	YES	25
2523	cnv_KCNA4	cnv	KCNA4	YES	20
2524	meth_C6orf89	meth	C6orf89	YES	14
2524	mrna_FUT6	mrna	FUT6	YES	15
2525	mrna_NYAP1	mrna	NYAP1	YES	3
2526	stv_LINC00470	stv	LINC00470	NO	0
2527	mrna_EFCC1	mrna	EFCC1	YES	1
2527	mrna_KLHL29	mrna	KLHL29	YES	3
2529	stv_AOX2P	stv	AOX2P	NO	0
2530	mrna_OGFOD1	mrna	OGFOD1	YES	19
2532	meth_CUL4A	meth	CUL4A	YES	38
2532	mrna_LINC00869	mrna	LINC00869	NO	0
2535	mirna_MIR320C	mirna	MIR320C	NO	0
2536	cnv_ZNF568	cnv	ZNF568	YES	9
2536	stv_HOXB-AS2	stv	HOXB-AS2	NO	0
2537	meth_TFDP1	meth	TFDP1	YES	31
2538	cnv_BCRP3	cnv	BCRP3	NO	0
2538	meth_JAZF1	meth	JAZF1	YES	11
2539	meth_ARHGAP35	meth	ARHGAP35	YES	44
2540	stv_KIF19	stv	KIF19	YES	17
2541	cnv_HIST1H1T	cnv	HIST1H1T	YES	11
2541	mrna_RP11-465B22.3	mrna	RP11-465B22.3	NO	0
2542	stv_KRTAP4-7	stv	KRTAP4-7	YES	7
2543	cnv_HOXA1	cnv	HOXA1	YES	37
2543	stv_OSBPL2	stv	OSBPL2	YES	9
2544	stv_POTEC	stv	POTEC	YES	1
2545	meth_BAP1	meth	BAP1	YES	29
2546	mrna_FAM102B	mrna	FAM102B	NO	0
2547	cnv_DPPA2	cnv	DPPA2	YES	9
2547	cnv_MRPL39	cnv	MRPL39	YES	10
2548	cnv_OR8K1	cnv	OR8K1	YES	12
2549	cnv_SLIRP	cnv	SLIRP	YES	17
2550	meth_CTD-2619J13.14	meth	CTD-2619J13.14	NO	0
2551	mrna_GPR89B	mrna	GPR89B	YES	13
2552	cnv_VASH1	cnv	VASH1	YES	19
2552	meth_PHOSPHO1	meth	PHOSPHO1	YES	15
2553	meth_SLPI	meth	SLPI	YES	25
2553	mrna_CENPL	mrna	CENPL	YES	8
2554	stv_DUSP13	stv	DUSP13	YES	14
2555	cnv_SORBS3	cnv	SORBS3	YES	18
2556	cnv_TNC	cnv	TNC	YES	34
2557	cnv_ZPBP2	cnv	ZPBP2	YES	8
2557	mrna_TYW1B	mrna	TYW1B	YES	8
2558	cnv_LOC101927854	cnv	LOC101927854	NO	0

2558	mrna_PTPRK	mrna	PTPRK	YES	40
2559	meth_ADAMTS5	meth	ADAMTS5	YES	19
2560	meth_BLOC1S2	meth	BLOC1S2	YES	24
2561	mrna_AREL1	mrna	AREL1	YES	11
2562	mrna_MRPS25	mrna	MRPS25	YES	7
2562	mrna_FAM210A	mrna	FAM210A	YES	3
2563	cnv_BTLA	cnv	BTLA	YES	11
2563	meth_AC105339.1	meth	AC105339.1	NO	0
2565	cnv_STAC3	cnv	STAC3	YES	9
2565	mrna_MAB21L3	mrna	MAB21L3	YES	1
2566	cnv_TRAF1	cnv	TRAF1	YES	15
2567	cnv_ZNF654	cnv	ZNF654	YES	6
2567	meth_TTC33	meth	TTC33	YES	1
2568	cnv_CLDN23	cnv	CLDN23	YES	9
2568	mrna_C8orf48	mrna	C8orf48	YES	1
2569	mrna_RP11-106M3.3	mrna	RP11-106M3.3	NO	0
2570	cnv_CNNM3	cnv	CNNM3	YES	8
2570	mrna_PCDHGA4	mrna	PCDHGA4	YES	7
2571	mirna_MIR4754	mirna	MIR4754	NO	0
2573	mrna_GSDMB	mrna	GSDMB	YES	5
2573	mrna_POLRMTP1	mrna	POLRMTP1	NO	0
2574	cnv_FAM178B	cnv	FAM178B	NO	0
2574	cnv_LOC102724064	cnv	LOC102724064	NO	0
2575	cnv_DNAJB1	cnv	DNAJB1	YES	22
2575	cnv_NODAL	cnv	NODAL	YES	81
2576	mrna_AQP3	mrna	AQP3	YES	25
2578	cnv_CAPRIN2	cnv	CAPRIN2	YES	22
2578	mrna_RP11-46D6.1	mrna	RP11-46D6.1	NO	0
2579	stv_LAMTOR4	stv	LAMTOR4	YES	14
2580	mrna_DIO2	mrna	DIO2	YES	16
2581	meth_DENND1B	meth	DENND1B	YES	16
2581	stv_EXOSC3	stv	EXOSC3	YES	26
2582	meth_LYN	meth	LYN	YES	134
2582	mrna_NOL4	mrna	NOL4	YES	3
2583	mrna_C10orf82	mrna	C10orf82	NO	0
2584	cnv_MEF2BNB-MEF2B	cnv	MEF2BNB-MEF2B	YES	10
2585	cnv_ZNF773	cnv	ZNF773	YES	7
2585	stv_PYGL	stv	PYGL	YES	32
2586	stv_PRDM9	stv	PRDM9	YES	21
2587	meth_ETV4	meth	ETV4	YES	15
2587	mrna_PFAS	mrna	PFAS	YES	14
2588	cnv_NAV2	cnv	NAV2	YES	18
2589	cnv_CSMD2-AS1	cnv	CSMD2-AS1	NO	0
2589	cnv_GSK3B	cnv	GSK3B	YES	98
2590	cnv_SPG20	cnv	SPG20	YES	17
2590	meth_GALM	meth	GALM	YES	11
2592	cnv_LINC00477	cnv	LINC00477	NO	0
2593	mrna_DNAJC3	mrna	DNAJC3	YES	28
2594	mrna_PTPRG-AS1	mrna	PTPRG-AS1	NO	0
2595	cnv_DBX1	cnv	DBX1	YES	9
2595	mrna_RP11-544M22.13	mrna	RP11-544M22.13	NO	0
2596	cnv_ZNF547	cnv	ZNF547	YES	7

2597	cnv_NEK8	cnv	NEK8	YES	20
2598	cnv_ZMYM1	cnv	ZMYM1	YES	10
2598	mrna_PTGR1	mrna	PTGR1	YES	15
2599	stv_SLC9A4	stv	SLC9A4	YES	21
2600	cnv_OR5AK2	cnv	OR5AK2	YES	12
2601	mrna_FBXL20	mrna	FBXL20	YES	7
2602	meth_CYP4X1	meth	CYP4X1	YES	14
2603	mrna_KIAA0232	mrna	KIAA0232	YES	2
2604	mrna_NF1	mrna	NF1	YES	90
2605	cnv_BEST3	cnv	BEST3	YES	13
2605	mrna_ALKBH5	mrna	ALKBH5	YES	19
2607	mirna_MIR95	mirna	MIR95	NO	0
2608	meth_OSBPL5	meth	OSBPL5	YES	19
2608	stv_CHRNA5	stv	CHRNA5	YES	25
2609	mrna_ZNF211	mrna	ZNF211	YES	7
2610	cnv_C1QB	cnv	C1QB	YES	16
2610	mrna_RNF216	mrna	RNF216	YES	16
2611	mrna_PHOSPHO1	mrna	PHOSPHO1	YES	15
2613	cnv_DKFZp434J0226	cnv	DKFZp434J0226	NO	0
2613	meth_ABHD8	meth	ABHD8	YES	3
2616	cnv_MCPH1	cnv	MCPH1	YES	17
2616	mrna_GUCY2D	mrna	GUCY2D	YES	23
2617	meth_GORAB	meth	GORAB	YES	10
2617	mrna_CCDC132	mrna	CCDC132	NO	0
2618	mrna_LBX2	mrna	LBX2	YES	6
2618	stv_ANO8	stv	ANO8	YES	11
2619	meth_GPBP1L1	meth	GPBP1L1	YES	6
2619	stv_GRM2	stv	GRM2	YES	26
2620	meth_B4GALNT2	meth	B4GALNT2	YES	15
2621	cnv_LINC01205	cnv	LINC01205	NO	0
2621	stv_CGN	stv	CGN	YES	10
2623	mrna_VTA1	mrna	VTA1	YES	19
2625	cnv_CRYBA1	cnv	CRYBA1	YES	13
2626	cnv_CSTF3	cnv	CSTF3	YES	14
2626	cnv_YJEFN3	cnv	YJEFN3	NO	0
2627	cnv_KIAA1407	cnv	KIAA1407	NO	0
2628	stv_FAN1	stv	FAN1	YES	25
2629	cnv_MAP2K2	cnv	MAP2K2	YES	60
2629	mrna_RP11-504P24.8	mrna	RP11-504P24.8	NO	0
2630	stv_LGR6	stv	LGR6	YES	17
2630	stv_DPEP3	stv	DPEP3	YES	12
2631	stv_APTX	stv	APTX	YES	28
2633	stv_RPP25L	stv	RPP25L	YES	4
2634	cnv_ADGRE3	cnv	ADGRE3	YES	14
2635	cnv_P2RY6	cnv	P2RY6	YES	19
2636	cnv_KCNE3	cnv	KCNE3	YES	29
2637	mrna_SLC11A1	mrna	SLC11A1	YES	63
2638	meth_QRFP	meth	QRFP	YES	9
2638	mrna_CTC-444N24.8	mrna	CTC-444N24.8	NO	0
2639	meth_MRPL1	meth	MRPL1	YES	17
2640	mrna_C3orf14	mrna	C3orf14	NO	0
2642	cnv_PARM1	cnv	PARM1	YES	13

2642	stv_FLT1	stv	FLT1	YES	50
2644	cnv_TLR3	cnv	TLR3	YES	77
2645	mrna_NAA25	mrna	NAA25	YES	6
2648	cnv_IFT20	cnv	IFT20	YES	46
2649	cnv_TNRC6B	cnv	TNRC6B	YES	17
2650	mrna_C6orf25	mrna	C6orf25	YES	5
2651	cnv_SVIP	cnv	SVIP	YES	22
2652	mrna_TEAD2	mrna	TEAD2	YES	34
2653	cnv_CCDC149	cnv	CCDC149	NO	0
2653	cnv_YARS	cnv	YARS	YES	21
2655	meth_CDC25C	meth	CDC25C	YES	27
2656	stv_ANAPC1	stv	ANAPC1	YES	14
2657	cnv_SNX13	cnv	SNX13	YES	13
2658	stv_DNAJC11	stv	DNAJC11	YES	4
2659	stv_TIMM44	stv	TIMM44	YES	12
2659	stv_SLC6A8	stv	SLC6A8	YES	20
2660	meth_GTF2IRD1	meth	GTF2IRD1	YES	15
2662	mrna_AMBP	mrna	AMBP	YES	27
2662	mrna_GSTM3	mrna	GSTM3	YES	20
2663	cnv_MBD6	cnv	MBD6	YES	8
2664	mrna_FADS2	mrna	FADS2	YES	15
2664	stv_RP11-332J15.2	stv	RP11-332J15.2	NO	0
2665	mrna_LINC00323	mrna	LINC00323	NO	0
2665	stv_CDH18	stv	CDH18	YES	8
2666	cnv_SLC29A2	cnv	SLC29A2	YES	14
2666	stv_FAM173B	stv	FAM173B	YES	2
2667	cnv_FRY-AS1	cnv	FRY-AS1	NO	0
2668	mrna_SLC15A2	mrna	SLC15A2	YES	19
2669	meth_SLC34A2	meth	SLC34A2	YES	26
2670	stv_ZNF101P1	stv	ZNF101P1	NO	0
2670	stv_GAL3ST4	stv	GAL3ST4	YES	16
2671	mrna_ST6GALNAC1	mrna	ST6GALNAC1	YES	14
2672	mrna_GCA	mrna	GCA	YES	16
2673	cnv_RYR3	cnv	RYR3	YES	32
2674	stv_CWH43	stv	CWH43	YES	3
2675	mirna_MIR6762	mirna	MIR6762	NO	0
2676	cnv_LOC400867	cnv	LOC400867	NO	0
2676	stv_VCP	stv	VCP	YES	90
2677	stv_PPP4R1	stv	PPP4R1	YES	8
2678	mrna_AADAT	mrna	AADAT	YES	18
2678	stv_RP11-286N3.2	stv	RP11-286N3.2	NO	0
2679	mrna_EPHA3	mrna	EPHA3	YES	32
2679	stv_SYNGR1	stv	SYNGR1	YES	17
2680	mrna_NAT2	mrna	NAT2	YES	12
2681	mrna_ABI1	mrna	ABI1	YES	39
2682	mrna_LINC01018	mrna	LINC01018	NO	0
2683	cnv_A3GALT2	cnv	A3GALT2	YES	14
2684	cnv_BLOC1S5	cnv	BLOC1S5	YES	12
2684	mirna_MIR7	mirna	MIR7	NO	0
2685	stv_LINC00960	stv	LINC00960	NO	0
2686	cnv_LUZP2	cnv	LUZP2	YES	1
2686	cnv_ORM2	cnv	ORM2	YES	15

2687	cnv_ABCC8	cnv	ABCC8	YES	48
2687	mrna_SDAD1	mrna	SDAD1	YES	10
2688	cnv_GLI1	cnv	GLI1	YES	48
2689	cnv_D21S2088E	cnv	D21S2088E	NO	0
2690	meth_RNF152	meth	RNF152	YES	18
2690	mrna_RRP1B	mrna	RRP1B	YES	10
2692	meth_LACE1	meth	LACE1	YES	2
2694	cnv_TAF6L	cnv	TAF6L	YES	17
2694	mrna_SLC37A3	mrna	SLC37A3	YES	10
2695	meth_HOTTIP_2	meth	HOTTIP	NO	0
2695	mrna_SCARB1	mrna	SCARB1	YES	60
2696	mrna_LIPC	mrna	LIPC	YES	28
2697	meth_IRS2	meth	IRS2	YES	47
2698	cnv_ZDHHC13	cnv	ZDHHC13	YES	17
2699	cnv_LOC101928227	cnv	LOC101928227	NO	0
2699	mrna_FAM184B	mrna	FAM184B	NO	0
2700	cnv_SYTL4	cnv	SYTL4	YES	32
2700	mrna_TPM3P9	mrna	TPM3P9	NO	0
2701	mrna_PAPPA	mrna	PAPPA	YES	14
2704	meth_NPPB	meth	NPPB	YES	37
2705	cnv_FBXW2	cnv	FBXW2	YES	7
2706	mrna_SUV39H2	mrna	SUV39H2	YES	30
2706	mrna_INSR	mrna	INSR	YES	79
2709	mrna_ACAD8	mrna	ACAD8	YES	15
2709	stv_HLA-DRB5	stv	HLA-DRB5	YES	29
2711	cnv_ANO5	cnv	ANO5	YES	12
2712	cnv_CHD6	cnv	CHD6	YES	15
2712	cnv_FAT1	cnv	FAT1	YES	23
2713	mrna_SLC8A2	mrna	SLC8A2	YES	27
2714	cnv_MIF-AS1	cnv	MIF-AS1	NO	0
2714	cnv_RBBP4	cnv	RBBP4	YES	35
2715	cnv_OR5R1	cnv	OR5R1	YES	12
2715	meth_RNF17	meth	RNF17	YES	9
2717	stv_NDUFA12	stv	NDUFA12	YES	14
2719	cnv_BBOX1	cnv	BBOX1	YES	14
2719	cnv_HNRNPUL2	cnv	HNRNPUL2	YES	6
2720	cnv_ARHGEF17	cnv	ARHGEF17	YES	14
2720	meth_NMU	meth	NMU	YES	20
2721	cnv_RASSF6	cnv	RASSF6	YES	5
2721	mrna_CCAR1	mrna	CCAR1	YES	17
2722	mrna_RP11-379H18.1	mrna	RP11-379H18.1	NO	0
2723	stv_ZNF28	stv	ZNF28	YES	8
2726	mrna_CPT2	mrna	CPT2	YES	14
2727	mrna_PCDHGA12	mrna	PCDHGA12	YES	10
2729	cnv_ACVRL1	cnv	ACVRL1	YES	77
2730	cnv_LINC00161	cnv	LINC00161	NO	0
2732	cnv_LOC101927797	cnv	LOC101927797	NO	0
2732	cnv_TTC29	cnv	TTC29	YES	1
2733	stv_ATHL1	stv	ATHL1	YES	3
2734	mrna_HERPUD1	mrna	HERPUD1	YES	25
2735	mrna_CTNNA3	mrna	CTNNA3	YES	15
2735	stv_OTOF	stv	OTOF	YES	17

2736	cnv_ZNF80	cnv	ZNF80	YES	6
2738	cnv_EIF1AD	cnv	EIF1AD	YES	6
2738	stv_GPRIN2	stv	GPRIN2	YES	1
2739	cnv_SH3D19	cnv	SH3D19	YES	10
2739	stv_KIAA1614	stv	KIAA1614	NO	0
2740	mrna_SAMD13	mrna	SAMD13	YES	3
2741	cnv_LOC101929210	cnv	LOC101929210	NO	0
2741	cnv_OR7A5	cnv	OR7A5	YES	11
2742	cnv_SLC13A2	cnv	SLC13A2	YES	14
2742	stv_GLDN	stv	GLDN	YES	14
2743	stv_LRRC55	stv	LRRC55	YES	15
2744	stv_VSIG2	stv	VSIG2	YES	3
2744	stv_KIF24	stv	KIF24	YES	19
2745	meth_STAT6	meth	STAT6	YES	36
2746	meth_DNASE1	meth	DNASE1	YES	14
2746	mrna_TREM1	mrna	TREM1	YES	19
2747	mirna_MIR6850	mirna	MIR6850	NO	0
2749	stv_FMN1	stv	FMN1	YES	23
2750	stv_C16orf52	stv	C16orf52	YES	2
2752	mrna_RP11-140K17.3	mrna	RP11-140K17.3	NO	0
2753	mrna_COX16	mrna	COX16	YES	7
2754	cnv_STARD3	cnv	STARD3	YES	26
2754	meth_OPRK1	meth	OPRK1	YES	53
2755	meth_PCNXL2	meth	PCNXL2	YES	2
2756	cnv_DSCR8	cnv	DSCR8	YES	4
2757	cnv_HSD17B6	cnv	HSD17B6	YES	18
2757	cnv_PLEKHA7	cnv	PLEKHA7	YES	13
2758	mirna_MIR4787	mirna	MIR4787	NO	0
2758	mrna_RMDN2	mrna	RMDN2	YES	9
2759	stv_C1orf101	stv	C1orf101	YES	1
2760	cnv_KIAA1549L	cnv	KIAA1549L	YES	2
2760	cnv_SIRT6	cnv	SIRT6	YES	40
2761	meth_POP4	meth	POP4	YES	19
2762	stv_COQ6	stv	COQ6	YES	12
2763	cnv_LOC100506272	cnv	LOC100506272	NO	0
2764	stv_YME1L1	stv	YME1L1	YES	23
2764	stv_RP11-109N23.6	stv	RP11-109N23.6	NO	0
2765	stv_POMT1	stv	POMT1	YES	20
2766	cnv_LOC100131347	cnv	LOC100131347	NO	0
2766	meth_IFNAR2	meth	IFNAR2	YES	20
2768	mrna_DNMT3A	mrna	DNMT3A	YES	48
2768	mrna_SLC25A37	mrna	SLC25A37	YES	11
2769	stv_CTD-2118P12.1	stv	CTD-2118P12.1	NO	0
2770	stv_MADCAM1	stv	MADCAM1	YES	16
2771	cnv_C17orf58	cnv	C17orf58	YES	1
2772	stv_PSRC1	stv	PSRC1	YES	21
2773	mrna_CRADD	mrna	CRADD	YES	16
2775	stv_DST	stv	DST	YES	50
2776	cnv_ATG16L2	cnv	ATG16L2	YES	8
2776	stv_DNAH5	stv	DNAH5	YES	28
2777	stv_PLEKHG2	stv	PLEKHG2	YES	8
2778	mrna_TTC17	mrna	TTC17	YES	10

2780	cnv_TRAM2-AS1	cnv	TRAM2-AS1	NO	0
2783	mrna_WFDC3	mrna	WFDC3	YES	5
2784	meth_GTF3C5	meth	GTF3C5	YES	15
2784	mrna_GS1-44D20.1	mrna	GS1-44D20.1	NO	0
2785	mrna_ST13P5	mrna	ST13P5	NO	0
2785	stv_PACSIN3	stv	PACSIN3	YES	17
2786	mrna_RAET1E	mrna	RAET1E	YES	11
2786	stv_FAM57B	stv	FAM57B	YES	10
2787	mrna_DHRS13	mrna	DHRS13	YES	6
2788	mirna_MIR7	mirna	MIR7	NO	0
2789	cnv_DEFB1	cnv	DEFB1	YES	28
2790	cnv_ZNF101	cnv	ZNF101	YES	8
2791	cnv_DCTN2	cnv	DCTN2	YES	28
2792	meth_LINC01573	meth	LINC01573	NO	0
2792	stv_SOWAHB	stv	SOWAHB	YES	1
2793	meth_PRUNE	meth	PRUNE	YES	8
2794	mrna_MSL1	mrna	MSL1	YES	5
2795	cnv_WDR74	cnv	WDR74	YES	7
2795	mrna_NUDT19	mrna	NUDT19	YES	10
2798	cnv_FAM221A	cnv	FAM221A	NO	0
2799	cnv_TREML5P	cnv	TREML5P	NO	0
2800	cnv_AZIN2	cnv	AZIN2	YES	34
2800	mrna_ZNF549	mrna	ZNF549	YES	7
2802	cnv_LRIG3	cnv	LRIG3	YES	8
2802	mrna_AC098614.2	mrna	AC098614.2	NO	0
2804	cnv_LOC101927539	cnv	LOC101927539	NO	0
2804	mrna_LINC01124	mrna	LINC01124	NO	0
2806	cnv_FANCF	cnv	FANCF	YES	13
2807	cnv_FLJ38576	cnv	FLJ38576	NO	0
2807	mrna_FAM120C	mrna	FAM120C	YES	2
2808	meth_EIF4A3	meth	EIF4A3	YES	55
2808	stv_PRPF19	stv	PRPF19	YES	41
2809	mrna_AC009404.2	mrna	AC009404.2	NO	0
2809	stv_PGM5P4-AS1	stv	PGM5P4-AS1	NO	0
2810	mrna_SEC31A	mrna	SEC31A	YES	26
2811	meth_HLTF	meth	HLTF	YES	33
2813	meth_FAM50B	meth	FAM50B	YES	4
2813	mirna_MIR145	mirna	MIR145	YES	24
2814	cnv_INTS2	cnv	INTS2	YES	12
2814	cnv_TBC1D3P5	cnv	TBC1D3P5	NO	0
2815	cnv_MAST3	cnv	MAST3	YES	14
2815	stv_MYDGF	stv	MYDGF	YES	17
2816	cnv_NCOR1	cnv	NCOR1	YES	47
2816	mrna_CCDC6	mrna	CCDC6	YES	8
2817	cnv_LINC01095	cnv	LINC01095	NO	0
2817	meth_DNMT3A	meth	DNMT3A	YES	48
2818	stv_RPS9	stv	RPS9	YES	28
2819	meth_MGAT4C	meth	MGAT4C	YES	11
2820	mrna_ABCA4	mrna	ABCA4	YES	24
2822	cnv_POGLUT1	cnv	POGLUT1	YES	23
2824	cnv_ATG5	cnv	ATG5	YES	49
2824	cnv_CELA1	cnv	CELA1	YES	22

2826	cnv_RWDD2B	cnv	RWDD2B	YES	4
2826	mrna_LDLRAP1	mrna	LDLRAP1	YES	40
2827	mrna_TSGA10	mrna	TSGA10	YES	11
2827	mrna_NPY2R	mrna	NPY2R	YES	41
2828	meth_RP11-102N12.3	meth	RP11-102N12.3	NO	0
2829	cnv_TRIM25	cnv	TRIM25	YES	36
2829	stv_SPI1	stv	SPI1	YES	50
2830	mrna_DKFZp434J0226	mrna	DKFZp434J0226	NO	0
2831	mrna_RNASEL	mrna	RNASEL	YES	33
2831	stv_CRELD1	stv	CRELD1	YES	5
2832	mrna_ZNF79	mrna	ZNF79	YES	10
2834	stv_TOMM40	stv	TOMM40	YES	21
2834	stv_TFDP2	stv	TFDP2	YES	27
2836	cnv_SERTM1	cnv	SERTM1	YES	3
2837	stv_GABPB2	stv	GABPB2	YES	9
2837	stv_FOLH1	stv	FOLH1	YES	22
2838	cnv_RARA	cnv	RARA	YES	105
2839	meth_TCF7L2	meth	TCF7L2	YES	74
2841	mrna_C1orf228	mrna	C1orf228	YES	1
2841	stv_R3HDM4	stv	R3HDM4	YES	2
2842	cnv_NOX1	cnv	NOX1	YES	45
2842	stv_IGHV4-28	stv	IGHV4-28	YES	17
2844	meth_PABPN1	meth	PABPN1	YES	21
2844	mrna_PAXIP1	mrna	PAXIP1	YES	29
2845	cnv_LINC00314	cnv	LINC00314	NO	0
2848	cnv_GRIK3	cnv	GRIK3	YES	33
2849	meth_GNA12	meth	GNA12	YES	33
2849	meth_LAMC3	meth	LAMC3	YES	11
2851	cnv_ERAL1	cnv	ERAL1	YES	16
2852	cnv_LOC283214	cnv	LOC283214	NO	0
2852	mrna_PPIP5K1	mrna	PPIP5K1	YES	22
2853	mrna_PTPRN	mrna	PTPRN	YES	40
2854	cnv_LIN54	cnv	LIN54	YES	8
2856	stv_PRTN3	stv	PRTN3	YES	20
2857	mrna_LDHAP4	mrna	LDHAP4	NO	0
2857	stv_RAVER1	stv	RAVER1	YES	5
2858	cnv_HDHD3	cnv	HDHD3	YES	4
2859	cnv_SLC12A6	cnv	SLC12A6	YES	19
2860	mrna_MIR210HG	mrna	MIR210HG	NO	0
2862	stv_DOCK5	stv	DOCK5	YES	13
2864	cnv_UQCRFS1	cnv	UQCRFS1	YES	23
2864	mrna_LIN9	mrna	LIN9	YES	8
2866	mrna_CDC42EP5	mrna	CDC42EP5	YES	14
2867	meth_LRRC15	meth	LRRC15	YES	14
2867	stv_NOB1	stv	NOB1	YES	12
2868	mrna_TRAPPC2B	mrna	TRAPPC2B	NO	0
2868	stv_UNC5CL	stv	UNC5CL	YES	8
2869	mrna_PRKAR2A	mrna	PRKAR2A	YES	31
2870	mrna_ZNF267	mrna	ZNF267	YES	9
2871	mrna_TMEM80	mrna	TMEM80	YES	4
2873	mrna_ZNF135	mrna	ZNF135	YES	10
2876	cnv_LOC101928174	cnv	LOC101928174	NO	0

2876	mrna_AC144831.1	mrna	AC144831.1	NO	0
2877	mrna_WDR41	mrna	WDR41	YES	9
2878	stv_ZNF474	stv	ZNF474	YES	2
2880	mrna_KIF5A	mrna	KIF5A	YES	28
2881	mrna_CXCL6	mrna	CXCL6	YES	23
2882	mirna_MIR769	mirna	MIR769	YES	1
2883	mrna_DR1	mrna	DR1	YES	13
2884	mrna_GALNT11	mrna	GALNT11	YES	19
2884	mrna_SMIM13	mrna	SMIM13	YES	2
2885	cnv_CABIN1	cnv	CABIN1	YES	10
2885	mrna_FAM114A1	mrna	FAM114A1	YES	6
2886	mrna_ZNF100	mrna	ZNF100	YES	7
2886	stv_GNAL	stv	GNAL	YES	20
2887	cnv_CYB561	cnv	CYB561	YES	11
2888	cnv_HDAC1	cnv	HDAC1	YES	71
2890	stv_CETN1	stv	CETN1	YES	16
2891	mrna_RP1-239B22.5	mrna	RP1-239B22.5	NO	0
2892	cnv_ATP6V1A	cnv	ATP6V1A	YES	27
2893	mrna_CNNM2	mrna	CNNM2	YES	12
2894	cnv_MAP1S	cnv	MAP1S	YES	30
2894	stv_TGIF1	stv	TGIF1	YES	29
2895	meth_SLC22A6	meth	SLC22A6	YES	29
2895	stv_GOLGA6C	stv	GOLGA6C	YES	1
2896	meth_CLGN	meth	CLGN	YES	12
2896	mirna_MIR6892	mirna	MIR6892	NO	0
2897	mrna_LMCD1	mrna	LMCD1	YES	14
2897	stv_KLHL9	stv	KLHL9	YES	9
2898	cnv_KLHL10	cnv	KLHL10	YES	12
2899	mrna_CCRL2	mrna	CCRL2	YES	14
2900	mrna_ORC4	mrna	ORC4	YES	15
2901	mrna_CKAP5	mrna	CKAP5	YES	31
2902	cnv_PLA2G4B	cnv	PLA2G4B	YES	34
2902	cnv_SLCO2B1	cnv	SLCO2B1	YES	15
2903	cnv_TM9SF4	cnv	TM9SF4	YES	13
2903	stv_UGT3A1	stv	UGT3A1	YES	9
2904	meth_OCA2	meth	OCA2	YES	22
2905	cnv_SLC43A3	cnv	SLC43A3	YES	6
2906	mrna_MPHOSPH6	mrna	MPHOSPH6	YES	10
2907	meth_SLC29A1	meth	SLC29A1	YES	18
2907	stv_ZNF433	stv	ZNF433	YES	8
2908	mrna_ATG10	mrna	ATG10	YES	13
2909	mrna_DGCR5	mrna	DGCR5	NO	0
2910	cnv_COPRS	cnv	COPRS	YES	11
2911	cnv_WARS2	cnv	WARS2	YES	13
2911	cnv_ZBTB39	cnv	ZBTB39	YES	6
2913	cnv_LOC100505912	cnv	LOC100505912	NO	0
2913	mrna_CST4	mrna	CST4	YES	11
2914	mrna_LINC01550	mrna	LINC01550	NO	0
2916	stv_PIEZO1	stv	PIEZO1	YES	20
2917	stv_RP11-64C12.3	stv	RP11-64C12.3	NO	0
2918	cnv_SVEP1	cnv	SVEP1	YES	7
2919	cnv_LGALS12	cnv	LGALS12	YES	8

2920	cnv_CES1P2	cnv	CES1P2	NO	0
2921	cnv_HRASLS5	cnv	HRASLS5	YES	4
2921	cnv_PIAS4	cnv	PIAS4	YES	28
2922	cnv_LOC441242	cnv	LOC441242	NO	0
2924	mrna_NUPL1	mrna	NUPL1	YES	18
2925	mrna_PDCD4-AS1	mrna	PDCD4-AS1	NO	0
2926	stv_ADGRE1	stv	ADGRE1	YES	16
2927	cnv_SMAD9	cnv	SMAD9	YES	26
2930	stv_TARM1	stv	TARM1	YES	6
2931	stv_NBAT1	stv	NBAT1	NO	0
2934	cnv_IPCEF1	cnv	IPCEF1	YES	10
2934	mrna_ENO3	mrna	ENO3	YES	16
2937	mrna_LPAL2	mrna	LPAL2	NO	0
2937	stv_RP11-492D6.3	stv	RP11-492D6.3	NO	0
2938	stv_PTPN6	stv	PTPN6	YES	59
2939	meth_MFSD6	meth	MFSD6	YES	4
2940	mirna_MIR182	mirna	MIR182	YES	1
2942	meth_ALG5	meth	ALG5	YES	12
2942	mrna_ZNF746	mrna	ZNF746	YES	18
2943	cnv_SNORA21	cnv	SNORA21	NO	0
2944	stv_USP24	stv	USP24	YES	8
2945	mrna_INTS9	mrna	INTS9	YES	7
2949	cnv_RGS3	cnv	RGS3	YES	12
2949	mrna_IPO7	mrna	IPO7	YES	22
2950	stv_POMT2	stv	POMT2	YES	15
2951	cnv_APLNR	cnv	APLNR	YES	17
2951	meth_RILP	meth	RILP	YES	28
2953	cnv_GOLGA4	cnv	GOLGA4	YES	14
2954	mrna_PPL	mrna	PPL	YES	17
2955	mrna_EYA4	mrna	EYA4	YES	24
2956	mirna_MIR489	mirna	MIR489	NO	0
2957	mrna_C18orf54	mrna	C18orf54	YES	3
2958	meth_SLITRK3	meth	SLITRK3	YES	5
2959	meth_AL391839.1	meth	AL391839.1	NO	0
2963	mrna_RP11-141M3.6	mrna	RP11-141M3.6	NO	0
2964	cnv_KALRN	cnv	KALRN	YES	51
2964	mrna_ABCC11	mrna	ABCC11	YES	21
2965	mrna_MAP9	mrna	MAP9	YES	20
2965	stv_HEATR5A	stv	HEATR5A	YES	1
2966	meth_ELOVL5	meth	ELOVL5	YES	28
2967	cnv_DEFB112	cnv	DEFB112	YES	5
2967	mrna_PSMD5	mrna	PSMD5	YES	32
2968	cnv_IFT52	cnv	IFT52	YES	24
2968	cnv_LIN28B	cnv	LIN28B	YES	15
2970	stv_RP11-552J9.6	stv	RP11-552J9.6	NO	0
2971	cnv_SLC25A23	cnv	SLC25A23	YES	22
2971	mrna_IVD	mrna	IVD	YES	14
2972	mirna_MIR503	mirna	MIR503	YES	12
2973	meth_KRTCAP2	meth	KRTCAP2	YES	10
2973	mrna_SUZ12	mrna	SUZ12	YES	29
2974	mrna_APOD	mrna	APOD	YES	36
2975	cnv_CHIC1	cnv	CHIC1	YES	6

2977	mrna_SUPV3L1	mrna	SUPV3L1	YES	31
2978	stv_PARP15	stv	PARP15	YES	11
2980	cnv_CCT8	cnv	CCT8	YES	37
2980	stv_POLR2A	stv	POLR2A	YES	32
2981	cnv_SCOC-AS1	cnv	SCOC-AS1	NO	0
2983	cnv_PPME1	cnv	PPME1	YES	15
2983	mrna_QSER1	mrna	QSER1	NO	0
2984	cnv_CHD9	cnv	CHD9	YES	16
2985	stv_CACNA1F	stv	CACNA1F	YES	26
2986	meth_EGR3	meth	EGR3	YES	18
2986	stv_GCAT	stv	GCAT	YES	15
2987	meth_HLA-DQB1	meth	HLA-DQB1	YES	31
2988	cnv_SEPT4	cnv	SEPT4	YES	32
2988	mrna_BCYRN1	mrna	BCYRN1	NO	0
2990	cnv_SEPSECS	cnv	SEPSECS	YES	14
2990	stv_AC005033.6	stv	AC005033.6	NO	0
2991	cnv_KCNMB4	cnv	KCNMB4	YES	19
2991	cnv_TPST2	cnv	TPST2	YES	10
2993	mrna_AQP11	mrna	AQP11	YES	18
2996	cnv_FAM111A	cnv	FAM111A	YES	10
2997	cnv_USP16	cnv	USP16	YES	34
2998	mrna_THUMPD1	mrna	THUMPD1	YES	5
3000	cnv_MYO1D	cnv	MYO1D	YES	29
3000	mrna_MT-ATP8	mrna	MT-ATP8	YES	19
3001	stv_NUDT14	stv	NUDT14	YES	10
3001	stv_GNA11	stv	GNA11	YES	30
3003	mrna_LILRA2	mrna	LILRA2	YES	9
3004	meth_KCNJ10	meth	KCNJ10	YES	36
3006	meth_IZUMO1	meth	IZUMO1	YES	14
3007	stv_TRIM54	stv	TRIM54	YES	18
3008	mrna_LIN54	mrna	LIN54	YES	8
3008	stv_RP11-806L2.6	stv	RP11-806L2.6	NO	0
3009	cnv_TUT1	cnv	TUT1	YES	21
3009	meth_DMP1	meth	DMP1	YES	15
3010	mrna_AC016739.2	mrna	AC016739.2	NO	0
3010	stv_MYH7B	stv	MYH7B	YES	10
3011	mrna_PPP3R1	mrna	PPP3R1	YES	21
3012	mrna_SLC35F5	mrna	SLC35F5	YES	3
3014	cnv_RTN4RL2	cnv	RTN4RL2	YES	25
3015	meth_C6orf25	meth	C6orf25	YES	5
3016	meth_UCP3	meth	UCP3	YES	26
3016	stv_PNMT	stv	PNMT	YES	7
3017	stv_ZNF761	stv	ZNF761	YES	4
3018	cnv_SMIM20	cnv	SMIM20	YES	6
3019	stv_PLXNA2	stv	PLXNA2	YES	20
3020	cnv_IPO8	cnv	IPO8	YES	15
3021	mrna_ZNF561-AS1	mrna	ZNF561-AS1	NO	0
3022	cnv_SAMD15	cnv	SAMD15	YES	3
3025	meth_TGFB2	meth	TGFB2	YES	119
3025	mirna_MIR8072	mirna	MIR8072	NO	0
3026	mrna_MMP25	mrna	MMP25	YES	18
3027	meth_SLC22A11	meth	SLC22A11	YES	22

3028	cnv_GBA3	cnv	GBA3	YES	2
3030	cnv_LOC339975	cnv	LOC339975	NO	0
3032	mrna_RALGAPA1P	mrna	RALGAPA1P	NO	0
3035	cnv_LASP1	cnv	LASP1	YES	17
3036	mrna_MPC2	mrna	MPC2	YES	12
3038	mrna_PHYKPL	mrna	PHYKPL	YES	12
3038	mrna_AKR1B15	mrna	AKR1B15	YES	8
3040	cnv_KLC2	cnv	KLC2	YES	15
3043	mrna_RP11-116O18.1	mrna	RP11-116O18.1	NO	0
3043	stv_FAM217A	stv	FAM217A	NO	0
3045	stv_DHRS4L2	stv	DHRS4L2	YES	3
3045	stv_TECPR2	stv	TECPR2	YES	3
3046	stv_ANKRD30B	stv	ANKRD30B	YES	4
3047	meth_SEPHS1	meth	SEPHS1	YES	16
3047	mrna_LRRC26	mrna	LRRC26	YES	19
3048	cnv_LINC00113	cnv	LINC00113	NO	0
3050	cnv_JPX	cnv	JPX	NO	0
3050	stv_IFITM3	stv	IFITM3	YES	22
3051	stv_KIR2DS4	stv	KIR2DS4	YES	5
3052	mrna_CLDN23	mrna	CLDN23	YES	9
3053	cnv_ZFYVE19	cnv	ZFYVE19	YES	15
3054	mrna_ZC3HC1	mrna	ZC3HC1	YES	10
3055	cnv_TFEB	cnv	TFEB	YES	18
3055	meth_RBM15	meth	RBM15	YES	16
3056	mrna_ICOSLG	mrna	ICOSLG	YES	15
3057	mirna_MIR549A	mirna	MIR549A	NO	0
3058	cnv_AKAP1	cnv	AKAP1	YES	11
3058	stv_DENND6B	stv	DENND6B	YES	8
3059	mirna_MIR16	mirna	MIR16	NO	0
3059	mrna_WDFY1	mrna	WDFY1	YES	11
3061	mrna_MAFK	mrna	MAFK	YES	15
3062	cnv_NACA	cnv	NACA	YES	22
3062	mrna_RP1-80N2.3	mrna	RP1-80N2.3	NO	0
3063	stv_CRYBG3	stv	CRYBG3	YES	1
3068	cnv_TEX14	cnv	TEX14	YES	25
3068	mrna_NEIL1	mrna	NEIL1	YES	26
3070	meth_C10orf95	meth	C10orf95	YES	1
3071	meth_CNRIP1	meth	CNRIP1	YES	1
3073	stv_TCF25	stv	TCF25	YES	10
3074	cnv_LOC100506944	cnv	LOC100506944	NO	0
3076	cnv_ESRRB	cnv	ESRRB	YES	42
3078	mrna_ALOX5	mrna	ALOX5	YES	28
3079	mrna_ACMSD	mrna	ACMSD	YES	16
3080	mrna_SMG8	mrna	SMG8	YES	8
3081	cnv_CSRNP1	cnv	CSRNP1	YES	17
3082	cnv_ARID5A	cnv	ARID5A	YES	22
3082	mirna_MIR585	mirna	MIR585	NO	0
3083	cnv_MARCH2	cnv	MARCH2	YES	16
3084	meth_CYP46A1	meth	CYP46A1	YES	23
3085	meth_CLIC5	meth	CLIC5	YES	21
3085	mrna_RP13-942N8.1	mrna	RP13-942N8.1	NO	0
3086	stv_CACNB1	stv	CACNB1	YES	17

3087	cnv_SMARCAD1	cnv	SMARCAD1	YES	28
3087	stv_DCDC2	stv	DCDC2	YES	20
3088	cnv_FAM60A	cnv	FAM60A	YES	4
3089	cnv_FIGNL2	cnv	FIGNL2	YES	5
3089	meth_CSTF3	meth	CSTF3	YES	14
3090	cnv_SPTBN5	cnv	SPTBN5	YES	25
3090	meth_EHBP1	meth	EHBP1	YES	8
3091	mrna_CCDC162P	mrna	CCDC162P	NO	0
3092	cnv_PPP3CC	cnv	PPP3CC	YES	11
3093	stv_MTOR	stv	MTOR	YES	150
3094	meth_AC004156.3	meth	AC004156.3	NO	0
3095	stv_WDR1	stv	WDR1	YES	33
3096	cnv_FIBIN	cnv	FIBIN	YES	3
3097	mrna_FAM220A	mrna	FAM220A	YES	5
3098	mrna_DDX42	mrna	DDX42	YES	20
3099	stv_ERP27	stv	ERP27	YES	3
3100	cnv_ZNF154	cnv	ZNF154	YES	9
3101	mrna_PSKH1	mrna	PSKH1	YES	27
3102	cnv_TAOK1	cnv	TAOK1	YES	27
3102	stv_CNIH2	stv	CNIH2	YES	28
3103	stv_AC068533.7	stv	AC068533.7	NO	0
3104	cnv_TMTC1	cnv	TMTC1	YES	5
3105	cnv_MANSC4	cnv	MANSC4	YES	2
3106	meth_CTA-293F17.1	meth	CTA-293F17.1	NO	0
3107	mrna_ZNF41	mrna	ZNF41	YES	9
3108	cnv_RIPK1	cnv	RIPK1	YES	79
3109	cnv_DLL4	cnv	DLL4	YES	43
3110	cnv_SLC46A1	cnv	SLC46A1	YES	23
3112	cnv_WIPF2	cnv	WIPF2	YES	6
3112	mrna_GALNT6	mrna	GALNT6	YES	13
3113	cnv_PGM2	cnv	PGM2	YES	22
3113	mirna_MIR577	mirna	MIR577	NO	0
3114	cnv_THRB-AS1	cnv	THRB-AS1	NO	0
3116	stv_TGM4	stv	TGM4	YES	9
3117	mrna_AC093642.5	mrna	AC093642.5	NO	0
3120	cnv_CCR8	cnv	CCR8	YES	16
3121	meth_ASPH	meth	ASPH	YES	45
3121	mrna_ETNK1	mrna	ETNK1	YES	16
3122	cnv_PPM1H	cnv	PPM1H	YES	8
3124	cnv_FMN1	cnv	FMN1	YES	23
3125	mrna_CEP41	mrna	CEP41	YES	19
3126	mrna_SFXN3	mrna	SFXN3	YES	10
3128	cnv_TIMMDC1	cnv	TIMMDC1	YES	9
3129	cnv_SRRM1	cnv	SRRM1	YES	18
3130	meth_COG5	meth	COG5	YES	14
3131	cnv_SERPINB9	cnv	SERPINB9	YES	24
3132	meth_DLX4	meth	DLX4	YES	10
3133	cnv_RAB14	cnv	RAB14	YES	46
3134	stv_KRTAP5-7	stv	KRTAP5-7	YES	4
3134	stv_TBX18	stv	TBX18	YES	23
3135	cnv_ORAOV1	cnv	ORAOV1	YES	10
3135	mrna_RRAGB	mrna	RRAGB	YES	24

3136	mrna_SMARCA1	mrna	SMARCA1	YES	30
3137	meth_THAP7	meth	THAP7	YES	15
3138	cnv_C22orf15	cnv	C22orf15	NO	0
3139	meth_AC239868.1	meth	AC239868.1	NO	0
3140	meth_CACNG7	meth	CACNG7	YES	17
3140	mrna_TBC1D31	mrna	TBC1D31	YES	4
3144	cnv_CMTM8	cnv	CMTM8	YES	13
3145	meth_ILDR2	meth	ILDR2	YES	9
3146	cnv_DYNC1LI1	cnv	DYNC1LI1	YES	35
3147	mrna_CBR4	mrna	CBR4	YES	19
3148	cnv_POLR2G	cnv	POLR2G	YES	27
3149	cnv_LINC01571	cnv	LINC01571	NO	0
3149	mrna_ERMN	mrna	ERMN	YES	15
3150	mrna_LOH12CR1	mrna	LOH12CR1	NO	0
3151	mirna_MIR101	mirna	MIR101	NO	0
3152	mrna_SLC22A18AS	mrna	SLC22A18AS	YES	3
3154	mrna_ALDH5A1	mrna	ALDH5A1	YES	27
3155	cnv_SP7	cnv	SP7	YES	17
3157	mirna_MIR6715B	mirna	MIR6715B	NO	0
3158	meth_PACS1	meth	PACS1	YES	9
3159	mrna_RP11-689P11.2	mrna	RP11-689P11.2	NO	0
3160	cnv_CNOT10	cnv	CNOT10	YES	13
3161	mrna_GLRA3	mrna	GLRA3	YES	30
3162	meth_AC002064.7	meth	AC002064.7	NO	0
3163	mrna_B4GALNT1	mrna	B4GALNT1	YES	19
3164	mrna_RP11-407N17.6	mrna	RP11-407N17.6	NO	0
3166	stv_TMEM234	stv	TMEM234	YES	3
3168	stv_ATF5	stv	ATF5	YES	39
3169	cnv_DSCR10	cnv	DSCR10	NO	0
3171	stv_CD5	stv	CD5	YES	14
3173	cnv_SLC6A2	cnv	SLC6A2	YES	24
3174	stv_MLLT3	stv	MLLT3	YES	13
3175	stv_AC006538.4	stv	AC006538.4	NO	0
3176	mrna_MYRF	mrna	MYRF	YES	23
3179	cnv_MRPS17	cnv	MRPS17	YES	13
3179	meth_MLXIPL	meth	MLXIPL	YES	35
3180	mrna_TMEM163	mrna	TMEM163	YES	10
3181	meth_LECT2	meth	LECT2	YES	8
3182	mrna_CCDC151	mrna	CCDC151	YES	14
3183	stv_PLXDC1	stv	PLXDC1	YES	15
3184	cnv_TSGA10IP	cnv	TSGA10IP	YES	1
3184	mrna_TBX6	mrna	TBX6	YES	21
3187	mrna_GATAD1	mrna	GATAD1	YES	8
3187	stv_PRDM10	stv	PRDM10	YES	10
3188	cnv_C17orf75	cnv	C17orf75	YES	3
3189	cnv_HAO2	cnv	HAO2	YES	17
3190	meth_LBX1	meth	LBX1	YES	19
3190	stv_HSD17B14	stv	HSD17B14	YES	12
3191	mrna_RASGRF1	mrna	RASGRF1	YES	25
3192	stv_NDUFS8	stv	NDUFS8	YES	17
3194	stv_RP11-613M10.9	stv	RP11-613M10.9	NO	0
3195	mirna_MIR2116	mirna	MIR2116	NO	0

3195	stv_PACS1	stv	PACS1	YES	9
3196	mrna_AQP9	mrna	AQP9	YES	39
3197	mirna_MIR4762	mirna	MIR4762	NO	0
3198	stv_PRX	stv	PRX	YES	8
3199	stv_CD70	stv	CD70	YES	17
3201	meth_COX7A2	meth	COX7A2	YES	8
3202	cnv_PPARGC1A	cnv	PPARGC1A	YES	127
3203	cnv_PCDH19	cnv	PCDH19	YES	10
3204	mirna_MIR6772	mirna	MIR6772	NO	0
3204	stv_OAZ1	stv	OAZ1	YES	13
3205	cnv_RBMS2	cnv	RBMS2	YES	5
3208	cnv_SNX10	cnv	SNX10	YES	25
3209	mrna_LRRC49	mrna	LRRC49	YES	3
3211	mrna_GDF7	mrna	GDF7	YES	31
3211	stv_KRT6C	stv	KRT6C	YES	9
3212	stv_GIMAP1-GIMAP5	stv	GIMAP1-GIMAP5	YES	4
3213	mrna_RBM28	mrna	RBM28	YES	8
3214	meth_AC002116.7	meth	AC002116.7	NO	0
3214	mrna_MBTPS1	mrna	MBTPS1	YES	28
3218	cnv_CXCL6	cnv	CXCL6	YES	23
3219	cnv_ZCCHC17	cnv	ZCCHC17	YES	9
3222	stv_MTHFR	stv	MTHFR	YES	27
3224	mrna_CES2	mrna	CES2	YES	8
3225	mrna_SEC63P1	mrna	SEC63P1	NO	0
3226	cnv_NXPH4	cnv	NXPH4	YES	5
3226	mrna_THUMPD3	mrna	THUMPD3	YES	8
3227	meth_CLUHP3	meth	CLUHP3	NO	0
3230	stv_F2	stv	F2	YES	58
3232	cnv_PTP4A2	cnv	PTP4A2	YES	17
3232	stv_FAM162B	stv	FAM162B	YES	2
3234	cnv_PLK4	cnv	PLK4	YES	27
3235	mrna_LURAP1L	mrna	LURAP1L	NO	0
3236	mrna_NR2F1	mrna	NR2F1	YES	24
3237	mrna_RP1-232P20.1	mrna	RP1-232P20.1	NO	0
3240	mrna_RP11-968O1.5	mrna	RP11-968O1.5	NO	0
3241	meth_WFDC10A	meth	WFDC10A	YES	5
3242	mrna_TXNRD1	mrna	TXNRD1	YES	44
3243	mrna_AC009487.6	mrna	AC009487.6	NO	0
3243	stv_CNKSR3	stv	CNKSR3	YES	8
3244	stv_GOLGA8J	stv	GOLGA8J	YES	1
3245	cnv_CADM2-AS2	cnv	CADM2-AS2	NO	0
3245	stv_CEP72	stv	CEP72	YES	15
3248	mrna_KPNA2	mrna	KPNA2	YES	21
3249	stv_C8orf44	stv	C8orf44	YES	1
3250	cnv_LOC100288842	cnv	LOC100288842	NO	0
3250	cnv_XKR7	cnv	XKR7	YES	2
3251	mrna_LINC00863	mrna	LINC00863	NO	0
3251	stv_FLT4	stv	FLT4	YES	49
3252	mrna_CTD-2023N9.1	mrna	CTD-2023N9.1	NO	0
3252	stv_GLI2	stv	GLI2	YES	91
3253	stv_RP11-480D4.2	stv	RP11-480D4.2	NO	0
3254	cnv_ACTC1	cnv	ACTC1	YES	35

3254	mrna_TULP3	mrna	TULP3	YES	41
3255	mrna_RP11-39H3.2	mrna	RP11-39H3.2	NO	0
3256	mrna_FAM178A	mrna	FAM178A	NO	0
3257	cnv_LOC101929694	cnv	LOC101929694	NO	0
3257	stv_CHD3	stv	CHD3	YES	30
3258	cnv_ARID2	cnv	ARID2	YES	20
3258	mrna_TFCP2	mrna	TFCP2	YES	15
3259	mrna_C6orf223	mrna	C6orf223	NO	0
3261	mrna_NFYC	mrna	NFYC	YES	23
3262	cnv_ARMCX4	cnv	ARMCX4	YES	3
3262	mrna_RAPGEF4	mrna	RAPGEF4	YES	25
3267	mrna_C21orf33	mrna	C21orf33	YES	1
3268	mrna_C11orf70	mrna	C11orf70	NO	0
3270	mrna_EIF1	mrna	EIF1	YES	10
3270	mrna_FTH1P23	mrna	FTH1P23	NO	0
3272	meth_PPDPF	meth	PPDPF	YES	4
3273	meth_ZKSCAN3	meth	ZKSCAN3	YES	23
3275	mrna_NAA15	mrna	NAA15	YES	21
3277	mrna_KRT7	mrna	KRT7	YES	11
3279	mrna_FAM179B	mrna	FAM179B	YES	1
3280	cnv_INSL3	cnv	INSL3	YES	18
3280	mrna_ACADSB	mrna	ACADSB	YES	12
3281	mrna_EIF5AL1	mrna	EIF5AL1	YES	17
3283	mrna_CHAC1	mrna	CHAC1	YES	19
3286	meth_TBPL2	meth	TBPL2	YES	9
3287	cnv_CX3CR1	cnv	CX3CR1	YES	37
3288	meth_CRYBA2	meth	CRYBA2	YES	7
3289	cnv_MPV17L2	cnv	MPV17L2	YES	7
3291	mirna_MIR17	mirna	MIR17	YES	17
3293	cnv_ANO3	cnv	ANO3	YES	16
3293	cnv_MAP2K3	cnv	MAP2K3	YES	34
3294	cnv_RHOT1	cnv	RHOT1	YES	26
3295	mrna_TUBGCP4	mrna	TUBGCP4	YES	25
3297	mrna_CTD-2325P2.4	mrna	CTD-2325P2.4	NO	0
3298	cnv_SEPSECS-AS1	cnv	SEPSECS-AS1	NO	0
3299	mrna_UBE2J1	mrna	UBE2J1	YES	17
3300	stv_HSPA2	stv	HSPA2	YES	37
3301	cnv_STARD13	cnv	STARD13	YES	15
3304	mrna_UBE2G1	mrna	UBE2G1	YES	15
3305	mrna_ECHDC2	mrna	ECHDC2	YES	8
3307	meth_PARM1	meth	PARM1	YES	13
3311	mrna_MTBP	mrna	MTBP	YES	8
3312	cnv_OTOGL	cnv	OTOGL	YES	4
3312	mrna_TNNI3	mrna	TNNI3	YES	33
3313	meth_RPLP2	meth	RPLP2	YES	19
3315	meth_SUN1	meth	SUN1	YES	26
3316	stv_TNK1	stv	TNK1	YES	25
3317	stv_CRCP	stv	CRCP	YES	23
3318	mrna_REEP6	mrna	REEP6	YES	13
3319	cnv_PIWIL2	cnv	PIWIL2	YES	35
3321	stv_KRT76	stv	KRT76	YES	12
3321	stv_RBPJL	stv	RBPJL	YES	16

3322	cnv_NOL11	cnv	NOL11	YES	12
3322	meth_NHLH1	meth	NHLH1	YES	13
3323	cnv_ZBTB8OS	cnv	ZBTB8OS	YES	6
3323	stv_ABCC8	stv	ABCC8	YES	48
3324	cnv_ALPL	cnv	ALPL	YES	30
3325	cnv_F11	cnv	F11	YES	19
3325	stv_THBS3	stv	THBS3	YES	10
3326	stv_DOC2A	stv	DOC2A	YES	23
3328	cnv_OR7C2	cnv	OR7C2	YES	11
3329	stv_VLDLR	stv	VLDLR	YES	37
3330	cnv_TRIM71	cnv	TRIM71	YES	29
3330	mrna_TSSK5P	mrna	TSSK5P	NO	0
3331	stv_RP11-284P20.3	stv	RP11-284P20.3	NO	0
3333	cnv_CLPB	cnv	CLPB	YES	12
3334	stv_ANO4	stv	ANO4	YES	16
3335	cnv_HIST1H2AB	cnv	HIST1H2AB	YES	9
3335	mrna_PHYHD1	mrna	PHYHD1	YES	5
3338	cnv_POPDC3	cnv	POPDC3	YES	7
3339	stv_GID4	stv	GID4	YES	3
3340	cnv_GPR108	cnv	GPR108	YES	2
3340	meth_UST	meth	UST	YES	12
3341	cnv_LOC149950	cnv	LOC149950	NO	0
3341	meth_UGT8	meth	UGT8	YES	21
3343	cnv_INTS4P2	cnv	INTS4P2	NO	0
3343	stv_NFIC	stv	NFIC	YES	17
3344	cnv_LOC105375205	cnv	LOC105375205	NO	0
3347	mrna_BCL9L	mrna	BCL9L	YES	16
3347	mrna_UTP14C	mrna	UTP14C	YES	12
3348	stv_AMPH	stv	AMPH	YES	16
3351	cnv_ARAP1	cnv	ARAP1	YES	25
3352	mrna_ZNF17	mrna	ZNF17	YES	7
3352	mrna_RP11-211G3.2	mrna	RP11-211G3.2	NO	0
3353	meth_MFSD2A	meth	MFSD2A	YES	20
3354	stv_EGFLAM	stv	EGFLAM	YES	12
3355	cnv_PRICKLE4	cnv	PRICKLE4	YES	5
3356	mrna_DLGAP1-AS1	mrna	DLGAP1-AS1	NO	0
3356	stv_DCD	stv	DCD	YES	12
3358	mrna_MAGOHB	mrna	MAGOHB	YES	17
3359	mirna_MIR486	mirna	MIR486	NO	0
3359	stv_MEN1	stv	MEN1	YES	66
3360	stv_CYB5D1	stv	CYB5D1	YES	2
3361	meth_FAU	meth	FAU	YES	24
3361	meth_GNAS-AS1	meth	GNAS-AS1	NO	0
3362	stv_OPLAH	stv	OPLAH	YES	9
3363	meth_HSD17B4	meth	HSD17B4	YES	29
3364	cnv_VPS18	cnv	VPS18	YES	30
3366	mirna_MIR548Q	mirna	MIR548Q	NO	0
3368	cnv_MEIS3P1	cnv	MEIS3P1	NO	0
3369	cnv_CHCHD2	cnv	CHCHD2	YES	10
3369	mrna_GATM	mrna	GATM	YES	17
3370	cnv_TMEM11	cnv	TMEM11	YES	9
3372	mrna_AQR	mrna	AQR	YES	11

3373	stv_CTD-3023L14.1	stv	CTD-3023L14.1	NO	0
3374	stv_ZDHHC11B	stv	ZDHHC11B	YES	5
3375	meth_STX1B	meth	STX1B	YES	42
3377	cnv_WARSP1	cnv	WARSP1	NO	0
3378	meth_ESYT3	meth	ESYT3	YES	15
3378	mrna_LTV1	mrna	LTV1	YES	10
3379	meth_LENG8	meth	LENG8	YES	1
3383	mrna_ATP2B2	mrna	ATP2B2	YES	53
3384	cnv_ADGRE2	cnv	ADGRE2	YES	19
3384	cnv_PI4K2B	cnv	PI4K2B	YES	16
3385	cnv_SOX4	cnv	SOX4	YES	60
3386	mrna_ANKRD50	mrna	ANKRD50	YES	5
3387	cnv_CCDC73	cnv	CCDC73	NO	0
3388	cnv_HORMAD2	cnv	HORMAD2	YES	5
3388	mrna_ICK	mrna	ICK	YES	29
3390	mrna_LPHN1	mrna	LPHN1	YES	21
3391	cnv_PSPH	cnv	PSPH	YES	18
3393	mrna_NTN1	mrna	NTN1	YES	23
3394	meth_PRPF3	meth	PRPF3	YES	16
3394	stv_CDAN1	stv	CDAN1	YES	12
3395	cnv_C4orf33	cnv	C4orf33	YES	1
3395	mrna_ZNF180	mrna	ZNF180	YES	8
3396	cnv_DNMT3B	cnv	DNMT3B	YES	36
3397	cnv_CFAP44-AS1	cnv	CFAP44-AS1	NO	0
3397	meth_C1RL	meth	C1RL	YES	11
3400	cnv_C17orf67	cnv	C17orf67	YES	2
3401	cnv_ZSCAN20	cnv	ZSCAN20	YES	8
3402	stv_CLCN7	stv	CLCN7	YES	19
3403	stv_USP31	stv	USP31	YES	9
3404	cnv_YAF2	cnv	YAF2	YES	11
3406	stv_OR2W1	stv	OR2W1	YES	11
3407	mrna_PDCD11	mrna	PDCD11	YES	14
3408	stv_PBX1	stv	PBX1	YES	39
3410	mrna_CYP27A1	mrna	CYP27A1	YES	19
3411	mrna_CFAP45	mrna	CFAP45	YES	4
3412	cnv_ZMYM6	cnv	ZMYM6	YES	12
3414	mrna_TSKU	mrna	TSKU	YES	12
3415	cnv_OR5M1	cnv	OR5M1	YES	12
3416	cnv_NFKBIZ	cnv	NFKBIZ	YES	9
3418	meth_HSD17B8	meth	HSD17B8	YES	22
3418	mrna_INPP5J	mrna	INPP5J	YES	20
3419	meth_SVOPL	meth	SVOPL	YES	6
3420	stv_ZNF595	stv	ZNF595	YES	4
3422	stv_ZIM3	stv	ZIM3	YES	8
3423	mrna_ZNF691	mrna	ZNF691	YES	4
3424	cnv_RAX2	cnv	RAX2	YES	13
3425	meth_SYS1-DBNDD2	meth	SYS1-DBNDD2	YES	8
3425	mrna_NAP1L4P1	mrna	NAP1L4P1	NO	0
3427	mrna_SLC9A7	mrna	SLC9A7	YES	27
3428	stv_FRMD1	stv	FRMD1	YES	1
3429	cnv_LAS1L	cnv	LAS1L	YES	13
3432	stv_DDB1	stv	DDB1	YES	44

3433	mrna_ACSS1	mrna	ACSS1	YES	15
3435	cnv_HACD2	cnv	HACD2	YES	20
3436	cnv_LOC105373237	cnv	LOC105373237	NO	0
3439	meth_GATA6	meth	GATA6	YES	68
3439	stv_RRAD	stv	RRAD	YES	12
3440	cnv_PDE4C	cnv	PDE4C	YES	11
3442	cnv_PIK3C2A	cnv	PIK3C2A	YES	35
3442	mrna_METTL2B	mrna	METTL2B	YES	7
3443	stv_TUBB6	stv	TUBB6	YES	14
3446	stv_DNAI1	stv	DNAI1	YES	21
3447	cnv_HPGDS	cnv	HPGDS	YES	21
3448	cnv_UTP6	cnv	UTP6	YES	9
3448	stv_ST7	stv	ST7	YES	2
3449	mrna_IDI1	mrna	IDI1	YES	16
3450	meth_MSH4	meth	MSH4	YES	19
3450	mrna_CCNO	mrna	CCNO	YES	14
3453	stv_SNTB2	stv	SNTB2	YES	17
3454	cnv_STK31	cnv	STK31	YES	14
3455	mrna_GFRA1	mrna	GFRA1	YES	18
3456	stv_MTMR11	stv	MTMR11	YES	2
3457	cnv_NRSN1	cnv	NRSN1	YES	9
3458	meth_LPP	meth	LPP	YES	11
3458	stv_TK1	stv	TK1	YES	23
3459	cnv_ALG5	cnv	ALG5	YES	12
3460	stv_L3MBTL1	stv	L3MBTL1	YES	26
3461	cnv_SDR9C7	cnv	SDR9C7	YES	6
3462	meth_BRD1	meth	BRD1	YES	11
3464	cnv_SEZ6	cnv	SEZ6	YES	18
3465	stv_PPT2-EGFL8	stv	PPT2-EGFL8	YES	6
3468	stv_AL645922.1	stv	AL645922.1	NO	0
3469	mrna_AK4	mrna	AK4	YES	27
3470	mrna_KIAA0319	mrna	KIAA0319	YES	13
3470	mrna_TMEM139	mrna	TMEM139	YES	3
3471	cnv_CPM	cnv	CPM	YES	21
3471	meth_CNOT4	meth	CNOT4	YES	15
3472	cnv_PIGP	cnv	PIGP	YES	10
3473	cnv_PVT1	cnv	PVT1	NO	0
3474	mirna_MIR3662	mirna	MIR3662	NO	0
3475	mrna_SMARCA5	mrna	SMARCA5	YES	34
3480	mrna_CH17-431G21.1	mrna	CH17-431G21.1	NO	0
3482	mrna_HOXC9	mrna	HOXC9	YES	12
3482	mrna_SMIM7	mrna	SMIM7	YES	2
3483	cnv_PEX26	cnv	PEX26	YES	13
3484	meth_GALK1	meth	GALK1	YES	19
3485	mrna_GPC4	mrna	GPC4	YES	21
3486	cnv_BCAS3	cnv	BCAS3	YES	37
3486	mrna_WWC3	mrna	WWC3	YES	6
3488	cnv_LOC388813	cnv	LOC388813	NO	0
3488	cnv_WDR48	cnv	WDR48	YES	24
3489	mrna_TMEM260	mrna	TMEM260	YES	2
3490	cnv_CCND3	cnv	CCND3	YES	21
3490	mrna_MTND2P28	mrna	MTND2P28	NO	0

3491	mrna_BNIP3	mrna	BNIP3	YES	65
3492	cnv_VOPP1	cnv	VOPP1	YES	10
3494	stv_EIF4G2	stv	EIF4G2	YES	23
3498	meth_CSRNP2	meth	CSRNP2	YES	13
3499	meth_RP11-670E13.6	meth	RP11-670E13.6	NO	0
3499	meth_SLC2A4	meth	SLC2A4	YES	46
3500	mrna_WDR77	mrna	WDR77	YES	17
3500	mrna_WARS2	mrna	WARS2	YES	13
3501	mrna_CDC40	mrna	CDC40	YES	13
3502	cnv_EIF1B	cnv	EIF1B	YES	7
3503	mrna_NOL11	mrna	NOL11	YES	12
3503	stv_IGLC7	stv	IGLC7	YES	1
3506	mrna_MTO1	mrna	MTO1	YES	9
3508	cnv_LOC101927282	cnv	LOC101927282	NO	0
3510	cnv_GPLD1	cnv	GPLD1	YES	43
3513	cnv_SLC38A2	cnv	SLC38A2	YES	24
3513	cnv_SLC6A15	cnv	SLC6A15	YES	20
3514	cnv_DCDC2	cnv	DCDC2	YES	20
3515	mrna_GLB1L	mrna	GLB1L	YES	9
3517	stv_RASSF7	stv	RASSF7	YES	7
3518	mrna_RPA3	mrna	RPA3	YES	34
3519	mrna_ANO5	mrna	ANO5	YES	12
3520	mrna_IGKV1-6	mrna	IGKV1-6	YES	9
3522	cnv_GBAS	cnv	GBAS	YES	7
3523	cnv_C11orf68	cnv	C11orf68	YES	2
3523	cnv_TIMELESS	cnv	TIMELESS	YES	28
3525	cnv_VIPAS39	cnv	VIPAS39	YES	21
3526	mrna_RP11-483P21.2	mrna	RP11-483P21.2	NO	0
3526	stv_LMNTD2	stv	LMNTD2	YES	1
3528	cnv_MBOAT4	cnv	MBOAT4	YES	10
3528	cnv_STARD13-AS	cnv	STARD13-AS	NO	0
3530	cnv_RIN1	cnv	RIN1	YES	12
3531	cnv_KBTBD11	cnv	KBTBD11	YES	3
3532	cnv_HOXA6	cnv	HOXA6	YES	10
3532	mrna_SSU72	mrna	SSU72	YES	13
3533	stv_IGHV3-38	stv	IGHV3-38	YES	12
3534	mirna_MIR6726	mirna	MIR6726	NO	0
3537	cnv_MGAT4D	cnv	MGAT4D	YES	15
3537	stv_RRH	stv	RRH	YES	15
3539	meth_AC130469.1	meth	AC130469.1	NO	0
3540	meth_SLC25A31	meth	SLC25A31	YES	13
3541	meth_CAT	meth	CAT	YES	75
3542	stv_PMS1	stv	PMS1	YES	13
3544	mirna_MIR5581	mirna	MIR5581	NO	0
3544	stv_LIPE	stv	LIPE	YES	21
3546	mrna_SLC44A1	mrna	SLC44A1	YES	13
3550	cnv_WNT4	cnv	WNT4	YES	87
3550	mrna_ZSCAN1	mrna	ZSCAN1	YES	10
3551	stv_ORC1	stv	ORC1	YES	19
3552	meth_RNASEH1	meth	RNASEH1	YES	16
3554	cnv_SORBS2	cnv	SORBS2	YES	23
3554	mrna_COL9A2	mrna	COL9A2	YES	9

3557	mrna_KIF15	mrna	KIF15	YES	21
3557	mrna_DSCAML1	mrna	DSCAML1	YES	17
3559	cnv_MAP6	cnv	MAP6	YES	12
3559	cnv_SKAP2	cnv	SKAP2	YES	11
3560	mrna_DARS-AS1	mrna	DARS-AS1	NO	0
3562	meth_PEAK1	meth	PEAK1	YES	19
3563	meth_CLDN20	meth	CLDN20	YES	9
3564	mrna_H2AFY2	mrna	H2AFY2	YES	25
3568	cnv_NOS2	cnv	NOS2	YES	53
3570	mirna_MIR4728	mirna	MIR4728	NO	0
3574	meth_RSRP1	meth	RSRP1	YES	1
3574	mrna_ZNF425	mrna	ZNF425	YES	10
3575	stv_STEAP3	stv	STEAP3	YES	24
3576	meth_PGBD1	meth	PGBD1	YES	7
3576	stv_RASAL2	stv	RASAL2	YES	11
3577	cnv_TNFAIP1	cnv	TNFAIP1	YES	20
3577	meth_AMPD1	meth	AMPD1	YES	12
3579	mrna_TRA2B	mrna	TRA2B	YES	24
3580	mrna_UMAD1	mrna	UMAD1	NO	0
3581	meth_STXBP3	meth	STXBP3	YES	27
3582	stv_PTGIS	stv	PTGIS	YES	37
3584	mrna_REPS1	mrna	REPS1	YES	10
3585	mrna_CLTC	mrna	CLTC	YES	61
3587	cnv_LOC100128531	cnv	LOC100128531	NO	0
3589	mrna_IGHV3-13	mrna	IGHV3-13	YES	20
3590	cnv_GGT5	cnv	GGT5	YES	20
3591	cnv_LOC101927120	cnv	LOC101927120	NO	0
3591	stv_FLRT1	stv	FLRT1	YES	32
3592	cnv_N4BP2L2-IT2	cnv	N4BP2L2-IT2	NO	0
3592	meth_CYP27A1	meth	CYP27A1	YES	19
3594	cnv_MRRF	cnv	MRRF	YES	6
3594	stv_TRAF2	stv	TRAF2	YES	74
3595	cnv_CSAD	cnv	CSAD	YES	12
3597	mrna_LARP4	mrna	LARP4	YES	14
3600	mirna_MIR3922	mirna	MIR3922	NO	0
3601	cnv_LINC00678	cnv	LINC00678	NO	0
3602	stv_MYO5C	stv	MYO5C	YES	7
3603	cnv_INPP4B	cnv	INPP4B	YES	20
3603	cnv_SP4	cnv	SP4	YES	14
3604	cnv_LINC00158	cnv	LINC00158	NO	0
3604	mirna_MIR5703	mirna	MIR5703	NO	0
3607	stv_NNT	stv	NNT	YES	17
3609	cnv_EVI2A	cnv	EVI2A	YES	4
3610	meth_UBE2J2	meth	UBE2J2	YES	16
3610	stv_SEC16B	stv	SEC16B	YES	17
3611	mrna_TTYH2	mrna	TTYH2	YES	10
3611	stv_UBR4	stv	UBR4	YES	22
3614	cnv_HOXA9	cnv	HOXA9	YES	19
3615	mrna_PWP2	mrna	PWP2	YES	10
3616	stv_ARHGAP24	stv	ARHGAP24	YES	19
3617	meth_CUL5	meth	CUL5	YES	23
3619	cnv_TIGIT	cnv	TIGIT	YES	17

3620	meth_HLA-C	meth	HLA-C	YES	34
3621	mrna_TMEM53	mrna	TMEM53	YES	3
3622	cnv_SLC25A31	cnv	SLC25A31	YES	13
3623	stv_PPAN-P2RY11	stv	PPAN-P2RY11	YES	11
3623	stv_MET	stv	MET	YES	50
3625	mrna_FNDC5	mrna	FNDC5	YES	12
3626	cnv_H3F3C	cnv	H3F3C	YES	10
3630	mrna_NPM1P25	mrna	NPM1P25	NO	0
3630	mrna_CTD-2525P14.5	mrna	CTD-2525P14.5	NO	0
3631	meth_WDR11	meth	WDR11	YES	8
3633	meth_RAD52	meth	RAD52	YES	19
3634	mrna_PPP4R4	mrna	PPP4R4	YES	7
3638	cnv_POP4	cnv	POP4	YES	19
3638	mrna_MRPL20	mrna	MRPL20	YES	15
3639	mrna_ARIH2OS	mrna	ARIH2OS	YES	2
3640	mirna_LET7E	mirna	LET7E	NO	0
3642	meth_RP11-89H19.2	meth	RP11-89H19.2	NO	0
3643	mrna_GDF6	mrna	GDF6	YES	22
3643	stv_RFX2	stv	RFX2	YES	18
3644	meth_SIMC1	meth	SIMC1	YES	1
3645	meth_NXPE3	meth	NXPE3	YES	1
3646	stv_GALNT14	stv	GALNT14	YES	11
3649	mrna_SIDT1	mrna	SIDT1	YES	4
3650	stv_GPR107	stv	GPR107	YES	8
3651	meth_GPR182	meth	GPR182	YES	11
3652	stv_PSMD13	stv	PSMD13	YES	41
3653	cnv_EPM2AIP1	cnv	EPM2AIP1	YES	12
3654	stv_RANBP3L	stv	RANBP3L	YES	17
3655	cnv_ARHGEF10	cnv	ARHGEF10	YES	13
3655	stv_IGLJ2	stv	IGLJ2	NO	0
3657	meth_RUSC2	meth	RUSC2	YES	7
3658	stv_RP1-225E12.2	stv	RP1-225E12.2	NO	0
3659	mrna_SLC16A5	mrna	SLC16A5	YES	9
3659	mrna_CMTM8	mrna	CMTM8	YES	13
3660	cnv_MUTYH	cnv	MUTYH	YES	20
3662	meth_B4GALT7	meth	B4GALT7	YES	22
3662	mrna_SF3B2	mrna	SF3B2	YES	15
3664	meth_C19orf12	meth	C19orf12	YES	11
3664	mrna_TMC7	mrna	TMC7	YES	4
3665	stv_FIP1L1	stv	FIP1L1	YES	13
3666	cnv_MYRIP	cnv	MYRIP	YES	22
3668	mrna_NOL8	mrna	NOL8	YES	10
3669	meth_CPA6	meth	CPA6	YES	11
3669	mirna_MIR6747	mirna	MIR6747	NO	0
3671	mirna_MIR2355	mirna	MIR2355	NO	0
3672	mrna_PSD3	mrna	PSD3	YES	13
3674	cnv_COL27A1	cnv	COL27A1	YES	9
3675	cnv_DNAJC25	cnv	DNAJC25	YES	5
3676	cnv_VN1R1	cnv	VN1R1	YES	11
3676	mirna_MIR144	mirna	MIR144	YES	1
3677	mirna_MIR30B	mirna	MIR30B	YES	6
3677	stv_TTLL12	stv	TTLL12	YES	5

3680	mrna_RAB42	mrna	RAB42	YES	4
3682	cnv_KLHL4	cnv	KLHL4	YES	10
3683	mrna_HNRNPLL	mrna	HNRNPLL	YES	10
3683	stv_GGT3P	stv	GGT3P	NO	0
3685	mrna_RHOT1	mrna	RHOT1	YES	26
3685	mrna_ZNF486	mrna	ZNF486	YES	10
3686	cnv_ATP5J	cnv	ATP5J	YES	19
3686	mirna_MIR499A	mirna	MIR499A	YES	5
3687	mrna_HIRA	mrna	HIRA	YES	22
3688	cnv_SLA2	cnv	SLA2	YES	31
3689	cnv_SNTG1	cnv	SNTG1	YES	9
3692	meth_CAMK2D	meth	CAMK2D	YES	75
3692	meth_IFNK	meth	IFNK	YES	21
3693	mrna_ZNF516	mrna	ZNF516	YES	18
3695	stv_CCHCR1	stv	CCHCR1	YES	8
3696	cnv_WIPI1	cnv	WIPI1	YES	28
3696	meth_GATA5	meth	GATA5	YES	23
3697	stv_PRR16	stv	PRR16	YES	3
3698	meth_GPR125	meth	GPR125	YES	9
3699	mrna_CKMT1B	mrna	CKMT1B	YES	13
3701	stv_KRT3	stv	KRT3	YES	9
3702	cnv_IMPG2	cnv	IMPG2	YES	9
3702	stv_DNAAF3	stv	DNAAF3	YES	4
3705	mrna_POC1B	mrna	POC1B	YES	12
3706	stv_POU5F1	stv	POU5F1	YES	35
3707	stv_OR10H5	stv	OR10H5	YES	14
3709	mrna_SUPT20H	mrna	SUPT20H	YES	10
3709	mrna_CATSPERB	mrna	CATSPERB	YES	11
3710	meth_LMO2	meth	LMO2	YES	21
3711	mrna_CLCC1	mrna	CLCC1	YES	12
3713	cnv_PUM1	cnv	PUM1	YES	24
3716	stv_FRMPD2	stv	FRMPD2	YES	10
3716	stv_QSOX2	stv	QSOX2	YES	16
3718	meth_TTC39B	meth	TTC39B	YES	1
3718	mrna_DDTL	mrna	DDTL	YES	3
3719	cnv_POM121L9P	cnv	POM121L9P	NO	0
3721	mrna_PARS2	mrna	PARS2	YES	11
3722	cnv_HFE	cnv	HFE	YES	55
3723	meth_EIF5	meth	EIF5	YES	17
3723	mrna_TMED8	mrna	TMED8	YES	2
3724	mrna_CD177	mrna	CD177	YES	10
3726	meth_KLF15	meth	KLF15	YES	20
3726	stv_EIF3C	stv	EIF3C	YES	15
3727	cnv_SNORA70C	cnv	SNORA70C	NO	0
3727	mrna_CCDC110	mrna	CCDC110	YES	6
3728	stv_PRPH	stv	PRPH	YES	9
3729	stv_PRSS38	stv	PRSS38	YES	6
3732	cnv_TMPRSS7	cnv	TMPRSS7	YES	8
3732	mrna_TMEM184C	mrna	TMEM184C	YES	4
3733	cnv_LOC388882	cnv	LOC388882	NO	0
3735	stv_C9orf66	stv	C9orf66	NO	0
3736	stv_MUC6	stv	MUC6	YES	7

3737	mrna_RP11-1081L13.4	mrna	RP11-1081L13.4	NO	0
3739	cnv_MIAT	cnv	MIAT	NO	0
3742	meth_THBS3	meth	THBS3	YES	10
3742	mrna_MTX1P1	mrna	MTX1P1	NO	0
3744	meth_ADM	meth	ADM	YES	54
3746	stv_PPAN	stv	PPAN	YES	6
3749	meth_BRSK1	meth	BRSK1	YES	34
3750	cnv_MARS	cnv	MARS	YES	22
3751	cnv_LOC105377624	cnv	LOC105377624	NO	0
3752	cnv_GUCA1A	cnv	GUCA1A	YES	17
3752	meth_DOCK1	meth	DOCK1	YES	25
3753	mrna_TXNDC16	mrna	TXNDC16	YES	8
3754	mrna_ERC2	mrna	ERC2	YES	9
3755	cnv_MEGF9	cnv	MEGF9	YES	5
3756	mirna_MIR3934	mirna	MIR3934	NO	0
3757	mrna_FASTKD2	mrna	FASTKD2	YES	12
3759	mrna_NEU3	mrna	NEU3	YES	19
3760	meth_GMPR	meth	GMPR	YES	11
3760	mrna_GMNN	mrna	GMNN	YES	19
3761	stv_NRXN1	stv	NRXN1	YES	71
3762	cnv_NDUFA4L2	cnv	NDUFA4L2	YES	5
3763	cnv_B4GAT1	cnv	B4GAT1	YES	16
3764	cnv_AFP	cnv	AFP	YES	14
3767	stv_LRIF1	stv	LRIF1	YES	8
3768	cnv_PRSS48	cnv	PRSS48	YES	6
3769	mrna_C1orf109	mrna	C1orf109	YES	3
3771	stv_TOPORS-AS1	stv	TOPORS-AS1	NO	0
3772	stv_C22orf42	stv	C22orf42	NO	0
3773	cnv_LOC100506603	cnv	LOC100506603	NO	0
3773	cnv_UROD	cnv	UROD	YES	11
3774	mrna_PSMD12	mrna	PSMD12	YES	38
3776	meth_ADO	meth	ADO	YES	9
3777	cnv_MYLK-AS1	cnv	MYLK-AS1	NO	0
3778	mrna_ZSCAN5A	mrna	ZSCAN5A	YES	10
3779	cnv_ANKRD24	cnv	ANKRD24	YES	1
3780	cnv_TRIP10	cnv	TRIP10	YES	25
3783	mrna_EAF2	mrna	EAF2	YES	17
3785	cnv_NR3C2	cnv	NR3C2	YES	22
3787	mrna_RP11-58E21.3	mrna	RP11-58E21.3	NO	0
3789	mrna_RABGEF1	mrna	RABGEF1	YES	20
3790	cnv_HAPLN4	cnv	HAPLN4	YES	7
3791	cnv_CHMP2B	cnv	CHMP2B	YES	34
3791	cnv_MDM2	cnv	MDM2	YES	101
3792	mrna_CERK	mrna	CERK	YES	19
3792	stv_PRRC2C	stv	PRRC2C	YES	4
3793	cnv_MACC1-AS1	cnv	MACC1-AS1	NO	0
3793	cnv_MPPED2	cnv	MPPED2	YES	4
3794	stv_NLRP8	stv	NLRP8	YES	6
3795	stv_NUP155	stv	NUP155	YES	30
3796	cnv_ZBED2	cnv	ZBED2	YES	3
3796	meth_COL4A3BP	meth	COL4A3BP	YES	32
3801	cnv_CCDC34	cnv	CCDC34	NO	0

3803	mrna_RNF2	mrna	RNF2	YES	31
3804	stv_ALK	stv	ALK	YES	37
3805	mrna_CDC73	mrna	CDC73	YES	39
3807	cnv_NOL4L	cnv	NOL4L	YES	3
3807	cnv_STEAP1B	cnv	STEAP1B	YES	4
3808	stv_MYBPC2	stv	MYBPC2	YES	18
3810	mrna_SDE2	mrna	SDE2	YES	1
3811	mrna_KIN	mrna	KIN	YES	19
3813	mrna_LIFR	mrna	LIFR	YES	23
3813	mrna_SF3B3	mrna	SF3B3	YES	17
3817	mrna_ZMAT4	mrna	ZMAT4	YES	9
3817	stv_KRT16P2	stv	KRT16P2	NO	0
3819	mrna_SIAE	mrna	SIAE	YES	9
3820	stv_SHKBP1	stv	SHKBP1	YES	4
3825	cnv_ZSWIM7	cnv	ZSWIM7	YES	10
3826	meth_FAM83F	meth	FAM83F	NO	0
3827	stv_TOP3A	stv	TOP3A	YES	18
3828	mrna_NUP98	mrna	NUP98	YES	55
3829	stv_CNNM4	stv	CNNM4	YES	16
3830	cnv_ITGB7	cnv	ITGB7	YES	26
3831	mrna_SMURF2	mrna	SMURF2	YES	31
3833	cnv_PIP5K1P1	cnv	PIP5K1P1	NO	0
3833	stv_PISD	stv	PISD	YES	13
3836	cnv_OR5M3	cnv	OR5M3	YES	12
3837	cnv_SPIDR	cnv	SPIDR	YES	15
3837	stv_DKK2	stv	DKK2	YES	11
3838	cnv_MRPL48	cnv	MRPL48	YES	9
3840	mrna_PDE10A	mrna	PDE10A	YES	24
3842	cnv_FRS2	cnv	FRS2	YES	45
3842	mrna_ELP3	mrna	ELP3	YES	30
3846	mrna_TACO1	mrna	TACO1	YES	4
3848	cnv_FRMD8P1	cnv	FRMD8P1	NO	0
3849	cnv_NDUFA8	cnv	NDUFA8	YES	11
3849	cnv_RPL18A	cnv	RPL18A	YES	18
3851	cnv_ETS2	cnv	ETS2	YES	23
3852	mrna_AC073254.1	mrna	AC073254.1	NO	0
3855	cnv_RALGAPB	cnv	RALGAPB	YES	9
3857	stv_SBF1	stv	SBF1	YES	14
3858	cnv_LOC102725022	cnv	LOC102725022	NO	0
3858	stv_PTGES	stv	PTGES	YES	25
3859	stv_MTCH1	stv	MTCH1	YES	12
3860	cnv_POMT2	cnv	POMT2	YES	15
3861	cnv_OR5M11	cnv	OR5M11	YES	12
3862	cnv_C11orf91	cnv	C11orf91	YES	1
3864	mrna_CHAMP1	mrna	CHAMP1	YES	18
3865	cnv_LOC105369316	cnv	LOC105369316	NO	0
3865	mrna_NXF1	mrna	NXF1	YES	21
3866	cnv_DCDC5	cnv	DCDC5	NO	0
3868	mrna_TBCK	mrna	TBCK	YES	18
3869	cnv_VENTXP7	cnv	VENTXP7	NO	0
3872	meth_CTSK	meth	CTSK	YES	27
3873	cnv_ZFC3H1	cnv	ZFC3H1	YES	5

3873	mrna_RFESD	mrna	RFESD	YES	6
3874	stv_PFKM	stv	PFKM	YES	33
3876	mrna_RP11-16D22.2	mrna	RP11-16D22.2	NO	0
3877	stv_ADD1	stv	ADD1	YES	41
3878	mirna_MIR607	mirna	MIR607	NO	0
3878	mrna_DSCC1	mrna	DSCC1	YES	16
3879	meth_TLX2	meth	TLX2	YES	16
3880	meth_TRA2B	meth	TRA2B	YES	24
3881	mrna_WWC1	mrna	WWC1	YES	25
3882	cnv_BRMS1	cnv	BRMS1	YES	19
3882	stv_RBM14	stv	RBM14	YES	26
3883	stv_RIC1	stv	RIC1	YES	17
3885	stv_HBQ1	stv	HBQ1	YES	9
3886	meth_CADM1	meth	CADM1	YES	35
3887	cnv_ADRBK2	cnv	ADRBK2	YES	11
3888	meth_ZNF354B	meth	ZNF354B	YES	10
3889	mrna_CNTROB	mrna	CNTROB	YES	12
3890	cnv_MRPS10	cnv	MRPS10	YES	9
3892	stv_RPTOR	stv	RPTOR	YES	43
3894	cnv_COL8A2	cnv	COL8A2	YES	16
3895	cnv_PIWIL3	cnv	PIWIL3	YES	10
3895	cnv_TMEM199	cnv	TMEM199	YES	13
3896	mirna_MIR16	mirna	MIR16	NO	0
3897	mrna_SLC17A5	mrna	SLC17A5	YES	23
3897	mrna_RP11-12G12.7	mrna	RP11-12G12.7	NO	0
3900	cnv_GLB1	cnv	GLB1	YES	29
3902	mrna_DQX1	mrna	DQX1	YES	10
3903	mrna_PPP1R15B	mrna	PPP1R15B	YES	13
3903	mrna_AC099850.1	mrna	AC099850.1	NO	0
3906	meth_NR1D1	meth	NR1D1	YES	51
3906	mrna_CSPG5	mrna	CSPG5	YES	25
3907	mrna_UBQLN1	mrna	UBQLN1	YES	31
3907	mrna_SIMC1	mrna	SIMC1	YES	1
3909	cnv_TMEM35	cnv	TMEM35	YES	6
3909	mrna_PEG10	mrna	PEG10	YES	13
3910	stv_CORO7-PAM16	stv	CORO7-PAM16	YES	2
3911	mrna_TMEM178B	mrna	TMEM178B	YES	2
3911	stv_ZNF135	stv	ZNF135	YES	10
3912	mirna_MIR33B	mirna	MIR33B	NO	0
3913	mrna_DNM1L	mrna	DNM1L	YES	80
3914	cnv_GRB7	cnv	GRB7	YES	24
3915	stv_NEDD9	stv	NEDD9	YES	23
3916	meth_MAP4K4	meth	MAP4K4	YES	22
3917	mrna_GATS	mrna	GATS	NO	0
3920	cnv_ARHGAP9	cnv	ARHGAP9	YES	11
3920	cnv_OR9G4	cnv	OR9G4	YES	12
3921	cnv_TGIF2-C20orf24	cnv	TGIF2-C20orf24	YES	6
3922	meth_MAT2B	meth	MAT2B	YES	24
3923	meth_SH2B3	meth	SH2B3	YES	11
3925	cnv_C17orf98	cnv	C17orf98	NO	0
3926	meth_ZNF638	meth	ZNF638	YES	14
3927	mrna_ABCA7	mrna	ABCA7	YES	41

3928	mrna_CTA-398F10.2	mrna	CTA-398F10.2	NO	0
3930	cnv_ARL14EP	cnv	ARL14EP	YES	8
3931	meth_CTD-2140B24.4	meth	CTD-2140B24.4	NO	0
3931	meth_EFCAB1	meth	EFCAB1	YES	2
3933	mrna_MKRN2	mrna	MKRN2	YES	8
3937	meth_RP11-325L12.6	meth	RP11-325L12.6	NO	0
3937	stv_RP11-43F13.1	stv	RP11-43F13.1	NO	0
3942	mrna_DNAJC15	mrna	DNAJC15	YES	11
3942	stv_PPP4C	stv	PPP4C	YES	17
3943	mrna_CTD-2228K2.7	mrna	CTD-2228K2.7	NO	0
3945	meth_ARV1	meth	ARV1	YES	19
3947	cnv_LOC90246	cnv	LOC90246	NO	0
3948	stv_ABCA7	stv	ABCA7	YES	41
3949	cnv_UBE2E2-AS1	cnv	UBE2E2-AS1	NO	0
3949	meth_REG4	meth	REG4	YES	5
3950	cnv_CCDC105	cnv	CCDC105	YES	2
3951	mrna_SARAF	mrna	SARAF	YES	10
3952	stv_DDX46	stv	DDX46	YES	20
3953	cnv_DKFZp686K1684	cnv	DKFZp686K1684	NO	0
3953	mrna_TCP1	mrna	TCP1	YES	39
3954	cnv_RNF135	cnv	RNF135	YES	15
3959	mrna_TGFBRAP1	mrna	TGFBRAP1	YES	18
3966	mrna_ZIK1	mrna	ZIK1	YES	7
3968	stv_SPTBN4	stv	SPTBN4	YES	51
3969	mrna_RMDN3	mrna	RMDN3	YES	15
3970	cnv_BICD1	cnv	BICD1	YES	34
3973	cnv_SESN3	cnv	SESN3	YES	16
3974	cnv_ZMAT5	cnv	ZMAT5	YES	10
3974	mirna_MIR625	mirna	MIR625	YES	1
3975	mrna_CTH	mrna	CTH	YES	33
3977	stv_SH3PXD2B	stv	SH3PXD2B	YES	33
3978	mrna_SUPT4H1	mrna	SUPT4H1	YES	24
3981	cnv_SNRPD3	cnv	SNRPD3	YES	42
3982	mrna_MFSD7	mrna	MFSD7	YES	4
3983	meth_RP11-680F20.9	meth	RP11-680F20.9	NO	0
3983	mrna_DCAF17	mrna	DCAF17	YES	9
3984	cnv_FKBP9P1	cnv	FKBP9P1	NO	0
3987	mrna_GNAQP1	mrna	GNAQP1	NO	0
3989	cnv_RNF169	cnv	RNF169	YES	11
3990	mrna_ZNF830	mrna	ZNF830	YES	23
3993	stv_PMS2	stv	PMS2	YES	25
3994	mrna_RNF144B	mrna	RNF144B	YES	19
3994	mrna_TMPRSS3	mrna	TMPRSS3	YES	16
3995	cnv_KCNC1	cnv	KCNC1	YES	41
3999	mrna_CLPSL1	mrna	CLPSL1	YES	6
4000	cnv_HGF	cnv	HGF	YES	55
4000	mrna_AC004381.6	mrna	AC004381.6	NO	0
4002	cnv_CMTM7	cnv	CMTM7	YES	6
4002	cnv_HELZ	cnv	HELZ	YES	9
4005	stv_VAC14	stv	VAC14	YES	16
4006	cnv_PPFIBP1	cnv	PPFIBP1	YES	6
4007	cnv_EFCAB8	cnv	EFCAB8	YES	2

4007	meth_MPV17L	meth	MPV17L	YES	11
4008	cnv_UFSP2	cnv	UFSP2	YES	11
4008	stv_APCDD1L	stv	APCDD1L	YES	2
4009	mirna_MIR216B	mirna	MIR216B	NO	0
4013	stv_FCGR2C	stv	FCGR2C	YES	2
4014	cnv_INPPL1	cnv	INPPL1	YES	38
4015	cnv_FAM19A2	cnv	FAM19A2	YES	1
4016	cnv_KIF12	cnv	KIF12	YES	15
4018	cnv_CD200	cnv	CD200	YES	15
4019	cnv_GTF2E2	cnv	GTF2E2	YES	15
4020	mrna_ZFYVE9	mrna	ZFYVE9	YES	18
4022	cnv_TNKS	cnv	TNKS	YES	50
4023	stv_TTC21A	stv	TTC21A	YES	5
4024	cnv_LOC105377594	cnv	LOC105377594	NO	0
4025	cnv_LSM6	cnv	LSM6	YES	22
4026	stv_CTB-25J19.1	stv	CTB-25J19.1	NO	0
4027	mrna_AC073257.2	mrna	AC073257.2	NO	0
4028	stv_LMNA	stv	LMNA	YES	33
4029	cnv_AKAP2	cnv	AKAP2	YES	3
4030	mrna_SLC25A40	mrna	SLC25A40	YES	8
4031	meth_C9orf84	meth	C9orf84	NO	0
4032	cnv_RPS3	cnv	RPS3	YES	92
4032	stv_THEG	stv	THEG	YES	6
4034	cnv_PHC2	cnv	PHC2	YES	12
4037	cnv_CACNG4	cnv	CACNG4	YES	20
4037	mrna_RHBG	mrna	RHBG	YES	16
4041	stv_HDGF	stv	HDGF	YES	19
4042	cnv_SLC9C1	cnv	SLC9C1	YES	24
4043	mrna_LINC00683	mrna	LINC00683	NO	0
4044	cnv_KIAA0100	cnv	KIAA0100	YES	2
4045	cnv_LOC100507377	cnv	LOC100507377	NO	0
4046	meth_CKLF-CMTM1	meth	CKLF-CMTM1	YES	2
4046	meth_MAPK10	meth	MAPK10	YES	37
4047	stv_SLCO1B7	stv	SLCO1B7	YES	10
4048	mrna_PISD	mrna	PISD	YES	13
4049	mrna_SLC6A14	mrna	SLC6A14	YES	18
4050	mrna_PRKAR2A-AS1	mrna	PRKAR2A-AS1	NO	0
4052	cnv_SLC12A3	cnv	SLC12A3	YES	19
4053	meth_TRPM1	meth	TRPM1	YES	22
4054	cnv_LRTOMT	cnv	LRTOMT	YES	17
4055	cnv_ANGEL1	cnv	ANGEL1	YES	7
4060	mrna_ACACA	mrna	ACACA	YES	30
4061	stv_IGHV3-13	stv	IGHV3-13	YES	20
4062	cnv_SPAG5-AS1	cnv	SPAG5-AS1	NO	0
4062	stv_RP11-488L18.4	stv	RP11-488L18.4	NO	0
4064	cnv_KCNJ11	cnv	KCNJ11	YES	53
4064	stv_TRBV12-5	stv	TRBV12-5	YES	1
4066	mrna_SEC22B	mrna	SEC22B	YES	28
4066	stv_ZNF653	stv	ZNF653	YES	6
4068	cnv_LOC102723778	cnv	LOC102723778	NO	0
4070	cnv_LRRC37A5P	cnv	LRRC37A5P	NO	0
4073	cnv_GCHFR	cnv	GCHFR	YES	23

4073	mrna_CUEDC1	mrna	CUEDC1	YES	1
4074	mrna_GORAB	mrna	GORAB	YES	10
4075	mrna_NMNAT1	mrna	NMNAT1	YES	19
4076	stv_BDP1	stv	BDP1	YES	11
4078	meth_CABP4	meth	CABP4	YES	16
4080	meth_GNG12-AS1	meth	GNG12-AS1	NO	0
4080	mirna_MIR18B	mirna	MIR18B	YES	3
4083	mrna_ZMYM2	mrna	ZMYM2	YES	19
4084	cnv_HNRNPUL2-BSCL2	cnv	HNRNPUL2-BSCL2	YES	5
4084	mrna_CACUL1	mrna	CACUL1	YES	11
4085	meth_TRIM17	meth	TRIM17	YES	12
4086	meth_CHIA	meth	CHIA	YES	26
4087	mrna_GALNT3	mrna	GALNT3	YES	20
4088	mrna_SLC44A3	mrna	SLC44A3	YES	8
4089	mrna_C17orf96	mrna	C17orf96	NO	0
4092	cnv_LOC100505478	cnv	LOC100505478	NO	0
4094	cnv_N6AMT1	cnv	N6AMT1	YES	13
4094	stv_MELK	stv	MELK	YES	30
4097	cnv_CADM2	cnv	CADM2	YES	18
4098	cnv_SCAF8	cnv	SCAF8	YES	10
4099	cnv_SDF2	cnv	SDF2	YES	8
4099	meth_NCKIPSD	meth	NCKIPSD	YES	12
4101	stv_ASH2L	stv	ASH2L	YES	27
4102	meth_JUNB	meth	JUNB	YES	43
4104	cnv_MOBP	cnv	MOBP	YES	12
4104	mrna_HMGXB3	mrna	HMGXB3	YES	6
4108	meth_MCM4	meth	MCM4	YES	19
4108	meth_STOML2	meth	STOML2	YES	32
4109	cnv_LOC100506178	cnv	LOC100506178	NO	0
4109	mrna_KIAA1210	mrna	KIAA1210	YES	3
4111	cnv_GTF2F1	cnv	GTF2F1	YES	31
4112	cnv_TPX2	cnv	TPX2	YES	26
4113	meth_LINC00521	meth	LINC00521	NO	0
4114	stv_MST1	stv	MST1	YES	16
4115	cnv_LOC100128317	cnv	LOC100128317	NO	0
4117	mrna_CCT6B	mrna	CCT6B	YES	15
4118	mrna_ZBTB8OS	mrna	ZBTB8OS	YES	6
4120	mirna_MIR548K	mirna	MIR548K	NO	0
4123	mrna_NUP107	mrna	NUP107	YES	37
4128	cnv_C19orf71	cnv	C19orf71	NO	0
4128	mrna_TTC16	mrna	TTC16	YES	1
4129	mrna_HEATR5B	mrna	HEATR5B	YES	2
4130	meth_DAB2IP	meth	DAB2IP	YES	114
4132	mrna_RP11-499E18.1	mrna	RP11-499E18.1	NO	0
4132	stv_PRRC2A	stv	PRRC2A	YES	7
4133	stv_CDC37L1	stv	CDC37L1	YES	11
4136	cnv_FKBP10	cnv	FKBP10	YES	13
4137	stv_CTD-2231E14.8	stv	CTD-2231E14.8	NO	0
4139	cnv_KLHL7	cnv	KLHL7	YES	13
4139	cnv_LOC101927053	cnv	LOC101927053	NO	0
4142	mrna_RPL23A	mrna	RPL23A	YES	24
4143	meth_RPS10-NUDT3	meth	RPS10-NUDT3	YES	6

4147	cnv_NFIC	cnv	NFIC	YES	17
4147	mrna_FMO2	mrna	FMO2	YES	19
4148	cnv_SLC12A8	cnv	SLC12A8	YES	12
4149	mrna_PPIL4	mrna	PPIL4	YES	10
4150	stv_MTHFD1	stv	MTHFD1	YES	38
4153	stv_FKBP11	stv	FKBP11	YES	8
4156	cnv_SGSM3	cnv	SGSM3	YES	17
4156	mrna_POLR2C	mrna	POLR2C	YES	24
4157	meth_TRNAU1AP	meth	TRNAU1AP	YES	7
4158	meth_LZTS1	meth	LZTS1	YES	30
4159	stv_RP1-138B7.6	stv	RP1-138B7.6	NO	0
4162	cnv_PROCA1	cnv	PROCA1	YES	3
4162	stv_BMS1P1	stv	BMS1P1	NO	0
4165	mrna_ABCE1	mrna	ABCE1	YES	19
4166	cnv_TTC28	cnv	TTC28	YES	10
4167	cnv_FAM98B	cnv	FAM98B	YES	13
4168	meth_CTB-113P19.3	meth	CTB-113P19.3	NO	0
4168	stv_TMPRSS9	stv	TMPRSS9	YES	9
4169	cnv_NEURL3	cnv	NEURL3	YES	4
4170	cnv_LOC102724421	cnv	LOC102724421	NO	0
4171	stv_ZNRF4	stv	ZNRF4	YES	10
4174	meth_ITSN2	meth	ITSN2	YES	14
4175	stv_KIF17	stv	KIF17	YES	29
4176	cnv_HIST1H4B	cnv	HIST1H4B	YES	36
4181	cnv_LOC101928021	cnv	LOC101928021	NO	0
4184	meth_ARPC4	meth	ARPC4	YES	20
4185	stv_PLIN5	stv	PLIN5	YES	20
4186	cnv_RPL36A	cnv	RPL36A	YES	19
4189	meth_CIZ1	meth	CIZ1	YES	10
4189	mrna_DDX60L	mrna	DDX60L	YES	7
4194	meth_AAMP	meth	AAMP	YES	17
4196	meth_ZMIZ1	meth	ZMIZ1	YES	20
4197	mrna_RAB36	mrna	RAB36	YES	14
4200	cnv_ADGRB2	cnv	ADGRB2	YES	12
4201	cnv_PGM5	cnv	PGM5	YES	22
4201	mrna_DDX28	mrna	DDX28	YES	18
4204	meth_KRT31	meth	KRT31	YES	11
4207	stv_RASAL3	stv	RASAL3	YES	14
4208	mrna_VASN	mrna	VASN	YES	16
4209	mrna_LINC00847	mrna	LINC00847	NO	0
4211	cnv_LOC101928398	cnv	LOC101928398	NO	0
4211	mrna_ZNF77	mrna	ZNF77	YES	11
4213	mrna_VSIG10L	mrna	VSIG10L	YES	2
4214	cnv_HNRNPH2	cnv	HNRNPH2	YES	11
4215	mrna_ARL6IP6	mrna	ARL6IP6	YES	2
4216	mrna_RP11-192H23.4	mrna	RP11-192H23.4	NO	0
4216	stv_MEFV	stv	MEFV	YES	29
4218	cnv_GABPA	cnv	GABPA	YES	27
4218	stv_DDR1	stv	DDR1	YES	43
4221	meth_PLEKHG6	meth	PLEKHG6	YES	13
4221	stv_C6orf229	stv	C6orf229	YES	1
4222	mrna_MOAP1	mrna	MOAP1	YES	14

4223	mrna_RP11-159D12.8	mrna	RP11-159D12.8	NO	0
4227	cnv_RPL23A	cnv	RPL23A	YES	24
4229	mrna_RP11-545E17.3	mrna	RP11-545E17.3	NO	0
4232	cnv_UMPS	cnv	UMPS	YES	20
4234	cnv_LOC105372476	cnv	LOC105372476	NO	0
4236	mrna_ZNF678	mrna	ZNF678	YES	8
4237	stv_PRPSAP2	stv	PRPSAP2	YES	11
4238	stv_MAP1A	stv	MAP1A	YES	9
4238	stv_GPX4	stv	GPX4	YES	23
4239	cnv_ORM1	cnv	ORM1	YES	19
4240	cnv_ATP13A1	cnv	ATP13A1	YES	22
4241	meth_TLX1	meth	TLX1	YES	14
4244	cnv_CAND1	cnv	CAND1	YES	23
4247	stv_TMEM91	stv	TMEM91	YES	7
4248	mrna_CCDC154	mrna	CCDC154	YES	2
4254	mrna_POM121	mrna	POM121	YES	29
4258	mrna_E2F3	mrna	E2F3	YES	21
4260	cnv_AGO3	cnv	AGO3	YES	34
4265	stv_POLI	stv	POLI	YES	18
4266	cnv_COX17	cnv	COX17	YES	15
4268	meth_LPIN2	meth	LPIN2	YES	19
4273	meth_TAS2R50	meth	TAS2R50	YES	11
4274	mrna_TRIL	mrna	TRIL	YES	9
4277	stv_MAMSTR	stv	MAMSTR	YES	7
4281	mrna_TRIM16L	mrna	TRIM16L	YES	3
4282	mrna_AC074117.10	mrna	AC074117.10	NO	0
4283	cnv_LINC00160	cnv	LINC00160	NO	0
4283	mrna_GABRA2	mrna	GABRA2	YES	31
4284	cnv_LRRC10	cnv	LRRC10	YES	9
4285	mrna_PTPN3	mrna	PTPN3	YES	23
4286	cnv_MINOS1P1	cnv	MINOS1P1	NO	0
4287	cnv_ADCK1	cnv	ADCK1	YES	8
4289	mrna_PANK1	mrna	PANK1	YES	14
4290	meth_NPFF	meth	NPFF	YES	27
4295	mirna_MIR451A	mirna	MIR451A	YES	4
4295	stv_ATP10A	stv	ATP10A	YES	18
4296	cnv_KRT18	cnv	KRT18	YES	29
4297	stv_FANCD2	stv	FANCD2	YES	22
4301	cnv_TSPAN8	cnv	TSPAN8	YES	10
4302	meth_CTD-2154B17.4	meth	CTD-2154B17.4	NO	0
4304	cnv_LPCAT4	cnv	LPCAT4	YES	21
4306	mirna_LET7F	mirna	LET7F	NO	0
4307	mrna_RP5-857K21.11	mrna	RP5-857K21.11	NO	0
4308	cnv_ZC3H12B	cnv	ZC3H12B	YES	5
4309	stv_LINC01016	stv	LINC01016	NO	0
4310	cnv_NF1	cnv	NF1	YES	90
4310	mrna_RP4-758J18.13	mrna	RP4-758J18.13	NO	0
4312	mrna_NUFIP1	mrna	NUFIP1	YES	23
4313	cnv_ADAMTS9-AS2	cnv	ADAMTS9-AS2	NO	0
4317	meth_BOLA1	meth	BOLA1	YES	2
4318	stv_BIN2	stv	BIN2	YES	12
4319	mrna_DZIP3	mrna	DZIP3	YES	20

4320	cnv_FBXO3	cnv	FBXO3	YES	7
4323	meth_CTD-2623N2.11	meth	CTD-2623N2.11	NO	0
4326	stv_GAGE2E	stv	GAGE2E	NO	0
4329	cnv_F13A1	cnv	F13A1	YES	13
4330	cnv_POFUT1	cnv	POFUT1	YES	20
4331	mrna_TPP2	mrna	TPP2	YES	16
4334	mirna_MIR6837	mirna	MIR6837	NO	0
4335	cnv_FAM160A1	cnv	FAM160A1	NO	0
4339	stv_CPSF1	stv	CPSF1	YES	17
4340	cnv_MT1B	cnv	MT1B	YES	9
4341	cnv_BRWD1-AS1	cnv	BRWD1-AS1	NO	0
4343	stv_SLC25A12	stv	SLC25A12	YES	19
4344	mrna_CCDC174	mrna	CCDC174	YES	3
4345	mrna_COA7	mrna	COA7	YES	3
4346	mrna_ZBTB24	mrna	ZBTB24	YES	8
4348	cnv_PIGS	cnv	PIGS	YES	9
4349	cnv_TRAM2	cnv	TRAM2	YES	7
4349	meth_AC005154.6	meth	AC005154.6	NO	0
4352	mrna_RP11-157P1.4	mrna	RP11-157P1.4	NO	0
4353	cnv_HLCS	cnv	HLCS	YES	27
4358	meth_TNFAIP8	meth	TNFAIP8	YES	7
4359	stv_ZNF440	stv	ZNF440	YES	8
4360	mrna_GUSB	mrna	GUSB	YES	20
4362	meth_MACROD2	meth	MACROD2	YES	10
4364	stv_CYGB	stv	CYGB	YES	25
4364	stv_ARSB	stv	ARSB	YES	33
4366	mrna_NUDT15	mrna	NUDT15	YES	18
4368	meth_IGFBP2	meth	IGFBP2	YES	31
4369	cnv_DNAJB8-AS1	cnv	DNAJB8-AS1	NO	0
4370	cnv_PBX4	cnv	PBX4	YES	10
4372	stv_ZMYND8	stv	ZMYND8	YES	23
4373	mrna_ZNRF1	mrna	ZNRF1	YES	17
4374	meth_SPATA4	meth	SPATA4	YES	4
4375	cnv_PTPN1	cnv	PTPN1	YES	54
4380	stv_LTBP3	stv	LTBP3	YES	13
4384	cnv_THAP2	cnv	THAP2	YES	4
4385	stv_NUTM2D	stv	NUTM2D	NO	0
4386	cnv_PSMD11	cnv	PSMD11	YES	43
4392	mirna_MIR138	mirna	MIR138	NO	0
4395	mrna_ALB	mrna	ALB	YES	40
4397	meth_ATP6V1F	meth	ATP6V1F	YES	19
4399	cnv_ZBTB7A	cnv	ZBTB7A	YES	14
4400	cnv_PALM2	cnv	PALM2	YES	3
4400	mrna_VPS41	mrna	VPS41	YES	37
4401	mrna_TRIP11	mrna	TRIP11	YES	25
4405	meth_LINC00483	meth	LINC00483	NO	0
4406	mrna_TMEM117	mrna	TMEM117	YES	5
4408	mirna_MIR4515	mirna	MIR4515	NO	0
4409	mrna_BCL7A	mrna	BCL7A	YES	4
4409	stv_BECN2	stv	BECN2	YES	15
4413	cnv_PHLDB2	cnv	PHLDB2	YES	20
4414	cnv_PGM2L1	cnv	PGM2L1	YES	14

4414	stv_ARPC4-TTLL3	stv	ARPC4-TTLL3	YES	13
4419	mrna_AKR1A1	mrna	AKR1A1	YES	19
4420	stv_RNF25	stv	RNF25	YES	9
4421	mrna_AC144450.1	mrna	AC144450.1	NO	0
4429	mrna_DVL2	mrna	DVL2	YES	53
4435	cnv_MALSU1	cnv	MALSU1	YES	8
4435	mrna_TGIF2	mrna	TGIF2	YES	12
4440	meth_PGLYRP1	meth	PGLYRP1	YES	26
4441	stv_FAM86FP	stv	FAM86FP	NO	0
4442	cnv_B3GNT3	cnv	B3GNT3	YES	15
4443	mrna_ZBTB6	mrna	ZBTB6	YES	8
4445	meth_AAAS	meth	AAAS	YES	27
4447	meth_PSD3	meth	PSD3	YES	13
4448	cnv_LSM10	cnv	LSM10	YES	15
4449	meth_NUPL2	meth	NUPL2	YES	26
4451	mrna_RP11-329B9.4	mrna	RP11-329B9.4	NO	0
4452	cnv_ZNF264	cnv	ZNF264	YES	7
4452	meth_COA4	meth	COA4	YES	3
4456	meth_MAGOHB	meth	MAGOHB	YES	17
4456	mrna_ZNF140	mrna	ZNF140	YES	11
4457	stv_RP11-53B2.1	stv	RP11-53B2.1	NO	0
4458	stv_ZNF57	stv	ZNF57	YES	7
4464	meth_THBD	meth	THBD	YES	23
4465	meth_AC007182.6	meth	AC007182.6	NO	0
4465	mirna_MIR6875	mirna	MIR6875	NO	0
4466	cnv_RMDN3	cnv	RMDN3	YES	15
4467	cnv_IL12RB1	cnv	IL12RB1	YES	26
4468	cnv_SAMSN1-AS1	cnv	SAMSN1-AS1	NO	0
4470	mrna_PATL1	mrna	PATL1	YES	17
4472	meth_SFXN1	meth	SFXN1	YES	13
4472	stv_TTF1	stv	TTF1	YES	21
4473	stv_ARHGEF1	stv	ARHGEF1	YES	16
4474	cnv_FTO	cnv	FTO	YES	29
4475	meth_B3GAT2	meth	B3GAT2	YES	12
4476	cnv_LDLRAD2	cnv	LDLRAD2	YES	2
4478	cnv_CYYR1	cnv	CYYR1	YES	4
4479	mrna_FAIM2	mrna	FAIM2	YES	20
4481	cnv_ERBB2	cnv	ERBB2	YES	82
4484	cnv_OMG	cnv	OMG	YES	10
4487	stv_RP11-529F4.1	stv	RP11-529F4.1	NO	0
4489	mrna_SKA2	mrna	SKA2	YES	19
4492	meth_SPHAR	meth	SPHAR	YES	1
4494	mrna_RP11-1212A22.1	mrna	RP11-1212A22.1	NO	0
4498	mrna_OSGEPL1	mrna	OSGEPL1	YES	10
4499	stv_KCNA6	stv	KCNA6	YES	12
4500	meth_SHBG	meth	SHBG	YES	6
4501	cnv_LOC105377132	cnv	LOC105377132	NO	0
4502	cnv_XKRX	cnv	XKRX	YES	3
4504	cnv_LRP1	cnv	LRP1	YES	75
4506	cnv_RNF19B	cnv	RNF19B	YES	17
4506	meth_PRKCE	meth	PRKCE	YES	71
4507	mrna_PMS2	mrna	PMS2	YES	25

4509	meth_CHKB	meth	CHKB	YES	14
4512	mrna_CTB-113D17.1	mrna	CTB-113D17.1	NO	0
4513	mrna_SPRYD4	mrna	SPRYD4	YES	5
4514	stv_APRT	stv	APRT	YES	21
4515	cnv_TSIX	cnv	TSIX	NO	0
4515	stv_ANGPT1	stv	ANGPT1	YES	50
4518	cnv_C6orf62	cnv	C6orf62	YES	3
4520	mrna_CTB-171A8.1	mrna	CTB-171A8.1	NO	0
4521	cnv_EIF2B3	cnv	EIF2B3	YES	20
4521	cnv_LOC105371934	cnv	LOC105371934	NO	0
4522	mrna_RP11-848P1.9	mrna	RP11-848P1.9	NO	0
4524	cnv_TTLL9	cnv	TTLL9	YES	10
4526	cnv_DDX11-AS1	cnv	DDX11-AS1	NO	0
4526	cnv_LARP1B	cnv	LARP1B	YES	5
4527	cnv_SERPINB1	cnv	SERPINB1	YES	11
4529	cnv_LOC105375816	cnv	LOC105375816	NO	0
4530	cnv_PAX6	cnv	PAX6	YES	101
4531	meth_ZNF561	meth	ZNF561	YES	7
4531	mrna_APLP2	mrna	APLP2	YES	22
4532	mrna_ATG3	mrna	ATG3	YES	22
4534	cnv_PTPN3	cnv	PTPN3	YES	23
4536	cnv_REG4	cnv	REG4	YES	5
4537	mrna_FAM69B	mrna	FAM69B	YES	5
4538	mrna_TMEM132B	mrna	TMEM132B	YES	5
4539	cnv_LINC00293	cnv	LINC00293	NO	0
4541	stv_SCN7A	stv	SCN7A	YES	21
4543	stv_RNASEH2C	stv	RNASEH2C	YES	3
4545	stv_FAM132A	stv	FAM132A	YES	9
4545	stv_RP11-2O17.2	stv	RP11-2O17.2	NO	0
4547	stv_TC2N	stv	TC2N	YES	6
4550	stv_SLC1A1	stv	SLC1A1	YES	34
4552	mrna_CCDC34	mrna	CCDC34	NO	0
4553	cnv_JMJD7	cnv	JMJD7	YES	1
4556	stv_RP11-754B17.1	stv	RP11-754B17.1	NO	0
4557	mrna_BMS1	mrna	BMS1	YES	15
4558	stv_SLC37A1	stv	SLC37A1	YES	13
4559	stv_PCOLCE	stv	PCOLCE	YES	12
4560	cnv_SERPINB6	cnv	SERPINB6	YES	17
4566	meth_PCSK9	meth	PCSK9	YES	70
4568	stv_RP3-391O22.1	stv	RP3-391O22.1	NO	0
4569	cnv_KIAA1958	cnv	KIAA1958	YES	6
4570	mrna_CUL1	mrna	CUL1	YES	36
4571	meth_CTC-490E21.12	meth	CTC-490E21.12	NO	0
4573	mrna_ZNFX1	mrna	ZNFX1	YES	9
4574	stv_RCL1	stv	RCL1	YES	12
4576	cnv_CDK5R1	cnv	CDK5R1	YES	61
4576	stv_PHF2	stv	PHF2	YES	26
4577	mrna_ZNF114	mrna	ZNF114	YES	12
4579	cnv_S100PBP	cnv	S100PBP	YES	4
4580	cnv_SUPT20H	cnv	SUPT20H	YES	10
4580	mrna_KLHL7	mrna	KLHL7	YES	13
4581	cnv_FAM126A	cnv	FAM126A	YES	11

4587	mirna_MIR454	mirna	MIR454	YES	1
4590	stv_DOK4	stv	DOK4	YES	9
4595	cnv_LINC01426	cnv	LINC01426	NO	0
4595	meth_RAB4B	meth	RAB4B	YES	16
4596	cnv_TMEM54	cnv	TMEM54	YES	5
4596	meth_RP11-51F16.8	meth	RP11-51F16.8	NO	0
4598	mrna_ANGEL2	mrna	ANGEL2	YES	5
4603	cnv_URB1	cnv	URB1	YES	5
4604	stv_ZNF487	stv	ZNF487	YES	7
4606	mrna_PTPRH	mrna	PTPRH	YES	19
4614	cnv_SLC5A12	cnv	SLC5A12	YES	15
4615	stv_SMC1A	stv	SMC1A	YES	35
4616	mrna_RRP8	mrna	RRP8	YES	23
4617	mrna_HCAR1	mrna	HCAR1	YES	7
4622	cnv_TMEM63C	cnv	TMEM63C	YES	7
4627	mrna_RP11-44F21.5	mrna	RP11-44F21.5	NO	0
4630	mrna_MUCL1	mrna	MUCL1	YES	6
4632	stv_MYOZ3	stv	MYOZ3	YES	8
4633	cnv_SCN8A	cnv	SCN8A	YES	28
4634	stv_TAF6L	stv	TAF6L	YES	17
4636	cnv_DDX11	cnv	DDX11	YES	60
4636	stv_CCT5	stv	CCT5	YES	32
4637	mrna_KRIT1	mrna	KRIT1	YES	24
4639	meth_AC008697.1	meth	AC008697.1	NO	0
4639	stv_S100A14	stv	S100A14	YES	16
4640	stv_EDDM3A	stv	EDDM3A	YES	3
4643	mrna_IDNK	mrna	IDNK	YES	10
4643	stv_THADA	stv	THADA	YES	8
4649	mrna_C2orf68	mrna	C2orf68	NO	0
4649	mrna_CTD-3099C6.11	mrna	CTD-3099C6.11	NO	0
4650	meth_VPS37B	meth	VPS37B	YES	22
4651	cnv_ZNF506	cnv	ZNF506	YES	8
4652	mirna_MIR6882	mirna	MIR6882	NO	0
4653	mrna_RP11-800A3.4	mrna	RP11-800A3.4	NO	0
4662	mrna_AC090616.2	mrna	AC090616.2	NO	0
4668	mrna_USP2	mrna	USP2	YES	30
4669	mirna_MIR7156	mirna	MIR7156	NO	0
4669	stv_CAPN1	stv	CAPN1	YES	29
4672	mrna_CTD-2566J3.1	mrna	CTD-2566J3.1	NO	0
4676	meth_RPP21	meth	RPP21	YES	17
4676	mrna_OAS1	mrna	OAS1	YES	26
4681	mrna_PACSIN2	mrna	PACSIN2	YES	36
4682	mrna_C15orf57	mrna	C15orf57	NO	0
4682	stv_ATP5J2-PTCD1	stv	ATP5J2-PTCD1	YES	4
4683	meth_SALL4	meth	SALL4	YES	31
4683	mrna_C12orf75	mrna	C12orf75	NO	0
4685	stv_RP11-693N9.2	stv	RP11-693N9.2	NO	0
4687	mrna_KLHL7-AS1	mrna	KLHL7-AS1	NO	0
4689	mrna_MT-ND2	mrna	MT-ND2	YES	15
4690	mrna_ITGAV	mrna	ITGAV	YES	84
4691	cnv_DPP3	cnv	DPP3	YES	14
4691	mrna_CH507-42P11.8	mrna	CH507-42P11.8	NO	0

4692	mrna_EIF4G2	mrna	EIF4G2	YES	23
4694	mrna_COPS4	mrna	COPS4	YES	17
4695	mrna_TGM5	mrna	TGM5	YES	10
4698	mirna_MIR6508	mirna	MIR6508	NO	0
4701	cnv_RPL36A-HNRNPH2	cnv	RPL36A-HNRNPH2	YES	8
4705	meth_PRKCA	meth	PRKCA	YES	84
4706	cnv_LOC101928567	cnv	LOC101928567	NO	0
4706	meth_THRSP	meth	THRSP	YES	12
4708	cnv_BTK	cnv	BTK	YES	61
4711	mrna_TDRD9	mrna	TDRD9	YES	22
4713	cnv_PRMT9	cnv	PRMT9	YES	11
4716	cnv_SUGP1	cnv	SUGP1	YES	10
4720	cnv_FCHO1	cnv	FCHO1	YES	11
4720	mrna_KIAA0825	mrna	KIAA0825	NO	0
4721	cnv_C19orf12	cnv	C19orf12	YES	11
4721	mrna_E2F6	mrna	E2F6	YES	17
4722	cnv_SH2D3A	cnv	SH2D3A	YES	8
4723	meth_CCL28	meth	CCL28	YES	14
4724	mrna_BAZ2A	mrna	BAZ2A	YES	21
4725	mrna_NMNAT3	mrna	NMNAT3	YES	15
4728	mrna_ALKBH3	mrna	ALKBH3	YES	20
4729	cnv_SLC22A8	cnv	SLC22A8	YES	18
4731	mrna_GSTM5	mrna	GSTM5	YES	9
4731	stv_MYO10	stv	MYO10	YES	34
4735	cnv_MACC1	cnv	MACC1	YES	11
4735	cnv_RFXAP	cnv	RFXAP	YES	6
4737	mrna_USP4	mrna	USP4	YES	21
4738	stv_STK19	stv	STK19	YES	10
4740	cnv_GS1-24F4.2	cnv	GS1-24F4.2	NO	0
4746	stv_SLC26A10	stv	SLC26A10	YES	19
4747	cnv_TTC9C	cnv	TTC9C	YES	1
4749	mrna_LINC00657	mrna	LINC00657	NO	0
4750	mrna_CTB-131K11.1	mrna	CTB-131K11.1	NO	0
4752	meth_EIF6	meth	EIF6	YES	27
4753	cnv_MYLK2	cnv	MYLK2	YES	27
4755	stv_TDRD10	stv	TDRD10	YES	3
4758	cnv_RELT	cnv	RELT	YES	15
4758	meth_ANKEF1	meth	ANKEF1	YES	2
4760	cnv_CRYBB3	cnv	CRYBB3	YES	3
4761	cnv_LYZ	cnv	LYZ	YES	23
4762	cnv_HSH2D	cnv	HSH2D	YES	11
4762	mrna_ALAS1	mrna	ALAS1	YES	19
4763	meth_IL17RE	meth	IL17RE	YES	11
4766	meth_LEPROTL1	meth	LEPROTL1	YES	6
4768	mrna_OSM	mrna	OSM	YES	28
4768	mrna_DIS3L2	mrna	DIS3L2	YES	28
4769	meth_SYNE2	meth	SYNE2	YES	38
4771	mrna_NPIPA5	mrna	NPIPA5	YES	1
4772	stv_RP11-78A19.3	stv	RP11-78A19.3	NO	0
4773	stv_TBC1D8	stv	TBC1D8	YES	10
4774	cnv_MFSD12	cnv	MFSD12	YES	4
4776	cnv_TPH1	cnv	TPH1	YES	19

4776	mrna_RNF24	mrna	RNF24	YES	11
4778	cnv_LINC01495	cnv	LINC01495	NO	0
4778	meth_TAF7	meth	TAF7	YES	36
4787	cnv_KIAA0087	cnv	KIAA0087	NO	0
4787	mirna_MIR486	mirna	MIR486	NO	0
4788	stv_MRPL45	stv	MRPL45	YES	9
4793	mrna_YEATS4	mrna	YEATS4	YES	20
4793	stv_MST1R	stv	MST1R	YES	33
4794	stv_SUMF1	stv	SUMF1	YES	11
4796	cnv_C12orf10	cnv	C12orf10	YES	7
4797	meth_SYN3	meth	SYN3	YES	12
4805	mrna_CCNE2	mrna	CCNE2	YES	19
4806	cnv_LHX6	cnv	LHX6	YES	15
4808	cnv_C4orf29	cnv	C4orf29	YES	1
4808	cnv_OR5H1	cnv	OR5H1	YES	12
4811	meth_SH3BP1	meth	SH3BP1	YES	6
4817	meth_POU1F1	meth	POU1F1	YES	33
4820	cnv_ZNF330	cnv	ZNF330	YES	9
4824	stv_UNC5A	stv	UNC5A	YES	15
4825	mrna_RP11-764K9.2	mrna	RP11-764K9.2	NO	0
4827	cnv_HSDL2	cnv	HSDL2	YES	7
4831	stv_TMEM262	stv	TMEM262	YES	2
4832	stv_SMCR8	stv	SMCR8	YES	23
4832	stv_SLC35G4	stv	SLC35G4	YES	2
4834	mrna_KIF5B	mrna	KIF5B	YES	43
4836	meth_PARD6G	meth	PARD6G	YES	12
4836	mrna_RIC8B	mrna	RIC8B	YES	10
4837	mrna_EXD2	mrna	EXD2	YES	15
4838	cnv_SCPEP1	cnv	SCPEP1	YES	12
4839	mrna_ATP7B	mrna	ATP7B	YES	40
4840	mrna_FAM225A	mrna	FAM225A	NO	0
4841	mrna_BMP4	mrna	BMP4	YES	208
4845	meth_KLHL22	meth	KLHL22	YES	18
4847	stv_NIM1K	stv	NIM1K	YES	13
4853	cnv_ZBTB20-AS4	cnv	ZBTB20-AS4	NO	0
4853	mirna_MIR19A	mirna	MIR19A	YES	10
4855	cnv_FREM3	cnv	FREM3	YES	9
4857	mrna_NIP7	mrna	NIP7	YES	9
4858	stv_SLC4A1AP	stv	SLC4A1AP	YES	7
4859	mrna_TNFSF10	mrna	TNFSF10	YES	30
4862	cnv_HIBADH	cnv	HIBADH	YES	13
4864	stv_GRK4	stv	GRK4	YES	22
4864	stv_FAM219A	stv	FAM219A	NO	0
4865	cnv_IGFL2	cnv	IGFL2	YES	1
4867	cnv_KIF2B	cnv	KIF2B	YES	29
4867	stv_DNAH9	stv	DNAH9	YES	20
4869	meth_CHCHD1	meth	CHCHD1	YES	14
4871	meth_AC002310.13	meth	AC002310.13	NO	0
4874	stv_LINC01127	stv	LINC01127	NO	0
4876	mrna_RAC1	mrna	RAC1	YES	87
4876	stv_TESK1	stv	TESK1	YES	18
4878	cnv_ARRB1	cnv	ARRB1	YES	85

4885	cnv_KCNJ12	cnv	KCNJ12	YES	17
4886	mrna_PTPRR	mrna	PTPRR	YES	22
4888	stv_RHOXF2	stv	RHOXF2	YES	6
4892	cnv_EEF1G	cnv	EEF1G	YES	14
4895	meth_C16orf93	meth	C16orf93	NO	0
4900	cnv_NRG1-IT3	cnv	NRG1-IT3	NO	0
4907	mrna_CPS1	mrna	CPS1	YES	59
4907	stv_DERL2	stv	DERL2	YES	22
4909	meth_CCNG1	meth	CCNG1	YES	14
4909	mrna_SLC26A6	mrna	SLC26A6	YES	56
4910	mrna_TBK1	mrna	TBK1	YES	41
4916	cnv_BRWD3	cnv	BRWD3	YES	4
4916	mrna_DLG5-AS1	mrna	DLG5-AS1	NO	0
4920	stv_C16orf71	stv	C16orf71	NO	0
4921	stv_ANO1-AS1	stv	ANO1-AS1	NO	0
4925	cnv_MOCS1	cnv	MOCS1	YES	14
4926	cnv_ZNF543	cnv	ZNF543	YES	9
4927	cnv_ISPD	cnv	ISPD	YES	11
4928	stv_ANKRD36C	stv	ANKRD36C	YES	2
4929	stv_GLDC	stv	GLDC	YES	24
4931	mirna_MIR421	mirna	MIR421	YES	1
4935	mrna_RP11-1334A24.5	mrna	RP11-1334A24.5	NO	0
4936	meth_MED24	meth	MED24	YES	27
4936	mrna_PRKCI	mrna	PRKCI	YES	57
4937	cnv_MEIS2	cnv	MEIS2	YES	26
4937	stv_THSD1	stv	THSD1	YES	6
4938	cnv_IFI30	cnv	IFI30	YES	14
4940	mrna_ATAD1	mrna	ATAD1	YES	18
4943	mrna_OTOF	mrna	OTOF	YES	17
4946	mrna_ZNF268	mrna	ZNF268	YES	28
4947	meth_FPR3	meth	FPR3	YES	18
4950	cnv_DRD3	cnv	DRD3	YES	66
4955	cnv_MRAP	cnv	MRAP	YES	14
4955	mrna_RP11-156E6.1	mrna	RP11-156E6.1	NO	0
4956	mrna_RP11-160O5.1	mrna	RP11-160O5.1	NO	0
4957	mrna_NDRG3	mrna	NDRG3	YES	7
4959	stv_COG4	stv	COG4	YES	13
4962	mrna_NUDT10	mrna	NUDT10	YES	25
4962	mrna_ZNF284	mrna	ZNF284	YES	8
4964	mrna_NOM1	mrna	NOM1	YES	8
4966	cnv_MSL1	cnv	MSL1	YES	5
4966	stv_LILRB3	stv	LILRB3	YES	14
4967	meth_SLC25A2	meth	SLC25A2	YES	10
4970	cnv_SPINT1	cnv	SPINT1	YES	18
4970	mrna_OPA3	mrna	OPA3	YES	7
4974	meth_SMARCB1	meth	SMARCB1	YES	48
4979	mrna_KIAA0586	mrna	KIAA0586	YES	12
4982	cnv_LOC101929194	cnv	LOC101929194	NO	0
4992	meth_PCDHB1	meth	PCDHB1	YES	9
4994	cnv_WARS2-IT1	cnv	WARS2-IT1	NO	0
4997	cnv_DFNB31	cnv	DFNB31	YES	12
5000	meth_ZNF550	meth	ZNF550	YES	8

5004	cnv_DNM1L	cnv	DNM1L	YES	80
5006	mrna_CALN1	mrna	CALN1	YES	9
5007	mrna_ABHD12B	mrna	ABHD12B	YES	4
5008	mrna_NCOA3	mrna	NCOA3	YES	34
5009	cnv_RAB34	cnv	RAB34	YES	27
5011	stv_ASNSP6	stv	ASNSP6	NO	0
5013	meth_ELMOD3	meth	ELMOD3	YES	9
5015	mrna_MARVELD3	mrna	MARVELD3	YES	14
5017	stv_TNFSF12-TNFSF13	stv	TNFSF12-TNFSF13	YES	6
5018	mrna_AC083899.3	mrna	AC083899.3	NO	0
5019	mrna_C7orf49	mrna	C7orf49	YES	6
5020	stv_ABO	stv	ABO	YES	10
5021	cnv_ITGB5	cnv	ITGB5	YES	25
5022	cnv_BSCL2	cnv	BSCL2	YES	13
5022	cnv_ZNF207	cnv	ZNF207	YES	33
5024	mrna_COG6	mrna	COG6	YES	11
5024	stv_SF3A1	stv	SF3A1	YES	16
5026	mrna_PXMP4	mrna	PXMP4	YES	6
5028	cnv_KRT9	cnv	KRT9	YES	14
5028	meth_ERCC2	meth	ERCC2	YES	81
5029	meth_MTR	meth	MTR	YES	20
5033	cnv_MRS2	cnv	MRS2	YES	10
5035	mrna_BCAR3	mrna	BCAR3	YES	11
5036	mrna_DCP2	mrna	DCP2	YES	25
5039	stv_CLIP4	stv	CLIP4	YES	4
5043	stv_ALDH3B2	stv	ALDH3B2	YES	10
5044	cnv_C7orf31	cnv	C7orf31	YES	5
5046	cnv_MYLK	cnv	MYLK	YES	30
5048	stv_SLCO4A1	stv	SLCO4A1	YES	11
5051	stv_CUL9	stv	CUL9	YES	13
5053	meth_DLX1	meth	DLX1	YES	32
5065	mrna_NGRN	mrna	NGRN	YES	7
5068	mrna_NDFIP2	mrna	NDFIP2	YES	24
5069	stv_DYRK4	stv	DYRK4	YES	16
5070	stv_SGK2	stv	SGK2	YES	26
5071	meth_GTDC1	meth	GTDC1	YES	3
5075	mrna_ARID4B	mrna	ARID4B	YES	20
5079	stv_RLIM	stv	RLIM	YES	20
5081	mrna_C1orf74	mrna	C1orf74	NO	0
5082	meth_TSPAN2	meth	TSPAN2	YES	14
5084	meth_RPL14	meth	RPL14	YES	23
5085	mrna_ORAOV1	mrna	ORAOV1	YES	10
5085	mrna_ANKRD9	mrna	ANKRD9	YES	2
5088	cnv_L3MBTL1	cnv	L3MBTL1	YES	26
5089	mrna_NAE1	mrna	NAE1	YES	18
5092	meth_UPF1	meth	UPF1	YES	37
5095	cnv_KIF5A	cnv	KIF5A	YES	28
5098	mrna_RCN1	mrna	RCN1	YES	9
5099	meth_POMT1	meth	POMT1	YES	20
5099	mrna_ZNF583	mrna	ZNF583	YES	7
5100	meth_RBM19	meth	RBM19	YES	10
5102	cnv_LOC100288798	cnv	LOC100288798	NO	0

5105	meth_ACTN4	meth	ACTN4	YES	58
5108	mrna_ZNF548	mrna	ZNF548	YES	7
5111	stv_UBE4A	stv	UBE4A	YES	11
5112	stv_AL022578.1	stv	AL022578.1	NO	0
5114	stv_CARM1	stv	CARM1	YES	51
5120	stv_TMEM229A	stv	TMEM229A	YES	6
5121	stv_RP11-505K9.4	stv	RP11-505K9.4	NO	0
5123	stv_SRGAP2B	stv	SRGAP2B	YES	6
5124	meth_FUT11	meth	FUT11	YES	13
5127	meth_ACSF2	meth	ACSF2	YES	12
5129	mrna_RBFOX2	mrna	RBFOX2	YES	24
5130	stv_IGHV4-59	stv	IGHV4-59	YES	18
5133	stv_SEMA6B	stv	SEMA6B	YES	9
5134	cnv_YEATS4	cnv	YEATS4	YES	20
5136	cnv_MYOM2	cnv	MYOM2	YES	18
5136	stv_PSG8	stv	PSG8	YES	2
5137	cnv_CRYBA4	cnv	CRYBA4	YES	6
5138	meth_SEPT3	meth	SEPT3	YES	11
5144	cnv_PFDN5	cnv	PFDN5	YES	13
5145	cnv_AQR	cnv	AQR	YES	11
5148	cnv_LOC102723373	cnv	LOC102723373	NO	0
5152	stv_RP11-632F7.3	stv	RP11-632F7.3	NO	0
5153	mrna_TTC4	mrna	TTC4	YES	1
5155	cnv_LOC101929147	cnv	LOC101929147	NO	0
5158	cnv_CCDC179	cnv	CCDC179	NO	0
5163	cnv_ZBTB20	cnv	ZBTB20	YES	13
5166	stv_RP1-225E12.3	stv	RP1-225E12.3	NO	0
5171	mrna_CLCF1	mrna	CLCF1	YES	23
5174	mrna_RP11-1148L6.8	mrna	RP11-1148L6.8	NO	0
5179	cnv_ADPRH	cnv	ADPRH	YES	8
5183	meth_CHUK	meth	CHUK	YES	64
5185	mrna_GALM	mrna	GALM	YES	11
5189	cnv_PLEKHB1	cnv	PLEKHB1	YES	9
5191	mrna_FBXW11	mrna	FBXW11	YES	31
5192	mrna_PXN	mrna	PXN	YES	32
5192	stv_HAUS7	stv	HAUS7	YES	17
5197	stv_GDNF-AS1	stv	GDNF-AS1	NO	0
5198	cnv_AVEN	cnv	AVEN	YES	6
5203	mrna_CTC-575D19.1	mrna	CTC-575D19.1	NO	0
5204	mrna_RALGDS	mrna	RALGDS	YES	13
5214	stv_SFTPC	stv	SFTPC	YES	23
5215	cnv_TCP10L	cnv	TCP10L	YES	9
5221	cnv_TSL	cnv	TSL	NO	0
5224	cnv_OR1J1	cnv	OR1J1	YES	11
5226	stv_NPPA	stv	NPPA	YES	39
5228	mrna_MOV10L1	mrna	MOV10L1	YES	17
5230	cnv_RPL23	cnv	RPL23	YES	38
5232	stv_CHAC1	stv	CHAC1	YES	19
5238	cnv_RNF183	cnv	RNF183	YES	9
5238	stv_EBLN1	stv	EBLN1	NO	0
5241	stv_ANKRD44	stv	ANKRD44	YES	1
5243	mrna_U47924.31	mrna	U47924.31	NO	0

5245	stv_ZNF624	stv	ZNF624	YES	9
5247	cnv_GLYATL1	cnv	GLYATL1	YES	5
5250	mrna_WARS2-IT1	mrna	WARS2-IT1	NO	0
5256	stv_HP	stv	HP	YES	24
5264	meth_SESN1	meth	SESN1	YES	16
5266	cnv_TBC1D15	cnv	TBC1D15	YES	13
5270	stv_AL450992.2	stv	AL450992.2	NO	0
5289	cnv_PIPOX	cnv	PIPOX	YES	11
5291	cnv_RPGRIP1L	cnv	RPGRIP1L	YES	46
5291	stv_ZCCHC6	stv	ZCCHC6	YES	12
5295	mrna_TTF1	mrna	TTF1	YES	21
5329	stv_C5AR2	stv	C5AR2	YES	24
5334	mrna_TTC21A	mrna	TTC21A	YES	5
5335	cnv_ZNF333	cnv	ZNF333	YES	7
5338	mrna_FAM86HP	mrna	FAM86HP	NO	0
5345	stv_IFT172	stv	IFT172	YES	36
5348	cnv_RNF121	cnv	RNF121	YES	9
5351	mrna_AC018804.7	mrna	AC018804.7	NO	0
5360	mirna_MIR6741	mirna	MIR6741	NO	0
5361	cnv_BOC	cnv	BOC	YES	14
5364	cnv_TNKS1BP1	cnv	TNKS1BP1	YES	21
5371	stv_HDAC4	stv	HDAC4	YES	78
5376	cnv_ADAP2	cnv	ADAP2	YES	15
5377	cnv_MT1M	cnv	MT1M	YES	7
5379	mrna_PAWR	mrna	PAWR	YES	26
5381	mirna_MIR518A	mirna	MIR518A	NO	0
5397	mrna_PDIA5	mrna	PDIA5	YES	15
5398	cnv_NCAN	cnv	NCAN	YES	18
5400	meth_MT3	meth	MT3	YES	81
5409	stv_ARAP1	stv	ARAP1	YES	25
5411	mrna_ALG10	mrna	ALG10	YES	9
5417	mirna_MIR6808	mirna	MIR6808	NO	0
5419	mrna_LA16c-312E8.4	mrna	LA16c-312E8.4	NO	0
5420	stv_ZNF263	stv	ZNF263	YES	13
5427	meth_FGFR1OP	meth	FGFR1OP	YES	22
5429	cnv_KRT42P	cnv	KRT42P	NO	0
5429	mrna_GDF9	mrna	GDF9	YES	18
5430	cnv_LOC284395	cnv	LOC284395	NO	0
5430	mrna_FAM200A	mrna	FAM200A	YES	9
5431	cnv_NPY	cnv	NPY	YES	29
5435	cnv_OR4D6	cnv	OR4D6	YES	13
5436	cnv_DIO2-AS1	cnv	DIO2-AS1	NO	0
5441	meth_GTSF1L	meth	GTSF1L	YES	2
5446	cnv_LOC105379411	cnv	LOC105379411	NO	0
5449	mirna_MIR6803	mirna	MIR6803	NO	0
5453	cnv_GNG10	cnv	GNG10	YES	11
5455	mrna_GPRC5C	mrna	GPRC5C	YES	13
5456	meth_CITED4	meth	CITED4	YES	12
5458	cnv_C14orf178	cnv	C14orf178	NO	0
5461	mrna_SCIN	mrna	SCIN	YES	27
5464	mrna_AC010894.3	mrna	AC010894.3	NO	0
5465	mrna_RP11-3M1.1	mrna	RP11-3M1.1	NO	0

5467	stv_DCAF12	stv	DCAF12	YES	6
5473	meth_PSMD6	meth	PSMD6	YES	39
5490	meth_CCDC18	meth	CCDC18	YES	1
5490	mrna_COCH	mrna	COCH	YES	10
5491	mrna_USPL1	mrna	USPL1	YES	13
5495	stv_MZF1	stv	MZF1	YES	16
5497	mrna_SERPINA3	mrna	SERPINA3	YES	21
5500	cnv_CHAC1	cnv	CHAC1	YES	19
5505	cnv_ENDOD1	cnv	ENDOD1	YES	11
5508	cnv_LOC105369205	cnv	LOC105369205	NO	0
5509	cnv_SUSD2	cnv	SUSD2	YES	11
5513	stv_PCDHGB2	stv	PCDHGB2	YES	9
5521	stv_CINP	stv	CINP	YES	9
5531	cnv_FAR2	cnv	FAR2	YES	21
5534	meth_SCD5	meth	SCD5	YES	15
5537	cnv_JAK3	cnv	JAK3	YES	52
5545	cnv_SUPT6H	cnv	SUPT6H	YES	35
5554	cnv_UVRAG	cnv	UVRAG	YES	35
5566	cnv_C16orf97	cnv	C16orf97	NO	0
5570	cnv_B4GALNT1	cnv	B4GALNT1	YES	19
5576	mrna_CASC3	mrna	CASC3	YES	27
5592	meth_ZNF71	meth	ZNF71	YES	7
5594	stv_BMP2K	stv	BMP2K	YES	17
5602	stv_CAMSAP1	stv	CAMSAP1	YES	9
5605	mrna_CCDC57	mrna	CCDC57	YES	1
5607	cnv_CLP1	cnv	CLP1	YES	24
5615	mrna_FMR1	mrna	FMR1	YES	104
5632	mrna_LIMS1	mrna	LIMS1	YES	25
5639	stv_RRP36	stv	RRP36	YES	10
5641	stv_SLC47A1	stv	SLC47A1	YES	15
5642	cnv_LOC101928748	cnv	LOC101928748	NO	0
5657	cnv_ELDR	cnv	ELDR	NO	0
5657	stv_ACSM4	stv	ACSM4	YES	16
5658	meth_LINC00173	meth	LINC00173	NO	0
5665	meth_HCG4P11	meth	HCG4P11	NO	0
5668	mrna_FAM171A2	mrna	FAM171A2	YES	2
5671	mrna_P2RY10	mrna	P2RY10	YES	12
5675	mrna_UBP1	mrna	UBP1	YES	13
5683	cnv_GPD1L	cnv	GPD1L	YES	31
5685	cnv_ARHGEF9	cnv	ARHGEF9	YES	12
5688	stv_HLA-DMA	stv	HLA-DMA	YES	23
5695	stv_MYBPC3	stv	MYBPC3	YES	33
5698	meth_SPESP1	meth	SPESP1	YES	5
5702	meth_C1orf74	meth	C1orf74	NO	0
5712	cnv_OR5M9	cnv	OR5M9	YES	12
5713	cnv_UBE2L6	cnv	UBE2L6	YES	17
5725	mrna_ZBTB41	mrna	ZBTB41	YES	6
5731	meth_CYB561D1	meth	CYB561D1	YES	4
5742	mrna_ACPP	mrna	ACPP	YES	31
5758	meth_PROC	meth	PROC	YES	28
5765	mrna_ARPC5	mrna	ARPC5	YES	34
5769	stv_CFAP36	stv	CFAP36	YES	3

5776	cnv_PDS5B	cnv	PDS5B	YES	17
5780	stv_RP1-59D14.5	stv	RP1-59D14.5	NO	0
5784	stv_AKAP8	stv	AKAP8	YES	34
5788	mrna_MFSD2A	mrna	MFSD2A	YES	20
5790	cnv_TNFSF15	cnv	TNFSF15	YES	17
5806	cnv_LINC01537	cnv	LINC01537	NO	0
5809	stv_GAK	stv	GAK	YES	35
5818	cnv_SLC16A10	cnv	SLC16A10	YES	16
5825	cnv_SOSTDC1	cnv	SOSTDC1	YES	16
5828	mrna_TRAF4	mrna	TRAF4	YES	29
5832	cnv_ENTPD3	cnv	ENTPD3	YES	13
5844	mrna_SSH2	mrna	SSH2	YES	17
5847	cnv_LOC105377643	cnv	LOC105377643	NO	0
5852	mirna_MIR1245A	mirna	MIR1245A	NO	0
5856	cnv_SCOC	cnv	SCOC	YES	11
5859	meth_CDKN1B	meth	CDKN1B	YES	68
5866	mrna_MRI1	mrna	MRI1	YES	14
5896	cnv_PCMTD1	cnv	PCMTD1	YES	6
5896	mrna_PREPL	mrna	PREPL	YES	11
5904	mrna_C1QL4	mrna	C1QL4	YES	7
5918	cnv_RPS3A	cnv	RPS3A	YES	27
5962	mrna_BSDC1	mrna	BSDC1	NO	0
5963	stv_NARFL	stv	NARFL	YES	11
5966	cnv_ALDH5A1	cnv	ALDH5A1	YES	27
5978	stv_GET4	stv	GET4	YES	11
5979	mrna_POT1	mrna	POT1	YES	33
6010	stv_MRPL46	stv	MRPL46	YES	14
6021	cnv_TXNDC8	cnv	TXNDC8	YES	19
6021	mrna_ZNF285	mrna	ZNF285	YES	7
6038	stv_FPR1	stv	FPR1	YES	28
6061	cnv_RBM11	cnv	RBM11	YES	14
6069	stv_MAPKAPK5	stv	MAPKAPK5	YES	33
6073	stv_RP11-195F19.9	stv	RP11-195F19.9	NO	0
6087	stv_RP11-6J21.2	stv	RP11-6J21.2	NO	0
6097	mrna_ERI1	mrna	ERI1	YES	22
6100	stv_PKD1P6	stv	PKD1P6	NO	0
6112	stv_SPEF2	stv	SPEF2	YES	17
6114	mirna_MIR3917	mirna	MIR3917	NO	0
6139	cnv_NCAM2	cnv	NCAM2	YES	9
6140	cnv_ABCE1	cnv	ABCE1	YES	19
6147	mrna_IRX2	mrna	IRX2	YES	9

APPENDIX B

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	mrna_PAPPA2	mrna	PAPPA2	YES	13
1	mrna_DRD2	mrna	DRD2	YES	128
2	cnv_BLZF1	cnv	BLZF1	YES	18
2	mrna_TMED2	mrna	TMED2	YES	42
3	meth_PHOX2A	meth	PHOX2A	YES	19
3	mrna_CHST3	mrna	CHST3	YES	12
4	meth_SYNGR2	meth	SYNGR2	YES	8
4	meth_TRIM38	meth	TRIM38	YES	16
5	cnv_PBXIP1	cnv	PBXIP1	YES	10
5	meth_ITK	meth	ITK	YES	33
6	meth_MAP2K2	meth	MAP2K2	YES	60
6	mrna_CORO2B	mrna	CORO2B	YES	8
7	cnv_LAMTOR2	cnv	LAMTOR2	YES	25
7	meth_TNFRSF10D	meth	TNFRSF10D	YES	20
8	meth_CTNNAL1	meth	CTNNAL1	YES	11
8	meth_SLC5A7	meth	SLC5A7	YES	27
9	meth_AGAP2	meth	AGAP2	YES	27
9	mrna_BCL9	mrna	BCL9	YES	15
10	cnv_RGS1	cnv	RGS1	YES	16
10	mrna_E2F8	mrna	E2F8	YES	29
11	cnv_MARC2	cnv	MARC2	YES	17
11	mrna_SIRPA	mrna	SIRPA	YES	10
12	mrna_ESM1	mrna	ESM1	YES	9
13	cnv_PDC	cnv	PDC	YES	15
13	meth_DDR2	meth	DDR2	YES	41
14	cnv_ATF6	cnv	ATF6	YES	41
14	meth_GPR142	meth	GPR142	YES	9
15	meth_ACKR1	meth	ACKR1	YES	18
15	meth_GIPR	meth	GIPR	YES	25
16	meth_GUCY2D	meth	GUCY2D	YES	23
16	meth_TGFBI	meth	TGFBI	YES	21
17	meth_NMBR	meth	NMBR	YES	13
17	mrna_LYVE1	mrna	LYVE1	YES	19
18	meth_OR7C2	meth	OR7C2	YES	11
18	stv_KIFC3	stv	KIFC3	YES	28
19	cnv_HLX	cnv	HLX	YES	19
19	cnv_OR10J1	cnv	OR10J1	YES	16
20	meth_CD1C	meth	CD1C	YES	18
21	meth_HYAL2	meth	HYAL2	YES	67
21	meth_RECK	meth	RECK	YES	17
22	meth_CEMIP	meth	CEMIP	YES	25
22	mrna_LRRC59	mrna	LRRC59	YES	11
23	mrna_RAD51	mrna	RAD51	YES	72
23	mrna_TIMELESS	mrna	TIMELESS	YES	28
24	mrna_SFXN1	mrna	SFXN1	YES	13
24	mrna_H2AFX	mrna	H2AFX	YES	32

25	meth_GDA	meth	GDA	YES	13
25	meth_SPRR2A	meth	SPRR2A	YES	10
26	cnv_CD247	cnv	CD247	YES	20
26	meth_ZIC1	meth	ZIC1	YES	26
27	cnv_RAB3GAP2	cnv	RAB3GAP2	YES	21
27	mrna_PDE2A	mrna	PDE2A	YES	49
28	cnv_STX6	cnv	STX6	YES	33
29	cnv_CRTC2	cnv	CRTC2	YES	17
29	meth_FXYD1	meth	FXYD1	YES	27
30	meth_NDUFAF6	meth	NDUFAF6	YES	8
30	mirna_MIR100	mirna	MIR100	YES	2
31	cnv_ARL8A	cnv	ARL8A	YES	24
31	mrna_FOXM1	mrna	FOXM1	YES	38
32	cnv_CREB3L4	cnv	CREB3L4	YES	22
32	cnv_TGFB2	cnv	TGFB2	YES	119
33	meth_KCNIP1	meth	KCNIP1	YES	21
33	mrna_AURKB	mrna	AURKB	YES	61
34	mrna_CXCL2	mrna	CXCL2	YES	17
34	mrna_KIF15	mrna	KIF15	YES	21
35	meth_C6	meth	C6	YES	15
35	mrna_DEPDC1B	mrna	DEPDC1B	YES	8
36	mirna_MIR96	mirna	MIR96	YES	2
36	mrna_SYT13	mrna	SYT13	YES	15
37	mrna_ACADL	mrna	ACADL	YES	26
37	mrna_KLB	mrna	KLB	YES	24
38	cnv_GCSAML	cnv	GCSAML	YES	2
38	cnv_HNRNPU	cnv	HNRNPU	YES	37
39	mrna_CAV1	mrna	CAV1	YES	141
39	mrna_B4GALT3	mrna	B4GALT3	YES	17
40	cnv_ASH1L	cnv	ASH1L	YES	40
40	meth_GPLD1	meth	GPLD1	YES	43
41	cnv_SPRR2G	cnv	SPRR2G	YES	7
41	mrna_LMOD1	mrna	LMOD1	YES	15
42	meth_PNOC	meth	PNOC	YES	13
42	mrna_NSF	mrna	NSF	YES	39
43	meth_FMO2	meth	FMO2	YES	19
43	mrna_GPIHBP1	mrna	GPIHBP1	YES	35
44	cnv_LPGAT1	cnv	LPGAT1	YES	16
44	meth_HAMP	meth	HAMP	YES	30
45	cnv_QSOX1	cnv	QSOX1	YES	26
45	mrna_COPA	mrna	COPA	YES	24
46	cnv_SMG7	cnv	SMG7	YES	17
46	mrna_PRCD	mrna	PRCD	YES	7
47	meth_MAML1	meth	MAML1	YES	21
47	mrna_SYNGR3	mrna	SYNGR3	YES	12
48	cnv_WNT3A	cnv	WNT3A	YES	101
48	mrna_DIAPH3	mrna	DIAPH3	YES	9

49	meth_MRGPRF	meth	MRGPRF	YES	10
50	meth_CTNNA2	meth	CTNNA2	YES	32
50	mrna_MAMDC2	mrna	MAMDC2	YES	6
51	cnv_ZBTB18	cnv	ZBTB18	YES	18
51	meth_STXBP6	meth	STXBP6	YES	15
52	cnv_DENND1B	cnv	DENND1B	YES	16
52	meth_SLC7A2	meth	SLC7A2	YES	32
53	cnv_S100A16	cnv	S100A16	YES	13
53	meth_PKD2	meth	PKD2	YES	112
54	meth_TNF	meth	TNF	YES	151
54	mrna_CDC20	mrna	CDC20	YES	38
55	cnv_KCNK2	cnv	KCNK2	YES	37
55	cnv_TRIM46	cnv	TRIM46	YES	12
56	cnv_NR1I3	cnv	NR1I3	YES	26
56	mrna_FAM83D	mrna	FAM83D	YES	20
57	cnv_ATP2B4	cnv	ATP2B4	YES	61
57	meth_ANXA13	meth	ANXA13	YES	8
58	meth_GPR1	meth	GPR1	YES	15
59	cnv_CD46	cnv	CD46	YES	42
59	meth_PRLHR	meth	PRLHR	YES	16
60	cnv_NUP133	cnv	NUP133	YES	40
60	meth_MCAM	meth	MCAM	YES	13
61	mrna_MMP11	mrna	MMP11	YES	19
61	mrna_ODF2	mrna	ODF2	YES	22
62	mrna_MATN3	mrna	MATN3	YES	10
63	meth_EPB41L1	meth	EPB41L1	YES	13
63	stv_CFB	stv	CFB	YES	16
64	cnv_SMG5	cnv	SMG5	YES	21
64	mrna_NDRG2	mrna	NDRG2	YES	23
65	meth_S100A4	meth	S100A4	YES	16
65	mrna_SLC20A1	mrna	SLC20A1	YES	23
66	meth_CIDEA	meth	CIDEA	YES	26
66	meth_EHF	meth	EHF	YES	17
67	mrna_ANGPT1	mrna	ANGPT1	YES	50
67	mrna_GABRD	mrna	GABRD	YES	21
68	cnv_ZBTB7B	cnv	ZBTB7B	YES	20
68	meth_TMEM55A	meth	TMEM55A	YES	9
69	cnv_FCRL2	cnv	FCRL2	YES	7
69	meth_CYGB	meth	CYGB	YES	25
70	meth_DYNC1I1	meth	DYNC1I1	YES	31
70	meth_ZEB1	meth	ZEB1	YES	45
71	cnv_NMNAT2	cnv	NMNAT2	YES	18
71	meth_LYN	meth	LYN	YES	134
72	meth_SERPINB12	meth	SERPINB12	YES	13
72	mrna_UHRF1	mrna	UHRF1	YES	40
73	cnv_NME7	cnv	NME7	YES	16
73	mrna_HIST1H2BH	mrna	HIST1H2BH	YES	10

74	mrna_TRIB3	mrna	TRIB3	YES	35
74	mrna_CNIH2	mrna	CNIH2	YES	28
75	meth_SYCP2	meth	SYCP2	YES	16
75	mrna_ABCA9	mrna	ABCA9	YES	12
76	cnv_SNX27	cnv	SNX27	YES	22
76	meth_EPB41	meth	EPB41	YES	36
77	meth_TCN1	meth	TCN1	YES	11
77	mrna_STMN1	mrna	STMN1	YES	32
78	meth_TBCD	meth	TBCD	YES	25
78	mrna_SRP9	mrna	SRP9	YES	14
79	meth_BNC1	meth	BNC1	YES	13
79	mrna_PLAUR	mrna	PLAUR	YES	38
80	meth_LIPC	meth	LIPC	YES	28
80	meth_TEX15	meth	TEX15	YES	16
81	cnv_OBSCN	cnv	OBSCN	YES	35
81	mrna_RGS2	mrna	RGS2	YES	31
82	meth_GJA10	meth	GJA10	YES	13
82	mrna_CLDN19	mrna	CLDN19	YES	16
83	cnv_DCAF6	cnv	DCAF6	YES	10
83	meth_LAMA2	meth	LAMA2	YES	21
84	meth_IMMP2L	meth	IMMP2L	YES	21
84	mrna_SLC7A10	mrna	SLC7A10	YES	19
85	meth_ATP6V0D2	meth	ATP6V0D2	YES	25
85	mrna_CCNE2	mrna	CCNE2	YES	19
86	cnv_KIF21B	cnv	KIF21B	YES	15
86	meth_MBTD1	meth	MBTD1	YES	8
87	meth_DSE	meth	DSE	YES	12
88	mrna_ADAMTS14	mrna	ADAMTS14	YES	11
88	mrna_ATOH8	mrna	ATOH8	YES	24
89	cnv_SUCO	cnv	SUCO	YES	10
89	mrna_SSX2IP	mrna	SSX2IP	YES	21
90	meth_OPA3	meth	OPA3	YES	7
91	meth_WNT6	meth	WNT6	YES	26
91	mrna_NPR1	mrna	NPR1	YES	39
92	meth_EFEMP2	meth	EFEMP2	YES	9
92	meth_TRIP10	meth	TRIP10	YES	25
93	mrna_RHOJ	mrna	RHOJ	YES	17
93	mrna_PYCR1	mrna	PYCR1	YES	15
94	meth_DOK5	meth	DOK5	YES	8
94	meth_KL	meth	KL	YES	39
95	mrna_PMM2	mrna	PMM2	YES	13
95	mrna_KCNH1	mrna	KCNH1	YES	44
96	cnv_CAMK1G	cnv	CAMK1G	YES	24
96	mrna_NME1	mrna	NME1	YES	59
97	cnv_RIT1	cnv	RIT1	YES	15
97	mrna_GTF3C1	mrna	GTF3C1	YES	20
98	cnv_COA6	cnv	COA6	YES	8

98	meth_NR5A2	meth	NR5A2	YES	41
99	meth_FAIM2	meth	FAIM2	YES	20
99	meth_OR6A2	meth	OR6A2	YES	11
100	meth_CDO1	meth	CDO1	YES	23
100	meth_PDE9A	meth	PDE9A	YES	23
101	meth_SLC5A12	meth	SLC5A12	YES	15
101	mrna_GPRIN1	mrna	GPRIN1	YES	6
102	meth_SYCP1	meth	SYCP1	YES	21
102	mrna_HS3ST4	mrna	HS3ST4	YES	8
103	cnv_NUAK2	cnv	NUAK2	YES	19
103	mrna_NAT1	mrna	NAT1	YES	8
104	meth_SLC8A2	meth	SLC8A2	YES	27
104	mrna_PID1	mrna	PID1	YES	27
105	cnv_FH	cnv	FH	YES	13
105	cnv_PRDX6	cnv	PRDX6	YES	37
106	cnv_SLC39A1	cnv	SLC39A1	YES	19
106	mrna_AK5	mrna	AK5	YES	20
107	meth_STMN2	meth	STMN2	YES	22
107	mrna_TTK	mrna	TTK	YES	32
108	mrna_OIP5	mrna	OIP5	YES	17
108	mrna_RND3	mrna	RND3	YES	13
109	cnv_LY9	cnv	LY9	YES	11
109	cnv_NPL	cnv	NPL	YES	10
110	cnv_S100A7	cnv	S100A7	YES	30
110	mrna_STIL	mrna	STIL	YES	24
111	cnv_PI4KB	cnv	PI4KB	YES	26
111	meth_KCNAB2	meth	KCNAB2	YES	38
112	cnv_SLC50A1	cnv	SLC50A1	YES	15
112	meth_CPLX2	meth	CPLX2	YES	24
113	meth_LYPD5	meth	LYPD5	YES	7
113	meth_RAB26	meth	RAB26	YES	23
114	cnv_CRNN	cnv	CRNN	YES	8
115	meth_KCNC4	meth	KCNC4	YES	19
115	meth_PAX9	meth	PAX9	YES	18
116	cnv_VSIG8	cnv	VSIG8	YES	4
116	meth_GABRA4	meth	GABRA4	YES	22
117	meth_MTNR1B	meth	MTNR1B	YES	15
117	meth_PREX1	meth	PREX1	YES	33
118	cnv_TMEM206	cnv	TMEM206	YES	3
118	mrna_NCAPG	mrna	NCAPG	YES	13
119	cnv_OAZ3	cnv	OAZ3	YES	16
119	mrna_CLDN5	mrna	CLDN5	YES	24
120	meth_EMILIN1	meth	EMILIN1	YES	11
120	meth_FOXE1	meth	FOXE1	YES	28
121	mrna_MCM2	mrna	MCM2	YES	30
121	mrna_TDRKH	mrna	TDRKH	YES	15
122	meth_CD200R1	meth	CD200R1	YES	10

122	stv_CD151	stv	CD151	YES	14
123	cnv_ARPC5	cnv	ARPC5	YES	34
123	meth_C1orf116	meth	C1orf116	YES	7
124	meth_FGFR1	meth	FGFR1	YES	99
124	meth_GPC2	meth	GPC2	YES	19
125	cnv_CACNA1E	cnv	CACNA1E	YES	30
125	mirna_MIR98	mirna	MIR98	YES	1
126	cnv_KCNK1	cnv	KCNK1	YES	32
126	mrna_GLYAT	mrna	GLYAT	YES	13
127	cnv_ACTN2	cnv	ACTN2	YES	61
127	mrna_IGFBP6	mrna	IGFBP6	YES	17
128	meth_ATF5	meth	ATF5	YES	39
129	cnv_PIK3C2B	cnv	PIK3C2B	YES	32
129	meth_HCN1	meth	HCN1	YES	32
130	cnv_OR2C3	cnv	OR2C3	YES	13
130	meth_AOC2	meth	AOC2	YES	18
131	meth_CCND1	meth	CCND1	YES	72
132	mrna_VCAN	mrna	VCAN	YES	27
132	stv_TTBK2	stv	TTBK2	YES	29
133	cnv_SPRR4	cnv	SPRR4	YES	7
133	meth_IZUMO2	meth	IZUMO2	YES	3
134	meth_BARHL2	meth	BARHL2	YES	20
134	mrna_GPAM	mrna	GPAM	YES	34
135	meth_SPRR2D	meth	SPRR2D	YES	9
135	mrna_NDE1	mrna	NDE1	YES	44
136	cnv_TNFSF4	cnv	TNFSF4	YES	62
136	meth_OR10A4	meth	OR10A4	YES	12
137	meth_GAMT	meth	GAMT	YES	16
137	meth_HHIP	meth	HHIP	YES	24
138	cnv_MLLT11	cnv	MLLT11	YES	15
139	cnv_FASLG	cnv	FASLG	YES	54
139	stv_FOXF2	stv	FOXF2	YES	24
140	meth_BCL2L14	meth	BCL2L14	YES	10
140	mrna_H3F3A	mrna	H3F3A	YES	47
141	meth_RASGRP3	meth	RASGRP3	YES	22
141	mrna_MICAL2	mrna	MICAL2	YES	15
142	cnv_LEFTY2	cnv	LEFTY2	YES	17
142	meth_KCNJ9	meth	KCNJ9	YES	13
143	cnv_B3GALT2	cnv	B3GALT2	YES	12
143	cnv_RABGAP1L	cnv	RABGAP1L	YES	14
144	cnv_FCRL6	cnv	FCRL6	YES	4
144	cnv_RGS8	cnv	RGS8	YES	16
145	meth_PRLR	meth	PRLR	YES	23
145	stv_SPEG	stv	SPEG	YES	15
146	meth_RARRES2	meth	RARRES2	YES	25
147	cnv_EXO1	cnv	EXO1	YES	35
147	meth_DAPP1	meth	DAPP1	YES	11

148	mrna_NEK2	mrna	NEK2	YES	50
148	mrna_DST	mrna	DST	YES	50
149	cnv_PGLYRP4	cnv	PGLYRP4	YES	19
149	mrna_ALDH1A2	mrna	ALDH1A2	YES	52
150	cnv_CTSK	cnv	CTSK	YES	27
150	mrna_TMEM206	mrna	TMEM206	YES	3
151	cnv_CAPN9	cnv	CAPN9	YES	11
151	mrna_SLC35A2	mrna	SLC35A2	YES	16
152	cnv_GLRX2	cnv	GLRX2	YES	29
152	mrna_IL11RA	mrna	IL11RA	YES	12
153	cnv_SNAPIN	cnv	SNAPIN	YES	45
153	meth_ESR1	meth	ESR1	YES	86
154	meth_TARS2	meth	TARS2	YES	18
154	mrna_SCARA5	mrna	SCARA5	YES	18
155	meth_ADRA2C	meth	ADRA2C	YES	36
155	meth_UGDH	meth	UGDH	YES	16
156	cnv_FMOD	cnv	FMOD	YES	15
157	meth_F7	meth	F7	YES	49
157	meth_RDH8	meth	RDH8	YES	14
158	meth_GBGT1	meth	GBGT1	YES	14
158	mrna_TPX2	mrna	TPX2	YES	26
159	meth_EVX1	meth	EVX1	YES	10
159	meth_FABP5	meth	FABP5	YES	20
160	cnv_APH1A	cnv	APH1A	YES	23
160	mrna_CBX2	mrna	CBX2	YES	17
161	cnv_S100A14	cnv	S100A14	YES	16
161	cnv_SCAMP3	cnv	SCAMP3	YES	8
162	mrna_KIF18A	mrna	KIF18A	YES	35
162	mrna_SLC50A1	mrna	SLC50A1	YES	15
163	cnv_LAX1	cnv	LAX1	YES	19
163	meth_KIR3DL1	meth	KIR3DL1	YES	9
164	meth_P2RY12	meth	P2RY12	YES	40
165	meth_HTR4	meth	HTR4	YES	16
165	meth_NRM	meth	NRM	YES	9
166	cnv_PLA2G4A	cnv	PLA2G4A	YES	36
167	meth_CCL8	meth	CCL8	YES	31
167	mrna_POLR3K	mrna	POLR3K	YES	18
168	mrna_WDR62	mrna	WDR62	YES	18
169	meth_ALDH1A2	meth	ALDH1A2	YES	52
169	stv_OR7E24	stv	OR7E24	YES	11
170	meth_SLC7A5	meth	SLC7A5	YES	25
171	cnv_IL10	cnv	IL10	YES	80
172	mrna_UNC5B	mrna	UNC5B	YES	13
172	mrna_SLC16A3	mrna	SLC16A3	YES	17
173	meth_FCER1A	meth	FCER1A	YES	22
173	mrna_PARPBP	mrna	PARPBP	YES	9
174	cnv_CREG1	cnv	CREG1	YES	15

174	meth_CRYGC	meth	CRYGC	YES	7
175	cnv_DUSP12	cnv	DUSP12	YES	18
175	meth_DNAH5	meth	DNAH5	YES	28
176	cnv_PPP1R12B	cnv	PPP1R12B	YES	12
176	cnv_TP53BP2	cnv	TP53BP2	YES	21
177	mrna_CRYAB	mrna	CRYAB	YES	58
177	mrna_PROC	mrna	PROC	YES	28
178	mrna_COL11A1	mrna	COL11A1	YES	29
178	mrna_DCAF13	mrna	DCAF13	YES	16
179	meth_C1QB	meth	C1QB	YES	16
179	mrna_SLC44A4	mrna	SLC44A4	YES	16
180	cnv_PSEN2	cnv	PSEN2	YES	79
180	meth_AGPAT2	meth	AGPAT2	YES	20
181	cnv_DIEXF	cnv	DIEXF	YES	11
181	mrna_CHRNA6	mrna	CHRNA6	YES	27
183	cnv_CFAP126	cnv	CFAP126	YES	10
183	cnv_SLC41A1	cnv	SLC41A1	YES	19
184	mrna_SSTR1	mrna	SSTR1	YES	27
184	mrna_FANCI	mrna	FANCI	YES	13
185	cnv_NFASC	cnv	NFASC	YES	31
185	meth_ADORA2A	meth	ADORA2A	YES	81
186	mrna_DCT	mrna	DCT	YES	21
186	mrna_USP44	mrna	USP44	YES	18
187	cnv_DAP3	cnv	DAP3	YES	17
187	meth_RASSF2	meth	RASSF2	YES	31
188	meth_WNT10A	meth	WNT10A	YES	20
189	meth_ENPP2	meth	ENPP2	YES	37
191	cnv_KCNJ10	cnv	KCNJ10	YES	36
192	cnv_MRPL24	cnv	MRPL24	YES	10
192	mrna_SIAH2	mrna	SIAH2	YES	32
193	meth_PTPRN2	meth	PTPRN2	YES	29
194	cnv_RGL1	cnv	RGL1	YES	10
194	meth_BPIFA1	meth	BPIFA1	YES	17
195	meth_NLGN2	meth	NLGN2	YES	44
195	mrna_TNMD	mrna	TNMD	YES	11
196	cnv_SLC45A3	cnv	SLC45A3	YES	13
196	meth_DPP6	meth	DPP6	YES	11
197	meth_CLDN16	meth	CLDN16	YES	15
197	meth_TPO	meth	TPO	YES	20
198	meth_SPRR1B	meth	SPRR1B	YES	11
198	mrna_PPM1F	mrna	PPM1F	YES	30
199	mrna_ILDR2	mrna	ILDR2	YES	9
199	mrna_COPB2	mrna	COPB2	YES	21
200	cnv_DNM3	cnv	DNM3	YES	36
200	mrna_TRIM11	mrna	TRIM11	YES	21
201	meth_GHSR	meth	GHSR	YES	60
201	mrna_KLF15	mrna	KLF15	YES	20

202	cnv_FCRL4	cnv	FCRL4	YES	7
202	meth_LRRC3	meth	LRRC3	YES	8
203	meth_GFAP	meth	GFAP	YES	37
203	stv_MAMSTR	stv	MAMSTR	YES	7
204	meth_ETV1	meth	ETV1	YES	16
204	mrna_PARN	mrna	PARN	YES	28
205	cnv_ENAH	cnv	ENAH	YES	19
205	mrna_RGS4	mrna	RGS4	YES	15
206	cnv_ZNF281	cnv	ZNF281	YES	22
206	mrna_BIRC5	mrna	BIRC5	YES	50
207	cnv_IVNS1ABP	cnv	IVNS1ABP	YES	13
207	mrna_DDX39A	mrna	DDX39A	YES	27
208	cnv_PKLR	cnv	PKLR	YES	29
208	meth_PENK	meth	PENK	YES	45
209	meth_APCDD1	meth	APCDD1	YES	9
209	mrna_NDC80	mrna	NDC80	YES	28
210	mrna_SALL4	mrna	SALL4	YES	31
210	mrna_HOXA5	mrna	HOXA5	YES	44
211	mrna_EPHB1	mrna	EPHB1	YES	58
212	cnv_ENSA	cnv	ENSA	YES	22
212	mrna_CST4	mrna	CST4	YES	11
213	cnv_FDPS	cnv	FDPS	YES	22
213	mrna_CCDC3	mrna	CCDC3	YES	5
214	meth_RFX4	meth	RFX4	YES	19
214	mrna_RDH5	mrna	RDH5	YES	12
215	cnv_ATP1B1	cnv	ATP1B1	YES	60
215	mrna_PDGFA	mrna	PDGFA	YES	65
216	mrna_EIF2AK1	mrna	EIF2AK1	YES	30
217	cnv_ARID4B	cnv	ARID4B	YES	20
217	mrna_FBN2	mrna	FBN2	YES	19
218	meth_CHAT	meth	CHAT	YES	24
219	meth_FBN2	meth	FBN2	YES	19
219	meth_MAPK13	meth	MAPK13	YES	26
220	cnv_CAPN8	cnv	CAPN8	YES	11
221	meth_KRT77	meth	KRT77	YES	10
221	meth_NAALAD2	meth	NAALAD2	YES	17
222	meth_CLDN19	meth	CLDN19	YES	16
223	meth_C2orf82	meth	C2orf82	YES	3
223	mrna_TMCO1	mrna	TMCO1	YES	14
224	meth_GGT5	meth	GGT5	YES	20
224	meth_SCARF1	meth	SCARF1	YES	15
225	meth_CARD11	meth	CARD11	YES	37
225	mrna_STX6	mrna	STX6	YES	33
226	meth_IL11RA	meth	IL11RA	YES	12
226	mrna_ATP6V0B	mrna	ATP6V0B	YES	23
227	meth_EPO	meth	EPO	YES	54
228	cnv_KIFAP3	cnv	KIFAP3	YES	31

228	mrna_CACYBP	mrna	CACYBP	YES	22
229	meth_TECTA	meth	TECTA	YES	10
229	mrna_COL10A1	mrna	COL10A1	YES	13
230	cnv_ARV1	cnv	ARV1	YES	19
230	mrna_KDM5B	mrna	KDM5B	YES	39
231	cnv_RHOU	cnv	RHOU	YES	24
232	meth_NRN1	meth	NRN1	YES	14
232	meth_ZMYND8	meth	ZMYND8	YES	23
233	meth_MYH4	meth	MYH4	YES	21
233	meth_SELENBP1	meth	SELENBP1	YES	12
234	meth_FKBP8	meth	FKBP8	YES	34
234	stv_PLK5	stv	PLK5	YES	14
235	meth_NETO1	meth	NETO1	YES	18
237	cnv_S100A7L2	cnv	S100A7L2	YES	4
237	mrna_ISG15	mrna	ISG15	YES	22
238	meth_CD1D	meth	CD1D	YES	32
238	mrna_NDUFS2	mrna	NDUFS2	YES	24
239	cnv_NOS1AP	cnv	NOS1AP	YES	30
239	mirna_MIR106B	mirna	MIR106B	YES	5
240	mrna_PACRG	mrna	PACRG	YES	22
241	meth_PREX2	meth	PREX2	YES	16
241	mrna_HSD17B13	mrna	HSD17B13	YES	10
242	meth_TRHR	meth	TRHR	YES	9
243	mrna_SPAG5	mrna	SPAG5	YES	29
243	mrna_CCNA2	mrna	CCNA2	YES	37
244	cnv_IPO9	cnv	IPO9	YES	13
244	cnv_NCSTN	cnv	NCSTN	YES	34
245	cnv_CD1E	cnv	CD1E	YES	20
245	meth_CUBN	meth	CUBN	YES	39
246	cnv_SMYD3	cnv	SMYD3	YES	21
246	mrna_CENPU	mrna	CENPU	YES	16
247	cnv_TSNAX	cnv	TSNAX	YES	16
247	meth_NEUROG1	meth	NEUROG1	YES	46
248	mrna_MRPL47	mrna	MRPL47	YES	14
248	mrna_APCDD1	mrna	APCDD1	YES	9
249	meth_KIR2DL1	meth	KIR2DL1	YES	9
250	cnv_PLXNA2	cnv	PLXNA2	YES	20
250	mrna_ADIPOR1	mrna	ADIPOR1	YES	29
251	cnv_SRGAP2	cnv	SRGAP2	YES	18
251	mrna_GINS2	mrna	GINS2	YES	11
252	meth_SLC22A7	meth	SLC22A7	YES	17
252	mrna_SRPX	mrna	SRPX	YES	13
253	cnv_OTUD7B	cnv	OTUD7B	YES	28
253	stv_TP53	stv	TP53	YES	144
254	meth_CD14	meth	CD14	YES	60
254	meth_SLC6A18	meth	SLC6A18	YES	13
255	meth_ALX1	meth	ALX1	YES	30

255	meth_EIF2B5	meth	EIF2B5	YES	28
256	mrna_TMEM145	mrna	TMEM145	YES	4
256	mrna_GSG2	mrna	GSG2	YES	22
257	cnv_ADAMTSL4	cnv	ADAMTSL4	YES	15
257	meth_SLC25A18	meth	SLC25A18	YES	14
258	cnv_PPP1R15B	cnv	PPP1R15B	YES	13
258	meth_SYN2	meth	SYN2	YES	10
259	meth_FBXL15	meth	FBXL15	YES	13
259	stv_ATP7B	stv	ATP7B	YES	40
260	mrna_DNAJC1	mrna	DNAJC1	YES	18
260	mrna_CDCA5	mrna	CDCA5	YES	21
261	mrna_KIAA1524	mrna	KIAA1524	YES	9
261	mrna_STAT5B	mrna	STAT5B	YES	81
262	meth_FLNB	meth	FLNB	YES	30
262	mrna_HIST1H4I	mrna	HIST1H4I	YES	36
263	cnv_ETV3	cnv	ETV3	YES	20
263	mrna_RAB26	mrna	RAB26	YES	23
264	meth_ADIPOQ	meth	ADIPOQ	YES	92
264	mrna_SVEP1	mrna	SVEP1	YES	7
265	meth_CRP	meth	CRP	YES	28
265	mrna_SOX12	mrna	SOX12	YES	16
266	cnv_ADAR	cnv	ADAR	YES	41
266	cnv_CR2	cnv	CR2	YES	22
267	meth_IGKC	meth	IGKC	YES	11
267	mrna_JTB	mrna	JTB	YES	19
268	meth_KCNA5	meth	KCNA5	YES	61
268	mrna_TARS	mrna	TARS	YES	16
269	mrna_TSPAN13	mrna	TSPAN13	YES	8
269	mrna_CDK5	mrna	CDK5	YES	121
270	meth_DOCK2	meth	DOCK2	YES	33
270	mrna_IL33	mrna	IL33	YES	34
271	meth_KMO	meth	KMO	YES	23
271	meth_OR5I1	meth	OR5I1	YES	12
272	mrna_CBX3	mrna	CBX3	YES	22
272	mrna_ESPL1	mrna	ESPL1	YES	24
273	mrna_HOXA4	mrna	HOXA4	YES	10
274	cnv_KCNT2	cnv	KCNT2	YES	13
274	mrna_SPRY2	mrna	SPRY2	YES	46
275	cnv_RHBG	cnv	RHBG	YES	16
275	meth_GPR6	meth	GPR6	YES	11
277	cnv_CHTOP	cnv	CHTOP	YES	21
277	meth_GPR87	meth	GPR87	YES	12
278	cnv_MRPL55	cnv	MRPL55	YES	9
279	meth_STAB1	meth	STAB1	YES	19
280	cnv_ABL2	cnv	ABL2	YES	40
280	mrna_COL17A1	mrna	COL17A1	YES	17
281	cnv_DSTYK	cnv	DSTYK	YES	23

281	cnv_TNFRSF11B	cnv	TNFRSF11B	YES	27
282	cnv_AIDA	cnv	AIDA	YES	12
283	cnv_UCHL5	cnv	UCHL5	YES	31
284	mrna_PLK1	mrna	PLK1	YES	79
284	mrna_CCL11	mrna	CCL11	YES	44
285	meth_STX1B	meth	STX1B	YES	42
285	mrna_HLF	mrna	HLF	YES	15
286	cnv_COX20	cnv	COX20	YES	6
286	meth_DEGS1	meth	DEGS1	YES	19
287	cnv_MPC2	cnv	MPC2	YES	12
288	meth_SOSTDC1	meth	SOSTDC1	YES	16
288	mrna_GPR160	mrna	GPR160	YES	8
289	mrna_OXTR	mrna	OXTR	YES	57
289	mrna_APOO	mrna	APOO	YES	20
291	cnv_ADAMTS4	cnv	ADAMTS4	YES	18
291	mrna_HSPB6	mrna	HSPB6	YES	12
292	cnv_NID1	cnv	NID1	YES	21
293	mirna_MIR708	mirna	MIR708	NO	0
293	mrna_CENPE	mrna	CENPE	YES	43
294	mrna_RUSC1	mrna	RUSC1	YES	21
295	cnv_TMEM9	cnv	TMEM9	YES	10
295	mirna_MIR10B	mirna	MIR10B	YES	2
296	meth_HYLS1	meth	HYLS1	YES	6
296	meth_IFT140	meth	IFT140	YES	35
297	meth_CCL11	meth	CCL11	YES	44
298	mrna_FANCD2	mrna	FANCD2	YES	22
298	stv_HNRNPUL1	stv	HNRNPUL1	YES	15
299	meth_TRH	meth	TRH	YES	24
299	mrna_ADRA1A	mrna	ADRA1A	YES	55
300	cnv_ABCB10	cnv	ABCB10	YES	14
300	mrna_CCNE1	mrna	CCNE1	YES	27
301	meth_STON1	meth	STON1	YES	6
302	cnv_NLRP3	cnv	NLRP3	YES	49
303	meth_OR1A2	meth	OR1A2	YES	12
303	mrna_TSHZ2	mrna	TSHZ2	YES	13
304	mrna_BOC	mrna	BOC	YES	14
304	mrna_TMEM57	mrna	TMEM57	YES	12
305	cnv_TBX19	cnv	TBX19	YES	16
305	meth_KCNA3	meth	KCNA3	YES	20
307	cnv_COG2	cnv	COG2	YES	15
308	cnv_SMCP	cnv	SMCP	YES	9
309	mrna_NUAK2	mrna	NUAK2	YES	19
309	mrna_UBE2C	mrna	UBE2C	YES	32
310	cnv_SPRR3	cnv	SPRR3	YES	12
311	cnv_IFI16	cnv	IFI16	YES	45
311	meth_SLC25A33	meth	SLC25A33	YES	23
312	meth_MYF5	meth	MYF5	YES	36

314	cnv_NPR1	cnv	NPR1	YES	39
314	meth_SLC2A14	meth	SLC2A14	YES	17
315	cnv_CD5L	cnv	CD5L	YES	12
316	cnv_INTS3	cnv	INTS3	YES	13
316	mirna_MIR200A	mirna	MIR200A	NO	0
317	meth_MEP1A	meth	MEP1A	YES	15
317	mrna_TICRR	mrna	TICRR	YES	13
318	meth_TNFRSF1B	meth	TNFRSF1B	YES	34
319	cnv_PPP2R5A	cnv	PPP2R5A	YES	16
319	meth_INPP5B	meth	INPP5B	YES	27
320	mrna_HCN2	mrna	HCN2	YES	32
320	mrna_H2AFZ	mrna	H2AFZ	YES	17
321	meth_C7orf49	meth	C7orf49	YES	6
322	cnv_CHIT1	cnv	CHIT1	YES	20
322	mrna_AQP7	mrna	AQP7	YES	22
323	cnv_CD55	cnv	CD55	YES	37
323	cnv_FCRL3	cnv	FCRL3	YES	3
324	meth_ATIC	meth	ATIC	YES	25
324	meth_FCRL1	meth	FCRL1	YES	3
325	mrna_MGARP	mrna	MGARP	YES	16
325	mrna_SULF1	mrna	SULF1	YES	37
326	cnv_RGS4	cnv	RGS4	YES	15
327	meth_C1QC	meth	C1QC	YES	15
327	mrna_EBF1	mrna	EBF1	YES	10
328	meth_FAM3C	meth	FAM3C	YES	10
328	mrna_CA4	mrna	CA4	YES	27
329	meth_STAT5A	meth	STAT5A	YES	66
330	mirna_MIR93	mirna	MIR93	YES	3
331	meth_CNTN4	meth	CNTN4	YES	16
331	mrna_BRIP1	mrna	BRIP1	YES	44
332	meth_GRWD1	meth	GRWD1	YES	13
333	cnv_MAPKAPK2	cnv	MAPKAPK2	YES	54
334	meth_CDH5	meth	CDH5	YES	28
335	mrna_LMNB1	mrna	LMNB1	YES	13
335	mrna_DTL	mrna	DTL	YES	27
336	cnv_OR10J3	cnv	OR10J3	YES	13
336	cnv_TADA1	cnv	TADA1	YES	13
337	meth_ACVR1	meth	ACVR1	YES	69
337	mrna_TUBA1C	mrna	TUBA1C	YES	20
338	meth_CD1E	meth	CD1E	YES	20
338	meth_FAM129A	meth	FAM129A	YES	12
339	cnv_TIMM17A	cnv	TIMM17A	YES	14
339	meth_FOXG1	meth	FOXG1	YES	34
340	mirna_MIR455	mirna	MIR455	NO	0
340	mrna_GRIA4	mrna	GRIA4	YES	23
341	meth_PRR7	meth	PRR7	YES	6
341	mrna_BTNL9	mrna	BTNL9	YES	3

342	cnv_EFNA1	cnv	EFNA1	YES	40
342	cnv_FCRL5	cnv	FCRL5	YES	4
343	mrna_CEMIP	mrna	CEMIP	YES	25
343	mrna_G0S2	mrna	G0S2	YES	8
344	meth_GRIA4	meth	GRIA4	YES	23
344	meth_PTPRN	meth	PTPRN	YES	40
345	meth_KCNG3	meth	KCNG3	YES	19
345	mrna_UBE2S	mrna	UBE2S	YES	24
346	cnv_SLAMF1	cnv	SLAMF1	YES	43
346	meth_ANKRD33	meth	ANKRD33	YES	5
347	meth_BCL2	meth	BCL2	YES	173
347	mrna_TFR2	mrna	TFR2	YES	24
348	cnv_EDEM3	cnv	EDEM3	YES	17
348	meth_NHLH1	meth	NHLH1	YES	13
349	mirna_MIR497	mirna	MIR497	NO	0
350	cnv_LMX1A	cnv	LMX1A	YES	30
350	mrna_TOP2A	mrna	TOP2A	YES	50
351	mrna_FHL1	mrna	FHL1	YES	19
351	mrna_ANXA1	mrna	ANXA1	YES	114
352	mrna_RTBDN	mrna	RTBDN	YES	7
352	stv_KMT2A	stv	KMT2A	YES	63
353	mirna_MIR200C	mirna	MIR200C	YES	4
353	mrna_ALDH18A1	mrna	ALDH18A1	YES	26
354	mrna_LEPR	mrna	LEPR	YES	29
355	cnv_XPR1	cnv	XPR1	YES	17
356	cnv_UCK2	cnv	UCK2	YES	21
356	mirna_MIR107	mirna	MIR107	YES	3
357	stv_KCNV2	stv	KCNV2	YES	15
358	mrna_MRPL13	mrna	MRPL13	YES	13
359	cnv_RAB4A	cnv	RAB4A	YES	32
359	cnv_SMYD2	cnv	SMYD2	YES	28
360	mrna_PPP1R12B	mrna	PPP1R12B	YES	12
361	meth_ADCYAP1	meth	ADCYAP1	YES	58
362	meth_ITGB3	meth	ITGB3	YES	77
363	meth_TIMP3	meth	TIMP3	YES	24
363	mrna_MMP1	mrna	MMP1	YES	18
364	mrna_TNNT1	mrna	TNNT1	YES	11
364	mrna_GNG13	mrna	GNG13	YES	11
365	mrna_INTS7	mrna	INTS7	YES	14
365	mrna_GPRASP1	mrna	GPRASP1	YES	5
366	meth_TRDN	meth	TRDN	YES	35
366	mrna_SCAMP3	mrna	SCAMP3	YES	8
367	cnv_OR6K6	cnv	OR6K6	YES	13
367	meth_CERKL	meth	CERKL	YES	15
368	cnv_S100A10	cnv	S100A10	YES	18
368	mrna_KLHL12	mrna	KLHL12	YES	21
369	cnv_POGZ	cnv	POGZ	YES	14

369	meth_APOBEC3C	meth	APOBEC3C	YES	17
370	meth_THBS4	meth	THBS4	YES	26
370	mirna_MIR145	mirna	MIR145	YES	24
371	meth_FEZF2	meth	FEZF2	YES	18
371	meth_PRKCB	meth	PRKCB	YES	56
372	meth_S100A8	meth	S100A8	YES	52
373	meth_CLCA1	meth	CLCA1	YES	24
373	mrna_B3GALT1	mrna	B3GALT1	YES	12
374	mrna_GAS2	mrna	GAS2	YES	10
375	cnv_GOLPH3L	cnv	GOLPH3L	YES	16
375	mrna_NVL	mrna	NVL	YES	12
376	cnv_RALGPS2	cnv	RALGPS2	YES	8
376	mrna_DLGAP5	mrna	DLGAP5	YES	17
377	meth_NES	meth	NES	YES	20
377	meth_RIMS3	meth	RIMS3	YES	11
378	cnv_PEA15	cnv	PEA15	YES	16
379	mirna_MIR144	mirna	MIR144	YES	1
380	mrna_MCM6	mrna	MCM6	YES	19
380	mrna_MAML2	mrna	MAML2	YES	10
381	cnv_PRELP	cnv	PRELP	YES	16
381	mrna_RABIF	mrna	RABIF	YES	12
382	cnv_PEX19	cnv	PEX19	YES	23
382	meth_TUBB2A	meth	TUBB2A	YES	14
383	cnv_TBCE	cnv	TBCE	YES	18
383	mrna_SMYD3	mrna	SMYD3	YES	21
384	cnv_IL19	cnv	IL19	YES	11
384	meth_RNASE3	meth	RNASE3	YES	23
385	cnv_TCHH	cnv	TCHH	YES	9
385	meth_PRX	meth	PRX	YES	8
386	meth_ARFIP2	meth	ARFIP2	YES	20
387	cnv_RASAL2	cnv	RASAL2	YES	11
387	meth_CATSPER3	meth	CATSPER3	YES	30
388	mrna_CDO1	mrna	CDO1	YES	23
389	mrna_ACACB	mrna	ACACB	YES	38
389	mrna_ARL6IP1	mrna	ARL6IP1	YES	18
390	mrna_RNPEP	mrna	RNPEP	YES	18
391	meth_PCOLCE	meth	PCOLCE	YES	12
392	meth_ODF2	meth	ODF2	YES	22
392	meth_PGC	meth	PGC	YES	11
393	meth_FOLR1	meth	FOLR1	YES	45
394	meth_FAR2	meth	FAR2	YES	21
395	cnv_SUSD4	cnv	SUSD4	YES	7
396	cnv_TOMM20	cnv	TOMM20	YES	24
396	meth_CBFB	meth	CBFB	YES	27
398	meth_BST2	meth	BST2	YES	43
398	mrna_CDC25A	mrna	CDC25A	YES	25
399	cnv_TAF1A	cnv	TAF1A	YES	15

399	meth_CARTPT	meth	CARTPT	YES	26
400	mrna_FLVCR1	mrna	FLVCR1	YES	27
402	mrna_ANLN	mrna	ANLN	YES	20
403	mrna_ACTL6A	mrna	ACTL6A	YES	35
403	mrna_PRC1	mrna	PRC1	YES	24
404	meth_RASSF5	meth	RASSF5	YES	15
405	cnv_CCT3	cnv	CCT3	YES	26
405	mrna_ARF1	mrna	ARF1	YES	64
406	meth_JAM3	meth	JAM3	YES	34
406	mrna_SAA1	mrna	SAA1	YES	25
407	cnv_IL6R	cnv	IL6R	YES	39
407	mrna_SCN2B	mrna	SCN2B	YES	24
408	meth_CLEC4G	meth	CLEC4G	YES	12
409	mrna_CAV2	mrna	CAV2	YES	45
410	cnv_KMO	cnv	KMO	YES	23
410	mrna_TACC3	mrna	TACC3	YES	16
411	cnv_SPRR1A	cnv	SPRR1A	YES	13
411	meth_GALNTL5	meth	GALNTL5	YES	9
412	mrna_POSTN	mrna	POSTN	YES	32
413	cnv_SEMA4A	cnv	SEMA4A	YES	22
413	mrna_FOSB	mrna	FOSB	YES	24
414	meth_ATP2B2	meth	ATP2B2	YES	53
415	cnv_IL24	cnv	IL24	YES	18
415	meth_OR12D3	meth	OR12D3	YES	13
416	cnv_TNFSF18	cnv	TNFSF18	YES	26
416	mrna_PRR11	mrna	PRR11	YES	5
417	cnv_BPNT1	cnv	BPNT1	YES	10
417	mrna_EXO1	mrna	EXO1	YES	35
418	mirna_MIR192	mirna	MIR192	YES	1
419	mrna_HS3ST3A1	mrna	HS3ST3A1	YES	9
420	cnv_GALNT2	cnv	GALNT2	YES	24
420	mirna_MIR92B	mirna	MIR92B	YES	1
421	cnv_RORC	cnv	RORC	YES	35
421	meth_SPAG6	meth	SPAG6	YES	11
422	cnv_IL20	cnv	IL20	YES	11
422	mrna_PIK3C2G	mrna	PIK3C2G	YES	24
423	cnv_LHX4	cnv	LHX4	YES	16
423	mrna_GPRC5A	mrna	GPRC5A	YES	17
424	cnv_SETDB1	cnv	SETDB1	YES	24
425	mrna_RIPPLY3	mrna	RIPPLY3	YES	10
426	mrna_CDC6	mrna	CDC6	YES	30
427	cnv_CDK18	cnv	CDK18	YES	12
428	cnv_SNRPE	cnv	SNRPE	YES	32
428	stv_NFIX	stv	NFIX	YES	15
429	cnv_C2CD4D	cnv	C2CD4D	YES	3
429	meth_HBG1	meth	HBG1	YES	10
430	meth_NEBL	meth	NEBL	YES	13

431	mrna_RMI1	mrna	RMI1	YES	9
432	meth_TRPM8	meth	TRPM8	YES	27
432	mrna_POC1A	mrna	POC1A	YES	15
433	meth_EVI5	meth	EVI5	YES	20
433	meth_FBXO6	meth	FBXO6	YES	19
434	meth_PRKAR1B	meth	PRKAR1B	YES	25
434	mrna_FUT8	mrna	FUT8	YES	29
435	cnv_LHX9	cnv	LHX9	YES	14
435	cnv_PSMD4	cnv	PSMD4	YES	38
436	meth_CD200	meth	CD200	YES	15
436	mrna_SEC24D	mrna	SEC24D	YES	24
437	cnv_CA14	cnv	CA14	YES	7
438	cnv_CELF3	cnv	CELF3	YES	15
438	cnv_ZP4	cnv	ZP4	YES	18
439	cnv_RGS5	cnv	RGS5	YES	8
439	meth_PDE6C	meth	PDE6C	YES	15
440	cnv_CIART	cnv	CIART	YES	12
440	cnv_IGFN1	cnv	IGFN1	YES	5
441	cnv_HEATR1	cnv	HEATR1	YES	20
441	meth_ACER1	meth	ACER1	YES	20
442	meth_TFF1	meth	TFF1	YES	13
443	mrna_LPCAT1	mrna	LPCAT1	YES	32
445	cnv_IGSF9	cnv	IGSF9	YES	15
446	cnv_ITPKB	cnv	ITPKB	YES	27
446	meth_IKBKE	meth	IKBKE	YES	34
447	meth_RABGAP1	meth	RABGAP1	YES	24
447	stv_NAGLU	stv	NAGLU	YES	15
448	meth_TP73	meth	TP73	YES	63
448	mrna_ALDH1A1	mrna	ALDH1A1	YES	19
449	meth_CR1	meth	CR1	YES	26
449	mrna_COG2	mrna	COG2	YES	15
451	cnv_PTPRC	cnv	PTPRC	YES	66
451	mrna_CDCA2	mrna	CDCA2	YES	8
452	cnv_ADAM15	cnv	ADAM15	YES	37
454	meth_GRM6	meth	GRM6	YES	32
455	meth_ACOT11	meth	ACOT11	YES	12
455	mrna_GTF2IRD1	mrna	GTF2IRD1	YES	15
456	meth_TPM3	meth	TPM3	YES	21
456	mrna_P2RX6	mrna	P2RX6	YES	25
457	mirna_MIR452	mirna	MIR452	NO	0
457	mrna_GPR89A	mrna	GPR89A	YES	17
458	meth_WT1	meth	WT1	YES	66
458	mrna_ARHGAP11A	mrna	ARHGAP11A	YES	6
459	cnv_SLC25A44	cnv	SLC25A44	YES	9
460	mirna_MIR204	mirna	MIR204	YES	6
461	cnv_MR1	cnv	MR1	YES	18
461	mrna_HNRNPF	mrna	HNRNPF	YES	23

462	meth_AKR1C4	meth	AKR1C4	YES	20
462	meth_KIF12	meth	KIF12	YES	15
463	cnv_SELP	cnv	SELP	YES	34
463	mrna_CLEC4G	mrna	CLEC4G	YES	12
464	cnv_ATP1A2	cnv	ATP1A2	YES	72
464	meth_GPR12	meth	GPR12	YES	11
465	cnv_NUF2	cnv	NUF2	YES	15
465	cnv_VPS72	cnv	VPS72	YES	14
466	meth_CPOX	meth	CPOX	YES	21
466	meth_IFNG	meth	IFNG	YES	99
467	cnv_MYOC	cnv	MYOC	YES	44
467	mrna_CALCOCO1	mrna	CALCOCO1	YES	24
468	meth_RFTN2	meth	RFTN2	YES	8
468	mrna_GGPS1	mrna	GGPS1	YES	16
469	meth_FLT4	meth	FLT4	YES	49
469	meth_MCF2L	meth	MCF2L	YES	16
470	cnv_CD1B	cnv	CD1B	YES	17
470	cnv_DTL	cnv	DTL	YES	27
471	cnv_OR10R2	cnv	OR10R2	YES	13
471	meth_SLC2A2	meth	SLC2A2	YES	26
472	cnv_MDM4	cnv	MDM4	YES	22
472	mirna_MIR130B	mirna	MIR130B	YES	1
473	mrna_RNASEH2A	mrna	RNASEH2A	YES	20
474	mrna_CCDC78	mrna	CCDC78	YES	12
475	meth_KLK3	meth	KLK3	YES	16
475	mrna_CENPA	mrna	CENPA	YES	28
476	meth_ARAP3	meth	ARAP3	YES	24
476	meth_PEX5L	meth	PEX5L	YES	13
477	cnv_LCE1C	cnv	LCE1C	YES	7
477	mrna_AKAP6	mrna	AKAP6	YES	37
478	meth_GRM1	meth	GRM1	YES	33
479	cnv_CDC73	cnv	CDC73	YES	39
479	mrna_SYNE3	mrna	SYNE3	YES	16
480	cnv_CD244	cnv	CD244	YES	21
480	cnv_OR10K1	cnv	OR10K1	YES	13
481	meth_SLC52A3	meth	SLC52A3	YES	11
481	mrna_PHKG2	mrna	PHKG2	YES	25
482	cnv_HMCN1	cnv	HMCN1	YES	15
482	meth_TAF5L	meth	TAF5L	YES	13
483	cnv_GREM2	cnv	GREM2	YES	14
483	meth_OSGIN2	meth	OSGIN2	YES	7
484	cnv_ELK4	cnv	ELK4	YES	20
484	mrna_DHTKD1	mrna	DHTKD1	YES	14
485	meth_OR10J1	meth	OR10J1	YES	16
485	mrna_DONSON	mrna	DONSON	YES	6
486	meth_CDKN1C	meth	CDKN1C	YES	33
486	mrna_PPP2R2C	mrna	PPP2R2C	YES	9

487	mrna_NCALD	mrna	NCALD	YES	16
488	cnv_PAQR6	cnv	PAQR6	YES	7
488	cnv_TMEM79	cnv	TMEM79	YES	16
489	mrna_ADCY4	mrna	ADCY4	YES	31
490	meth_PLSCR4	meth	PLSCR4	YES	12
490	stv_MAP4	stv	MAP4	YES	20
491	cnv_EPRS	cnv	EPRS	YES	30
491	meth_SFRP2	meth	SFRP2	YES	82
492	mrna_CDC25C	mrna	CDC25C	YES	27
493	cnv_MARC1	cnv	MARC1	YES	15
493	cnv_SPTA1	cnv	SPTA1	YES	35
494	cnv_B3GALNT2	cnv	B3GALNT2	YES	13
494	meth_DNASE1L2	meth	DNASE1L2	YES	15
495	mrna_CHRDL1	mrna	CHRDL1	YES	12
496	meth_TRIM31	meth	TRIM31	YES	15
496	mrna_CX3CL1	mrna	CX3CL1	YES	42
497	mrna_HAS3	mrna	HAS3	YES	16
499	mrna_PDLIM3	mrna	PDLIM3	YES	10
500	cnv_SPRTN	cnv	SPRTN	YES	15
501	mirna_MIR223	mirna	MIR223	YES	5
501	mrna_SORBS1	mrna	SORBS1	YES	36
503	mrna_CKAP2	mrna	CKAP2	YES	14
504	cnv_C4BPB	cnv	C4BPB	YES	13
505	meth_OR12D2	meth	OR12D2	YES	13
506	meth_CAMK2A	meth	CAMK2A	YES	52
506	meth_RANBP3L	meth	RANBP3L	YES	17
507	cnv_VAMP4	cnv	VAMP4	YES	23
507	meth_CD1B	meth	CD1B	YES	17
508	meth_CDH26	meth	CDH26	YES	7
509	cnv_CNTN2	cnv	CNTN2	YES	39
509	cnv_SLC19A2	cnv	SLC19A2	YES	14
510	mrna_SIK2	mrna	SIK2	YES	18
511	cnv_CERS2	cnv	CERS2	YES	15
511	meth_TOR4A	meth	TOR4A	YES	7
512	meth_DAB1	meth	DAB1	YES	37
513	meth_CRTAM	meth	CRTAM	YES	20
513	mrna_KCNMB1	mrna	KCNMB1	YES	20
514	meth_GSDMC	meth	GSDMC	YES	9
515	cnv_DYRK3	cnv	DYRK3	YES	25
515	meth_G6PC	meth	G6PC	YES	26
516	meth_PCDH12	meth	PCDH12	YES	15
517	meth_UTF1	meth	UTF1	YES	9
517	mrna_KIT	mrna	KIT	YES	114
518	meth_IL23A	meth	IL23A	YES	44
519	meth_TBR1	meth	TBR1	YES	19
519	mrna_CCNF	mrna	CCNF	YES	20
520	meth_DGCR14	meth	DGCR14	YES	6

520	mirna_MIR331	mirna	MIR331	YES	1
522	cnv_RGS21	cnv	RGS21	YES	5
522	meth_HSPB6	meth	HSPB6	YES	12
523	meth_CYTL1	meth	CYTL1	YES	10
523	meth_HCN2	meth	HCN2	YES	32
524	cnv_SNAP47	cnv	SNAP47	YES	17
524	meth_OPRM1	meth	OPRM1	YES	70
525	meth_GATA4	meth	GATA4	YES	76
526	meth_MC3R	meth	MC3R	YES	25
527	cnv_B4GALT3	cnv	B4GALT3	YES	17
527	meth_MIA2	meth	MIA2	YES	5
528	meth_CADPS	meth	CADPS	YES	20
528	meth_PPFIA2	meth	PPFIA2	YES	10
529	cnv_CRP	cnv	CRP	YES	28
529	meth_CD9	meth	CD9	YES	31
530	mrna_VANGL1	mrna	VANGL1	YES	8
531	cnv_LGR6	cnv	LGR6	YES	17
531	mrna_SCN3A	mrna	SCN3A	YES	19
532	meth_KNG1	meth	KNG1	YES	29
533	cnv_AGT	cnv	AGT	YES	111
534	meth_SP2	meth	SP2	YES	14
534	mrna_ASB1	mrna	ASB1	YES	9
535	mrna_FAM13A	mrna	FAM13A	YES	6
535	mrna_HSPB7	mrna	HSPB7	YES	12
536	meth_WNT2	meth	WNT2	YES	42
536	mrna_CCNB2	mrna	CCNB2	YES	19
537	meth_TRPM2	meth	TRPM2	YES	59
537	mrna_ORC6	mrna	ORC6	YES	13
538	meth_BVES	meth	BVES	YES	25
539	meth_HIST1H4F	meth	HIST1H4F	YES	36
539	mrna_SERTM1	mrna	SERTM1	YES	3
540	meth_CYP24A1	meth	CYP24A1	YES	20
540	meth_ZFP42	meth	ZFP42	YES	15
541	cnv_APOA2	cnv	APOA2	YES	72
541	mrna_AURKA	mrna	AURKA	YES	76
542	meth_CACNG5	meth	CACNG5	YES	21
542	meth_IYD	meth	IYD	YES	16
543	meth_MSC	meth	MSC	YES	16
543	meth_NPL	meth	NPL	YES	10
544	meth_COX17	meth	COX17	YES	15
545	meth_TRIM9	meth	TRIM9	YES	23
546	mrna_PPP1R14A	mrna	PPP1R14A	YES	6
547	cnv_VANGL2	cnv	VANGL2	YES	57
548	meth_SYK	meth	SYK	YES	93
549	mrna_E2F2	mrna	E2F2	YES	21
550	meth_SPDEF	meth	SPDEF	YES	17
550	mrna_GRM8	mrna	GRM8	YES	16

551	cnv_HHIPL2	cnv	HHIPL2	YES	5
552	mirna_MIR140	mirna	MIR140	YES	7
553	cnv_USH2A	cnv	USH2A	YES	30
553	mrna_ILF2	mrna	ILF2	YES	20
554	cnv_HAX1	cnv	HAX1	YES	33
554	meth_CALCRL	meth	CALCRL	YES	32
555	meth_SFRP1	meth	SFRP1	YES	115
556	cnv_NENF	cnv	NENF	YES	8
557	mirna_MIR200B	mirna	MIR200B	YES	8
557	mrna_PLIN4	mrna	PLIN4	YES	6
558	cnv_ILF2	cnv	ILF2	YES	20
558	mrna_GLB1	mrna	GLB1	YES	29
559	cnv_GBA	cnv	GBA	YES	48
559	cnv_GPR37L1	cnv	GPR37L1	YES	19
560	cnv_MIA3	cnv	MIA3	YES	22
560	mrna_SFRP1	mrna	SFRP1	YES	115
561	mrna_CENPM	mrna	CENPM	YES	10
562	mrna_HIST1H3G	mrna	HIST1H3G	YES	32
563	cnv_CD48	cnv	CD48	YES	18
563	cnv_KISS1	cnv	KISS1	YES	19
564	cnv_TAF5L	cnv	TAF5L	YES	13
564	meth_GJD2	meth	GJD2	YES	13
565	meth_ETS1	meth	ETS1	YES	49
565	mrna_KCNJ16	mrna	KCNJ16	YES	15
566	meth_FSD1	meth	FSD1	YES	9
566	mrna_ADAR	mrna	ADAR	YES	41
567	cnv_CD84	cnv	CD84	YES	18
567	cnv_CLK2	cnv	CLK2	YES	23
568	cnv_CRABP2	cnv	CRABP2	YES	22
568	meth_RUFY3	meth	RUFY3	YES	23
569	meth_NEURL1	meth	NEURL1	YES	37
570	meth_NEUROG3	meth	NEUROG3	YES	35
570	mrna_BLM	mrna	BLM	YES	71
571	cnv_ARHGEF2	cnv	ARHGEF2	YES	59
571	cnv_KLHL12	cnv	KLHL12	YES	21
573	meth_SEC14L3	meth	SEC14L3	YES	6
573	mirna_MIR449B	mirna	MIR449B	NO	0
574	cnv_ATP8B2	cnv	ATP8B2	YES	18
574	mrna_APH1A	mrna	APH1A	YES	23
575	cnv_TRAF5	cnv	TRAF5	YES	17
576	mrna_GTSE1	mrna	GTSE1	YES	18
576	mrna_CENPO	mrna	CENPO	YES	11
577	mrna_DNA2	mrna	DNA2	YES	46
579	mrna_CLEC3B	mrna	CLEC3B	YES	17
580	meth_SCN2B	meth	SCN2B	YES	24
580	mrna_MND1	mrna	MND1	YES	7
581	mrna_LAMP5	mrna	LAMP5	YES	15

581	mrna_CDH12	mrna	CDH12	YES	9
582	cnv_FLAD1	cnv	FLAD1	YES	16
582	mrna_NR3C2	mrna	NR3C2	YES	22
583	meth_B3GAT1	meth	B3GAT1	YES	17
583	mrna_BPNT1	mrna	BPNT1	YES	10
584	mrna_PGM5	mrna	PGM5	YES	22
585	mrna_LGI4	mrna	LGI4	YES	10
586	meth_HIST1H4L	meth	HIST1H4L	YES	36
587	meth_LEFTY2	meth	LEFTY2	YES	17
588	meth_SLC24A2	meth	SLC24A2	YES	32
589	meth_DNMT1	meth	DNMT1	YES	38
590	mrna_MFAP2	mrna	MFAP2	YES	7
592	meth_RERG	meth	RERG	YES	16
592	mrna_GPX3	mrna	GPX3	YES	16
593	cnv_ADIPOR1	cnv	ADIPOR1	YES	29
594	meth_ATP8A2	meth	ATP8A2	YES	35
594	meth_DNAJC6	meth	DNAJC6	YES	15
596	cnv_ATF3	cnv	ATF3	YES	35
596	meth_MAPK4	meth	MAPK4	YES	22
597	meth_CDH7	meth	CDH7	YES	9
597	meth_VPS51	meth	VPS51	YES	24
598	meth_CLDN15	meth	CLDN15	YES	11
598	mrna_MUC1	mrna	MUC1	YES	32
599	cnv_MPZL1	cnv	MPZL1	YES	10
599	meth_HPSE2	meth	HPSE2	YES	12
600	cnv_LAMC1	cnv	LAMC1	YES	24
600	mrna_IQSEC3	mrna	IQSEC3	YES	9
601	meth_ADCY4	meth	ADCY4	YES	31
601	mrna_ALG1	mrna	ALG1	YES	14
602	cnv_NR5A2	cnv	NR5A2	YES	41
602	mrna_PRNP	mrna	PRNP	YES	86
603	mrna_EEPD1	mrna	EEPD1	YES	4
603	mrna_CKAP4	mrna	CKAP4	YES	23
604	meth_KCNA2	meth	KCNA2	YES	43
605	cnv_NCF2	cnv	NCF2	YES	35
605	mrna_TBCE	mrna	TBCE	YES	18
606	meth_LILRA1	meth	LILRA1	YES	10
607	mrna_TGFBR3	mrna	TGFBR3	YES	63
608	mrna_PROS1	mrna	PROS1	YES	24
609	meth_RAB37	meth	RAB37	YES	19
610	meth_DNTT	meth	DNTT	YES	19
610	meth_MRVI1	meth	MRVI1	YES	8
611	mirna_MIR155	mirna	MIR155	YES	32
613	meth_OR5P3	meth	OR5P3	YES	12
614	meth_FFAR2	meth	FFAR2	YES	26
615	meth_HTATIP2	meth	HTATIP2	YES	18
615	meth_STC2	meth	STC2	YES	26

616	meth_HTR1B	meth	HTR1B	YES	39
616	mrna_ERCC6L	mrna	ERCC6L	YES	15
618	meth_EPHA5	meth	EPHA5	YES	39
618	mrna_GGCT	mrna	GGCT	YES	8
619	meth_MAS1	meth	MAS1	YES	33
620	cnv_TOMM40L	cnv	TOMM40L	YES	16
621	mrna_HTR1D	mrna	HTR1D	YES	21
622	meth_HHIPL2	meth	HHIPL2	YES	5
623	meth_SLIT2	meth	SLIT2	YES	63
623	mirna_MIR206	mirna	MIR206	YES	4
624	meth_TGFBR1	meth	TGFBR1	YES	112
624	mrna_RAD51AP1	mrna	RAD51AP1	YES	18
625	mrna_ECT2	mrna	ECT2	YES	45
625	mrna_ATIC	mrna	ATIC	YES	25
627	cnv_HDGF	cnv	HDGF	YES	19
627	mrna_CDCA8	mrna	CDCA8	YES	23
628	mrna_GGTA1P	mrna	GGTA1P	NO	0
629	cnv_RGSL1	cnv	RGSL1	YES	6
630	cnv_SHCBP1L	cnv	SHCBP1L	YES	7
630	mrna_DACT2	mrna	DACT2	YES	14
631	cnv_CYB5R1	cnv	CYB5R1	YES	20
631	cnv_OR2G3	cnv	OR2G3	YES	11
632	meth_RALGPS1	meth	RALGPS1	YES	11
633	cnv_RPS6KC1	cnv	RPS6KC1	YES	14
633	meth_TAL2	meth	TAL2	YES	13
634	cnv_IQGAP3	cnv	IQGAP3	YES	23
634	meth_GML	meth	GML	YES	8
635	meth_SPP2	meth	SPP2	YES	11
636	cnv_TARS2	cnv	TARS2	YES	18
638	cnv_FMN2	cnv	FMN2	YES	38
639	meth_GALNT7	meth	GALNT7	YES	14
640	mrna_CENPF	mrna	CENPF	YES	49
642	cnv_S100A7A	cnv	S100A7A	YES	5
642	meth_PRKCG	meth	PRKCG	YES	48
643	meth_AIM2	meth	AIM2	YES	28
643	meth_IVL	meth	IVL	YES	15
644	cnv_GNG4	cnv	GNG4	YES	11
645	cnv_CFH	cnv	CFH	YES	12
645	meth_MOV10L1	meth	MOV10L1	YES	17
646	cnv_HSD17B7	cnv	HSD17B7	YES	15
646	meth_MYT1	meth	MYT1	YES	12
647	cnv_NEK2	cnv	NEK2	YES	50
648	meth_HS3ST2	meth	HS3ST2	YES	10
648	meth_TNFSF15	meth	TNFSF15	YES	17
649	cnv_CENPF	cnv	CENPF	YES	49
649	mirna_MIR429	mirna	MIR429	NO	0
650	mrna_LIPE	mrna	LIPE	YES	21

651	mrna_CEP68	mrna	CEP68	YES	13
651	mrna_PYGO2	mrna	PYGO2	YES	24
652	meth_GPR160	meth	GPR160	YES	8
653	cnv_CEP170	cnv	CEP170	YES	11
653	meth_DDAH2	meth	DDAH2	YES	18
654	meth_KCNN3	meth	KCNN3	YES	14
655	meth_CRYBB3	meth	CRYBB3	YES	3
657	cnv_CRB1	cnv	CRB1	YES	15
658	mrna_CERS6	mrna	CERS6	YES	13
660	cnv_IGSF8	cnv	IGSF8	YES	10
663	meth_LST1	meth	LST1	YES	13
664	meth_IL18RAP	meth	IL18RAP	YES	10
664	mrna_MMP13	mrna	MMP13	YES	23
665	cnv_ADORA1	cnv	ADORA1	YES	79
665	meth_DPPA2	meth	DPPA2	YES	9
666	meth_BDNF	meth	BDNF	YES	48
666	meth_EVC2	meth	EVC2	YES	11
667	meth_HIST1H1A	meth	HIST1H1A	YES	14
668	mrna_BUB1B	mrna	BUB1B	YES	40
669	cnv_ILDR2	cnv	ILDR2	YES	9
669	cnv_MEF2D	cnv	MEF2D	YES	32
670	cnv_RBBP5	cnv	RBBP5	YES	21
670	stv_PIGQ	stv	PIGQ	YES	10
671	meth_DHCR24	meth	DHCR24	YES	45
671	meth_EDNRB	meth	EDNRB	YES	55
672	cnv_OR2G2	cnv	OR2G2	YES	11
673	cnv_AKT3	cnv	AKT3	YES	21
677	cnv_TMEM63A	cnv	TMEM63A	YES	14
678	mrna_MRAS	mrna	MRAS	YES	16
679	cnv_RGS13	cnv	RGS13	YES	10
680	mrna_SYNDIG1	mrna	SYNDIG1	YES	25
683	cnv_PMVK	cnv	PMVK	YES	21
683	mrna_SLC39A11	mrna	SLC39A11	YES	14
684	meth_KRT84	meth	KRT84	YES	14
686	cnv_USF1	cnv	USF1	YES	37
686	meth_CLIC3	meth	CLIC3	YES	16
687	mrna_PIGM	mrna	PIGM	YES	9
687	mrna_HES6	mrna	HES6	YES	16
689	cnv_PROX1	cnv	PROX1	YES	81
689	meth_SPPL3	meth	SPPL3	YES	27
690	cnv_SCYL3	cnv	SCYL3	YES	10
690	mrna_TSPAN7	mrna	TSPAN7	YES	5
691	cnv_FAM129A	cnv	FAM129A	YES	12
693	meth_GRIA1	meth	GRIA1	YES	56
693	mrna_GRM4	mrna	GRM4	YES	21
694	meth_FCGRT	meth	FCGRT	YES	12
694	mrna_GPR146	mrna	GPR146	YES	7

695	cnv_OR10T2	cnv	OR10T2	YES	13
695	meth_TTR	meth	TTR	YES	19
696	meth_SLC10A2	meth	SLC10A2	YES	14
696	mrna_KIF14	mrna	KIF14	YES	51
697	cnv_MAEL	cnv	MAEL	YES	30
697	mrna_PSMD14	mrna	PSMD14	YES	55
698	mrna_COX6C	mrna	COX6C	YES	8
699	cnv_H3F3A	cnv	H3F3A	YES	47
699	cnv_RNPEP	cnv	RNPEP	YES	18
701	meth_LGALS8	meth	LGALS8	YES	13
701	meth_NF1	meth	NF1	YES	90
702	stv_HIST1H1C	stv	HIST1H1C	YES	15
703	cnv_CD34	cnv	CD34	YES	57
703	mrna_GBA	mrna	GBA	YES	48
704	cnv_SYT11	cnv	SYT11	YES	53
705	meth_CTSG	meth	CTSG	YES	34
705	mrna_TACR1	mrna	TACR1	YES	67
706	meth_OR51E2	meth	OR51E2	YES	17
707	cnv_PIGC	cnv	PIGC	YES	11
709	cnv_SLC9C2	cnv	SLC9C2	YES	16
709	mrna_CXCL11	mrna	CXCL11	YES	23
711	meth_PAX4	meth	PAX4	YES	24
712	mrna_BGN	mrna	BGN	YES	27
713	mrna_CENPL	mrna	CENPL	YES	8
714	cnv_RABIF	cnv	RABIF	YES	12
714	mrna_CST1	mrna	CST1	YES	9
715	meth_OTP	meth	OTP	YES	12
715	mrna_SLC26A10	mrna	SLC26A10	YES	19
716	mrna_ADAM8	mrna	ADAM8	YES	57
717	meth_GYPC	meth	GYPC	YES	15
717	meth_NPTX2	meth	NPTX2	YES	7
718	mrna_FMO2	mrna	FMO2	YES	19
720	cnv_AIM2	cnv	AIM2	YES	28
720	mrna_CERS2	mrna	CERS2	YES	15
721	cnv_CTSS	cnv	CTSS	YES	33
722	meth_PTPRR	meth	PTPRR	YES	22
722	mrna_PTTG1	mrna	PTTG1	YES	25
723	cnv_NEK7	cnv	NEK7	YES	22
723	mrna_RAB8A	mrna	RAB8A	YES	59
724	mrna_MAL2	mrna	MAL2	YES	15
725	cnv_CACNA1S	cnv	CACNA1S	YES	27
726	mrna_BRI3BP	mrna	BRI3BP	YES	4
727	cnv_SELL	cnv	SELL	YES	18
728	mrna_ENTPD7	mrna	ENTPD7	YES	9
729	mrna_IRF7	mrna	IRF7	YES	46
730	meth_IRF6	meth	IRF6	YES	25
731	cnv_GPR161	cnv	GPR161	YES	15

731	cnv_SOX13	cnv	SOX13	YES	11
732	cnv_CGN	cnv	CGN	YES	10
732	mrna_CKS2	mrna	CKS2	YES	18
733	meth_FOLH1B	meth	FOLH1B	NO	0
734	meth_PPP2R5A	meth	PPP2R5A	YES	16
734	mrna_POLE2	mrna	POLE2	YES	18
736	mrna_RFC2	mrna	RFC2	YES	24
736	mrna_PPP4C	mrna	PPP4C	YES	17
737	mrna_KIF18B	mrna	KIF18B	YES	25
740	cnv_CR1	cnv	CR1	YES	26
740	cnv_F5	cnv	F5	YES	25
741	cnv_YOD1	cnv	YOD1	YES	28
741	meth_ZDHHC4	meth	ZDHHC4	YES	6
742	mrna_CLSPN	mrna	CLSPN	YES	17
742	mrna_ESCO2	mrna	ESCO2	YES	22
743	cnv_ARHGEF11	cnv	ARHGEF11	YES	25
743	meth_PAQR9	meth	PAQR9	YES	7
744	mrna_NCAPH	mrna	NCAPH	YES	18
745	mrna_AVPR2	mrna	AVPR2	YES	36
746	cnv_PGLYRP3	cnv	PGLYRP3	YES	23
746	meth_ARHGEF25	meth	ARHGEF25	YES	10
747	mrna_ACBD3	mrna	ACBD3	YES	11
748	cnv_SIPA1L2	cnv	SIPA1L2	YES	5
748	meth_KCNB2	meth	KCNB2	YES	24
749	cnv_ARHGAP30	cnv	ARHGAP30	YES	8
749	meth_SCRT1	meth	SCRT1	YES	13
750	meth_MGAT1	meth	MGAT1	YES	15
751	meth_CHL1	meth	CHL1	YES	22
751	stv_CDC25B	stv	CDC25B	YES	28
752	cnv_SDHC	cnv	SDHC	YES	17
753	meth_KCNAB3	meth	KCNAB3	YES	12
753	mrna_NMUR1	mrna	NMUR1	YES	20
754	cnv_XCL1	cnv	XCL1	YES	53
754	meth_TTPAL	meth	TTPAL	YES	4
755	mrna_F11R	mrna	F11R	YES	34
756	meth_LIN28A	meth	LIN28A	YES	39
756	mrna_SBK1	mrna	SBK1	YES	11
758	mrna_COMP	mrna	COMP	YES	20
759	meth_CCL1	meth	CCL1	YES	24
760	meth_BTNL2	meth	BTNL2	YES	7
760	meth_CDH4	meth	CDH4	YES	12
761	cnv_CD1A	cnv	CD1A	YES	17
761	meth_MMP26	meth	MMP26	YES	12
762	cnv_CNIH4	cnv	CNIH4	YES	10
762	mrna_MYBL2	mrna	MYBL2	YES	19
763	mrna_HIST1H3H	mrna	HIST1H3H	YES	32
764	meth_SIRPB1	meth	SIRPB1	YES	11

765	cnv_OR2B11	cnv	OR2B11	YES	11
766	meth_GLP1R	meth	GLP1R	YES	25
768	cnv_IKBKE	cnv	IKBKE	YES	34
770	mrna_MCM4	mrna	MCM4	YES	19
772	meth_HOXD12	meth	HOXD12	YES	12
773	cnv_COPA	cnv	COPA	YES	24
775	cnv_LGALS8	cnv	LGALS8	YES	13
775	cnv_THBS3	cnv	THBS3	YES	10
776	mrna_ADAM19	mrna	ADAM19	YES	14
777	meth_FLRT2	meth	FLRT2	YES	37
778	meth_TMPRSS6	meth	TMPRSS6	YES	26
778	mrna_GSR	mrna	GSR	YES	18
779	mrna_TPM3	mrna	TPM3	YES	21
780	cnv_UBE2T	cnv	UBE2T	YES	25
780	mrna_GPD1	mrna	GPD1	YES	25
781	stv_PIP5K1C	stv	PIP5K1C	YES	43
782	meth_CD38	meth	CD38	YES	38
782	meth_RUNDC3A	meth	RUNDC3A	YES	10
783	cnv_LCE4A	cnv	LCE4A	YES	8
784	meth_MGST1	meth	MGST1	YES	30
784	mrna_TGFBR2	mrna	TGFBR2	YES	115
785	mrna_HM13	mrna	HM13	YES	23
786	mirna_MIR590	mirna	MIR590	YES	18
786	mrna_SCN4B	mrna	SCN4B	YES	26
788	mrna_NTF4	mrna	NTF4	YES	21
790	mrna_EPYC	mrna	EPYC	YES	6
791	mrna_LAMTOR2	mrna	LAMTOR2	YES	25
792	cnv_REN	cnv	REN	YES	33
792	cnv_RXRG	cnv	RXRG	YES	22
793	meth_GNG4	meth	GNG4	YES	11
794	mrna_SLC2A4	mrna	SLC2A4	YES	46
795	meth_HAND2	meth	HAND2	YES	67
795	mrna_RRM2	mrna	RRM2	YES	20
796	mrna_ARHGAP19	mrna	ARHGAP19	YES	7
798	mrna_ABCA10	mrna	ABCA10	YES	11
799	mrna_PITX1	mrna	PITX1	YES	26
800	mrna_COL12A1	mrna	COL12A1	YES	15
801	mrna_IPO9	mrna	IPO9	YES	13
802	meth_NID2	meth	NID2	YES	14
803	meth_CCL7	meth	CCL7	YES	31
804	mrna_METTL7A	mrna	METTL7A	YES	12
805	meth_CLEC1A	meth	CLEC1A	YES	8
806	meth_PRSS1	meth	PRSS1	YES	13
807	cnv_CHI3L1	cnv	CHI3L1	YES	29
807	mrna_KIF23	mrna	KIF23	YES	35
808	cnv_SLAMF6	cnv	SLAMF6	YES	15
808	cnv_SLC30A10	cnv	SLC30A10	YES	29

809	meth_RNF220	meth	RNF220	YES	9
810	meth_RNF167	meth	RNF167	YES	12
810	mrna_ROBO3	mrna	ROBO3	YES	10
811	cnv_MTR	cnv	MTR	YES	20
813	mrna_MAB21L1	mrna	MAB21L1	YES	12
814	meth_PPP1R17	meth	PPP1R17	YES	9
815	mrna_DAP3	mrna	DAP3	YES	17
815	mrna_S100A14	mrna	S100A14	YES	16
816	cnv_CAPN2	cnv	CAPN2	YES	35
816	meth_RALGPS2	meth	RALGPS2	YES	8
817	cnv_DISC1	cnv	DISC1	YES	55
817	cnv_LMOD1	cnv	LMOD1	YES	15
818	meth_NPY	meth	NPY	YES	29
819	meth_NFATC2	meth	NFATC2	YES	38
820	cnv_S100A11	cnv	S100A11	YES	21
820	meth_PRRX2	meth	PRRX2	YES	14
821	mrna_TSTA3	mrna	TSTA3	YES	18
821	mrna_SNCA	mrna	SNCA	YES	140
824	cnv_RGS7	cnv	RGS7	YES	16
824	meth_CYFIP2	meth	CYFIP2	YES	20
826	cnv_FCAMR	cnv	FCAMR	YES	10
826	mrna_EPRS	mrna	EPRS	YES	30
827	cnv_SLC26A9	cnv	SLC26A9	YES	27
827	meth_LTV1	meth	LTV1	YES	10
829	meth_C14orf39	meth	C14orf39	YES	12
830	mrna_SLC25A44	mrna	SLC25A44	YES	9
831	meth_CSMD3	meth	CSMD3	YES	4
832	mrna_ATP6AP1	mrna	ATP6AP1	YES	31
833	meth_WNT5B	meth	WNT5B	YES	23
834	cnv_OR6N1	cnv	OR6N1	YES	11
836	meth_GJA5	meth	GJA5	YES	76
838	meth_ASTN2	meth	ASTN2	YES	18
839	cnv_SSR2	cnv	SSR2	YES	8
839	meth_TUBB6	meth	TUBB6	YES	14
840	cnv_SLC30A1	cnv	SLC30A1	YES	30
841	cnv_FLVCR1	cnv	FLVCR1	YES	27
841	mrna_SNX27	mrna	SNX27	YES	22
842	meth_CD5L	meth	CD5L	YES	12
843	meth_IL17F	meth	IL17F	YES	21
843	mrna_DOPEY2	mrna	DOPEY2	YES	12
844	meth_OSTM1	meth	OSTM1	YES	7
845	meth_MRPL36	meth	MRPL36	YES	11
846	meth_MT3	meth	MT3	YES	81
847	cnv_DEDD	cnv	DEDD	YES	14
848	meth_ADPRHL1	meth	ADPRHL1	YES	11
849	mirna_MIR375	mirna	MIR375	YES	2
849	mrna_NRN1	mrna	NRN1	YES	14

850	mrna_HJURP	mrna	HJURP	YES	17
850	mrna_CTHRC1	mrna	CTHRC1	YES	17
851	meth_GHDC	meth	GHDC	YES	10
851	meth_PCDHGA1	meth	PCDHGA1	YES	9
852	meth_FIZ1	meth	FIZ1	YES	9
853	mrna_GNAL	mrna	GNAL	YES	20
854	cnv_NES	cnv	NES	YES	20
854	mrna_BUB1	mrna	BUB1	YES	31
855	meth_ZNF366	meth	ZNF366	YES	12
855	mrna_ADAMTS5	mrna	ADAMTS5	YES	19
857	cnv_LMNA	cnv	LMNA	YES	33
857	meth_DNM3	meth	DNM3	YES	36
858	meth_IMPDH1	meth	IMPDH1	YES	22
858	mrna_UBE2T	mrna	UBE2T	YES	25
859	cnv_SERPINC1	cnv	SERPINC1	YES	22
859	meth_GJD4	meth	GJD4	YES	8
860	meth_CDH12	meth	CDH12	YES	9
861	mrna_INHBA	mrna	INHBA	YES	66
861	mrna_STAB2	mrna	STAB2	YES	24
863	mrna_POLQ	mrna	POLQ	YES	28
863	mrna_TBC1D4	mrna	TBC1D4	YES	17
864	meth_PDGFRB	meth	PDGFRB	YES	108
865	meth_KCNH5	meth	KCNH5	YES	24
865	meth_PLEC	meth	PLEC	YES	23
866	meth_SOX14	meth	SOX14	YES	17
866	mrna_ACTG2	mrna	ACTG2	YES	16
868	meth_TBX21	meth	TBX21	YES	18
868	mrna_TBL2	mrna	TBL2	YES	9
869	meth_TMEM184A	meth	TMEM184A	YES	14
869	mrna_STARD9	mrna	STARD9	YES	13
870	mrna_MKI67	mrna	MKI67	YES	25
870	mrna_KIF24	mrna	KIF24	YES	19
872	mrna_NUSAP1	mrna	NUSAP1	YES	20
873	mrna_SUCO	mrna	SUCO	YES	10
875	cnv_MSTO1	cnv	MSTO1	YES	8
876	cnv_PTGS2	cnv	PTGS2	YES	100
876	meth_ACVRL1	meth	ACVRL1	YES	77
878	meth_IRF4	meth	IRF4	YES	36
879	cnv_NUCKS1	cnv	NUCKS1	YES	31
880	cnv_GNPAT	cnv	GNPAT	YES	26
881	meth_OR1G1	meth	OR1G1	YES	13
882	cnv_RGS16	cnv	RGS16	YES	12
883	meth_KCNJ11	meth	KCNJ11	YES	53
883	mrna_CENPK	mrna	CENPK	YES	10
884	cnv_PTPN7	cnv	PTPN7	YES	12
884	mrna_TMED3	mrna	TMED3	YES	17
885	meth_CRYAB	meth	CRYAB	YES	58

885	mrna_ADSS	mrna	ADSS	YES	22
886	mrna_MYOM1	mrna	MYOM1	YES	23
887	meth_GABBR2	meth	GABBR2	YES	21
888	cnv_PARP1	cnv	PARP1	YES	87
889	cnv_EGLN1	cnv	EGLN1	YES	31
889	mrna_CDH11	mrna	CDH11	YES	14
890	cnv_DUSP10	cnv	DUSP10	YES	40
890	mrna_BMP5	mrna	BMP5	YES	43
891	cnv_ARF1	cnv	ARF1	YES	64
894	cnv_CHML	cnv	CHML	YES	20
894	mrna_MYLK	mrna	MYLK	YES	30
895	cnv_HHAT	cnv	HHAT	YES	14
897	cnv_ATP6V1G3	cnv	ATP6V1G3	YES	14
897	meth_CFLAR	meth	CFLAR	YES	51
898	cnv_DEGS1	cnv	DEGS1	YES	19
898	mrna_FAP	mrna	FAP	YES	44
899	cnv_ETNK2	cnv	ETNK2	YES	16
899	mrna_ANGPT4	mrna	ANGPT4	YES	16
901	meth_IGFN1	meth	IGFN1	YES	5
901	meth_PCSK4	meth	PCSK4	YES	17
902	meth_RAB11FIP4	meth	RAB11FIP4	YES	25
903	mrna_RCC2	mrna	RCC2	YES	38
904	cnv_SYT2	cnv	SYT2	YES	25
904	stv_PRPF19	stv	PRPF19	YES	41
905	meth_ALDH5A1	meth	ALDH5A1	YES	27
905	mrna_FN1	mrna	FN1	YES	55
906	mrna_TSPYL2	mrna	TSPYL2	YES	20
907	meth_LRRFIP1	meth	LRRFIP1	YES	21
907	meth_SLC12A5	meth	SLC12A5	YES	27
909	mrna_HIST1H2BJ	mrna	HIST1H2BJ	YES	21
910	mrna_ORC1	mrna	ORC1	YES	19
911	cnv_FLG2	cnv	FLG2	YES	11
912	mrna_POGK	mrna	POGK	YES	7
913	cnv_OPN3	cnv	OPN3	YES	16
913	mrna_ABHD12	mrna	ABHD12	YES	13
914	meth_AHSP	meth	AHSP	YES	10
915	stv_AP2A2	stv	AP2A2	YES	38
917	cnv_ANP32E	cnv	ANP32E	YES	12
918	cnv_LELP1	cnv	LELP1	YES	5
919	meth_CAPS2	meth	CAPS2	YES	5
919	meth_GUK1	meth	GUK1	YES	19
920	cnv_SYT14	cnv	SYT14	YES	7
921	meth_ST8SIA2	meth	ST8SIA2	YES	19
921	mrna_CHEK1	mrna	CHEK1	YES	53
922	mrna_CEP55	mrna	CEP55	YES	17
924	cnv_HORMAD1	cnv	HORMAD1	YES	15
924	meth_DRD2	meth	DRD2	YES	128

925	cnv_THEM4	cnv	THEM4	YES	20
925	meth_DSP	meth	DSP	YES	43
926	mrna_HIST1H2BD	mrna	HIST1H2BD	YES	11
927	cnv_HCN3	cnv	HCN3	YES	29
928	meth_LRRC15	meth	LRRC15	YES	14
929	meth_CCL18	meth	CCL18	YES	23
931	mirna_MIR330	mirna	MIR330	NO	0
932	cnv_NPHS2	cnv	NPHS2	YES	14
933	mrna_SLC16A12	mrna	SLC16A12	YES	4
934	cnv_IARS2	cnv	IARS2	YES	15
937	mrna_CDK1	mrna	CDK1	YES	99
940	meth_TAAR6	meth	TAAR6	YES	8
941	cnv_MPZ	cnv	MPZ	YES	14
942	mrna_BZW2	mrna	BZW2	YES	7
944	mrna_PCNA	mrna	PCNA	YES	65
944	mrna_DMD	mrna	DMD	YES	100
945	meth_FLG	meth	FLG	YES	18
946	cnv_INSRR	cnv	INSRR	YES	21
946	cnv_SPHAR	cnv	SPHAR	YES	1
947	meth_CA3	meth	CA3	YES	13
948	meth_COL23A1	meth	COL23A1	YES	7
949	meth_KRT4	meth	KRT4	YES	13
950	mrna_HMMR	mrna	HMMR	YES	9
950	mrna_PSMA5	mrna	PSMA5	YES	44
951	cnv_S100A1	cnv	S100A1	YES	24
951	mrna_STRBP	mrna	STRBP	YES	13
952	mrna_IQGAP3	mrna	IQGAP3	YES	23
953	mrna_LTBP4	mrna	LTBP4	YES	21
954	mrna_TYMS	mrna	TYMS	YES	52
956	stv_SLK	stv	SLK	YES	26
957	cnv_CENPL	cnv	CENPL	YES	8
957	mrna_ASF1B	mrna	ASF1B	YES	17
958	cnv_ARNT	cnv	ARNT	YES	38
959	mirna_MIR1226	mirna	MIR1226	NO	0
960	mrna_PCDH17	mrna	PCDH17	YES	14
962	mirna_MIR210	mirna	MIR210	YES	3
962	mrna_PDIA4	mrna	PDIA4	YES	17
964	cnv_UAP1	cnv	UAP1	YES	14
964	meth_KRT20	meth	KRT20	YES	12
965	cnv_C4BPA	cnv	C4BPA	YES	14
966	mrna_SLC17A7	mrna	SLC17A7	YES	45
967	meth_FGG	meth	FGG	YES	50
968	mrna_KPNA2	mrna	KPNA2	YES	21
970	meth_SLC22A8	meth	SLC22A8	YES	18
970	mrna_CLEC5A	mrna	CLEC5A	YES	21
971	cnv_KCNN3	cnv	KCNN3	YES	14
972	cnv_PIP5K1A	cnv	PIP5K1A	YES	43

972	cnv_S100A2	cnv	S100A2	YES	7
974	meth_SIRPG	meth	SIRPG	YES	13
975	meth_NPBWR2	meth	NPBWR2	YES	17
975	meth_TICAM1	meth	TICAM1	YES	43
976	meth_PGLYRP3	meth	PGLYRP3	YES	23
978	mrna_MBOAT7	mrna	MBOAT7	YES	16
978	mrna_GPR19	mrna	GPR19	YES	11
980	mrna_ECE2	mrna	ECE2	YES	23
981	mrna_FXYD1	mrna	FXYD1	YES	27
982	meth_COL5A2	meth	COL5A2	YES	20
983	meth_GPR83	meth	GPR83	YES	11
984	cnv_RYR2	cnv	RYR2	YES	78
986	mrna_PAFAH1B3	mrna	PAFAH1B3	YES	16
987	cnv_GJC2	cnv	GJC2	YES	14
987	mrna_HIF3A	mrna	HIF3A	YES	22
988	cnv_VASH2	cnv	VASH2	YES	10
989	cnv_CDC42BPA	cnv	CDC42BPA	YES	23
989	cnv_FLG	cnv	FLG	YES	18
990	cnv_RAB25	cnv	RAB25	YES	19
990	mrna_GPBAR1	mrna	GPBAR1	YES	12
991	cnv_UHMK1	cnv	UHMK1	YES	31
991	meth_SLC2A5	meth	SLC2A5	YES	27
992	cnv_RUSC1	cnv	RUSC1	YES	21
992	meth_MNX1	meth	MNX1	YES	23
993	meth_EBF1	meth	EBF1	YES	10
994	mrna_GPR68	mrna	GPR68	YES	14
995	mrna_CBX4	mrna	CBX4	YES	24
996	meth_T	meth	T	YES	48
997	cnv_TIPRL	cnv	TIPRL	YES	4
998	cnv_TPM3	cnv	TPM3	YES	21
999	mrna_TMEM8A	mrna	TMEM8A	YES	10
999	mrna_NUP210	mrna	NUP210	YES	23
1000	meth_SLC19A1	meth	SLC19A1	YES	15
1000	mrna_HDGF	mrna	HDGF	YES	19
1001	cnv_VPS45	cnv	VPS45	YES	15
1002	cnv_F11R	cnv	F11R	YES	34
1003	mrna_OLR1	mrna	OLR1	YES	23
1004	meth_CD80	meth	CD80	YES	30
1005	meth_FUT2	meth	FUT2	YES	13
1006	cnv_TOR1AIP2	cnv	TOR1AIP2	YES	12
1008	mrna_HMGB3	mrna	HMGB3	YES	18
1009	cnv_RC3H1	cnv	RC3H1	YES	34
1010	meth_TMOD3	meth	TMOD3	YES	15
1011	mrna_PCSK1	mrna	PCSK1	YES	15
1011	mrna_MME	mrna	MME	YES	36
1012	mrna_CREB3L1	mrna	CREB3L1	YES	25
1013	meth_MPP2	meth	MPP2	YES	22

1014	cnv_DDR2	cnv	DDR2	YES	41
1014	meth_PHLDA2	meth	PHLDA2	YES	11
1015	mrna_KNTC1	mrna	KNTC1	YES	21
1016	mrna_ANXA9	mrna	ANXA9	YES	12
1017	meth_VSX1	meth	VSX1	YES	15
1018	mrna_IL17RD	mrna	IL17RD	YES	12
1020	meth_PTK6	meth	PTK6	YES	39
1021	mrna_NUF2	mrna	NUF2	YES	15
1021	mrna_RECQL4	mrna	RECQL4	YES	11
1023	cnv_PTPN14	cnv	PTPN14	YES	19
1023	mrna_HOXA2	mrna	HOXA2	YES	24
1026	mrna_EME1	mrna	EME1	YES	24
1027	meth_BLNK	meth	BLNK	YES	15
1028	meth_KCNH8	meth	KCNH8	YES	19
1029	mrna_HSD17B6	mrna	HSD17B6	YES	18
1030	mrna_ASPM	mrna	ASPM	YES	31
1031	cnv_TRIM67	cnv	TRIM67	YES	8
1031	meth_RPL22	meth	RPL22	YES	23
1032	cnv_DISP1	cnv	DISP1	YES	16
1033	cnv_BATF3	cnv	BATF3	YES	15
1033	meth_IHH	meth	IHH	YES	66
1036	meth_AKR7L	meth	AKR7L	YES	6
1038	meth_CHRNA6	meth	CHRNA6	YES	27
1040	meth_OGDH	meth	OGDH	YES	29
1040	meth_RXRB	meth	RXRB	YES	23
1041	mrna_PTN	mrna	PTN	YES	67
1041	mrna_KIF2C	mrna	KIF2C	YES	40
1042	cnv_GGPS1	cnv	GGPS1	YES	16
1042	cnv_KIF26B	cnv	KIF26B	YES	14
1043	cnv_PBX1	cnv	PBX1	YES	39
1044	meth_ATP4A	meth	ATP4A	YES	23
1046	mrna_UBQLN4	mrna	UBQLN4	YES	16
1047	meth_OR8B8	meth	OR8B8	YES	12
1047	mrna_PARP1	mrna	PARP1	YES	87
1048	cnv_TLR5	cnv	TLR5	YES	20
1048	stv_ZMYM4	stv	ZMYM4	YES	11
1049	cnv_TROVE2	cnv	TROVE2	YES	14
1051	mrna_KCNIP2	mrna	KCNIP2	YES	34
1052	meth_RYR2	meth	RYR2	YES	78
1053	mrna_TDO2	mrna	TDO2	YES	16
1053	mrna_KIFC1	mrna	KIFC1	YES	23
1054	cnv_ADSS	cnv	ADSS	YES	22
1055	cnv_TPR	cnv	TPR	YES	67
1058	cnv_S100A8	cnv	S100A8	YES	52
1058	meth_TNFRSF8	meth	TNFRSF8	YES	24
1059	mrna_ABCA5	mrna	ABCA5	YES	23
1060	cnv_FCER1A	cnv	FCER1A	YES	22

1060	meth_NOX4	meth	NOX4	YES	53
1062	stv_PLXNB3	stv	PLXNB3	YES	24
1064	cnv_SHC1	cnv	SHC1	YES	49
1064	mrna_FEN1	mrna	FEN1	YES	37
1065	mrna_GJB2	mrna	GJB2	YES	35
1065	mrna_MT1X	mrna	MT1X	YES	11
1066	cnv_MAL2	cnv	MAL2	YES	15
1066	cnv_NHLH1	cnv	NHLH1	YES	13
1067	cnv_AHCTF1	cnv	AHCTF1	YES	27
1068	cnv_GORAB	cnv	GORAB	YES	10
1068	stv_GRK6	stv	GRK6	YES	16
1070	cnv_CTSE	cnv	CTSE	YES	11
1070	mrna_FLAD1	mrna	FLAD1	YES	16
1071	mrna_EZH2	mrna	EZH2	YES	69
1072	mrna_TNXB	mrna	TNXB	YES	23
1074	mrna_SLC25A27	mrna	SLC25A27	YES	22
1075	cnv_PRR9	cnv	PRR9	YES	5
1076	mrna_TNFSF4	mrna	TNFSF4	YES	62
1078	meth_CYP4F2	meth	CYP4F2	YES	46
1080	meth_XDH	meth	XDH	YES	36
1083	cnv_MAP10	cnv	MAP10	YES	17
1083	cnv_SH2D1B	cnv	SH2D1B	YES	11
1084	meth_SCG5	meth	SCG5	YES	12
1084	mrna_MICU3	mrna	MICU3	YES	7
1085	cnv_MNDA	cnv	MNDA	YES	18
1085	mrna_SCN5A	mrna	SCN5A	YES	77
1086	cnv_PKP1	cnv	PKP1	YES	26
1089	cnv_USP21	cnv	USP21	YES	24
1089	meth_KCNA1	meth	KCNA1	YES	54
1090	meth_LMX1A	meth	LMX1A	YES	30
1091	meth_CDX2	meth	CDX2	YES	36
1092	meth_SCN7A	meth	SCN7A	YES	21
1092	mrna_DAB2IP	mrna	DAB2IP	YES	114
1094	mrna_KIF26B	mrna	KIF26B	YES	14
1095	meth_SOX11	meth	SOX11	YES	66
1097	mirna_MIR141	mirna	MIR141	YES	6
1097	mrna_RMI2	mrna	RMI2	YES	10
1098	mirna_MIR17	mirna	MIR17	YES	17
1100	mrna_TRIM59	mrna	TRIM59	YES	17
1101	meth_CCDC8	meth	CCDC8	YES	13
1102	meth_KCNK18	meth	KCNK18	YES	15
1103	mrna_TLCD1	mrna	TLCD1	YES	3
1104	meth_ADCY8	meth	ADCY8	YES	28
1105	meth_RIT2	meth	RIT2	YES	30
1105	mrna_LEF1	mrna	LEF1	YES	105
1108	cnv_PPFIA4	cnv	PPFIA4	YES	9
1108	meth_KCNMB2	meth	KCNMB2	YES	18

1110	mrna_GARS	mrna	GARS	YES	22
1111	cnv_ESRRG	cnv	ESRRG	YES	21
1111	mrna_ALPL	mrna	ALPL	YES	30
1112	mrna_TRIP13	mrna	TRIP13	YES	20
1115	meth_ACOT7	meth	ACOT7	YES	20
1117	meth_C1S	meth	C1S	YES	18
1118	mrna_CLDN11	mrna	CLDN11	YES	15
1119	mrna_KIF20A	mrna	KIF20A	YES	25
1122	meth_EXOC6	meth	EXOC6	YES	13
1124	meth_TIGIT	meth	TIGIT	YES	17
1125	meth_KISS1	meth	KISS1	YES	19
1125	meth_S100A5	meth	S100A5	YES	8
1126	cnv_PFKFB2	cnv	PFKFB2	YES	27
1127	mrna_MYZAP	mrna	MYZAP	YES	12
1128	cnv_RGS18	cnv	RGS18	YES	7
1129	mrna_FAM126A	mrna	FAM126A	YES	11
1130	meth_GREM1	meth	GREM1	YES	61
1134	mrna_SDS	mrna	SDS	YES	14
1136	cnv_SEMA6C	cnv	SEMA6C	YES	8
1136	mrna_MAD2L1	mrna	MAD2L1	YES	32
1137	meth_HOPX	meth	HOPX	YES	17
1138	meth_GPR26	meth	GPR26	YES	10
1139	mrna_MIS18A	mrna	MIS18A	YES	16
1141	meth_UGT3A2	meth	UGT3A2	YES	10
1143	meth_SCN3B	meth	SCN3B	YES	36
1145	meth_ACTL6B	meth	ACTL6B	YES	17
1146	meth_TRIM40	meth	TRIM40	YES	11
1152	meth_ITFG2	meth	ITFG2	YES	11
1155	mirna_MIR767	mirna	MIR767	YES	2
1159	meth_MARVELD1	meth	MARVELD1	YES	12
1160	cnv_FAM20B	cnv	FAM20B	YES	15
1164	meth_AQP1	meth	AQP1	YES	101
1164	meth_CGB2	meth	CGB2	YES	2
1165	meth_HOXB1	meth	HOXB1	YES	23
1165	mrna_CD300LG	mrna	CD300LG	YES	13
1166	mrna_CKAP5	mrna	CKAP5	YES	31
1168	cnv_POGK	cnv	POGK	YES	7
1169	meth_HMGCL	meth	HMGCL	YES	26
1169	mrna_KCNB1	mrna	KCNB1	YES	48
1173	mrna_MTHFD2	mrna	MTHFD2	YES	16
1175	meth_FOXA2	meth	FOXA2	YES	65
1176	meth_TMC2	meth	TMC2	YES	11
1177	cnv_KCNJ9	cnv	KCNJ9	YES	13
1177	mrna_CFL2	mrna	CFL2	YES	20
1178	meth_GALR1	meth	GALR1	YES	19
1178	mrna_PKMYT1	mrna	PKMYT1	YES	27
1182	meth_GHRH	meth	GHRH	YES	20

1183	mrna_KIF22	mrna	KIF22	YES	27
1186	meth_GRM8	meth	GRM8	YES	16
1187	mrna_SQLE	mrna	SQLE	YES	17
1187	mrna_SPOCD1	mrna	SPOCD1	YES	4
1188	mirna_MIR195	mirna	MIR195	YES	7
1189	mirna_MIR149	mirna	MIR149	NO	0
1191	meth_RELN	meth	RELN	YES	63
1191	mrna_ERMP1	mrna	ERMP1	YES	9
1192	cnv_ASPM	cnv	ASPM	YES	31
1194	meth_IL21	meth	IL21	YES	21
1197	cnv_IRF6	cnv	IRF6	YES	25
1199	mrna_DCTPP1	mrna	DCTPP1	YES	18
1200	meth_PLG	meth	PLG	YES	48
1201	mrna_SCN3B	mrna	SCN3B	YES	36
1201	mrna_CANT1	mrna	CANT1	YES	25
1202	meth_SERPING1	meth	SERPING1	YES	24
1203	meth_PRDM14	meth	PRDM14	YES	33
1204	mrna_HOXA6	mrna	HOXA6	YES	10
1205	cnv_MRPL9	cnv	MRPL9	YES	13
1208	cnv_HSD11B1	cnv	HSD11B1	YES	12
1209	cnv_KDM5B	cnv	KDM5B	YES	39
1210	cnv_INTS7	cnv	INTS7	YES	14
1210	mrna_TRABD2B	mrna	TRABD2B	YES	18
1211	meth_OR1D2	meth	OR1D2	YES	17
1212	meth_CACNA1A	meth	CACNA1A	YES	68
1213	cnv_ADCY10	cnv	ADCY10	YES	36
1213	mrna_PLSCR4	mrna	PLSCR4	YES	12
1214	mrna_NEIL3	mrna	NEIL3	YES	22
1215	cnv_CASQ1	cnv	CASQ1	YES	32
1217	meth_OR1A1	meth	OR1A1	YES	11
1217	mrna_XRCC2	mrna	XRCC2	YES	41
1218	meth_PDPN	meth	PDPN	YES	53
1218	mrna_ASPA	mrna	ASPA	YES	16
1219	mrna_ADRB2	mrna	ADRB2	YES	65
1221	meth_SCNN1B	meth	SCNN1B	YES	24
1222	cnv_RNF2	cnv	RNF2	YES	31
1223	mrna_LDB2	mrna	LDB2	YES	18
1224	meth_BPI	meth	BPI	YES	20
1227	mrna_GYPC	mrna	GYPC	YES	15
1228	mrna_RDH16	mrna	RDH16	YES	11
1230	mrna_JPH2	mrna	JPH2	YES	27
1232	cnv_FCRL1	cnv	FCRL1	YES	3
1234	meth_SST	meth	SST	YES	20
1234	stv_MAD2L1BP	stv	MAD2L1BP	YES	9
1238	mrna_CENPI	mrna	CENPI	YES	12
1238	mrna_LCAT	mrna	LCAT	YES	26
1239	meth_SLC32A1	meth	SLC32A1	YES	34

1240	cnv_CCSAP	cnv	CCSAP	YES	24
1240	cnv_CD1C	cnv	CD1C	YES	18
1241	meth_CNTN2	meth	CNTN2	YES	39
1245	stv_ACSM2A	stv	ACSM2A	YES	18
1247	mrna_AOC3	mrna	AOC3	YES	29
1248	meth_COL1A2	meth	COL1A2	YES	33
1249	cnv_TMCO1	cnv	TMCO1	YES	14
1249	meth_DEFB118	meth	DEFB118	YES	11
1253	mrna_NCAPG2	mrna	NCAPG2	YES	10
1256	mrna_GSN	mrna	GSN	YES	69
1257	cnv_BCAN	cnv	BCAN	YES	19
1258	cnv_PM20D1	cnv	PM20D1	YES	18
1259	cnv_GPR137B	cnv	GPR137B	YES	5
1259	cnv_RASSF5	cnv	RASSF5	YES	15
1261	meth_GDF10	meth	GDF10	YES	17
1262	mrna_PAK3	mrna	PAK3	YES	50
1263	meth_POU3F3	meth	POU3F3	YES	28
1264	meth_PDE4C	meth	PDE4C	YES	11
1266	cnv_TMOD4	cnv	TMOD4	YES	10
1266	mrna_DEPDC1	mrna	DEPDC1	YES	10
1267	meth_CX3CL1	meth	CX3CL1	YES	42
1269	meth_KIFC2	meth	KIFC2	YES	10
1270	meth_SCOC	meth	SCOC	YES	11
1271	mrna_HOXC13	mrna	HOXC13	YES	16
1272	meth_MRPS26	meth	MRPS26	YES	11
1273	mrna_SLC52A2	mrna	SLC52A2	YES	11
1274	meth_APOLD1	meth	APOLD1	YES	15
1274	meth_NEFH	meth	NEFH	YES	26
1275	meth_FAXDC2	meth	FAXDC2	YES	8
1277	mirna_MIR21	mirna	MIR21	YES	84
1280	cnv_C1orf116	cnv	C1orf116	YES	7
1280	mrna_TRPM3	mrna	TRPM3	YES	20
1281	cnv_NTRK1	cnv	NTRK1	YES	89
1282	meth_BATF	meth	BATF	YES	26
1282	mrna_TARS2	mrna	TARS2	YES	18
1283	cnv_EXOC8	cnv	EXOC8	YES	20
1283	mrna_LIMS2	mrna	LIMS2	YES	15
1284	cnv_MRPS21	cnv	MRPS21	YES	5
1286	meth_KRT75	meth	KRT75	YES	9
1288	cnv_RNASEL	cnv	RNASEL	YES	33
1291	mrna_GNG11	mrna	GNG11	YES	10
1292	mrna_SYNM	mrna	SYNM	YES	18
1293	meth_PRKG2	meth	PRKG2	YES	21
1295	meth_INA	meth	INA	YES	17
1295	mrna_TK1	mrna	TK1	YES	23
1296	mrna_COL5A2	mrna	COL5A2	YES	20
1297	meth_FLI1	meth	FLI1	YES	23

1299	mrna_CDC45	mrna	CDC45	YES	24
1300	cnv_MYOG	cnv	MYOG	YES	60
1302	meth_HBA2	meth	HBA2	YES	27
1303	cnv_CNIH3	cnv	CNIH3	YES	19
1305	meth_HOXA7	meth	HOXA7	YES	24
1305	mrna_TNS1	mrna	TNS1	YES	13
1306	cnv_NVL	cnv	NVL	YES	12
1306	meth_DMBT1	meth	DMBT1	YES	27
1308	meth_KCNC3	meth	KCNC3	YES	27
1310	meth_CTSA	meth	CTSA	YES	26
1310	stv_PTGIR	stv	PTGIR	YES	20
1312	mrna_POU6F1	mrna	POU6F1	YES	14
1314	cnv_DENND4B	cnv	DENND4B	YES	8
1319	meth_ABO	meth	ABO	YES	10
1322	cnv_OR10J5	cnv	OR10J5	YES	14
1323	cnv_RPTN	cnv	RPTN	YES	8
1325	meth_ADRB3	meth	ADRB3	YES	39
1328	mrna_TAL1	mrna	TAL1	YES	60
1329	mrna_COA6	mrna	COA6	YES	8
1330	mrna_CHST11	mrna	CHST11	YES	27
1331	cnv_SELE	cnv	SELE	YES	33
1332	meth_SHANK2	meth	SHANK2	YES	39
1332	mrna_COL5A1	mrna	COL5A1	YES	31
1333	mrna_TINAGL1	mrna	TINAGL1	YES	16
1335	meth_RASL10B	meth	RASL10B	YES	12
1341	meth_RIMBP2	meth	RIMBP2	YES	5
1342	cnv_KIRREL	cnv	KIRREL	YES	12
1344	mrna_CEACAM6	mrna	CEACAM6	YES	13
1347	mrna_UBAP2L	mrna	UBAP2L	YES	8
1348	cnv_SV2A	cnv	SV2A	YES	26
1350	cnv_ACTA1	cnv	ACTA1	YES	32
1351	meth_GAD2	meth	GAD2	YES	30
1355	cnv_SRP9	cnv	SRP9	YES	14
1357	meth_SYDE1	meth	SYDE1	YES	9
1359	meth_MCHR2	meth	MCHR2	YES	11
1360	stv_PLA2G4F	stv	PLA2G4F	YES	29
1365	cnv_IBA57	cnv	IBA57	YES	6
1367	cnv_LAMC2	cnv	LAMC2	YES	18
1368	meth_PRG3	meth	PRG3	YES	13
1369	meth_FES	meth	FES	YES	48
1370	cnv_FCER1G	cnv	FCER1G	YES	54
1371	cnv_SPRR1B	cnv	SPRR1B	YES	11
1375	cnv_RFWD2	cnv	RFWD2	YES	19
1376	meth_IGF1	meth	IGF1	YES	91
1376	mrna_CFB	mrna	CFB	YES	16
1378	cnv_KCNH1	cnv	KCNH1	YES	44
1379	meth_FETUB	meth	FETUB	YES	13

1381	meth_ENTPD2	meth	ENTPD2	YES	16
1383	meth_SFRP5	meth	SFRP5	YES	30
1383	stv_DNAJB5	stv	DNAJB5	YES	8
1386	meth_GALNT8	meth	GALNT8	YES	12
1387	meth_APCS	meth	APCS	YES	26
1389	meth_ARHGAP32	meth	ARHGAP32	YES	27
1389	meth_KCNA4	meth	KCNA4	YES	20
1390	meth_EDN3	meth	EDN3	YES	36
1390	mrna_PACSIN1	mrna	PACSIN1	YES	33
1391	cnv_GON4L	cnv	GON4L	YES	9
1391	mrna_MELK	mrna	MELK	YES	30
1394	meth_CXCL1	meth	CXCL1	YES	27
1396	cnv_MARK1	cnv	MARK1	YES	26
1396	meth_IL5RA	meth	IL5RA	YES	20
1399	cnv_TDRKH	cnv	TDRKH	YES	15
1399	mrna_LRRC15	mrna	LRRC15	YES	14
1400	mrna_ITPKA	mrna	ITPKA	YES	19
1404	cnv_C1orf186	cnv	C1orf186	YES	3
1405	cnv_KLHL20	cnv	KLHL20	YES	26
1406	meth_MLXIP	meth	MLXIP	YES	16
1406	meth_PODN	meth	PODN	YES	11
1407	cnv_ACBD3	cnv	ACBD3	YES	11
1408	mrna_PALMD	mrna	PALMD	YES	6
1409	meth_LCAT	meth	LCAT	YES	26
1409	meth_TBX19	meth	TBX19	YES	16
1410	meth_CD34	meth	CD34	YES	57
1414	cnv_CD1D	cnv	CD1D	YES	32
1414	mrna_RACGAP1	mrna	RACGAP1	YES	50
1415	mrna_RAD54L	mrna	RAD54L	YES	21
1416	stv_PIGU	stv	PIGU	YES	13
1419	mrna_SMYD1	mrna	SMYD1	YES	19
1424	meth_KRT1	meth	KRT1	YES	31
1429	meth_IAPP	meth	IAPP	YES	26
1431	cnv_ANXA9	cnv	ANXA9	YES	12
1432	meth_ISG20	meth	ISG20	YES	29
1437	mrna_ARHGAP20	mrna	ARHGAP20	YES	6
1438	meth_FGF6	meth	FGF6	YES	29
1438	mrna_CDC14B	mrna	CDC14B	YES	27
1442	cnv_CEP350	cnv	CEP350	YES	10
1442	mrna_AMOTL2	mrna	AMOTL2	YES	10
1447	mrna_HIST1H2BK	mrna	HIST1H2BK	YES	18
1448	meth_RUNX1	meth	RUNX1	YES	38
1450	meth_CRH	meth	CRH	YES	67
1451	meth_CSGALNACT1	meth	CSGALNACT1	YES	31
1451	mrna_CIT	mrna	CIT	YES	36
1455	cnv_ECM1	cnv	ECM1	YES	29
1457	cnv_AVPR1B	cnv	AVPR1B	YES	18

1461	cnv_ACKR1	cnv	ACKR1	YES	18
1462	cnv_CDC42SE1	cnv	CDC42SE1	YES	10
1469	cnv_ITLN1	cnv	ITLN1	YES	17
1471	mrna_RNF187	mrna	RNF187	YES	14
1472	cnv_RAB29	cnv	RAB29	YES	47
1472	cnv_SLAMF7	cnv	SLAMF7	YES	11
1476	mirna_MIR203A	mirna	MIR203A	NO	0
1477	meth_KCNJ2	meth	KCNJ2	YES	44
1477	mrna_CEP112	mrna	CEP112	YES	7
1480	cnv_IVL	cnv	IVL	YES	15
1481	mrna_KIF11	mrna	KIF11	YES	29
1482	cnv_RAB13	cnv	RAB13	YES	42
1483	meth_CACNG1	meth	CACNG1	YES	16
1484	mrna_KIF4A	mrna	KIF4A	YES	29
1488	meth_PTF1A	meth	PTF1A	YES	33
1492	meth_IGFBP6	meth	IGFBP6	YES	17
1494	mirna_MIR28	mirna	MIR28	YES	3
1495	meth_ABCC1	meth	ABCC1	YES	28
1496	mirna_MIR449A	mirna	MIR449A	NO	0
1498	mrna_CAPN9	mrna	CAPN9	YES	11
1501	cnv_MTX1	cnv	MTX1	YES	7
1510	cnv_LIN9	cnv	LIN9	YES	8
1511	meth_EEF1A2	meth	EEF1A2	YES	19
1511	meth_LCT	meth	LCT	YES	16
1512	mrna_CDKN1C	mrna	CDKN1C	YES	33
1518	cnv_NDUFS2	cnv	NDUFS2	YES	24
1519	meth_PITPNM2	meth	PITPNM2	YES	13
1520	meth_RAMP1	meth	RAMP1	YES	29
1522	meth_ANXA9	meth	ANXA9	YES	12
1524	meth_LEP	meth	LEP	YES	112
1525	mrna_PLK4	mrna	PLK4	YES	27
1526	mrna_EZH1	mrna	EZH1	YES	15
1533	meth_POLR2F	meth	POLR2F	YES	31
1539	cnv_EPHX1	cnv	EPHX1	YES	21
1540	mrna_TRPA1	mrna	TRPA1	YES	30
1544	cnv_APCS	cnv	APCS	YES	26
1547	cnv_PPOX	cnv	PPOX	YES	16
1548	mrna_WASF3	mrna	WASF3	YES	13
1549	mrna_GINS1	mrna	GINS1	YES	10
1552	mrna_BMP8A	mrna	BMP8A	YES	19
1553	cnv_CHRM3	cnv	CHRM3	YES	34
1554	cnv_TOR1AIP1	cnv	TOR1AIP1	YES	14
1555	stv_ATP6V1A	stv	ATP6V1A	YES	27
1557	meth_SPATA19	meth	SPATA19	YES	6
1565	meth_LHFPL2	meth	LHFPL2	YES	8
1567	cnv_GOLT1A	cnv	GOLT1A	YES	7
1569	mrna_GALNT15	mrna	GALNT15	YES	12

1570	meth_C5AR2	meth	C5AR2	YES	24
1572	mrna_CXCL10	mrna	CXCL10	YES	49
1573	cnv_UBE2Q1	cnv	UBE2Q1	YES	17
1573	meth_SERPINA10	meth	SERPINA10	YES	14
1576	meth_SPACA3	meth	SPACA3	YES	21
1577	mrna_CDKN3	mrna	CDKN3	YES	19
1578	meth_CALCR	meth	CALCR	YES	39
1579	cnv_PEAR1	cnv	PEAR1	YES	6
1584	cnv_TDRD5	cnv	TDRD5	YES	9
1585	cnv_PIGM	cnv	PIGM	YES	9
1586	mrna_TIMM17A	mrna	TIMM17A	YES	14
1589	mrna_NKAPL	mrna	NKAPL	YES	8
1603	cnv_WNT9A	cnv	WNT9A	YES	28
1603	mrna_SYNPO2	mrna	SYNPO2	YES	19
1604	mrna_CST2	mrna	CST2	YES	9
1606	cnv_UBQLN4	cnv	UBQLN4	YES	16
1607	meth_KCNB1	meth	KCNB1	YES	48
1607	mrna_CCT3	mrna	CCT3	YES	26
1612	meth_ONECUT2	meth	ONECUT2	YES	24
1612	mrna_DPP3	mrna	DPP3	YES	14
1615	mrna_TMEM63B	mrna	TMEM63B	YES	6
1621	meth_FBXL22	meth	FBXL22	YES	11
1626	cnv_BTG2	cnv	BTG2	YES	30
1636	meth_SPACA7	meth	SPACA7	YES	11
1637	cnv_GLUL	cnv	GLUL	YES	42
1641	cnv_DUSP27	cnv	DUSP27	YES	4
1644	mrna_SEPHS2	mrna	SEPHS2	YES	11
1646	mrna_SMG7	mrna	SMG7	YES	17
1652	mrna_S100P	mrna	S100P	YES	21
1654	mrna_MAPKAPK2	mrna	MAPKAPK2	YES	54
1655	cnv_LBR	cnv	LBR	YES	18
1656	stv_C9orf72	stv	C9orf72	YES	20
1660	mrna_PTCHD1	mrna	PTCHD1	YES	8
1664	mrna_BMX	mrna	BMX	YES	31
1665	cnv_ALDH9A1	cnv	ALDH9A1	YES	25
1666	cnv_GPA33	cnv	GPA33	YES	6
1670	cnv_KIF14	cnv	KIF14	YES	51
1674	cnv_ATP1A4	cnv	ATP1A4	YES	24
1684	mrna_NMT2	mrna	NMT2	YES	14
1690	cnv_S100A13	cnv	S100A13	YES	29
1690	meth_DIO3	meth	DIO3	YES	16
1691	mrna_TMEM100	mrna	TMEM100	YES	25
1691	mrna_HNRNPAB	mrna	HNRNPAB	YES	13
1697	cnv_LYST	cnv	LYST	YES	24
1699	mrna_TONSL	mrna	TONSL	YES	17
1700	mrna_MCM10	mrna	MCM10	YES	16
1710	meth_SLC22A3	meth	SLC22A3	YES	25

1714	mrna_PBK	mrna	PBK	YES	17
1715	mrna_GPR141	mrna	GPR141	YES	7
1723	cnv_TNNI1	cnv	TNNI1	YES	11
1734	cnv_PLEKHO1	cnv	PLEKHO1	YES	11
1744	mrna_CCL14	mrna	CCL14	YES	22
1747	mirna_MIR335	mirna	MIR335	YES	1
1756	meth_DRD5	meth	DRD5	YES	40
1761	cnv_CHRNB2	cnv	CHRNB2	YES	69
1762	cnv_TNNT2	cnv	TNNT2	YES	25
1763	cnv_MIXL1	cnv	MIXL1	YES	31
1767	meth_SOX17	meth	SOX17	YES	71
1770	cnv_PIGR	cnv	PIGR	YES	17
1770	mrna_RAB31	mrna	RAB31	YES	24
1773	mirna_MIR143	mirna	MIR143	YES	16
1774	mrna_E2F1	mrna	E2F1	YES	49
1777	meth_MYO16	meth	MYO16	YES	21
1781	meth_CXCL6	meth	CXCL6	YES	23
1786	mrna_COL1A1	mrna	COL1A1	YES	73
1788	cnv_CKS1B	cnv	CKS1B	YES	17
1793	meth_LRBA	meth	LRBA	YES	11
1803	mrna_H2AFY	mrna	H2AFY	YES	49
1804	stv_GABRB3	stv	GABRB3	YES	34
1808	cnv_VN1R5	cnv	VN1R5	NO	0
1811	cnv_DHX9	cnv	DHX9	YES	73
1820	meth_UGT3A1	meth	UGT3A1	YES	9
1825	mrna_E2F7	mrna	E2F7	YES	30
1826	mrna_LEP	mrna	LEP	YES	112
1828	mrna_FGF1	mrna	FGF1	YES	57
1830	meth_STMN3	meth	STMN3	YES	16
1834	cnv_MGST3	cnv	MGST3	YES	19
1835	mrna_CELSR3	mrna	CELSR3	YES	23
1837	cnv_LRRC52	cnv	LRRC52	YES	15
1840	cnv_LEFTY1	cnv	LEFTY1	YES	17
1842	cnv_SOAT1	cnv	SOAT1	YES	23
1854	cnv_CFHR5	cnv	CFHR5	YES	9
1855	meth_PIK3R1	meth	PIK3R1	YES	80
1855	mrna_LSM4	mrna	LSM4	YES	24
1865	mrna_SLC24A2	mrna	SLC24A2	YES	32
1869	cnv_UBAP2L	cnv	UBAP2L	YES	8
1874	meth_SYT6	meth	SYT6	YES	25
1881	mrna_COPG1	mrna	COPG1	YES	21
1909	mrna_LIFR	mrna	LIFR	YES	23
1915	meth_SPTA1	meth	SPTA1	YES	35
1929	cnv_CADM3	cnv	CADM3	YES	17
1940	mrna_CCNB1	mrna	CCNB1	YES	64

APPENDIX C

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	mrna_ANXA3	mrna	ANXA3	YES	27
1	mrna_WDR43	mrna	WDR43	YES	12
2	meth_CHAC1	meth	CHAC1	YES	19
2	mrna_RP11-1081L13.4	mrna	RP11-1081L13.4	NO	0
3	meth_DCAF12	meth	DCAF12	YES	6
3	meth_NOSIP	meth	NOSIP	YES	14
4	cnv_RPRML	cnv	RPRML	YES	2
4	mrna_PLEKHG1	mrna	PLEKHG1	YES	6
5	mrna_IL12RB1	mrna	IL12RB1	YES	26
5	mrna_ILF3-AS1	mrna	ILF3-AS1	NO	0
6	meth_SNORD116-1	meth	SNORD116-1	NO	0
6	mrna_CPNE8	mrna	CPNE8	YES	3
7	mrna_CX3CL1	mrna	CX3CL1	YES	42
7	mrna_STX7	mrna	STX7	YES	33
8	meth_C6orf48	meth	C6orf48	NO	0
8	mrna_IGHV3-21	mrna	IGHV3-21	YES	17
9	meth_DPM1	meth	DPM1	YES	21
9	meth_RCVRN	meth	RCVRN	YES	10
10	meth_CPA3	meth	CPA3	YES	15
10	mrna_ESYT3	mrna	ESYT3	YES	15
11	mrna_SLC37A3	mrna	SLC37A3	YES	10
11	stv_HMX3	stv	HMX3	YES	15
12	mrna_AFAP1	mrna	AFAP1	YES	8
12	mrna_RPS7P1	mrna	RPS7P1	NO	0
13	cnv_WNT9B	cnv	WNT9B	YES	43
13	mrna_IGKV1-16	mrna	IGKV1-16	YES	16
14	meth_ZMYND10	meth	ZMYND10	YES	9
14	mrna_TIA1	mrna	TIA1	YES	19
15	meth_C1QTNF7	meth	C1QTNF7	YES	4
15	meth_PLA2G4E-AS1	meth	PLA2G4E-AS1	NO	0
16	meth_CSN1S1	meth	CSN1S1	YES	4
16	mrna_LYN	mrna	LYN	YES	134
17	cnv_DLG3	cnv	DLG3	YES	37
17	stv_ANGPTL1	stv	ANGPTL1	YES	5
18	cnv_CLECL1	cnv	CLECL1	YES	4
18	stv_CTSD	stv	CTSD	YES	23
19	meth_AL021807.1	meth	AL021807.1	NO	0
19	mrna_BIRC2	mrna	BIRC2	YES	64
20	meth_CYP2D6	meth	CYP2D6	YES	34
20	mrna_AGBL5	mrna	AGBL5	YES	19
21	mrna_ARID5B	mrna	ARID5B	YES	34
21	stv_STAM2	stv	STAM2	YES	18
22	mrna_FNDC3B	mrna	FNDC3B	YES	4
22	mrna_C9orf43	mrna	C9orf43	YES	1
23	meth_CUL9	meth	CUL9	YES	13
23	meth_FGF22	meth	FGF22	YES	22
24	meth_IQCK	meth	IQCK	NO	0
24	mrna_PDE10A	mrna	PDE10A	YES	24
25	mrna_AP000344.4	mrna	AP000344.4	NO	0
25	mrna_IQCJ-SCHIP1	mrna	IQCJ-SCHIP1	YES	4
26	mrna_OPN1SW	mrna	OPN1SW	YES	18
26	mrna_EXTL2	mrna	EXTL2	YES	18
27	mrna_FERMT1	mrna	FERMT1	YES	25
27	mrna_CTNNB1	mrna	CTNNB1	YES	260
28	meth_DHRS4-AS1	meth	DHRS4-AS1	NO	0
28	meth_MGP	meth	MGP	YES	14
29	meth_SSRP1	meth	SSRP1	YES	16
29	mrna_ZNF454	mrna	ZNF454	YES	8
30	meth_SGCG	meth	SGCG	YES	15
30	mrna_MLX	mrna	MLX	YES	19
31	mrna_SLC16A1	mrna	SLC16A1	YES	30
32	meth_TMCO5A	meth	TMCO5A	YES	2
33	meth_HLA-DQB1	meth	HLA-DQB1	YES	31

33	mrna_ID4	mrna	ID4	YES	33
34	meth_C22orf39	meth	C22orf39	YES	1
34	mrna_AMOTL1	mrna	AMOTL1	YES	14
35	meth_MAN2B1	meth	MAN2B1	YES	19
35	mrna_UGT2B7	mrna	UGT2B7	YES	16
36	meth_AC002451.3	meth	AC002451.3	NO	0
36	mrna_PLEKHG4B	mrna	PLEKHG4B	YES	4
37	meth_AC126407.1	meth	AC126407.1	NO	0
37	meth_WFDC10B	meth	WFDC10B	YES	3
38	mrna_SH3BP5	mrna	SH3BP5	YES	10
39	mrna_CD40	mrna	CD40	YES	63
39	mrna_AC072062.1	mrna	AC072062.1	NO	0
40	meth_C8orf4	meth	C8orf4	YES	21
40	mrna_STK32A	mrna	STK32A	YES	14
41	meth_ARTN	meth	ARTN	YES	15
41	meth_GLYAT	meth	GLYAT	YES	13
42	mrna_SLC25A5	mrna	SLC25A5	YES	29
42	mrna_AKAP2	mrna	AKAP2	YES	3
43	cnv_SLC25A39	cnv	SLC25A39	YES	9
43	meth_AC087651.1	meth	AC087651.1	NO	0
44	meth_TDRD3	meth	TDRD3	YES	10
45	mrna_MRAP2	mrna	MRAP2	YES	17
45	mrna_NCK1-AS1	mrna	NCK1-AS1	NO	0
46	meth_FAM206A	meth	FAM206A	YES	4
46	meth_RNF186	meth	RNF186	YES	3
47	mirna_MIR455	mirna	MIR455	NO	0
47	mrna_TIGD5	mrna	TIGD5	YES	6
48	cnv_DEFB110	cnv	DEFB110	YES	5
48	mrna_WNK3	mrna	WNK3	YES	29
49	cnv_AMD1	cnv	AMD1	YES	11
49	meth_CSRP2BP	meth	CSRP2BP	YES	12
50	meth_PRKCE	meth	PRKCE	YES	71
50	mrna_MFHAS1	mrna	MFHAS1	YES	5
51	meth_C2orf57	meth	C2orf57	NO	0
51	mrna_TNFRSF11B	mrna	TNFRSF11B	YES	27
52	meth_GTSF1L	meth	GTSF1L	YES	2
52	mrna_MUC13	mrna	MUC13	YES	13
53	meth_POLR1C	meth	POLR1C	YES	20
53	meth_SLC5A12	meth	SLC5A12	YES	15
54	meth_KCNK7	meth	KCNK7	YES	13
54	mrna_AC093162.5	mrna	AC093162.5	NO	0
55	cnv_GRPR	cnv	GRPR	YES	18
55	cnv_IFT52	cnv	IFT52	YES	24
56	mrna_ATP6V0A1	mrna	ATP6V0A1	YES	38
56	mrna_SOX6	mrna	SOX6	YES	38
57	meth_UTS2	meth	UTS2	YES	30
57	mrna_ZBED2	mrna	ZBED2	YES	3
58	meth_MMS19	meth	MMS19	YES	27
58	mrna_BX322557.10	mrna	BX322557.10	NO	0
59	cnv_MPP2	cnv	MPP2	YES	22
59	stv_F2	stv	F2	YES	58
60	cnv_AKAP17A|ENSG00000197976.6	cnv	AKAP17A|ENSG00000197976.6	NO	0
61	meth_ARHGAP9	meth	ARHGAP9	YES	11
61	meth_RRM2	meth	RRM2	YES	20
62	meth_SLC24A3	meth	SLC24A3	YES	20
62	mrna_ATP11C	mrna	ATP11C	YES	21
63	mrna_KLHL24	mrna	KLHL24	YES	14
63	mrna_HIF3A	mrna	HIF3A	YES	22
64	mrna_BHLHE41	mrna	BHLHE41	YES	29
64	stv_AUNIP	stv	AUNIP	YES	7
65	mrna_MBNL3	mrna	MBNL3	YES	10
65	mrna_SLC6A17	mrna	SLC6A17	YES	21
66	meth_TIMM13	meth	TIMM13	YES	14
66	mrna_LTBR	mrna	LTBR	YES	23

67	meth_CHRM1	meth	CHRM1	YES	34
67	meth_NSUN7	meth	NSUN7	YES	4
68	meth_C4orf50	meth	C4orf50	NO	0
68	meth_SPOCD1	meth	SPOCD1	YES	4
69	mrna_LRRC8D	mrna	LRRC8D	YES	16
69	mrna_IGKV3D-11	mrna	IGKV3D-11	YES	9
70	meth_AD000671.6	meth	AD000671.6	NO	0
70	mrna_ZNF280B	mrna	ZNF280B	YES	6
71	mrna_NEK6	mrna	NEK6	YES	44
71	mrna_RASA2	mrna	RASA2	YES	14
72	meth_NEIL1	meth	NEIL1	YES	26
72	mrna_VPS28	mrna	VPS28	YES	27
73	mrna_ADRA2B	mrna	ADRA2B	YES	28
74	mrna_ZNF532	mrna	ZNF532	YES	6
74	stv_PTHLH	stv	PTHLH	YES	30
75	mrna_CBL	mrna	CBL	YES	62
75	mrna_CD83	mrna	CD83	YES	15
76	stv_LIF	stv	LIF	YES	47
77	meth_VPS28	meth	VPS28	YES	27
77	mrna_NOL10	mrna	NOL10	YES	3
78	cnv_SNORA75|ENSG00000212432.1	cnv	SNORA75|ENSG00000212432.1	NO	0
78	mrna_ZNF667-AS1	mrna	ZNF667-AS1	NO	0
79	meth_VANGL1	meth	VANGL1	YES	8
79	meth_VIPR1	meth	VIPR1	YES	19
80	meth_DNAJC7	meth	DNAJC7	YES	14
80	meth_PLOD3	meth	PLOD3	YES	33
81	meth_GAL	meth	GAL	YES	33
81	mrna_IGF2BP2	mrna	IGF2BP2	YES	18
82	mrna_ATXN7L3	mrna	ATXN7L3	YES	11
82	mrna_FOXN2	mrna	FOXN2	YES	11
83	meth_AIFM2	meth	AIFM2	YES	17
83	mrna_SLC35B4	mrna	SLC35B4	YES	19
84	meth_BCL9	meth	BCL9	YES	15
84	mrna_CCDC50	mrna	CCDC50	YES	5
85	cnv_EP400NL	cnv	EP400NL	NO	0
85	stv_RIMS1	stv	RIMS1	YES	37
86	meth_ACER1	meth	ACER1	YES	20
86	meth_PHGDH	meth	PHGDH	YES	27
87	mrna_IRF4	mrna	IRF4	YES	36
87	mrna_RP11-157J24.2	mrna	RP11-157J24.2	NO	0
89	meth_HCFC1R1	meth	HCFC1R1	YES	3
89	mrna_ABCA1	mrna	ABCA1	YES	76
90	mrna_PRKAR2A-AS1	mrna	PRKAR2A-AS1	NO	0
90	mrna_RP11-283G6.3	mrna	RP11-283G6.3	NO	0
91	meth_UBE3A	meth	UBE3A	YES	32
91	mrna_GOLGA2P10	mrna	GOLGA2P10	NO	0
92	mrna_IRF1	mrna	IRF1	YES	41
92	mrna_TRIQK	mrna	TRIQK	YES	4
93	cnv_RNA5SP378	cnv	RNA5SP378	NO	0
93	mrna_AF186192.1	mrna	AF186192.1	NO	0
94	mrna_RND3	mrna	RND3	YES	13
94	mrna_FMNL2	mrna	FMNL2	YES	10
95	meth_CDC20B	meth	CDC20B	YES	4
96	cnv_SNORA20|ENSG00000201660.1	cnv	SNORA20|ENSG00000201660.1	NO	0
96	mrna_IGKV3-11	mrna	IGKV3-11	YES	19
97	meth_BRCA1	meth	BRCA1	YES	95
97	mrna_LINC00910	mrna	LINC00910	NO	0
98	meth_ADAM33	meth	ADAM33	YES	10
98	mrna_ASPHD2	mrna	ASPHD2	YES	7
99	meth_NDUFB10	meth	NDUFB10	YES	11
99	mrna_CXCR6	mrna	CXCR6	YES	16
100	meth_UHRF1	meth	UHRF1	YES	40
100	mrna_NCK1	mrna	NCK1	YES	49
101	mrna_LANCL3	mrna	LANCL3	YES	2

101	mrna_CTD-2284J15.1	mrna	CTD-2284J15.1	NO	0
102	cnv_U3|ENSG00000253091.1	cnv	U3|ENSG00000253091.1	NO	0
102	mrna_SCN5A	mrna	SCN5A	YES	77
103	meth_TEKT3	meth	TEKT3	YES	15
103	mrna_GTF3C2	mrna	GTF3C2	YES	9
104	meth_MAS1L	meth	MAS1L	YES	10
104	mrna_SORBS2	mrna	SORBS2	YES	23
105	meth_TM4SF1	meth	TM4SF1	YES	5
105	meth_ZNF702P	meth	ZNF702P	NO	0
106	mrna_MCF2L2	mrna	MCF2L2	YES	4
106	mrna_RP11-731C17.2	mrna	RP11-731C17.2	NO	0
107	cnv_WNT3	cnv	WNT3	YES	46
107	mrna_NHSL1	mrna	NHSL1	YES	2
108	meth_FOXRED2	meth	FOXRED2	YES	7
108	meth_TAAR6	meth	TAAR6	YES	8
109	meth_KLK6	meth	KLK6	YES	27
109	mrna_PRNP	mrna	PRNP	YES	86
110	cnv_DHRSX|ENSG00000169084.8	cnv	DHRSX|ENSG00000169084.8	NO	0
110	mrna_RP11-317J10.2	mrna	RP11-317J10.2	NO	0
111	meth_EPHA2	meth	EPHA2	YES	77
111	mrna_MMACHC	mrna	MMACHC	YES	16
112	meth_STEAP3	meth	STEAP3	YES	24
112	mrna_C15orf41	mrna	C15orf41	NO	0
113	cnv_GTPBP6|ENSG00000178605.8	cnv	GTPBP6|ENSG00000178605.8	NO	0
113	meth_PLEKHA4	meth	PLEKHA4	YES	8
114	mrna_NCOA7	mrna	NCOA7	YES	11
115	cnv_M6PR	cnv	M6PR	YES	27
115	mrna_SLC12A8	mrna	SLC12A8	YES	12
116	cnv_RNA5SP189	cnv	RNA5SP189	NO	0
116	meth_IL34	meth	IL34	YES	12
117	cnv_PLCXD1|ENSG00000182378.8	cnv	PLCXD1|ENSG00000182378.8	NO	0
117	mrna_ZIC4	mrna	ZIC4	YES	4
118	meth_SLC35C1	meth	SLC35C1	YES	10
119	meth_CKMT2	meth	CKMT2	YES	13
119	meth_ZNF239	meth	ZNF239	YES	12
120	meth_CTC-471J1.11	meth	CTC-471J1.11	NO	0
120	stv_STK33	stv	STK33	YES	15
121	meth_GALNT5	meth	GALNT5	YES	13
121	meth_MEIS2	meth	MEIS2	YES	26
122	mrna_MAP3K4	mrna	MAP3K4	YES	28
122	mrna_RP11-5O17.1	mrna	RP11-5O17.1	NO	0
123	cnv_DEFB114	cnv	DEFB114	YES	12
123	meth_LSM11	meth	LSM11	YES	15
124	meth_ABHD14A-ACY1	meth	ABHD14A-ACY1	YES	7
124	stv_CD163	stv	CD163	YES	12
125	meth_RRM1	meth	RRM1	YES	25
125	mrna_SEL1L3	mrna	SEL1L3	YES	2
126	meth_FIGNL1	meth	FIGNL1	YES	20
126	mrna_ZFP37	mrna	ZFP37	YES	9
127	meth_CAMLG	meth	CAMLG	YES	10
127	mrna_PRKD3	mrna	PRKD3	YES	20
128	mrna_PLEKHA8P1	mrna	PLEKHA8P1	NO	0
128	mrna_RPL17	mrna	RPL17	YES	18
129	meth_MSMB	meth	MSMB	YES	6
129	mrna_NALCN	mrna	NALCN	YES	22
130	meth_STON1	meth	STON1	YES	6
130	mrna_ING3	mrna	ING3	YES	16
131	meth_EMC7	meth	EMC7	YES	6
132	meth_STARD3	meth	STARD3	YES	26
133	cnv_DGAT2L6	cnv	DGAT2L6	YES	10
133	meth_DNM1L	meth	DNM1L	YES	80
134	meth_ZSCAN10	meth	ZSCAN10	YES	11
134	mrna_LAX1	mrna	LAX1	YES	19
135	meth_CROT	meth	CROT	YES	18

135	mrna_CREB3L2	mrna	CREB3L2	YES	24
136	meth_CABP5	meth	CABP5	YES	6
136	mrna_NDUFA9	mrna	NDUFA9	YES	18
137	mrna_TMOD1	mrna	TMOD1	YES	20
137	mrna_CCL4	mrna	CCL4	YES	32
138	cnv_GPR6	cnv	GPR6	YES	11
139	meth_DEFA5	meth	DEFA5	YES	17
139	mrna_TRMT61B	mrna	TRMT61B	YES	14
140	meth_SBNO2	meth	SBNO2	YES	18
140	mrna_OSBPL9	mrna	OSBPL9	YES	12
141	mrna_LUZP1	mrna	LUZP1	YES	6
142	mrna_ADD3	mrna	ADD3	YES	17
142	mrna_CD300E	mrna	CD300E	YES	7
143	meth_MMP13	meth	MMP13	YES	23
143	mrna_PKD1L2	mrna	PKD1L2	YES	13
144	meth_TFAP2D	meth	TFAP2D	YES	14
144	mrna_IGHV1-24	mrna	IGHV1-24	YES	17
145	meth_APOB	meth	APOB	YES	84
146	meth_RP11-97N19.2	meth	RP11-97N19.2	NO	0
146	mrna_ROBO1	mrna	ROBO1	YES	31
147	mirna_MIR4999	mirna	MIR4999	NO	0
147	mrna_DZIP1	mrna	DZIP1	YES	23
148	cnv_PZP	cnv	PZP	YES	10
148	mrna_GNLY	mrna	GNLY	YES	10
149	cnv_CHD6	cnv	CHD6	YES	15
149	mrna_U91328.19	mrna	U91328.19	NO	0
150	mrna_ATL2	mrna	ATL2	YES	13
150	mrna_DNAJB4	mrna	DNAJB4	YES	13
151	cnv_MRPL45P2	cnv	MRPL45P2	NO	0
151	mrna_ZNF677	mrna	ZNF677	YES	8
152	meth_ARRDC1	meth	ARRDC1	YES	4
153	meth_FAM65B	meth	FAM65B	YES	6
153	mrna_PCBP3	mrna	PCBP3	YES	13
154	meth_NHP2	meth	NHP2	YES	25
154	mrna_QKI	mrna	QKI	YES	22
155	cnv_BEND2	cnv	BEND2	NO	0
156	meth_FDCSP	meth	FDCSP	YES	1
156	meth_VHL	meth	VHL	YES	28
157	mrna_AMOTL2	mrna	AMOTL2	YES	10
157	mrna_TMEM117	mrna	TMEM117	YES	5
158	meth_DHRS12	meth	DHRS12	YES	5
158	stv_OAZ3	stv	OAZ3	YES	16
159	stv_COL6A2	stv	COL6A2	YES	18
160	cnv_MYL4	cnv	MYL4	YES	13
160	mrna_FAM122C	mrna	FAM122C	NO	0
161	mrna_FZD5	mrna	FZD5	YES	60
161	mrna_ETV5	mrna	ETV5	YES	24
162	mrna_MBP	mrna	MBP	YES	30
163	meth_CES3	meth	CES3	YES	8
164	cnv_SPPL2C	cnv	SPPL2C	YES	13
164	meth_TCN1	meth	TCN1	YES	11
165	meth_PLA2G12B	meth	PLA2G12B	YES	7
166	cnv_CENPQ	cnv	CENPQ	YES	10
166	mrna_DPYSL2	mrna	DPYSL2	YES	42
167	cnv_PPP2R3B|ENSG00000167393.12	cnv	PPP2R3B|ENSG00000167393.12	NO	0
168	mrna_TMEM116	mrna	TMEM116	YES	5
169	mrna_PLEKHG6	mrna	PLEKHG6	YES	13
169	mrna_INPP5B	mrna	INPP5B	YES	27
170	mrna_ZNF667	mrna	ZNF667	YES	7
172	cnv_MFAP5	cnv	MFAP5	YES	8
172	meth_FBXL8	meth	FBXL8	YES	5
173	mrna_TEX10	mrna	TEX10	YES	11
173	mrna_IGHV4-34	mrna	IGHV4-34	YES	17
174	meth_CTC-260F20.3	meth	CTC-260F20.3	NO	0

174	meth_RP4-734P14.4	meth	RP4-734P14.4	NO	0
175	meth_LCN1	meth	LCN1	YES	13
175	mrna_CTD-2231H16.1	mrna	CTD-2231H16.1	NO	0
176	meth_TNFSF12	meth	TNFSF12	YES	24
177	meth_OR5P2	meth	OR5P2	YES	12
177	mrna_CAT	mrna	CAT	YES	75
178	stv_ADSSL1	stv	ADSSL1	YES	27
179	meth_PXN	meth	PXN	YES	32
179	stv_AC068533.7	stv	AC068533.7	NO	0
180	meth_SERPINC1	meth	SERPINC1	YES	22
180	mrna_DOCK5	mrna	DOCK5	YES	13
181	meth_ITIH2	meth	ITIH2	YES	12
181	meth_OSMR	meth	OSMR	YES	12
182	meth_CD1E	meth	CD1E	YES	20
182	mrna_CD58	mrna	CD58	YES	19
183	cnv_OTUD6A	cnv	OTUD6A	YES	10
183	mrna_RNF145	mrna	RNF145	YES	8
184	meth_C20orf166-AS1	meth	C20orf166-AS1	NO	0
184	meth_UBE2V2	meth	UBE2V2	YES	24
185	meth_BTNL9	meth	BTNL9	YES	3
185	meth_RP11-573D15.8	meth	RP11-573D15.8	NO	0
186	cnv_LINC00491	cnv	LINC00491	NO	0
186	mrna_CLCN5	mrna	CLCN5	YES	25
187	meth_INTS1	meth	INTS1	YES	11
187	meth_THBS3	meth	THBS3	YES	10
189	meth_AC073072.5	meth	AC073072.5	NO	0
189	meth_PYHIN1	meth	PYHIN1	YES	4
190	mrna_GRIN2A	mrna	GRIN2A	YES	66
190	mrna_PPARA	mrna	PPARA	YES	71
191	meth_NDUFS5	meth	NDUFS5	YES	10
191	meth_TLN2	meth	TLN2	YES	18
192	meth_UGT8	meth	UGT8	YES	21
192	mrna_CTC-241N9.1	mrna	CTC-241N9.1	NO	0
193	meth_C6orf62	meth	C6orf62	YES	3
193	meth_HEMGN	meth	HEMGN	YES	6
194	mrna_RP11-88E10.5	mrna	RP11-88E10.5	NO	0
195	meth_AGAP2	meth	AGAP2	YES	27
195	meth_POTED	meth	POTED	YES	2
196	mrna_CDH3	mrna	CDH3	YES	29
196	mrna_RP11-1055B8.1	mrna	RP11-1055B8.1	NO	0
197	mrna_CTD-2260A17.2	mrna	CTD-2260A17.2	NO	0
198	meth_CRAT	meth	CRAT	YES	15
198	mrna_RP11-785H5.1	mrna	RP11-785H5.1	NO	0
199	meth_TSPO	meth	TSPO	YES	59
199	mrna_VOPP1	mrna	VOPP1	YES	10
200	meth_EPHA3	meth	EPHA3	YES	32
201	mrna_NKG7	mrna	NKG7	YES	5
201	mrna_TUBB2B	mrna	TUBB2B	YES	16
202	meth_MFSD7	meth	MFSD7	YES	4
202	stv_KTN1	stv	KTN1	YES	15
203	cnv_CLEC4E	cnv	CLEC4E	YES	13
203	mrna_CTD-2132N18.2	mrna	CTD-2132N18.2	NO	0
204	meth_DCAKD	meth	DCAKD	YES	7
204	mrna_EPHB2	mrna	EPHB2	YES	71
205	meth_GSDMB	meth	GSDMB	YES	5
205	mrna_PCAT6	mrna	PCAT6	NO	0
206	cnv_A2M	cnv	A2M	YES	28
206	mrna_RP11-25K19.1	mrna	RP11-25K19.1	NO	0
207	meth_AATBC	meth	AATBC	NO	0
207	mrna_RP11-492E3.2	mrna	RP11-492E3.2	NO	0
208	meth_PLEKHG6	meth	PLEKHG6	YES	13
208	mrna_SENP2	mrna	SENP2	YES	29
209	mrna_LAMB3	mrna	LAMB3	YES	14
209	mrna_PHB2	mrna	PHB2	YES	39

210	cnv_PEX19	cnv	PEX19	YES	23
210	cnv_RAI2	cnv	RAI2	YES	4
211	cnv_A2MP1	cnv	A2MP1	NO	0
211	meth_CACNA2D3	meth	CACNA2D3	YES	12
212	meth_RHOT2	meth	RHOT2	YES	21
212	mrna_TIAM2	mrna	TIAM2	YES	21
213	meth_JUNB	meth	JUNB	YES	43
213	stv_HIST1H3I	stv	HIST1H3I	YES	32
214	cnv_CTPS2	cnv	CTPS2	YES	12
214	mrna_GNG7	mrna	GNG7	YES	13
215	cnv_RN7SKP183	cnv	RN7SKP183	NO	0
215	cnv_SLC25A6|ENSG00000169100.8	cnv	SLC25A6|ENSG00000169100.8	NO	0
216	cnv_RN7SL617P	cnv	RN7SL617P	NO	0
216	stv_SF3B6	stv	SF3B6	YES	13
217	meth_MS4A6A	meth	MS4A6A	YES	2
217	mrna_PLEKHG2	mrna	PLEKHG2	YES	8
218	mrna_ZNF133	mrna	ZNF133	YES	9
219	meth_AP1G2	meth	AP1G2	YES	19
219	meth_SLC37A4	meth	SLC37A4	YES	35
220	mrna_PLIN2	mrna	PLIN2	YES	13
220	mrna_RP11-6O2.3	mrna	RP11-6O2.3	NO	0
221	meth_AANAT	meth	AANAT	YES	27
221	meth_LRIT1	meth	LRIT1	YES	7
222	meth_MAS1	meth	MAS1	YES	33
222	mrna_IGHV1-45	mrna	IGHV1-45	YES	17
223	cnv_KLRG1	cnv	KLRG1	YES	11
223	cnv_MXRA5	cnv	MXRA5	YES	5
224	mrna_RRM2B	mrna	RRM2B	YES	26
224	mrna_LRIG3	mrna	LRIG3	YES	8
225	mrna_TMEM67	mrna	TMEM67	YES	22
226	cnv_ARSH	cnv	ARSH	YES	12
226	cnv_RN7SL802P	cnv	RN7SL802P	NO	0
227	meth_CD5L	meth	CD5L	YES	12
227	mrna_ZCCHC11	mrna	ZCCHC11	YES	26
228	meth_TFF2	meth	TFF2	YES	12
228	mrna_RP11-119F19.5	mrna	RP11-119F19.5	NO	0
229	cnv_DEFB112	cnv	DEFB112	YES	5
229	meth_NLRP4	meth	NLRP4	YES	6
230	mrna_TXNDC5	mrna	TXNDC5	YES	16
230	stv_RP1-27O5.3	stv	RP1-27O5.3	NO	0
231	meth_C12orf73	meth	C12orf73	YES	1
231	meth_FAM83A	meth	FAM83A	YES	6
232	cnv_SHOX|ENSG00000185960.8	cnv	SHOX|ENSG00000185960.8	NO	0
233	mrna_ATP11A	mrna	ATP11A	YES	23
234	meth_AAMP	meth	AAMP	YES	17
234	mrna_IGKV3D-15	mrna	IGKV3D-15	YES	9
235	cnv_AICDA	cnv	AICDA	YES	21
235	cnv_PKHD1	cnv	PKHD1	YES	32
236	meth_KB-1043D8.6	meth	KB-1043D8.6	NO	0
236	mrna_CAPN11	mrna	CAPN11	YES	11
237	cnv_snoU13|ENSG00000238764.1	cnv	snoU13|ENSG00000238764.1	NO	0
238	mrna_RNASEH1	mrna	RNASEH1	YES	16
238	stv_GADL1	stv	GADL1	YES	9
239	cnv_PDE9A	cnv	PDE9A	YES	23
239	meth_PF4V1	meth	PF4V1	YES	17
240	cnv_NCSTN	cnv	NCSTN	YES	34
240	meth_OR7A5	meth	OR7A5	YES	11
241	cnv_LINC00322	cnv	LINC00322	NO	0
241	meth_RAB11FIP5	meth	RAB11FIP5	YES	27
242	mrna_PRRG1	mrna	PRRG1	YES	5
243	meth_TAB1	meth	TAB1	YES	36
244	cnv_RIMS4	cnv	RIMS4	YES	11
244	meth_PDE7B	meth	PDE7B	YES	9
245	stv_SLC16A7	stv	SLC16A7	YES	14

246	mrna_KLRC1	mrna	KLRC1	YES	11
246	mrna_E2F6	mrna	E2F6	YES	17
247	meth_PYDC2	meth	PYDC2	YES	13
247	mrna_HIVEP2	mrna	HIVEP2	YES	13
248	meth_C7orf33	meth	C7orf33	NO	0
248	meth_CYP2D7	meth	CYP2D7	YES	17
249	meth_SERPINB2	meth	SERPINB2	YES	12
250	cnv_MAP7D2	cnv	MAP7D2	YES	3
251	meth_PIK3C2A	meth	PIK3C2A	YES	35
251	mrna_C2orf40	mrna	C2orf40	YES	7
252	meth_LPAL2	meth	LPAL2	NO	0
252	mrna_NPM1P27	mrna	NPM1P27	NO	0
253	mrna_TLN1	mrna	TLN1	YES	38
254	cnv_CRISP1	cnv	CRISP1	YES	8
254	meth_HMGN3	meth	HMGN3	YES	14
255	meth_BATF2	meth	BATF2	YES	10
256	cnv_GFAP	cnv	GFAP	YES	37
256	meth_FGF21	meth	FGF21	YES	27
257	meth_GAS2	meth	GAS2	YES	10
257	mrna_MYO10	mrna	MYO10	YES	34
258	meth_STX18	meth	STX18	YES	21
258	mrna_MALT1	mrna	MALT1	YES	42
259	cnv_MIR548P	cnv	MIR548P	NO	0
259	mrna_KIAA1210	mrna	KIAA1210	YES	3
260	meth_HOXC-AS3	meth	HOXC-AS3	NO	0
261	meth_GJD4	meth	GJD4	YES	8
261	mrna_EML4	mrna	EML4	YES	9
262	mrna_KCTD9	mrna	KCTD9	YES	8
262	mrna_EOGT	mrna	EOGT	YES	9
263	cnv_FAM174A	cnv	FAM174A	YES	2
263	meth_AGT	meth	AGT	YES	111
264	meth_WBP1L	meth	WBP1L	YES	3
264	mrna_ALG1L6P	mrna	ALG1L6P	NO	0
265	meth_OR8B8	meth	OR8B8	YES	12
265	mrna_FAM218A	mrna	FAM218A	YES	1
266	meth_DEFB126	meth	DEFB126	YES	8
267	meth_POU6F2	meth	POU6F2	YES	10
268	meth_MIIP	meth	MIIP	YES	3
268	mrna_PAX6	mrna	PAX6	YES	101
269	mrna_KLF12	mrna	KLF12	YES	16
269	mrna_ULBP2	mrna	ULBP2	YES	11
270	meth_ABCA8	meth	ABCA8	YES	15
270	mrna_RARB	mrna	RARB	YES	45
271	cnv_EIF1AX	cnv	EIF1AX	YES	8
271	meth_HECW1	meth	HECW1	YES	9
272	cnv_RN7SKP68	cnv	RN7SKP68	NO	0
273	meth_F10	meth	F10	YES	22
273	mrna_SNTG2	mrna	SNTG2	YES	11
274	mrna_CCDC14	mrna	CCDC14	YES	8
274	mrna_SYT15	mrna	SYT15	YES	11
275	meth_LRP1	meth	LRP1	YES	75
275	mrna_FGFR2	mrna	FGFR2	YES	141
276	mrna_WASF3	mrna	WASF3	YES	13
277	meth_KARS	meth	KARS	YES	42
278	meth_TSPAN8	meth	TSPAN8	YES	10
278	stv_ACTG1	stv	ACTG1	YES	31
279	meth_SPG20	meth	SPG20	YES	17
279	mrna_B3GNT5	mrna	B3GNT5	YES	17
280	meth_UGT1A10	meth	UGT1A10	YES	17
280	stv_KLHDC8A	stv	KLHDC8A	YES	3
281	meth_QRSL1	meth	QRSL1	YES	11
281	meth_TEX15	meth	TEX15	YES	16
282	meth_TAAR5	meth	TAAR5	YES	11
282	mrna_PDE1C	mrna	PDE1C	YES	14

283	meth_MICAL2	meth	MICAL2	YES	15
283	mrna_IGJ	mrna	IGJ	YES	3
284	cnv_CASQ1	cnv	CASQ1	YES	32
284	meth_ARV1	meth	ARV1	YES	19
285	mrna_DHX57	mrna	DHX57	YES	11
286	meth_TMEM182	meth	TMEM182	YES	3
287	meth_S100A6	meth	S100A6	YES	23
287	mrna_PNMAL1	mrna	PNMAL1	NO	0
288	meth_PDLIM3	meth	PDLIM3	YES	10
288	stv_DTWD2	stv	DTWD2	YES	1
289	meth_KIF22	meth	KIF22	YES	27
290	meth_AK5	meth	AK5	YES	20
290	mrna_RAB5C	mrna	RAB5C	YES	22
291	cnv_LINC00102|ENSG00000230542.1	cnv	LINC00102|ENSG00000230542.1	NO	0
291	mrna_PPP1CB	mrna	PPP1CB	YES	33
292	cnv_EFNA5	cnv	EFNA5	YES	38
292	mrna_MID1	mrna	MID1	YES	27
293	mrna_DCBLD2	mrna	DCBLD2	YES	8
293	mrna_BCDIN3D-AS1	mrna	BCDIN3D-AS1	NO	0
294	mrna_RP11-81H14.2	mrna	RP11-81H14.2	NO	0
295	mrna_PLAGL1	mrna	PLAGL1	YES	20
295	mrna_CTD-3065J16.9	mrna	CTD-3065J16.9	NO	0
296	meth_RP4-583P15.14	meth	RP4-583P15.14	NO	0
296	mrna_CCDC82	mrna	CCDC82	NO	0
297	meth_CYP4F12	meth	CYP4F12	YES	30
297	meth_SHROOM3	meth	SHROOM3	YES	17
298	mrna_DDX43	mrna	DDX43	YES	11
298	mrna_VEPH1	mrna	VEPH1	YES	2
299	mrna_PRF1	mrna	PRF1	YES	23
300	mrna_GPHN	mrna	GPHN	YES	27
301	meth_CLPSL2	meth	CLPSL2	YES	6
301	meth_HNRNPCL1	meth	HNRNPCL1	YES	5
302	meth_AP4S1	meth	AP4S1	YES	9
302	meth_GPHN	meth	GPHN	YES	27
303	cnv_CXorf23	cnv	CXorf23	YES	1
303	mrna_HESX1	mrna	HESX1	YES	19
304	cnv_TMEM241	cnv	TMEM241	YES	8
304	mrna_IRAK3	mrna	IRAK3	YES	37
305	meth_CCDC71	meth	CCDC71	NO	0
306	cnv_DDX51	cnv	DDX51	YES	14
306	mrna_IL1RAP	mrna	IL1RAP	YES	26
307	meth_CD44	meth	CD44	YES	42
307	mrna_FAM134C	mrna	FAM134C	YES	1
308	meth_IL1RL2	meth	IL1RL2	YES	16
308	meth_PDCD6	meth	PDCD6	YES	45
309	mrna_CAND2	mrna	CAND2	YES	8
310	meth_TRIM15	meth	TRIM15	YES	12
310	mrna_RP11-410L14.2	mrna	RP11-410L14.2	NO	0
311	mrna_JRKL	mrna	JRKL	YES	4
312	meth_GPD1L	meth	GPD1L	YES	31
312	stv_NFKB2	stv	NFKB2	YES	32
313	cnv_TMPRSS3	cnv	TMPRSS3	YES	16
313	meth_SP3	meth	SP3	YES	41
314	cnv_CRHR1	cnv	CRHR1	YES	60
314	cnv_U3|ENSG00000221044.1	cnv	U3|ENSG00000221044.1	NO	0
315	meth_SERPINB3	meth	SERPINB3	YES	26
316	cnv_TFAP2B	cnv	TFAP2B	YES	64
317	meth_FAM46B	meth	FAM46B	YES	1
317	mrna_TMEM123	mrna	TMEM123	YES	7
318	cnv_RSPH1	cnv	RSPH1	YES	14
319	meth_KRT20	meth	KRT20	YES	12
319	meth_STOML3	meth	STOML3	YES	10
320	meth_ZNF32	meth	ZNF32	YES	7
320	mrna_RP3-512B11.3	mrna	RP3-512B11.3	NO	0

321	mrna_CALU	mrna	CALU	YES	15
321	mrna_IGLV10-54	mrna	IGLV10-54	YES	9
322	cnv_SFSWAP	cnv	SFSWAP	YES	11
322	mrna_BNIP2	mrna	BNIP2	YES	23
323	cnv_TFAP2D	cnv	TFAP2D	YES	14
323	meth_LRRC46	meth	LRRC46	YES	2
324	meth_OR2V2	meth	OR2V2	YES	11
324	meth_RP11-208N14.4	meth	RP11-208N14.4	NO	0
325	meth_RP4-612B15.3	meth	RP4-612B15.3	NO	0
325	mrna_FOSL2	mrna	FOSL2	YES	20
326	meth_CCDC74B	meth	CCDC74B	NO	0
326	mrna_AC096772.6	mrna	AC096772.6	NO	0
327	mrna_MPP6	mrna	MPP6	YES	6
328	mrna_IGHV3-15	mrna	IGHV3-15	YES	17
328	stv_HSPA4L	stv	HSPA4L	YES	7
329	cnv_FCRL6	cnv	FCRL6	YES	4
329	meth_FCGBP	meth	FCGBP	YES	3
330	meth_PDC	meth	PDC	YES	15
330	mrna_RPS6KA3	mrna	RPS6KA3	YES	45
331	mrna_GSPT2	mrna	GSPT2	YES	14
333	meth_SLC7A9	meth	SLC7A9	YES	19
333	mrna_RP11-61J19.5	mrna	RP11-61J19.5	NO	0
335	meth_ASCL5	meth	ASCL5	YES	12
336	meth_SLC25A20	meth	SLC25A20	YES	14
336	stv_PAPD7	stv	PAPD7	YES	17
337	meth_ZNF513	meth	ZNF513	YES	11
337	mrna_C2orf44	mrna	C2orf44	NO	0
338	meth_RP11-517H2.6	meth	RP11-517H2.6	NO	0
339	mrna_GPM6B	mrna	GPM6B	YES	17
340	meth_MMP20	meth	MMP20	YES	18
340	meth_MRGPRX1	meth	MRGPRX1	YES	9
341	meth_RP11-1149O23.3	meth	RP11-1149O23.3	NO	0
342	meth_REG1B	meth	REG1B	YES	4
342	mrna_AC007405.6	mrna	AC007405.6	NO	0
343	meth_SETD1A	meth	SETD1A	YES	32
343	meth_ZPR1	meth	ZPR1	YES	40
345	mrna_ITGA6	mrna	ITGA6	YES	52
345	mrna_CNKSR2	mrna	CNKSR2	YES	9
346	mrna_TCF7L2	mrna	TCF7L2	YES	74
346	stv_GAL3ST4	stv	GAL3ST4	YES	16
347	mrna_KANK4	mrna	KANK4	YES	3
348	meth_NAIF1	meth	NAIF1	YES	9
348	meth_NLRP5	meth	NLRP5	YES	19
349	meth_RP11-624C23.1	meth	RP11-624C23.1	NO	0
350	mrna_ZNF391	mrna	ZNF391	YES	7
351	cnv_C21orf128	cnv	C21orf128	NO	0
351	mrna_FAM89A	mrna	FAM89A	NO	0
352	mrna_VPS25	mrna	VPS25	YES	22
352	mrna_RFX5	mrna	RFX5	YES	13
353	mrna_DGKG	mrna	DGKG	YES	21
353	mrna_AC125232.1	mrna	AC125232.1	NO	0
354	mrna_SRGAP2	mrna	SRGAP2	YES	18
356	meth_AC096574.4	meth	AC096574.4	NO	0
356	meth_EPPIN	meth	EPPIN	YES	15
357	cnv_FYN	cnv	FYN	YES	109
357	mrna_TLR6	mrna	TLR6	YES	55
358	mrna_NAPRT	mrna	NAPRT	YES	17
359	cnv_ZBTB21	cnv	ZBTB21	YES	9
360	mrna_DAPK1	mrna	DAPK1	YES	35
361	meth_HSD11B1	meth	HSD11B1	YES	12
361	mrna_RP11-670E13.6	mrna	RP11-670E13.6	NO	0
362	meth_MRPL51	meth	MRPL51	YES	12
362	mrna_RP11-158K1.3	mrna	RP11-158K1.3	NO	0
363	mrna_FASLG	mrna	FASLG	YES	54

363	mrna_CPSF3	mrna	CPSF3	YES	21
364	meth_AMTN	meth	AMTN	YES	14
364	meth_PRB1	meth	PRB1	NO	0
365	mrna_CD38	mrna	CD38	YES	38
366	mrna_MYLK	mrna	MYLK	YES	30
366	mrna_ECHDC1	mrna	ECHDC1	YES	13
367	cnv_AWAT1	cnv	AWAT1	YES	13
367	mrna_EHHADH	mrna	EHHADH	YES	22
368	meth_CRIM1	meth	CRIM1	YES	15
369	cnv_CRISP3	cnv	CRISP3	YES	13
369	stv_NFE2L3	stv	NFE2L3	YES	15
370	cnv_P2RY8|ENSG00000182162.5	cnv	P2RY8|ENSG00000182162.5	NO	0
370	meth_SNHG14	meth	SNHG14	NO	0
371	meth_PLEKHO1	meth	PLEKHO1	YES	11
371	mrna_GJC1	mrna	GJC1	YES	27
372	meth_SOX9	meth	SOX9	YES	154
372	mrna_CSPG4P8	mrna	CSPG4P8	NO	0
373	mrna_TSPAN2	mrna	TSPAN2	YES	14
373	mrna_DST	mrna	DST	YES	50
374	meth_CST6	meth	CST6	YES	11
374	meth_KCNH5	meth	KCNH5	YES	24
375	cnv_EDA	cnv	EDA	YES	30
375	meth_APLF	meth	APLF	YES	19
376	mrna_IGLV4-69	mrna	IGLV4-69	YES	9
377	meth_ARL11	meth	ARL11	YES	7
377	meth_RP11-701H24.8	meth	RP11-701H24.8	NO	0
378	cnv_GPATCH8	cnv	GPATCH8	YES	6
378	mrna_FLNA	mrna	FLNA	YES	80
379	meth_IL17RD	meth	IL17RD	YES	12
379	mrna_GRHL1	mrna	GRHL1	YES	21
380	mrna_ZFAND5	mrna	ZFAND5	YES	16
381	mrna_ROR1	mrna	ROR1	YES	24
382	meth_ZSCAN21	meth	ZSCAN21	YES	13
382	mrna_TSTA3	mrna	TSTA3	YES	18
383	meth_MKI67	meth	MKI67	YES	25
383	meth_UNC5B	meth	UNC5B	YES	13
384	cnv_U2AF1	cnv	U2AF1	YES	21
384	meth_JAG2	meth	JAG2	YES	29
385	meth_RPS18	meth	RPS18	YES	26
386	mrna_ABTB2	mrna	ABTB2	YES	10
387	mrna_FAM26F	mrna	FAM26F	YES	8
388	stv_ZNF41	stv	ZNF41	YES	9
389	meth_CX3CR1	meth	CX3CR1	YES	37
390	mrna_PRSS16	mrna	PRSS16	YES	11
391	mrna_MAP7D3	mrna	MAP7D3	YES	10
391	mrna_PPP1R16A	mrna	PPP1R16A	YES	5
392	cnv_METTL24	cnv	METTL24	YES	4
393	cnv_TOMM34	cnv	TOMM34	YES	11
393	mrna_GNG12	mrna	GNG12	YES	14
394	cnv_CHFR	cnv	CHFR	YES	19
394	mrna_CRHR1-IT1	mrna	CRHR1-IT1	NO	0
395	meth_NCAPD3	meth	NCAPD3	YES	15
395	mrna_YEATS2	mrna	YEATS2	YES	9
396	cnv_NHS	cnv	NHS	YES	13
396	mrna_RP11-301L8.2	mrna	RP11-301L8.2	NO	0
397	meth_SNRPD3	meth	SNRPD3	YES	42
397	mrna_RP11-705C15.2	mrna	RP11-705C15.2	NO	0
398	mrna_HRH2	mrna	HRH2	YES	22
399	meth_LL22NC03-63E9.3	meth	LL22NC03-63E9.3	NO	0
399	mrna_IL15	mrna	IL15	YES	44
400	mrna_CHST6	mrna	CHST6	YES	12
401	meth_POLE4	meth	POLE4	YES	15
401	mrna_P2RX1	mrna	P2RX1	YES	46
402	meth_C20orf85	meth	C20orf85	NO	0

403	cnv_STX2	cnv	STX2	YES	28
403	mrna_NTRK3	mrna	NTRK3	YES	56
404	mrna_SAV1	mrna	SAV1	YES	23
404	stv_FAM134C	stv	FAM134C	YES	1
405	meth_HFE2	meth	HFE2	YES	24
405	mrna_SERPINB1	mrna	SERPINB1	YES	11
406	meth_IRAK4	meth	IRAK4	YES	33
407	meth_CYP2J2	meth	CYP2J2	YES	24
407	meth_KDELR3	meth	KDELR3	YES	13
408	meth_NXPE1	meth	NXPE1	YES	3
409	cnv_RNA5SP213	cnv	RNA5SP213	NO	0
409	mrna_TLDC1	mrna	TLDC1	YES	3
410	mrna_ZNF93	mrna	ZNF93	YES	11
410	mrna_RP1-228H13.5	mrna	RP1-228H13.5	NO	0
411	mrna_PRDM11	mrna	PRDM11	YES	7
412	meth_UTS2R	meth	UTS2R	YES	29
412	mrna_PTPRZ1	mrna	PTPRZ1	YES	23
413	stv_C6orf15	stv	C6orf15	YES	14
413	stv_C9orf84	stv	C9orf84	NO	0
414	cnv_UMODL1	cnv	UMODL1	YES	17
414	meth_RNASEH2C	meth	RNASEH2C	YES	3
415	meth_STEAP4	meth	STEAP4	YES	19
416	meth_OR6A2	meth	OR6A2	YES	11
416	mrna_PSME3	mrna	PSME3	YES	42
417	cnv_MIR320C2	cnv	MIR320C2	YES	1
417	mrna_POU2AF1	mrna	POU2AF1	YES	14
418	meth_MORF4	meth	MORF4	NO	0
418	mrna_HSPBAP1	mrna	HSPBAP1	YES	2
419	meth_AC026202.3	meth	AC026202.3	NO	0
419	meth_NUDT21	meth	NUDT21	YES	21
420	mrna_GZMB	mrna	GZMB	YES	17
420	mrna_BEND3P3	mrna	BEND3P3	NO	0
422	mrna_IGKV2D-40	mrna	IGKV2D-40	YES	19
423	stv_PSMA2	stv	PSMA2	YES	46
424	meth_IDI2	meth	IDI2	YES	16
424	mrna_ZMAT4	mrna	ZMAT4	YES	9
425	mrna_TXNL4A	mrna	TXNL4A	YES	16
426	cnv_MIR206	cnv	MIR206	YES	4
427	mrna_CDK6	mrna	CDK6	YES	61
427	mrna_GAPDHP65	mrna	GAPDHP65	NO	0
428	meth_MTMR6	meth	MTMR6	YES	18
428	meth_MX1	meth	MX1	YES	28
429	cnv_FAM187A	cnv	FAM187A	YES	2
430	meth_NAF1	meth	NAF1	YES	19
430	mrna_CORO1C	mrna	CORO1C	YES	33
431	meth_DMPK	meth	DMPK	YES	41
431	meth_HAUS2	meth	HAUS2	YES	18
432	meth_SURF1	meth	SURF1	YES	14
432	mrna_SLC35G1	mrna	SLC35G1	YES	8
433	cnv_TXLNG	cnv	TXLNG	YES	13
433	meth_CASP8	meth	CASP8	YES	72
434	cnv_LINC00987	cnv	LINC00987	NO	0
434	meth_SEPT9	meth	SEPT9	YES	20
435	mrna_APOL3	mrna	APOL3	YES	12
435	mrna_SLC12A6	mrna	SLC12A6	YES	19
437	cnv_ASB16	cnv	ASB16	YES	10
438	cnv_RBBP8	cnv	RBBP8	YES	35
438	mrna_KALRN	mrna	KALRN	YES	51
439	meth_IKZF1	meth	IKZF1	YES	31
441	cnv_MIR676	cnv	MIR676	NO	0
442	cnv_LPIN3	cnv	LPIN3	YES	13
442	meth_CRTAM	meth	CRTAM	YES	20
443	meth_EMR3	meth	EMR3	YES	12
443	meth_ZKSCAN3	meth	ZKSCAN3	YES	23

444	mrna_CRYBG3	mrna	CRYBG3	YES	1
445	meth_ANPEP	meth	ANPEP	YES	31
446	meth_AC002116.7	meth	AC002116.7	NO	0
447	meth_FUZ	meth	FUZ	YES	23
447	mrna_RP11-136C24.3	mrna	RP11-136C24.3	NO	0
448	meth_ACTRT2	meth	ACTRT2	YES	2
448	meth_YTHDF1	meth	YTHDF1	YES	7
449	meth_HKDC1	meth	HKDC1	YES	19
449	mrna_RP4-647C14.2	mrna	RP4-647C14.2	NO	0
451	cnv_PIGM	cnv	PIGM	YES	9
451	meth_NPAP1	meth	NPAP1	YES	14
452	meth_CALML5	meth	CALML5	YES	8
452	meth_SLC16A8	meth	SLC16A8	YES	16
453	mrna_VCL	mrna	VCL	YES	53
454	meth_DEFB125	meth	DEFB125	YES	5
454	stv_ACTL6A	stv	ACTL6A	YES	35
455	meth_SLC39A4	meth	SLC39A4	YES	20
456	mrna_DDX1	mrna	DDX1	YES	43
456	stv_GIMAP1	stv	GIMAP1	YES	8
457	meth_PRSS51	meth	PRSS51	YES	2
459	meth_CYP1B1	meth	CYP1B1	YES	53
459	meth_PLA2G5	meth	PLA2G5	YES	26
460	cnv_IGBP1	cnv	IGBP1	YES	18
460	mrna_OGFRL1	mrna	OGFRL1	YES	2
461	meth_MIR5691	meth	MIR5691	NO	0
462	meth_AGPAT9	meth	AGPAT9	YES	15
462	meth_RETNLB	meth	RETNLB	YES	6
463	cnv_NHLH1	cnv	NHLH1	YES	13
463	meth_ATP2A1	meth	ATP2A1	YES	37
464	meth_NOP16	meth	NOP16	YES	5
464	mrna_LAMC2	mrna	LAMC2	YES	18
465	mrna_CTSC	mrna	CTSC	YES	39
465	mrna_GOLGA6L9	mrna	GOLGA6L9	YES	1
466	meth_IZUMO4	meth	IZUMO4	YES	2
466	stv_TOP1MT	stv	TOP1MT	YES	10
467	cnv_CD69	cnv	CD69	YES	12
467	mrna_JPH2	mrna	JPH2	YES	27
469	meth_CDC42SE1	meth	CDC42SE1	YES	10
469	stv_AP3D1	stv	AP3D1	YES	32
470	mrna_AP5B1	mrna	AP5B1	YES	6
470	stv_CCDC28A	stv	CCDC28A	YES	1
471	meth_AXIN2	meth	AXIN2	YES	49
472	mrna_DCLK2	mrna	DCLK2	YES	21
473	meth_CUZD1	meth	CUZD1	YES	11
474	mrna_TPI1	mrna	TPI1	YES	19
474	mrna_PDP1	mrna	PDP1	YES	13
475	meth_KRTAP9-4	meth	KRTAP9-4	YES	5
475	stv_TXNDC5	stv	TXNDC5	YES	16
476	mrna_ZNF354C	mrna	ZNF354C	YES	10
477	cnv_A2ML1	cnv	A2ML1	YES	9
477	meth_WFDC10A	meth	WFDC10A	YES	5
478	meth_BMP10	meth	BMP10	YES	42
479	meth_BNIP2	meth	BNIP2	YES	23
479	meth_TRAV1-1	meth	TRAV1-1	YES	1
480	meth_KLK4	meth	KLK4	YES	12
480	mrna_OTOF	mrna	OTOF	YES	17
481	mrna_KLF10	mrna	KLF10	YES	28
482	stv_STK32C	stv	STK32C	YES	12
483	mrna_CCR2	mrna	CCR2	YES	53
484	mrna_CFAP58	mrna	CFAP58	YES	4
484	mrna_MBNL1-AS1	mrna	MBNL1-AS1	NO	0
485	cnv_snoU13|ENSG00000251848.1	cnv	snoU13|ENSG00000251848.1	NO	0
485	meth_ARPP19	meth	ARPP19	YES	20
486	meth_PRICKLE2	meth	PRICKLE2	YES	8

487	cnv_RIMKLB	cnv	RIMKLB	YES	11
487	meth_SLC22A11	meth	SLC22A11	YES	22
488	meth_GDF9	meth	GDF9	YES	18
488	mrna_PDCD1	mrna	PDCD1	YES	16
489	meth_TCAP	meth	TCAP	YES	32
489	meth_WBP2NL	meth	WBP2NL	YES	6
490	cnv_RN7SL819P	cnv	RN7SL819P	NO	0
490	meth_KBTBD4	meth	KBTBD4	YES	7
491	cnv_SNORA48|ENSG00000212214.1	cnv	SNORA48|ENSG00000212214.1	NO	0
491	mrna_MPZL2	mrna	MPZL2	YES	8
492	meth_AP000251.3	meth	AP000251.3	NO	0
492	mrna_RP11-290F5.1	mrna	RP11-290F5.1	NO	0
493	cnv_LINC00106|ENSG00000236871.2	cnv	LINC00106|ENSG00000236871.2	NO	0
493	meth_SARS	meth	SARS	YES	22
494	meth_SALL1	meth	SALL1	YES	46
494	mrna_ATP2A1-AS1	mrna	ATP2A1-AS1	NO	0
495	cnv_RNA5SP377	cnv	RNA5SP377	NO	0
495	meth_NPAS3	meth	NPAS3	YES	14
496	meth_OR5V1	meth	OR5V1	YES	11
496	mrna_DHX8	mrna	DHX8	YES	19
497	meth_TBC1D10A	meth	TBC1D10A	YES	20
498	meth_CD1A	meth	CD1A	YES	17
499	mrna_RP11-244O19.1	mrna	RP11-244O19.1	NO	0
499	stv_CCR1	stv	CCR1	YES	38
500	meth_CD1C	meth	CD1C	YES	18
500	mrna_ANKRD36BP2	mrna	ANKRD36BP2	NO	0
501	meth_LINC00112	meth	LINC00112	NO	0
501	mrna_NRARP	mrna	NRARP	YES	13
502	mrna_DUSP3	mrna	DUSP3	YES	35
503	mrna_PNOC	mrna	PNOC	YES	13
503	mrna_NUGGC	mrna	NUGGC	YES	5
505	cnv_GOLGA3	cnv	GOLGA3	YES	16
505	cnv_snoU13|ENSG00000238563.1	cnv	snoU13|ENSG00000238563.1	NO	0
506	cnv_REV3L	cnv	REV3L	YES	21
506	mrna_ANKRD6	mrna	ANKRD6	YES	6
507	meth_CYB561A3	meth	CYB561A3	YES	10
507	meth_POU5F1	meth	POU5F1	YES	35
508	mrna_SLC9A6	mrna	SLC9A6	YES	40
508	mrna_IGKV1-17	mrna	IGKV1-17	YES	19
509	cnv_LRRC37A2	cnv	LRRC37A2	YES	2
509	cnv_PLCG1	cnv	PLCG1	YES	44
510	cnv_ZNF140	cnv	ZNF140	YES	11
510	mrna_KIAA0922	mrna	KIAA0922	YES	1
511	mrna_PAQR8	mrna	PAQR8	YES	12
511	mrna_CCDC163P	mrna	CCDC163P	NO	0
512	cnv_WISP2	cnv	WISP2	YES	12
512	stv_CD226	stv	CD226	YES	28
513	cnv_LINC00269	cnv	LINC00269	NO	0
514	meth_ACER3	meth	ACER3	YES	16
514	meth_RBBP4	meth	RBBP4	YES	35
516	cnv_ZNF605	cnv	ZNF605	YES	8
517	meth_POLR3D	meth	POLR3D	YES	17
518	meth_PNPLA2	meth	PNPLA2	YES	26
520	meth_C1orf115	meth	C1orf115	YES	2
521	cnv_PHKA2	cnv	PHKA2	YES	14
521	meth_VTI1A	meth	VTI1A	YES	35
522	meth_MMP14	meth	MMP14	YES	63
523	meth_RAB42	meth	RAB42	YES	4
524	meth_REG1A	meth	REG1A	YES	5
524	stv_HAGH	stv	HAGH	YES	12
525	meth_FAM200A	meth	FAM200A	YES	9
526	meth_ARFRP1	meth	ARFRP1	YES	22
526	mrna_MTMR2	mrna	MTMR2	YES	42
527	meth_ACD	meth	ACD	YES	28

527	meth_FANCA	meth	FANCA	YES	17
528	meth_RP11-296A16.1	meth	RP11-296A16.1	NO	0
529	meth_ARMC12	meth	ARMC12	YES	1
530	cnv_PKNOX1	cnv	PKNOX1	YES	20
532	meth_CCR1	meth	CCR1	YES	38
532	meth_RP11-701H24.5	meth	RP11-701H24.5	NO	0
533	meth_EMR2	meth	EMR2	YES	17
533	mrna_MAPRE2	mrna	MAPRE2	YES	12
534	mrna_GRAMD3	mrna	GRAMD3	YES	1
535	mrna_IGKV1OR2-108	mrna	IGKV1OR2-108	YES	3
536	meth_INHBC	meth	INHBC	YES	12
536	mrna_MAP3K14-AS1	mrna	MAP3K14-AS1	NO	0
537	meth_EEF1B2	meth	EEF1B2	YES	9
537	meth_KRT24	meth	KRT24	YES	8
539	cnv_RS1	cnv	RS1	YES	22
539	meth_CTB-61M7.1	meth	CTB-61M7.1	NO	0
540	meth_FOXH1	meth	FOXH1	YES	46
540	mrna_YTHDF3-AS1	mrna	YTHDF3-AS1	NO	0
541	meth_GARNL3	meth	GARNL3	YES	3
541	mrna_LRCH1	mrna	LRCH1	YES	3
542	cnv_C18orf8	cnv	C18orf8	YES	2
542	mrna_FGF11	mrna	FGF11	YES	5
543	mrna_MFSD1	mrna	MFSD1	YES	4
544	cnv_HS3ST5	cnv	HS3ST5	YES	14
545	meth_ENTPD3	meth	ENTPD3	YES	13
545	meth_NPVF	meth	NPVF	YES	5
546	meth_SCEL	meth	SCEL	YES	9
546	mrna_LINC00238	mrna	LINC00238	NO	0
547	cnv_C1orf204	cnv	C1orf204	YES	2
547	meth_SEMG2	meth	SEMG2	YES	12
548	mrna_HDAC4	mrna	HDAC4	YES	78
548	mrna_COMMD2	mrna	COMMD2	YES	4
549	meth_C9	meth	C9	YES	22
549	mrna_DNAJC7	mrna	DNAJC7	YES	14
550	meth_RIT2	meth	RIT2	YES	30
550	mrna_HSPA1L	mrna	HSPA1L	YES	19
551	mirna_MIR2116	mirna	MIR2116	NO	0
552	cnv_SNORA75|ENSG00000212440.1	cnv	SNORA75|ENSG00000212440.1	NO	0
552	mrna_YAP1	mrna	YAP1	YES	37
553	meth_GNPDA1	meth	GNPDA1	YES	11
554	cnv_NAGS	cnv	NAGS	YES	9
555	mrna_MRPL51	mrna	MRPL51	YES	12
556	cnv_NMT1	cnv	NMT1	YES	19
556	meth_APCS	meth	APCS	YES	26
558	cnv_MAP3K14	cnv	MAP3K14	YES	31
558	mrna_SNRPD1	mrna	SNRPD1	YES	30
559	mrna_NOTCH2	mrna	NOTCH2	YES	46
559	mrna_PHC1P1	mrna	PHC1P1	NO	0
560	cnv_ZNF268	cnv	ZNF268	YES	28
560	mrna_FGD4	mrna	FGD4	YES	25
562	meth_MUC7	meth	MUC7	YES	11
562	meth_ST6GALNAC2	meth	ST6GALNAC2	YES	13
563	meth_KRTAP17-1	meth	KRTAP17-1	YES	3
564	cnv_SH3KBP1	cnv	SH3KBP1	YES	26
564	mrna_FAM84B	mrna	FAM84B	YES	3
565	meth_ITPR2	meth	ITPR2	YES	38
566	meth_SELE	meth	SELE	YES	33
567	cnv_FITM2	cnv	FITM2	YES	16
568	meth_SEC61A2	meth	SEC61A2	YES	11
569	meth_MIOX	meth	MIOX	YES	15
569	mrna_ULBP3	mrna	ULBP3	YES	10
570	cnv_LINC00319	cnv	LINC00319	NO	0
571	meth_UCP3	meth	UCP3	YES	26
572	cnv_SNORA26|ENSG00000212224.1	cnv	SNORA26|ENSG00000212224.1	NO	0

572	meth_ZNF35	meth	ZNF35	YES	12
573	meth_REG4	meth	REG4	YES	5
574	meth_KCTD14	meth	KCTD14	YES	2
575	meth_ELOVL1	meth	ELOVL1	YES	22
575	mrna_A2M	mrna	A2M	YES	28
576	meth_CCND8P1	meth	CCND8P1	YES	6
576	mrna_RP11-505K9.1	mrna	RP11-505K9.1	NO	0
577	cnv_CRISP2	cnv	CRISP2	YES	2
577	mrna_TBC1D2B	mrna	TBC1D2B	YES	8
578	mrna_ELF4	mrna	ELF4	YES	20
578	mrna_RASSF9	mrna	RASSF9	YES	9
580	cnv_ZNF521	cnv	ZNF521	YES	10
580	meth_CNTN4	meth	CNTN4	YES	16
581	meth_ENOSF1	meth	ENOSF1	YES	10
583	mrna_FBXL6	mrna	FBXL6	YES	4
584	cnv_RHAG	cnv	RHAG	YES	19
584	mrna_KIAA0355	mrna	KIAA0355	NO	0
585	mrna_NRG2	mrna	NRG2	YES	24
586	cnv_CRP	cnv	CRP	YES	28
586	cnv_SLAMF9	cnv	SLAMF9	YES	3
587	mrna_DYRK4	mrna	DYRK4	YES	16
588	mrna_ARHGEF10	mrna	ARHGEF10	YES	13
589	meth_HUNK	meth	HUNK	YES	13
589	mrna_ZNF683	mrna	ZNF683	YES	16
590	meth_PHLDB2	meth	PHLDB2	YES	20
591	meth_IPO8	meth	IPO8	YES	15
592	cnv_FAM155B	cnv	FAM155B	YES	5
593	meth_C4orf17	meth	C4orf17	NO	0
594	meth_CHMP4B	meth	CHMP4B	YES	46
594	mrna_TRIM2	mrna	TRIM2	YES	9
595	cnv_RN7SL48P	cnv	RN7SL48P	NO	0
595	mrna_CALML4	mrna	CALML4	YES	1
597	mrna_FAM126A	mrna	FAM126A	YES	11
598	cnv_POLE	cnv	POLE	YES	32
598	mrna_RP11-61L23.2	mrna	RP11-61L23.2	NO	0
601	cnv_ATP1A4	cnv	ATP1A4	YES	24
602	meth_EIF2B1	meth	EIF2B1	YES	25
602	meth_YBX2	meth	YBX2	YES	22
603	mrna_ZC3H12C	mrna	ZC3H12C	YES	8
604	cnv_ADA	cnv	ADA	YES	72
604	meth_ADRA2A	meth	ADRA2A	YES	67
605	cnv_PPY	cnv	PPY	YES	13
605	mrna_ANKRD22	mrna	ANKRD22	YES	1
606	mrna_NFKB1	mrna	NFKB1	YES	70
606	mrna_XCL1	mrna	XCL1	YES	53
607	mrna_SPG20	mrna	SPG20	YES	17
608	cnv_RN7SL258P	cnv	RN7SL258P	NO	0
608	mrna_COMMD5	mrna	COMMD5	YES	7
610	meth_ZCCHC24	meth	ZCCHC24	YES	4
611	meth_S1PR5	meth	S1PR5	YES	10
611	mrna_SOD2	mrna	SOD2	YES	84
612	meth_MARK2	meth	MARK2	YES	41
612	mrna_TMEM164	mrna	TMEM164	YES	2
614	cnv_MUT	cnv	MUT	YES	19
614	meth_MTAP	meth	MTAP	YES	17
615	meth_FAM13A	meth	FAM13A	YES	6
616	cnv_S100G	cnv	S100G	YES	6
617	cnv_EMILIN3	cnv	EMILIN3	YES	4
617	cnv_PJA1	cnv	PJA1	YES	7
618	cnv_TFF2	cnv	TFF2	YES	12
618	mirna_MIR378D	mirna	MIR378D	NO	0
619	meth_DNTTIP1	meth	DNTTIP1	YES	10
619	stv_KCTD12	stv	KCTD12	YES	10
620	mrna_EPB41L2	mrna	EPB41L2	YES	31

622	cnv_LAMA3	cnv	LAMA3	YES	19
622	meth_MPV17L	meth	MPV17L	YES	11
624	meth_CYP17A1	meth	CYP17A1	YES	54
624	mrna_C20orf194	mrna	C20orf194	YES	3
625	meth_YTHDC1	meth	YTHDC1	YES	13
626	mrna_CRLF3	mrna	CRLF3	YES	13
626	mrna_CTD-2366F13.1	mrna	CTD-2366F13.1	NO	0
627	mrna_RP5-908M14.9	mrna	RP5-908M14.9	NO	0
628	mrna_CLIP4	mrna	CLIP4	YES	4
628	mrna_WBSCR17	mrna	WBSCR17	YES	5
629	meth_AGER	meth	AGER	YES	46
629	meth_MYCBP	meth	MYCBP	YES	9
631	meth_GLIS3	meth	GLIS3	YES	10
631	meth_RASD2	meth	RASD2	YES	21
632	meth_COL18A1	meth	COL18A1	YES	25
632	mrna_IGLV7-46	mrna	IGLV7-46	YES	9
633	mrna_ZNF300	mrna	ZNF300	YES	14
633	mrna_SEPT10	mrna	SEPT10	YES	7
634	meth_AXL	meth	AXL	YES	67
634	stv_GINS3	stv	GINS3	YES	4
635	cnv_GPR133	cnv	GPR133	YES	8
636	meth_LAIR1	meth	LAIR1	YES	11
637	mrna_C3orf70	mrna	C3orf70	NO	0
638	meth_ANXA1	meth	ANXA1	YES	114
639	meth_BCL2	meth	BCL2	YES	173
640	mrna_ITGA10	mrna	ITGA10	YES	12
641	mrna_ARRDC3	mrna	ARRDC3	YES	16
641	mrna_MAML2	mrna	MAML2	YES	10
642	cnv_ZHX3	cnv	ZHX3	YES	17
642	meth_AP000695.4	meth	AP000695.4	NO	0
643	stv_UBLCP1	stv	UBLCP1	YES	7
644	meth_LILRB2	meth	LILRB2	YES	39
646	meth_IFI16	meth	IFI16	YES	45
646	mrna_FAM3C	mrna	FAM3C	YES	10
647	meth_STOM	meth	STOM	YES	31
647	meth_TARID	meth	TARID	NO	0
648	meth_MOGAT2	meth	MOGAT2	YES	14
649	meth_COX5A	meth	COX5A	YES	12
649	mrna_LEPROT	mrna	LEPROT	YES	12
650	cnv_MARCKS	cnv	MARCKS	YES	20
651	mrna_WWTR1	mrna	WWTR1	YES	35
651	mrna_IGHV3-20	mrna	IGHV3-20	YES	17
652	meth_RP5-1157M23.2	meth	RP5-1157M23.2	NO	0
653	stv_PHIP	stv	PHIP	YES	20
654	meth_TGFA	meth	TGFA	YES	37
654	mrna_YWHAQ	mrna	YWHAQ	YES	21
656	meth_PLAUR	meth	PLAUR	YES	38
658	cnv_FAM229B	cnv	FAM229B	NO	0
658	meth_SH3BP4	meth	SH3BP4	YES	20
660	mrna_NPAS2	mrna	NPAS2	YES	26
662	cnv_snoU13|ENSG00000239015.1	cnv	snoU13|ENSG00000239015.1	NO	0
662	meth_P4HTM	meth	P4HTM	YES	14
663	mrna_IGKV2-30	mrna	IGKV2-30	YES	19
664	meth_RASGEF1C	meth	RASGEF1C	YES	4
665	meth_ZFP41	meth	ZFP41	YES	8
665	mrna_RP11-26J3.3	mrna	RP11-26J3.3	NO	0
666	cnv_RN7SL247P	cnv	RN7SL247P	NO	0
667	meth_CYP27A1	meth	CYP27A1	YES	19
668	mrna_PDZD2	mrna	PDZD2	YES	7
669	meth_DCAF4	meth	DCAF4	YES	9
669	mrna_MIR4664	mrna	MIR4664	NO	0
670	stv_ASPSCR1	stv	ASPSCR1	YES	21
671	stv_MED13L	stv	MED13L	YES	6
672	meth_AC004156.3	meth	AC004156.3	NO	0

673	mrna_ZNF121	mrna	ZNF121	YES	7
674	meth_NOL10	meth	NOL10	YES	3
674	meth_PNKP	meth	PNKP	YES	37
676	cnv_PDZD11	cnv	PDZD11	YES	16
677	meth_SERPINB10	meth	SERPINB10	YES	13
678	mrna_PRUNE2	mrna	PRUNE2	YES	7
679	meth_LYNX1	meth	LYNX1	YES	4
680	mrna_NMT1	mrna	NMT1	YES	19
681	meth_ASAP1	meth	ASAP1	YES	19
681	mrna_DCAKD	mrna	DCAKD	YES	7
682	meth_TAS2R10	meth	TAS2R10	YES	12
682	mrna_GAPDH	mrna	GAPDH	YES	49
683	mrna_MALL	mrna	MALL	YES	13
684	cnv_RNA5SP498|ENSG00000223274.1	cnv	RNA5SP498|ENSG00000223274.1	NO	0
685	meth_CDCA3	meth	CDCA3	YES	10
686	cnv_LRRC37A	cnv	LRRC37A	YES	2
686	mrna_CTC-260E6.4	mrna	CTC-260E6.4	NO	0
687	cnv_PHC1	cnv	PHC1	YES	11
687	meth_GZMM	meth	GZMM	YES	14
688	meth_GPX1	meth	GPX1	YES	70
688	meth_ZNF80	meth	ZNF80	YES	6
689	meth_AC012456.4	meth	AC012456.4	NO	0
689	meth_TCEANC2	meth	TCEANC2	YES	3
690	meth_HTN1	meth	HTN1	YES	7
691	mirna_MIR1271	mirna	MIR1271	NO	0
692	cnv_PUS1	cnv	PUS1	YES	15
693	meth_FTSJ3	meth	FTSJ3	YES	17
694	mrna_AF186192.5	mrna	AF186192.5	NO	0
696	mrna_CNTRL	mrna	CNTRL	YES	16
696	mrna_L3MBTL3	mrna	L3MBTL3	YES	13
697	cnv_C2CD2	cnv	C2CD2	YES	4
697	meth_DHFR	meth	DHFR	YES	32
698	cnv_CBS	cnv	CBS	YES	42
698	mrna_ARHGAP18	mrna	ARHGAP18	YES	14
699	cnv_CABLES1	cnv	CABLES1	YES	10
699	meth_BAI1	meth	BAI1	YES	17
701	mrna_SLC6A9	mrna	SLC6A9	YES	19
702	meth_FAP	meth	FAP	YES	44
703	stv_TRAPPC9	stv	TRAPPC9	YES	16
705	stv_SLC6A15	stv	SLC6A15	YES	20
706	cnv_P2RX2	cnv	P2RX2	YES	46
706	mrna_ASXL1	mrna	ASXL1	YES	34
707	mrna_NBR2	mrna	NBR2	NO	0
708	meth_TMPRSS3	meth	TMPRSS3	YES	16
708	mrna_C3orf58	mrna	C3orf58	YES	9
710	meth_RP11-51F16.8	meth	RP11-51F16.8	NO	0
711	mrna_RASAL2	mrna	RASAL2	YES	11
712	meth_MKRN3	meth	MKRN3	YES	6
715	meth_HLA-DPA1	meth	HLA-DPA1	YES	35
715	mrna_PIM2	mrna	PIM2	YES	27
716	meth_ELANE	meth	ELANE	YES	48
717	meth_MSLN	meth	MSLN	YES	15
717	mrna_MIXL1	mrna	MIXL1	YES	31
718	meth_PRND	meth	PRND	YES	8
720	mrna_ANKRD1	mrna	ANKRD1	YES	41
721	meth_PPP1R3A	meth	PPP1R3A	YES	4
721	mrna_FOXN3	mrna	FOXN3	YES	14
722	meth_PYGM	meth	PYGM	YES	16
722	meth_TRPV3	meth	TRPV3	YES	18
723	cnv_DCAF8	cnv	DCAF8	YES	9
724	cnv_SNORA31|ENSG00000252337.1	cnv	SNORA31|ENSG00000252337.1	NO	0
724	meth_ODAM	meth	ODAM	YES	17
725	mrna_RAP2B	mrna	RAP2B	YES	26
727	cnv_RNU4ATAC12P	cnv	RNU4ATAC12P	NO	0

728	meth_ANAPC2	meth	ANAPC2	YES	24
728	meth_SERPINB4	meth	SERPINB4	YES	12
729	mrna_GOSR2	mrna	GOSR2	YES	25
730	mrna_RYK	mrna	RYK	YES	29
731	cnv_SNORA3|ENSG00000251778.1	cnv	SNORA3|ENSG00000251778.1	NO	0
731	mrna_PPARGC1B	mrna	PPARGC1B	YES	32
733	meth_C8orf31	meth	C8orf31	NO	0
734	meth_S100A16	meth	S100A16	YES	13
734	mrna_LPCAT2	mrna	LPCAT2	YES	23
735	cnv_SLC22A16	cnv	SLC22A16	YES	22
735	meth_PTTG2	meth	PTTG2	YES	10
736	cnv_PRKX	cnv	PRKX	YES	27
736	meth_ALDH2	meth	ALDH2	YES	15
737	meth_DSCAS	meth	DSCAS	NO	0
738	mrna_EMG1	mrna	EMG1	YES	17
740	meth_MCM5	meth	MCM5	YES	20
740	stv_MBD2	stv	MBD2	YES	42
742	mrna_GFOD1	mrna	GFOD1	YES	5
743	cnv_SNORA16|ENSG00000201467.1	cnv	SNORA16|ENSG00000201467.1	NO	0
743	cnv_XG	cnv	XG	YES	6
744	stv_RTN4	stv	RTN4	YES	37
745	cnv_RAB41	cnv	RAB41	YES	12
745	mrna_INO80C	mrna	INO80C	YES	14
746	mirna_MIR4431	mirna	MIR4431	NO	0
746	mrna_PALM2-AKAP2	mrna	PALM2-AKAP2	YES	3
747	meth_AC011551.3	meth	AC011551.3	NO	0
747	mrna_MAP4K5	mrna	MAP4K5	YES	13
748	meth_RIN2	meth	RIN2	YES	12
748	meth_RNF217	meth	RNF217	YES	14
749	mrna_CASP10	mrna	CASP10	YES	19
750	mrna_KCTD7	mrna	KCTD7	YES	7
751	cnv_TTPAL	cnv	TTPAL	YES	4
751	mirna_MIR3622A	mirna	MIR3622A	NO	0
752	meth_CTDP1	meth	CTDP1	YES	30
752	mrna_CD27	mrna	CD27	YES	31
753	cnv_RN7SL739P	cnv	RN7SL739P	NO	0
755	meth_LCN2	meth	LCN2	YES	36
756	meth_UBE2F	meth	UBE2F	YES	12
756	mrna_TET3	mrna	TET3	YES	18
757	meth_GHRHR	meth	GHRHR	YES	51
758	cnv_R3HDML	cnv	R3HDML	YES	3
759	meth_GCSAML	meth	GCSAML	YES	2
760	mrna_ACSL5	mrna	ACSL5	YES	20
760	stv_BPIFB3	stv	BPIFB3	YES	4
761	meth_COQ3	meth	COQ3	YES	18
762	meth_HSD17B6	meth	HSD17B6	YES	18
763	mrna_CTC-203F4.2	mrna	CTC-203F4.2	NO	0
764	mrna_PTCH1	mrna	PTCH1	YES	85
766	stv_XKR4	stv	XKR4	YES	2
767	mrna_CDH19	mrna	CDH19	YES	7
767	stv_GHR	stv	GHR	YES	64
769	cnv_TTC39C	cnv	TTC39C	NO	0
770	cnv_KIAA1919	cnv	KIAA1919	YES	6
770	meth_SDS	meth	SDS	YES	14
772	cnv_CRLF2|ENSG00000205755.6	cnv	CRLF2|ENSG00000205755.6	NO	0
773	stv_MAP3K14-AS1	stv	MAP3K14-AS1	NO	0
774	stv_MYO1E	stv	MYO1E	YES	35
775	cnv_RN7SL658P	cnv	RN7SL658P	NO	0
776	mrna_CEP63	mrna	CEP63	YES	19
777	meth_SCML4	meth	SCML4	YES	5
777	mrna_CCL4L1	mrna	CCL4L1	YES	6
778	mirna_MIR378C	mirna	MIR378C	NO	0
779	meth_HELQ	meth	HELQ	YES	13
779	meth_NANP	meth	NANP	YES	9

781	mrna_RP11-16E12.2	mrna	RP11-16E12.2	NO	0
782	meth_DNASE1L3	meth	DNASE1L3	YES	17
782	meth_TNFAIP8	meth	TNFAIP8	YES	7
783	cnv_PGK2	cnv	PGK2	YES	13
783	meth_TDRD1	meth	TDRD1	YES	14
785	meth_P2RX7	meth	P2RX7	YES	113
786	cnv_RN7SL666P	cnv	RN7SL666P	NO	0
787	cnv_PKIG	cnv	PKIG	YES	13
788	mrna_SH3GLB1	mrna	SH3GLB1	YES	41
788	mrna_HOXA1	mrna	HOXA1	YES	37
789	cnv_VANGL2	cnv	VANGL2	YES	57
790	meth_FCRL2	meth	FCRL2	YES	7
791	cnv_GDPD2	cnv	GDPD2	YES	15
791	mrna_HSP90B1	mrna	HSP90B1	YES	44
792	meth_HRG	meth	HRG	YES	49
793	cnv_GRN	cnv	GRN	YES	13
793	cnv_RNA5SP492	cnv	RNA5SP492	NO	0
794	mrna_ZNF195	mrna	ZNF195	YES	8
794	mrna_RP11-121C2.2	mrna	RP11-121C2.2	NO	0
795	mrna_ZNF521	mrna	ZNF521	YES	10
795	mrna_RP11-295M3.4	mrna	RP11-295M3.4	NO	0
796	meth_SLC10A2	meth	SLC10A2	YES	14
796	mrna_KIAA0125	mrna	KIAA0125	NO	0
797	cnv_KIF4A	cnv	KIF4A	YES	29
797	cnv_MAGEB17	cnv	MAGEB17	NO	0
798	cnv_AWAT2	cnv	AWAT2	YES	17
799	meth_NUP54	meth	NUP54	YES	34
799	mrna_SFRP1	mrna	SFRP1	YES	115
801	stv_NCAM2	stv	NCAM2	YES	9
804	meth_PTGR1	meth	PTGR1	YES	15
804	stv_ACTR8	stv	ACTR8	YES	17
805	mrna_MTHFD1L	mrna	MTHFD1L	YES	22
805	mrna_ARL10	mrna	ARL10	YES	4
806	meth_HLA-DRA	meth	HLA-DRA	YES	38
806	meth_SLC25A12	meth	SLC25A12	YES	19
807	mrna_NFIL3	mrna	NFIL3	YES	17
808	mrna_C2orf88	mrna	C2orf88	YES	4
809	meth_AMY2A	meth	AMY2A	YES	15
810	cnv_MIR23C	cnv	MIR23C	NO	0
811	mrna_TMEM39A	mrna	TMEM39A	YES	2
812	cnv_C1QL1	cnv	C1QL1	YES	14
812	cnv_DEFB113	cnv	DEFB113	YES	4
813	cnv_RNA5SP452	cnv	RNA5SP452	NO	0
814	stv_NGFR	stv	NGFR	YES	52
815	meth_EML3	meth	EML3	YES	5
815	meth_PWP1	meth	PWP1	YES	8
816	meth_MARCO	meth	MARCO	YES	21
816	meth_RP11-399E6.1	meth	RP11-399E6.1	NO	0
817	meth_MAN2A2	meth	MAN2A2	YES	19
817	mrna_UCA1	mrna	UCA1	NO	0
818	meth_RGR	meth	RGR	YES	15
818	meth_SMURF2	meth	SMURF2	YES	31
819	cnv_ANHX	cnv	ANHX	YES	5
819	mrna_AC005682.6	mrna	AC005682.6	NO	0
820	meth_ADSSL1	meth	ADSSL1	YES	27
820	stv_ASNS	stv	ASNS	YES	28
821	meth_SEMG1	meth	SEMG1	YES	18
822	cnv_MIR4768	cnv	MIR4768	NO	0
822	meth_ENO3	meth	ENO3	YES	16
823	meth_MAFB	meth	MAFB	YES	26
824	meth_NAPB	meth	NAPB	YES	17
824	meth_ZNF347	meth	ZNF347	YES	7
825	mrna_RP11-58O9.2	mrna	RP11-58O9.2	NO	0
826	meth_HIST1H3H	meth	HIST1H3H	YES	32

826	mrna_IGHV3-49	mrna	IGHV3-49	YES	17
827	cnv_RNA5SP507	cnv	RNA5SP507	NO	0
827	mrna_TMUB2	mrna	TMUB2	YES	3
828	mrna_WDR82	mrna	WDR82	YES	13
829	mrna_RHOQ	mrna	RHOQ	YES	27
829	mrna_LINC01140	mrna	LINC01140	NO	0
830	meth_HEPACAM	meth	HEPACAM	YES	10
830	mrna_SHARPIN	mrna	SHARPIN	YES	26
831	meth_MGMT	meth	MGMT	YES	31
831	mrna_SLC36A1	mrna	SLC36A1	YES	26
832	meth_GLTSCR2	meth	GLTSCR2	YES	5
832	stv_CCDC80	stv	CCDC80	YES	12
833	meth_ESPN	meth	ESPN	YES	19
833	meth_SLC46A2	meth	SLC46A2	YES	12
834	cnv_MIR548AM	cnv	MIR548AM	NO	0
834	meth_FAU	meth	FAU	YES	24
835	meth_ABCC3	meth	ABCC3	YES	21
835	meth_MMP10	meth	MMP10	YES	15
836	mrna_KLRD1	mrna	KLRD1	YES	15
837	mrna_AGO4	mrna	AGO4	YES	36
837	mrna_PPP1R14C	mrna	PPP1R14C	YES	6
838	meth_RNF26	meth	RNF26	YES	15
838	mrna_CHST4	mrna	CHST4	YES	20
839	cnv_FAM171A2	cnv	FAM171A2	YES	2
839	stv_S100A10	stv	S100A10	YES	18
841	mrna_BVES	mrna	BVES	YES	25
842	cnv_GTSF1L	cnv	GTSF1L	YES	2
842	mrna_BOC	mrna	BOC	YES	14
843	meth_PPHLN1	meth	PPHLN1	YES	11
843	meth_USP29	meth	USP29	YES	8
844	stv_GFM2	stv	GFM2	YES	12
845	cnv_MIR3690|ENSG00000265658.1	cnv	MIR3690|ENSG00000265658.1	NO	0
846	meth_RAB34	meth	RAB34	YES	27
846	mrna_CERS1	mrna	CERS1	YES	19
847	stv_ZFC3H1	stv	ZFC3H1	YES	5
848	mrna_RPS7P11	mrna	RPS7P11	NO	0
848	mrna_AC144530.1	mrna	AC144530.1	NO	0
849	cnv_ACBD4	cnv	ACBD4	YES	4
849	meth_GPR22	meth	GPR22	YES	11
850	mrna_ADCY7	mrna	ADCY7	YES	29
851	meth_GCFC2	meth	GCFC2	YES	18
851	mrna_RNF24	mrna	RNF24	YES	11
852	mrna_MRAS	mrna	MRAS	YES	16
854	meth_UBXN8	meth	UBXN8	YES	12
854	mrna_APOL2	mrna	APOL2	YES	16
855	cnv_UBTF	cnv	UBTF	YES	18
856	meth_MARCH1	meth	MARCH1	YES	24
856	meth_SLC22A2	meth	SLC22A2	YES	32
857	meth_FMO1	meth	FMO1	YES	21
857	meth_SNORD107	meth	SNORD107	NO	0
858	meth_CCDC83	meth	CCDC83	NO	0
858	meth_RAD51C	meth	RAD51C	YES	40
860	meth_TEX264	meth	TEX264	YES	5
862	cnv_ATP1A2	cnv	ATP1A2	YES	72
863	mrna_RPS4XP22	mrna	RPS4XP22	NO	0
865	cnv_SLCO6A1	cnv	SLCO6A1	YES	9
866	meth_TACC3	meth	TACC3	YES	16
866	mrna_CLIC4	mrna	CLIC4	YES	46
867	meth_TMEM133	meth	TMEM133	YES	2
868	cnv_HRH4	cnv	HRH4	YES	13
870	mrna_GAL	mrna	GAL	YES	33
871	mrna_STOX2	mrna	STOX2	YES	4
872	meth_MCM3AP	meth	MCM3AP	YES	16
872	meth_PDE4D	meth	PDE4D	YES	51

873	mrna_RAB23	mrna	RAB23	YES	26
874	cnv_CLEC2D	cnv	CLEC2D	YES	10
874	cnv_RN7SL581P	cnv	RN7SL581P	NO	0
875	cnv_GDAP1L1	cnv	GDAP1L1	YES	5
875	mrna_PPP2R2B	mrna	PPP2R2B	YES	17
876	meth_TRPM8	meth	TRPM8	YES	27
877	mrna_TMEM43	mrna	TMEM43	YES	11
878	meth_SERPINB7	meth	SERPINB7	YES	10
879	cnv_NPEPPS	cnv	NPEPPS	YES	17
880	meth_POLD1	meth	POLD1	YES	47
880	mrna_CCL3	mrna	CCL3	YES	71
881	meth_POLR3K	meth	POLR3K	YES	18
882	meth_GIPR	meth	GIPR	YES	25
883	mrna_KIAA1024	mrna	KIAA1024	YES	2
884	stv_IPO8	stv	IPO8	YES	15
886	mrna_PKM	mrna	PKM	YES	50
887	meth_POP1	meth	POP1	YES	21
889	meth_C1orf158	meth	C1orf158	NO	0
889	meth_STAP1	meth	STAP1	YES	29
890	cnv_C20orf62	cnv	C20orf62	NO	0
891	mrna_DEPDC7	mrna	DEPDC7	YES	9
893	meth_RWDD2B	meth	RWDD2B	YES	4
894	cnv_ZBED1|ENSG00000214717.4	cnv	ZBED1|ENSG00000214717.4	NO	0
894	mrna_DAPP1	mrna	DAPP1	YES	11
896	meth_SAMHD1	meth	SAMHD1	YES	27
896	mrna_CAB39L	mrna	CAB39L	YES	4
897	meth_SSH1	meth	SSH1	YES	35
897	stv_ADGRF2	stv	ADGRF2	YES	8
898	mirna_MIR5696	mirna	MIR5696	NO	0
899	mrna_IGHV1-3	mrna	IGHV1-3	YES	17
900	meth_GABRB3	meth	GABRB3	YES	34
902	meth_MAPK8	meth	MAPK8	YES	61
902	mrna_RP13-582O9.5	mrna	RP13-582O9.5	NO	0
905	meth_RBM6	meth	RBM6	YES	6
905	mrna_IGHD	mrna	IGHD	YES	21
906	meth_WNT5A	meth	WNT5A	YES	192
908	meth_F5	meth	F5	YES	25
908	stv_ZNF528	stv	ZNF528	YES	8
909	cnv_CDKL5	cnv	CDKL5	YES	24
910	cnv_RBBP7	cnv	RBBP7	YES	24
910	mrna_UBXN2A	mrna	UBXN2A	YES	18
911	meth_ABCA9	meth	ABCA9	YES	12
912	meth_PROZ	meth	PROZ	YES	14
912	mrna_RP11-817J15.2	mrna	RP11-817J15.2	NO	0
913	cnv_SRSF6	cnv	SRSF6	YES	26
913	meth_GYS2	meth	GYS2	YES	16
915	cnv_NOC4L	cnv	NOC4L	YES	13
915	meth_OR5P3	meth	OR5P3	YES	12
916	meth_SERPINA1	meth	SERPINA1	YES	29
916	mrna_GNB4	mrna	GNB4	YES	10
917	meth_EXOC8	meth	EXOC8	YES	20
917	mrna_LIPM	mrna	LIPM	YES	7
918	mrna_PRICKLE1	mrna	PRICKLE1	YES	18
919	cnv_HDAC2	cnv	HDAC2	YES	84
920	mrna_PSTPIP2	mrna	PSTPIP2	YES	7
921	mrna_KLF11	mrna	KLF11	YES	22
923	mrna_NFIB	mrna	NFIB	YES	33
924	mrna_CTD-3184A7.4	mrna	CTD-3184A7.4	NO	0
925	meth_RP4-610C12.3	meth	RP4-610C12.3	NO	0
925	mrna_PQLC2L	mrna	PQLC2L	NO	0
926	meth_SNAPC4	meth	SNAPC4	YES	18
926	mrna_PDIA6	mrna	PDIA6	YES	23
927	meth_CYP4X1	meth	CYP4X1	YES	14
928	cnv_C17orf53	cnv	C17orf53	NO	0

929	mrna_PLEKHM1	mrna	PLEKHM1	YES	14
930	meth_TTC33	meth	TTC33	YES	1
930	mrna_EEF1DP1	mrna	EEF1DP1	NO	0
931	mrna_PLS3	mrna	PLS3	YES	13
932	mrna_PLEKHF2	mrna	PLEKHF2	YES	9
932	stv_SPRED3	stv	SPRED3	YES	5
933	meth_RGS13	meth	RGS13	YES	10
933	mrna_IGHV3-7	mrna	IGHV3-7	YES	19
934	cnv_RN7SKP62	cnv	RN7SKP62	NO	0
934	mrna_CD244	mrna	CD244	YES	21
935	cnv_CDC40	cnv	CDC40	YES	13
935	mrna_RP11-89H19.2	mrna	RP11-89H19.2	NO	0
936	mrna_KDM7A	mrna	KDM7A	YES	26
937	cnv_CXorf28	cnv	CXorf28	NO	0
937	cnv_KLRB1	cnv	KLRB1	YES	8
938	meth_NRXN3	meth	NRXN3	YES	27
939	meth_ZNF770	meth	ZNF770	YES	9
940	mrna_GZMA	mrna	GZMA	YES	18
940	mrna_SOSTDC1	mrna	SOSTDC1	YES	16
941	cnv_ARL17A	cnv	ARL17A	YES	8
942	meth_NPL	meth	NPL	YES	10
943	meth_RHAG	meth	RHAG	YES	19
944	meth_PIGH	meth	PIGH	YES	15
945	meth_RPRD1B	meth	RPRD1B	YES	14
947	mrna_FCRL5	mrna	FCRL5	YES	4
947	mrna_C15orf59	mrna	C15orf59	YES	2
948	meth_TRAPPC12	meth	TRAPPC12	YES	20
948	mrna_PCDH8	mrna	PCDH8	YES	18
949	mrna_MSN	mrna	MSN	YES	57
951	meth_ADRBK1	meth	ADRBK1	YES	35
954	meth_SYT12	meth	SYT12	YES	17
955	meth_C11orf54	meth	C11orf54	YES	9
955	mrna_GPR125	mrna	GPR125	YES	9
956	mrna_PAX1	mrna	PAX1	YES	20
958	mrna_SMPDL3A	mrna	SMPDL3A	YES	10
959	meth_SLC24A2	meth	SLC24A2	YES	32
960	mrna_ACTG2	mrna	ACTG2	YES	16
961	cnv_RN7SL656P	cnv	RN7SL656P	NO	0
962	meth_CCL20	meth	CCL20	YES	34
962	meth_TSLP	meth	TSLP	YES	3
964	mrna_PYCRL	mrna	PYCRL	YES	6
966	meth_C2orf48	meth	C2orf48	NO	0
967	cnv_P2RY4	cnv	P2RY4	YES	19
969	cnv_MIR4741	cnv	MIR4741	NO	0
969	mrna_GNRHR2	mrna	GNRHR2	NO	0
970	cnv_STK4	cnv	STK4	YES	52
971	cnv_FZD2	cnv	FZD2	YES	38
971	stv_PRKAR2A	stv	PRKAR2A	YES	31
972	meth_PYY2	meth	PYY2	NO	0
973	meth_COL14A1	meth	COL14A1	YES	20
973	mrna_PPP1R12B	mrna	PPP1R12B	YES	12
975	cnv_C5orf30	cnv	C5orf30	YES	11
975	meth_ZNF546	meth	ZNF546	YES	10
976	meth_NR5A2	meth	NR5A2	YES	41
977	meth_GPR1	meth	GPR1	YES	15
977	mrna_ASAP1	mrna	ASAP1	YES	19
978	cnv_ULK1	cnv	ULK1	YES	42
980	cnv_STH	cnv	STH	YES	5
981	meth_MAP3K14	meth	MAP3K14	YES	31
982	meth_EPM2AIP1	meth	EPM2AIP1	YES	12
982	meth_NUDC	meth	NUDC	YES	17
983	mrna_HCG11	mrna	HCG11	NO	0
985	cnv_CABYR	cnv	CABYR	YES	17
987	meth_RPL3L	meth	RPL3L	YES	19

989	cnv_KCNK15	cnv	KCNK15	YES	13
990	meth_PARP3	meth	PARP3	YES	22
992	meth_SLC16A11	meth	SLC16A11	YES	12
993	cnv_TUBE1	cnv	TUBE1	YES	11
993	meth_AATK-AS1	meth	AATK-AS1	YES	2
994	meth_CALHM1	meth	CALHM1	YES	23
996	cnv_TFF3	cnv	TFF3	YES	7
996	meth_HABP2	meth	HABP2	YES	10
997	cnv_RN7SL578P	cnv	RN7SL578P	NO	0
997	mrna_SYN2	mrna	SYN2	YES	10
998	mrna_RP11-329B9.4	mrna	RP11-329B9.4	NO	0
999	meth_GPR133	meth	GPR133	YES	8
999	mrna_KCNIP3	mrna	KCNIP3	YES	41
1000	mrna_SWAP70	mrna	SWAP70	YES	23
1000	mrna_CXCR2P1	mrna	CXCR2P1	NO	0
1001	meth_C14orf177	meth	C14orf177	NO	0
1002	cnv_SLC37A1	cnv	SLC37A1	YES	13
1003	meth_AKR1C4	meth	AKR1C4	YES	20
1005	meth_MSRA	meth	MSRA	YES	15
1005	mrna_JUP	mrna	JUP	YES	68
1006	mrna_SERPINE2	mrna	SERPINE2	YES	45
1007	cnv_MAPT	cnv	MAPT	YES	78
1008	meth_PATE1	meth	PATE1	YES	4
1009	cnv_PXMP2	cnv	PXMP2	YES	9
1009	mrna_CCDC93	mrna	CCDC93	YES	6
1010	meth_DPH3	meth	DPH3	YES	9
1011	mrna_CTC-351M12.1	mrna	CTC-351M12.1	NO	0
1012	mrna_AGTPBP1	mrna	AGTPBP1	YES	27
1013	meth_AIPL1	meth	AIPL1	YES	13
1013	mrna_SVILP1	mrna	SVILP1	NO	0
1014	meth_PROCR	meth	PROCR	YES	15
1015	mrna_RBFA	mrna	RBFA	YES	6
1016	cnv_FMNL1	cnv	FMNL1	YES	27
1017	mrna_JAKMIP1	mrna	JAKMIP1	YES	16
1018	cnv_TMEM101	cnv	TMEM101	YES	6
1018	mrna_PRDM15	mrna	PRDM15	YES	11
1019	meth_BTNL8	meth	BTNL8	YES	6
1020	meth_LDB2	meth	LDB2	YES	18
1022	meth_SCPEP1	meth	SCPEP1	YES	12
1023	meth_AC093724.2	meth	AC093724.2	NO	0
1024	cnv_ZNF26	cnv	ZNF26	YES	9
1024	meth_VTA1	meth	VTA1	YES	19
1025	meth_C1orf229	meth	C1orf229	NO	0
1026	meth_SNURF	meth	SNURF	YES	4
1026	mrna_KATNAL2	mrna	KATNAL2	YES	12
1027	cnv_RIOK3	cnv	RIOK3	YES	28
1028	cnv_RNY4P23	cnv	RNY4P23	NO	0
1029	cnv_ABCG1	cnv	ABCG1	YES	56
1030	meth_MAPK4	meth	MAPK4	YES	22
1031	meth_MYOZ1	meth	MYOZ1	YES	10
1032	meth_PDE6B	meth	PDE6B	YES	21
1032	mrna_TTC23	mrna	TTC23	YES	1
1036	meth_SERPINB5	meth	SERPINB5	YES	12
1037	meth_TUBA3C	meth	TUBA3C	YES	18
1037	mrna_RAD21-AS1	mrna	RAD21-AS1	NO	0
1038	cnv_ANKLE2	cnv	ANKLE2	YES	16
1038	mirna_MIR548AO	mirna	MIR548AO	NO	0
1039	mrna_CDKL1	mrna	CDKL1	YES	16
1041	meth_NUP214	meth	NUP214	YES	33
1041	mrna_SOCS5	mrna	SOCS5	YES	25
1042	cnv_PAM	cnv	PAM	YES	53
1043	mrna_TP53INP1	mrna	TP53INP1	YES	36
1044	cnv_HSF2BP	cnv	HSF2BP	YES	6
1044	mrna_ZNF689	mrna	ZNF689	YES	8

1045	meth_FEM1C	meth	FEM1C	YES	6
1047	cnv_CDK19	cnv	CDK19	YES	16
1047	meth_ERP29	meth	ERP29	YES	20
1048	mrna_IGKV1-9	mrna	IGKV1-9	YES	9
1050	cnv_RN7SL730P	cnv	RN7SL730P	NO	0
1050	mrna_MLF2	mrna	MLF2	YES	5
1051	meth_APBA2	meth	APBA2	YES	12
1051	stv_PCDHA6	stv	PCDHA6	YES	10
1052	meth_LINC00158	meth	LINC00158	NO	0
1053	meth_PREPL	meth	PREPL	YES	11
1053	mrna_GDF5	mrna	GDF5	YES	37
1054	mrna_TBC1D1	mrna	TBC1D1	YES	12
1054	mrna_XCL2	mrna	XCL2	YES	21
1055	cnv_snoU13|ENSG00000252088.1	cnv	snoU13|ENSG00000252088.1	NO	0
1056	meth_DPPA2	meth	DPPA2	YES	9
1057	meth_LACTB2	meth	LACTB2	YES	12
1057	mrna_KLF13	mrna	KLF13	YES	15
1058	mrna_ACTN1	mrna	ACTN1	YES	44
1060	meth_THNSL2	meth	THNSL2	YES	12
1060	mrna_RP11-661A12.8	mrna	RP11-661A12.8	NO	0
1061	cnv_SIK1	cnv	SIK1	YES	33
1062	meth_C5orf38	meth	C5orf38	YES	1
1062	mrna_ESYT2	mrna	ESYT2	YES	23
1063	cnv_LSM12	cnv	LSM12	NO	0
1063	meth_CCDC108	meth	CCDC108	YES	2
1065	mrna_H6PD	mrna	H6PD	YES	20
1066	cnv_HIGD1B	cnv	HIGD1B	YES	2
1066	mrna_CD79A	mrna	CD79A	YES	20
1067	mrna_OSBPL3	mrna	OSBPL3	YES	19
1068	meth_C11orf70	meth	C11orf70	NO	0
1068	mrna_RP11-16N11.2	mrna	RP11-16N11.2	NO	0
1069	meth_APLNR	meth	APLNR	YES	17
1070	cnv_ZNF84	cnv	ZNF84	YES	20
1071	cnv_MMP17	cnv	MMP17	YES	19
1071	meth_CLEC2A	meth	CLEC2A	YES	7
1072	cnv_NSF	cnv	NSF	YES	39
1072	meth_COLEC10	meth	COLEC10	YES	14
1073	meth_CTB-50L17.14	meth	CTB-50L17.14	NO	0
1073	meth_DNAJA4	meth	DNAJA4	YES	12
1074	meth_IFI44	meth	IFI44	YES	2
1075	cnv_FBRSL1	cnv	FBRSL1	YES	1
1076	cnv_ANKRD29	cnv	ANKRD29	YES	2
1077	cnv_HEXIM1	cnv	HEXIM1	YES	14
1078	cnv_PGAM5	cnv	PGAM5	YES	18
1079	cnv_U3|ENSG00000221496.1	cnv	U3|ENSG00000221496.1	NO	0
1080	meth_KLC1	meth	KLC1	YES	20
1081	meth_FOXI1	meth	FOXI1	YES	19
1082	mrna_ADCY2	mrna	ADCY2	YES	37
1083	meth_WFDC8	meth	WFDC8	YES	5
1084	meth_ZNF83	meth	ZNF83	YES	9
1084	mrna_IGKV1D-16	mrna	IGKV1D-16	YES	20
1085	mrna_SCHIP1	mrna	SCHIP1	YES	4
1086	cnv_CD99|ENSG00000002586.13	cnv	CD99|ENSG00000002586.13	NO	0
1087	meth_CTNNBL1	meth	CTNNBL1	YES	14
1087	meth_MTCL1	meth	MTCL1	YES	19
1088	meth_RSPH14	meth	RSPH14	YES	4
1089	meth_FBP2	meth	FBP2	YES	24
1090	meth_SLC16A5	meth	SLC16A5	YES	9
1090	mrna_RBFOX2	mrna	RBFOX2	YES	24
1091	meth_DNAH6	meth	DNAH6	YES	19
1091	mrna_RP5-884G6.2	mrna	RP5-884G6.2	NO	0
1092	cnv_COPA	cnv	COPA	YES	24
1092	meth_RTP1	meth	RTP1	YES	9
1093	cnv_DBF4B	cnv	DBF4B	YES	16

1093	cnv_GLYATL3	cnv	GLYATL3	YES	4
1095	mrna_VAT1	mrna	VAT1	YES	13
1096	mrna_ALPK1	mrna	ALPK1	YES	7
1097	cnv_REPS2	cnv	REPS2	YES	8
1098	meth_ATIC	meth	ATIC	YES	25
1099	mrna_ABCC1	mrna	ABCC1	YES	28
1101	cnv_RN7SL507P	cnv	RN7SL507P	NO	0
1102	meth_ANKRD18CP	meth	ANKRD18CP	NO	0
1103	meth_HAO2	meth	HAO2	YES	17
1104	stv_ADAD1	stv	ADAD1	YES	8
1105	mrna_PCSK7	mrna	PCSK7	YES	11
1106	meth_PRSS27	meth	PRSS27	YES	9
1107	cnv_RN7SL615P	cnv	RN7SL615P	NO	0
1108	cnv_RNA5SP188	cnv	RNA5SP188	NO	0
1108	mrna_STON1	mrna	STON1	YES	6
1109	cnv_KLRF1	cnv	KLRF1	YES	9
1109	meth_MYO10	meth	MYO10	YES	34
1110	meth_SLC39A12	meth	SLC39A12	YES	18
1111	meth_ACMSD	meth	ACMSD	YES	16
1111	stv_ZNF607	stv	ZNF607	YES	9
1112	cnv_RN7SL270P	cnv	RN7SL270P	NO	0
1113	cnv_SNORA49	cnv	SNORA49	NO	0
1113	mrna_RECQL4	mrna	RECQL4	YES	11
1114	meth_STKLD1	meth	STKLD1	YES	5
1114	mrna_ENPP6	mrna	ENPP6	YES	15
1117	meth_CRP	meth	CRP	YES	28
1117	mrna_SPTBN1	mrna	SPTBN1	YES	43
1118	cnv_RAN	cnv	RAN	YES	59
1120	stv_ZNF577	stv	ZNF577	YES	8
1121	stv_NSL1	stv	NSL1	YES	15
1122	cnv_MAP3K15	cnv	MAP3K15	YES	13
1122	meth_LRRC8D	meth	LRRC8D	YES	16
1124	meth_NUP133	meth	NUP133	YES	40
1126	stv_CTD-2303H24.2	stv	CTD-2303H24.2	NO	0
1127	meth_APBA3	meth	APBA3	YES	13
1127	mrna_GLS	mrna	GLS	YES	18
1128	meth_CNN3	meth	CNN3	YES	16
1129	mrna_SCNN1B	mrna	SCNN1B	YES	24
1129	mrna_TCP11L1	mrna	TCP11L1	YES	1
1131	cnv_TFF1	cnv	TFF1	YES	13
1132	cnv_RN7SL199P	cnv	RN7SL199P	NO	0
1132	cnv_SCARNA11|ENSG00000252727.1	cnv	SCARNA11|ENSG00000252727.1	NO	0
1135	stv_TRIM61	stv	TRIM61	YES	4
1139	cnv_LINC00685|ENSG00000226179.1	cnv	LINC00685|ENSG00000226179.1	NO	0
1139	cnv_U3|ENSG00000212434.1	cnv	U3|ENSG00000212434.1	NO	0
1140	meth_SRRM2	meth	SRRM2	YES	12
1141	mrna_CD97	mrna	CD97	YES	17
1142	meth_IQCG	meth	IQCG	YES	14
1144	mrna_CTD-2517O10.6	mrna	CTD-2517O10.6	NO	0
1145	meth_SH2D4B	meth	SH2D4B	YES	1
1148	meth_UPK2	meth	UPK2	YES	9
1149	cnv_C17orf104	cnv	C17orf104	NO	0
1150	meth_TTC38	meth	TTC38	YES	1
1153	mrna_LAG3	mrna	LAG3	YES	12
1154	meth_AASS	meth	AASS	YES	16
1154	mrna_HECA	mrna	HECA	YES	7
1157	mrna_EEF1A1P19	mrna	EEF1A1P19	NO	0
1159	cnv_TAGLN2	cnv	TAGLN2	YES	8
1159	mrna_HOXA3	mrna	HOXA3	YES	24
1160	mrna_TUBG1	mrna	TUBG1	YES	32
1162	mrna_STX12	mrna	STX12	YES	26
1163	meth_SLC24A1	meth	SLC24A1	YES	25
1164	meth_FCRL3	meth	FCRL3	YES	3
1164	stv_TCEANC	stv	TCEANC	YES	6

1165	cnv_RPF2	cnv	RPF2	YES	11
1165	mrna_ITGAE	mrna	ITGAE	YES	9
1166	cnv_HEXIM2	cnv	HEXIM2	YES	16
1168	meth_LTF	meth	LTF	YES	68
1169	meth_CHUK	meth	CHUK	YES	64
1169	mrna_CHST3	mrna	CHST3	YES	12
1170	meth_TFAP2C	meth	TFAP2C	YES	30
1171	cnv_SLAMF8	cnv	SLAMF8	YES	8
1171	mrna_SNTB1	mrna	SNTB1	YES	16
1172	mrna_TMEM237	mrna	TMEM237	YES	8
1177	meth_AZGP1	meth	AZGP1	YES	15
1178	cnv_ARL17B	cnv	ARL17B	YES	8
1178	meth_BET1L	meth	BET1L	YES	14
1181	mrna_CCDC43	mrna	CCDC43	YES	1
1184	meth_ITGBL1	meth	ITGBL1	YES	4
1184	meth_ZCCHC6	meth	ZCCHC6	YES	12
1186	cnv_SGK2	cnv	SGK2	YES	26
1189	mrna_SPTB	mrna	SPTB	YES	22
1190	cnv_IL3RA|ENSG00000185291.6	cnv	IL3RA|ENSG00000185291.6	NO	0
1190	mrna_FBXO32	mrna	FBXO32	YES	13
1191	cnv_RN7SL443P	cnv	RN7SL443P	NO	0
1192	cnv_SCML1	cnv	SCML1	YES	6
1193	cnv_UBASH3A	cnv	UBASH3A	YES	7
1193	meth_GPHA2	meth	GPHA2	YES	7
1194	meth_SMAD2	meth	SMAD2	YES	91
1195	cnv_CCDC103	cnv	CCDC103	YES	15
1195	mrna_C8orf82	mrna	C8orf82	YES	1
1196	mrna_SLC27A6	mrna	SLC27A6	YES	19
1198	meth_OTOA	meth	OTOA	YES	11
1199	mrna_CYP39A1	mrna	CYP39A1	YES	22
1199	mrna_CTSW	mrna	CTSW	YES	13
1200	cnv_PPIP5K2	cnv	PPIP5K2	YES	19
1201	cnv_ARSF	cnv	ARSF	YES	12
1201	mrna_AMPD1	mrna	AMPD1	YES	12
1203	meth_NLRP3	meth	NLRP3	YES	49
1203	meth_PYDC1	meth	PYDC1	YES	12
1204	cnv_PLEKHM1	cnv	PLEKHM1	YES	14
1204	mrna_CEP85L	mrna	CEP85L	YES	4
1207	mrna_WWP1	mrna	WWP1	YES	21
1209	meth_LRSAM1	meth	LRSAM1	YES	22
1210	meth_LDB3	meth	LDB3	YES	12
1211	mrna_ANGPT1	mrna	ANGPT1	YES	50
1212	mrna_MYO1E	mrna	MYO1E	YES	35
1214	meth_FCRL4	meth	FCRL4	YES	7
1215	cnv_SLC4A1	cnv	SLC4A1	YES	31
1216	meth_LINC00315	meth	LINC00315	NO	0
1216	stv_BRD1	stv	BRD1	YES	11
1218	cnv_SNORD64|ENSG00000212161.1	cnv	SNORD64|ENSG00000212161.1	NO	0
1219	meth_PARP6	meth	PARP6	YES	3
1222	meth_PIP5KL1	meth	PIP5KL1	YES	13
1223	meth_CRIPT	meth	CRIPT	YES	20
1225	mrna_PALM2	mrna	PALM2	YES	3
1227	meth_FOXS1	meth	FOXS1	YES	37
1227	mrna_PCOLCE2	mrna	PCOLCE2	YES	7
1228	cnv_GTF3C6	cnv	GTF3C6	YES	10
1229	meth_CTD-2544N14.3	meth	CTD-2544N14.3	NO	0
1230	mrna_BHLHE22	mrna	BHLHE22	YES	17
1231	stv_SCGB3A2	stv	SCGB3A2	YES	3
1232	meth_NTNG2	meth	NTNG2	YES	13
1232	mrna_GPT	mrna	GPT	YES	12
1234	meth_ASB4	meth	ASB4	YES	14
1237	cnv_PPEF1	cnv	PPEF1	YES	13
1237	mrna_VGLL4	mrna	VGLL4	YES	4
1238	cnv_MIR5089	cnv	MIR5089	NO	0

1242	meth_PROM2	meth	PROM2	YES	23
1242	meth_TAS2R9	meth	TAS2R9	YES	13
1244	cnv_snoU13|ENSG00000238537.1	cnv	snoU13|ENSG00000238537.1	NO	0
1244	meth_CCHCR1	meth	CCHCR1	YES	8
1245	meth_MS4A2	meth	MS4A2	YES	23
1245	meth_PLEKHS1	meth	PLEKHS1	YES	1
1246	cnv_KCNJ9	cnv	KCNJ9	YES	13
1246	mrna_RP11-254F7.2	mrna	RP11-254F7.2	NO	0
1247	cnv_CCDC19	cnv	CCDC19	YES	2
1248	meth_TMPRSS11F	meth	TMPRSS11F	YES	9
1249	mrna_IL18RAP	mrna	IL18RAP	YES	10
1249	mrna_RP11-449J21.5	mrna	RP11-449J21.5	NO	0
1250	meth_HSD17B13	meth	HSD17B13	YES	10
1251	meth_FLJ22763	meth	FLJ22763	NO	0
1251	meth_FTMT	meth	FTMT	YES	16
1252	cnv_SYAP1	cnv	SYAP1	YES	6
1252	mrna_STAU2	mrna	STAU2	YES	10
1253	mrna_ATP11B	mrna	ATP11B	YES	27
1254	stv_CSH2	stv	CSH2	YES	6
1255	cnv_PABPC1L	cnv	PABPC1L	YES	8
1256	mrna_RP11-1220K2.2	mrna	RP11-1220K2.2	NO	0
1257	meth_WFDC12	meth	WFDC12	YES	6
1259	cnv_IGSF9	cnv	IGSF9	YES	15
1259	mrna_C8orf37	mrna	C8orf37	YES	6
1262	cnv_KIF18B	cnv	KIF18B	YES	25
1262	meth_FBLN5	meth	FBLN5	YES	19
1263	meth_IMP4	meth	IMP4	YES	12
1264	meth_FBN3	meth	FBN3	YES	7
1265	mrna_NPM1	mrna	NPM1	YES	89
1266	meth_SNF8	meth	SNF8	YES	40
1268	meth_CHTF18	meth	CHTF18	YES	14
1269	meth_TBC1D1	meth	TBC1D1	YES	12
1270	mrna_GNAI1	mrna	GNAI1	YES	44
1271	stv_AMDHD2	stv	AMDHD2	YES	12
1272	meth_RP11-703H8.9	meth	RP11-703H8.9	NO	0
1272	mrna_CD44	mrna	CD44	YES	42
1273	mrna_WDR5B	mrna	WDR5B	YES	2
1275	cnv_GJC1	cnv	GJC1	YES	27
1277	cnv_MIR5692B	cnv	MIR5692B	NO	0
1277	meth_NKX2-8	meth	NKX2-8	YES	18
1278	mrna_IFNLR1	mrna	IFNLR1	YES	12
1280	stv_BCAS2	stv	BCAS2	YES	15
1281	cnv_RN7SKP100	cnv	RN7SKP100	NO	0
1283	stv_IGHV3-16	stv	IGHV3-16	YES	12
1284	cnv_TOX2	cnv	TOX2	YES	9
1284	mrna_HOXA4	mrna	HOXA4	YES	10
1285	cnv_CDC27	cnv	CDC27	YES	23
1285	mrna_SLAMF7	mrna	SLAMF7	YES	11
1286	cnv_GIN1	cnv	GIN1	YES	2
1286	mrna_PSMG2	mrna	PSMG2	YES	8
1287	meth_PSORS1C2	meth	PSORS1C2	YES	4
1288	cnv_EFTUD2	cnv	EFTUD2	YES	20
1288	meth_C2orf47	meth	C2orf47	YES	1
1289	meth_MNDA	meth	MNDA	YES	18
1293	mrna_HS3ST1	mrna	HS3ST1	YES	9
1293	mrna_GZMH	mrna	GZMH	YES	9
1294	cnv_ZNF891	cnv	ZNF891	YES	7
1294	mrna_APOL1	mrna	APOL1	YES	23
1295	cnv_LRRC37A4P	cnv	LRRC37A4P	NO	0
1296	mirna_MIR5571	mirna	MIR5571	NO	0
1297	meth_TMEM98	meth	TMEM98	YES	3
1298	stv_GLIS3	stv	GLIS3	YES	10
1302	mrna_ADAT2	mrna	ADAT2	YES	12
1303	cnv_ASMT|ENSG00000196433.6	cnv	ASMT|ENSG00000196433.6	NO	0

1303	meth_GFI1B	meth	GFI1B	YES	17
1305	cnv_EFCAB13	cnv	EFCAB13	YES	3
1306	meth_ESPL1	meth	ESPL1	YES	24
1307	meth_LPAR5	meth	LPAR5	YES	10
1309	cnv_SNORD66|ENSG00000212532.1	cnv	SNORD66|ENSG00000212532.1	NO	0
1310	cnv_GOSR2	cnv	GOSR2	YES	25
1313	meth_NLRP2	meth	NLRP2	YES	15
1313	mrna_SEC14L1	mrna	SEC14L1	YES	13
1314	cnv_MYBL2	cnv	MYBL2	YES	19
1315	meth_APOA1BP	meth	APOA1BP	YES	12
1316	meth_C10orf107	meth	C10orf107	NO	0
1316	mrna_LINC01354	mrna	LINC01354	NO	0
1321	meth_ALDH3B1	meth	ALDH3B1	YES	23
1321	stv_SNTB1	stv	SNTB1	YES	16
1323	mrna_IFNAR2	mrna	IFNAR2	YES	20
1324	meth_SPTA1	meth	SPTA1	YES	35
1325	meth_C9orf78	meth	C9orf78	YES	3
1326	mrna_CAD	mrna	CAD	YES	49
1329	cnv_LRRC37A17P	cnv	LRRC37A17P	NO	0
1329	mrna_ADCK5	mrna	ADCK5	YES	8
1330	stv_CRNKL1	stv	CRNKL1	YES	18
1331	meth_BCO1	meth	BCO1	YES	12
1331	mrna_SYNM	mrna	SYNM	YES	18
1332	meth_ETV7	meth	ETV7	YES	14
1335	cnv_OSER1	cnv	OSER1	YES	1
1336	cnv_RNA5SP443	cnv	RNA5SP443	NO	0
1337	meth_DCN	meth	DCN	YES	42
1338	mrna_AC093818.1	mrna	AC093818.1	NO	0
1340	stv_WDR87	stv	WDR87	YES	4
1341	meth_GALT	meth	GALT	YES	15
1342	meth_ODF2	meth	ODF2	YES	22
1342	meth_OR12D3	meth	OR12D3	YES	13
1343	mrna_CDC14B	mrna	CDC14B	YES	27
1344	mrna_LGALSL	mrna	LGALSL	YES	3
1345	cnv_SCML2	cnv	SCML2	YES	8
1345	meth_IL18RAP	meth	IL18RAP	YES	10
1347	cnv_NDUFV3	cnv	NDUFV3	YES	12
1347	meth_MS4A3	meth	MS4A3	YES	10
1353	meth_GNPTG	meth	GNPTG	YES	10
1354	meth_RP11-407N17.3	meth	RP11-407N17.3	NO	0
1354	mrna_CTA-29F11.1	mrna	CTA-29F11.1	NO	0
1356	mrna_INPP4A	mrna	INPP4A	YES	13
1359	meth_PTGES2	meth	PTGES2	YES	31
1360	cnv_RN7SL580P	cnv	RN7SL580P	NO	0
1360	mrna_IGFL1	mrna	IGFL1	YES	3
1361	cnv_MIR133B	cnv	MIR133B	YES	7
1361	mrna_THBS3	mrna	THBS3	YES	10
1363	meth_IFI44L	meth	IFI44L	YES	5
1364	meth_SAMD4A	meth	SAMD4A	YES	19
1365	meth_AP003419.11	meth	AP003419.11	NO	0
1369	cnv_RN7SL355P|ENSG00000265350.1	cnv	RN7SL355P|ENSG00000265350.1	NO	0
1370	meth_SCGB1D1	meth	SCGB1D1	YES	3
1371	meth_PRODH	meth	PRODH	YES	15
1372	meth_CDK15	meth	CDK15	YES	15
1372	meth_SERPINB12	meth	SERPINB12	YES	13
1374	meth_ATP5A1P3	meth	ATP5A1P3	NO	0
1375	meth_VCAM1	meth	VCAM1	YES	49
1375	mrna_KIT	mrna	KIT	YES	114
1376	cnv_RNA5SP376	cnv	RNA5SP376	NO	0
1377	meth_BX571818.1	meth	BX571818.1	NO	0
1378	meth_CENPQ	meth	CENPQ	YES	10
1378	meth_RPP25L	meth	RPP25L	YES	4
1380	cnv_FAM215B	cnv	FAM215B	NO	0
1382	cnv_PLCD3	cnv	PLCD3	YES	19

1384	meth_AC008063.2	meth	AC008063.2	NO	0
1387	mrna_RASGEF1B	mrna	RASGEF1B	YES	9
1388	meth_SECTM1	meth	SECTM1	YES	13
1388	mrna_ZDHHC8P1	mrna	ZDHHC8P1	NO	0
1389	mrna_DCDC2	mrna	DCDC2	YES	20
1389	mrna_EXOSC4	mrna	EXOSC4	YES	30
1390	meth_LCP2	meth	LCP2	YES	15
1391	mrna_GDAP1	mrna	GDAP1	YES	15
1394	mrna_OSMR	mrna	OSMR	YES	12
1395	mrna_TBX21	mrna	TBX21	YES	18
1395	mrna_EFTUD2	mrna	EFTUD2	YES	20
1396	stv_PPP1R13B	stv	PPP1R13B	YES	16
1397	stv_TIPIN	stv	TIPIN	YES	21
1399	cnv_MIR3646	cnv	MIR3646	NO	0
1399	mrna_DGAT1	mrna	DGAT1	YES	25
1400	cnv_ITGA2B	cnv	ITGA2B	YES	24
1402	mrna_CCL5	mrna	CCL5	YES	88
1403	cnv_C6orf3	cnv	C6orf3	NO	0
1404	cnv_LAMA4	cnv	LAMA4	YES	20
1404	meth_DNAJB1	meth	DNAJB1	YES	22
1405	mrna_ZNF501	mrna	ZNF501	YES	8
1405	mrna_IGHV3-30	mrna	IGHV3-30	YES	18
1406	cnv_snoU13|ENSG00000239095.1	cnv	snoU13|ENSG00000239095.1	NO	0
1408	meth_FAM134B	meth	FAM134B	YES	4
1409	mrna_LRRN1	mrna	LRRN1	YES	5
1411	meth_MINOS1-NBL1	meth	MINOS1-NBL1	YES	10
1414	mrna_GPI	mrna	GPI	YES	46
1415	stv_GINM1	stv	GINM1	YES	3
1416	meth_SLCO2A1	meth	SLCO2A1	YES	13
1417	meth_CTB-147C22.8	meth	CTB-147C22.8	NO	0
1419	meth_PRKG2	meth	PRKG2	YES	21
1420	meth_RPP21	meth	RPP21	YES	17
1424	mrna_IGHA1	mrna	IGHA1	YES	28
1425	cnv_RN7SL745P	cnv	RN7SL745P	NO	0
1426	mrna_LRRK1	mrna	LRRK1	YES	24
1427	meth_SSC4D	meth	SSC4D	YES	5
1432	cnv_SNORA40|ENSG00000212587.1	cnv	SNORA40|ENSG00000212587.1	NO	0
1433	cnv_NUDT12	cnv	NUDT12	YES	12
1433	meth_C2	meth	C2	YES	17
1435	meth_TLR3	meth	TLR3	YES	77
1435	mrna_PHACTR2	mrna	PHACTR2	YES	8
1437	meth_TMEM100	meth	TMEM100	YES	25
1438	meth_ALG12	meth	ALG12	YES	14
1438	meth_PEG3	meth	PEG3	YES	15
1442	cnv_YWHAB	cnv	YWHAB	YES	42
1444	mrna_RP11-615I2.2	mrna	RP11-615I2.2	NO	0
1445	cnv_JPH2	cnv	JPH2	YES	27
1446	mrna_PIGCP1	mrna	PIGCP1	NO	0
1449	cnv_SERINC3	cnv	SERINC3	YES	19
1454	meth_SULT1A1	meth	SULT1A1	YES	19
1455	meth_NLRP10	meth	NLRP10	YES	17
1455	meth_RP11-60L3.1	meth	RP11-60L3.1	NO	0
1456	meth_STATH	meth	STATH	YES	11
1457	meth_SLC15A2	meth	SLC15A2	YES	19
1460	cnv_GPR64	cnv	GPR64	YES	12
1460	meth_LIPC	meth	LIPC	YES	28
1463	mrna_SPAG1	mrna	SPAG1	YES	7
1464	mrna_ODC1	mrna	ODC1	YES	19
1465	mrna_CTD-2026D20.3	mrna	CTD-2026D20.3	NO	0
1466	meth_LILRB1	meth	LILRB1	YES	55
1467	cnv_PEA15	cnv	PEA15	YES	16
1468	meth_IMPACT	meth	IMPACT	YES	28
1468	meth_LRRN4	meth	LRRN4	YES	6
1470	meth_SPATA8	meth	SPATA8	YES	1

1472	mrna_MBNL1	mrna	MBNL1	YES	18
1474	mrna_NOMO1	mrna	NOMO1	YES	5
1477	mrna_EHBP1	mrna	EHBP1	YES	8
1479	mrna_KCNMB1	mrna	KCNMB1	YES	20
1480	mrna_GOLGA2P7	mrna	GOLGA2P7	NO	0
1482	meth_AHSG	meth	AHSG	YES	28
1483	mrna_FRMD3	mrna	FRMD3	YES	6
1485	cnv_RN7SL31P	cnv	RN7SL31P	NO	0
1487	meth_BBS4	meth	BBS4	YES	83
1487	mrna_CTTNBP2NL	mrna	CTTNBP2NL	YES	8
1490	mrna_RP11-412D9.4	mrna	RP11-412D9.4	NO	0
1493	mrna_SATB1	mrna	SATB1	YES	29
1493	stv_HNRNPD	stv	HNRNPD	YES	51
1494	mrna_ARHGAP31	mrna	ARHGAP31	YES	11
1495	meth_TNFSF4	meth	TNFSF4	YES	62
1496	cnv_MUC8	cnv	MUC8	NO	0
1499	mrna_HIVEP1	mrna	HIVEP1	YES	19
1500	meth_LYL1	meth	LYL1	YES	13
1501	meth_MASP1	meth	MASP1	YES	19
1502	mrna_ZNF462	mrna	ZNF462	YES	10
1507	meth_RBM46	meth	RBM46	YES	5
1508	meth_ANGPTL5	meth	ANGPTL5	YES	1
1508	stv_XPNPEP1	stv	XPNPEP1	YES	13
1511	mrna_RRAGD	mrna	RRAGD	YES	24
1512	meth_PTRF	meth	PTRF	YES	14
1515	meth_LUC7L	meth	LUC7L	YES	9
1517	mrna_SIRPA	mrna	SIRPA	YES	10
1521	cnv_PTPRT	cnv	PTPRT	YES	23
1522	cnv_ITGB3	cnv	ITGB3	YES	77
1523	stv_CIAPIN1	stv	CIAPIN1	YES	17
1524	meth_C1QTNF2	meth	C1QTNF2	YES	13
1524	meth_CPN1	meth	CPN1	YES	19
1525	cnv_LRCOL1	cnv	LRCOL1	YES	6
1531	mirna_MIR4772	mirna	MIR4772	NO	0
1532	meth_ME1	meth	ME1	YES	24
1534	cnv_G6PC3	cnv	G6PC3	YES	15
1536	mrna_PCMTD1	mrna	PCMTD1	YES	6
1539	meth_DBH	meth	DBH	YES	44
1540	cnv_RNA5SP379	cnv	RNA5SP379	NO	0
1540	mrna_MFSD3	mrna	MFSD3	YES	7
1541	mrna_USP5	mrna	USP5	YES	18
1542	mrna_IGHG4	mrna	IGHG4	YES	24
1543	mrna_PTPN14	mrna	PTPN14	YES	19
1546	meth_F2	meth	F2	YES	58
1547	mrna_RP11-291B21.2	mrna	RP11-291B21.2	NO	0
1548	mrna_SDCBP	mrna	SDCBP	YES	63
1549	mrna_CTD-2410N18.3	mrna	CTD-2410N18.3	NO	0
1553	mrna_SGCE	mrna	SGCE	YES	17
1554	cnv_ARR3	cnv	ARR3	YES	12
1556	meth_LRRC40	meth	LRRC40	YES	3
1557	mrna_AC005682.5	mrna	AC005682.5	NO	0
1558	meth_LRFN4	meth	LRFN4	YES	8
1560	meth_CCDC107	meth	CCDC107	YES	2
1562	mrna_EFEMP1	mrna	EFEMP1	YES	18
1564	meth_CHPT1	meth	CHPT1	YES	18
1566	stv_ATG2B	stv	ATG2B	YES	9
1567	meth_COA4	meth	COA4	YES	3
1569	mrna_ANXA1	mrna	ANXA1	YES	114
1570	cnv_ADAM11	cnv	ADAM11	YES	11
1572	meth_MCM4	meth	MCM4	YES	19
1575	cnv_IMPACT	cnv	IMPACT	YES	28
1575	mrna_EPS15	mrna	EPS15	YES	39
1579	stv_FAM134B	stv	FAM134B	YES	4
1581	meth_OR5I1	meth	OR5I1	YES	12

1587	cnv_CCDC43	cnv	CCDC43	YES	1
1593	mrna_GABBR2	mrna	GABBR2	YES	21
1594	cnv_C6orf141	cnv	C6orf141	NO	0
1603	meth_TECTA	meth	TECTA	YES	10
1604	mrna_APBA1	mrna	APBA1	YES	25
1607	mrna_CRB2	mrna	CRB2	YES	23
1613	cnv_LINC00492	cnv	LINC00492	NO	0
1618	meth_DMRTC2	meth	DMRTC2	YES	14
1619	meth_PTPN14	meth	PTPN14	YES	19
1620	mrna_RP11-51J9.5	mrna	RP11-51J9.5	NO	0
1621	mrna_GTDC1	mrna	GTDC1	YES	3
1625	meth_PTGFRN	meth	PTGFRN	YES	9
1626	mrna_ATL1	mrna	ATL1	YES	20
1627	mrna_SUSD1	mrna	SUSD1	YES	3
1629	cnv_RNU6ATAC3P	cnv	RNU6ATAC3P	NO	0
1631	cnv_WDR4	cnv	WDR4	YES	10
1634	cnv_TMUB2	cnv	TMUB2	YES	3
1636	meth_OR12D2	meth	OR12D2	YES	13
1637	meth_RP11-314N13.10	meth	RP11-314N13.10	NO	0
1638	cnv_RN7SL255P	cnv	RN7SL255P	NO	0
1638	mrna_GSDMD	mrna	GSDMD	YES	32
1639	meth_AC025171.1	meth	AC025171.1	NO	0
1641	mrna_PHC1	mrna	PHC1	YES	11
1650	cnv_CSF2RA|ENSG00000198223.9	cnv	CSF2RA|ENSG00000198223.9	NO	0
1653	cnv_DUSP23	cnv	DUSP23	YES	15
1653	meth_RBM38	meth	RBM38	YES	17
1654	stv_RNF146	stv	RNF146	YES	19
1660	cnv_CRYAA	cnv	CRYAA	YES	33
1661	meth_RASSF7	meth	RASSF7	YES	7
1662	meth_LRRC39	meth	LRRC39	YES	1
1664	stv_DCAF11	stv	DCAF11	YES	5
1665	mrna_KANK1	mrna	KANK1	YES	22
1666	mrna_NPC1	mrna	NPC1	YES	49
1669	cnv_ARSE	cnv	ARSE	YES	15
1672	meth_SIRPG	meth	SIRPG	YES	13
1674	cnv_KCNJ10	cnv	KCNJ10	YES	36
1675	cnv_LINC00612	cnv	LINC00612	NO	0
1678	cnv_RN7SL405P	cnv	RN7SL405P	NO	0
1681	meth_DAK	meth	DAK	YES	8
1681	meth_GPX5	meth	GPX5	YES	11
1688	mrna_STK38L	mrna	STK38L	YES	20
1689	meth_CELF2	meth	CELF2	YES	9
1690	meth_DGCR6	meth	DGCR6	YES	5
1691	meth_RPE65	meth	RPE65	YES	35
1692	meth_NIPAL1	meth	NIPAL1	YES	7
1695	meth_ZNF512B	meth	ZNF512B	YES	7
1697	cnv_DDO	cnv	DDO	YES	17
1700	meth_CPOX	meth	CPOX	YES	21
1703	cnv_RFPL4B	cnv	RFPL4B	YES	2
1703	meth_TAS2R8	meth	TAS2R8	YES	12
1704	meth_NR1H4	meth	NR1H4	YES	82
1711	mrna_ZNF502	mrna	ZNF502	YES	9
1715	mrna_SIK2	mrna	SIK2	YES	18
1716	meth_SURF6	meth	SURF6	YES	11
1717	meth_UGT1A6	meth	UGT1A6	YES	17
1717	mrna_RP4-568C11.4	mrna	RP4-568C11.4	NO	0
1720	cnv_WISP3	cnv	WISP3	YES	12
1721	meth_ATP5F1	meth	ATP5F1	YES	26
1721	meth_SREBF1	meth	SREBF1	YES	72
1724	cnv_FBXL17	cnv	FBXL17	YES	1
1726	meth_ARIH2	meth	ARIH2	YES	22
1728	mrna_PPP2R3A	mrna	PPP2R3A	YES	13
1731	cnv_RPS6KA3	cnv	RPS6KA3	YES	45
1732	cnv_LINC00313	cnv	LINC00313	NO	0

1735	mrna_DGAT2	mrna	DGAT2	YES	36
1736	cnv_ZNF10	cnv	ZNF10	YES	8
1737	meth_TEX29	meth	TEX29	YES	2
1741	cnv_RN7SL782P	cnv	RN7SL782P	NO	0
1742	mrna_TMEM105	mrna	TMEM105	YES	2
1743	mrna_KIAA1045	mrna	KIAA1045	YES	1
1744	mrna_IFNG	mrna	IFNG	YES	99
1749	meth_UNKL	meth	UNKL	YES	9
1750	cnv_TRAF3IP2	cnv	TRAF3IP2	YES	11
1755	cnv_ST8SIA4	cnv	ST8SIA4	YES	16
1756	mrna_RP11-44F21.5	mrna	RP11-44F21.5	NO	0
1758	mrna_RNF217	mrna	RNF217	YES	14
1759	cnv_ASMTL|ENSG00000169093.10	cnv	ASMTL|ENSG00000169093.10	NO	0
1759	meth_TMEM230	meth	TMEM230	YES	15
1763	meth_GNA14	meth	GNA14	YES	17
1766	cnv_L3MBTL1	cnv	L3MBTL1	YES	26
1774	cnv_SCARNA15|ENSG00000252193.1	cnv	SCARNA15|ENSG00000252193.1	NO	0
1774	stv_FAAH	stv	FAAH	YES	16
1776	cnv_RUNDC3A	cnv	RUNDC3A	YES	10
1777	cnv_FAM215A	cnv	FAM215A	YES	4
1790	cnv_EP400	cnv	EP400	YES	16
1791	cnv_OSBPL1A	cnv	OSBPL1A	YES	16
1795	cnv_CLEC2B	cnv	CLEC2B	YES	6
1795	meth_MRPL43	meth	MRPL43	YES	12
1799	meth_CWH43	meth	CWH43	YES	3
1802	cnv_VSIG8	cnv	VSIG8	YES	4
1804	cnv_RN7SKP122	cnv	RN7SKP122	NO	0
1804	meth_AMH	meth	AMH	YES	23
1808	cnv_GYG2	cnv	GYG2	YES	8
1816	cnv_IGSF8	cnv	IGSF8	YES	10
1823	mrna_ZNF618	mrna	ZNF618	YES	6
1823	mrna_CXCL16	mrna	CXCL16	YES	20
1824	cnv_HNF4A	cnv	HNF4A	YES	47
1825	mrna_ANKS1A	mrna	ANKS1A	YES	11
1826	mrna_ATP2B4	mrna	ATP2B4	YES	61
1831	meth_HMG20B	meth	HMG20B	YES	17
1834	meth_SFTPC	meth	SFTPC	YES	23
1844	cnv_snoU13|ENSG00000238775.1	cnv	snoU13|ENSG00000238775.1	NO	0
1847	cnv_SLC16A10	cnv	SLC16A10	YES	16
1848	meth_PHYKPL	meth	PHYKPL	YES	12
1853	cnv_ATXN7L3	cnv	ATXN7L3	YES	11
1854	meth_C17orf82	meth	C17orf82	NO	0
1859	meth_ALDH3A1	meth	ALDH3A1	YES	26
1863	meth_PLEK2	meth	PLEK2	YES	12
1864	mrna_CDC42EP3	mrna	CDC42EP3	YES	16
1872	meth_FAM173A	meth	FAM173A	YES	2
1872	stv_BMP2	stv	BMP2	YES	109
1875	mrna_PARP4	mrna	PARP4	YES	24
1879	cnv_PYY	cnv	PYY	YES	15
1881	cnv_ARHGAP27	cnv	ARHGAP27	YES	12
1886	meth_MED22	meth	MED22	YES	8
1886	mrna_DIAPH2	mrna	DIAPH2	YES	19
1887	mrna_EPHB1	mrna	EPHB1	YES	58
1891	mrna_WASF2	mrna	WASF2	YES	32
1894	cnv_PDHA1	cnv	PDHA1	YES	22
1899	meth_CCT6A	meth	CCT6A	YES	21
1902	meth_OR7C1	meth	OR7C1	YES	12
1909	mrna_ZMYND15	mrna	ZMYND15	YES	10
1913	meth_G0S2	meth	G0S2	YES	8
1913	mrna_CYHR1	mrna	CYHR1	YES	8
1916	cnv_ARSD	cnv	ARSD	YES	13
1939	meth_C8G	meth	C8G	YES	15
1939	mrna_CPNE5	mrna	CPNE5	YES	8
1940	mrna_KLF7	mrna	KLF7	YES	18

1942	mrna_CEP170	mrna	CEP170	YES	11
1943	cnv_DEFB133	cnv	DEFB133	YES	5
1943	cnv_SLCO4C1	cnv	SLCO4C1	YES	17
1945	cnv_CD99P1|ENSG00000223773.2	cnv	CD99P1|ENSG00000223773.2	NO	0
1945	mrna_RPS15AP12	mrna	RPS15AP12	NO	0
1957	cnv_KANSL1	cnv	KANSL1	YES	16
1958	mrna_CFL2	mrna	CFL2	YES	20
1962	meth_LGALS12	meth	LGALS12	YES	8
1966	cnv_GALNT9	cnv	GALNT9	YES	12
1977	meth_PRKD3	meth	PRKD3	YES	20
1980	mrna_IL18BP	mrna	IL18BP	YES	10
1983	meth_SEMA5B	meth	SEMA5B	YES	12
1991	stv_SETD7	stv	SETD7	YES	25
1994	meth_EIF3I	meth	EIF3I	YES	13
2001	cnv_SPATA32	cnv	SPATA32	YES	3
2006	meth_PPP1R17	meth	PPP1R17	YES	9
2013	cnv_HDAC5	cnv	HDAC5	YES	49
2016	cnv_DCAKD	cnv	DCAKD	YES	7
2018	cnv_NPC1	cnv	NPC1	YES	49
2029	meth_NTS	meth	NTS	YES	7
2031	mrna_CMTM1	mrna	CMTM1	YES	5
2036	mrna_NES	mrna	NES	YES	20
2037	cnv_RN7SL97P	cnv	RN7SL97P	NO	0
2083	cnv_WASF1	cnv	WASF1	YES	26
2086	meth_APEX1	meth	APEX1	YES	67

APPENDIX D

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	meth_MYO1A	meth	MYO1A	YES	21
1	meth_PCSK4	meth	PCSK4	YES	17
2	mrna_MMP9	mrna	MMP9	YES	45
2	mrna_LIMK1	mrna	LIMK1	YES	30
3	mrna_DNAJC2	mrna	DNAJC2	YES	21
3	mrna_GCNT2	mrna	GCNT2	YES	22
4	meth_ADIPOQ	meth	ADIPOQ	YES	92
4	stv_ACVR2A	stv	ACVR2A	YES	53
5	mrna_TFDP1	mrna	TFDP1	YES	31
5	stv_RNF207	stv	RNF207	YES	16
6	mrna_GARS	mrna	GARS	YES	22
6	mrna_MAL	mrna	MAL	YES	19
7	cnv_DEPDC1B	cnv	DEPDC1B	YES	8
7	mrna_ENPP3	mrna	ENPP3	YES	22
8	mrna_NMU	mrna	NMU	YES	20
8	stv_TRERF1	stv	TRERF1	YES	24
9	meth_COL11A1	meth	COL11A1	YES	29
9	meth_DCDC2	meth	DCDC2	YES	20
10	meth_IL1RN	meth	IL1RN	YES	37
10	mrna_DACH1	mrna	DACH1	YES	26
11	stv_GRK7	stv	GRK7	YES	17
11	stv_PREX1	stv	PREX1	YES	33
12	mrna_MYO10	mrna	MYO10	YES	34
12	mrna_SHC4	mrna	SHC4	YES	15
13	meth_ALDH1A3	meth	ALDH1A3	YES	32
13	stv_PLCG2	stv	PLCG2	YES	36
14	stv_ANO6	stv	ANO6	YES	52
14	stv_CRY1	stv	CRY1	YES	43
15	mrna_FTCD	mrna	FTCD	YES	28
15	mrna_SOX11	mrna	SOX11	YES	66
16	mrna_DNMT3A	mrna	DNMT3A	YES	48
16	stv_PTPRJ	stv	PTPRJ	YES	44
17	mirna_MIR182	mirna	MIR182	YES	1
17	mrna_MSL3	mrna	MSL3	YES	15
18	meth_CDX2	meth	CDX2	YES	36
18	mrna_RHCG	mrna	RHCG	YES	20
19	mrna_AKR1E2	mrna	AKR1E2	YES	8
19	stv_PTTG2	stv	PTTG2	YES	10
20	meth_SOSTDC1	meth	SOSTDC1	YES	16
20	meth_STOM	meth	STOM	YES	31
21	meth_DDAH2	meth	DDAH2	YES	18
21	stv_FRAS1	stv	FRAS1	YES	14
22	meth_SEPP1	meth	SEPP1	YES	10
22	mrna_VAV3	mrna	VAV3	YES	40
23	meth_KAT6B	meth	KAT6B	YES	24
23	mrna_ETV6	mrna	ETV6	YES	25
24	cnv_PLB1	cnv	PLB1	YES	16
24	stv_MAPK14	stv	MAPK14	YES	92
25	meth_PRTN3	meth	PRTN3	YES	20
25	stv_NR1H3	stv	NR1H3	YES	58
26	meth_ALK	meth	ALK	YES	37
26	mrna_PLOD1	mrna	PLOD1	YES	19
27	cnv_RGMB	cnv	RGMB	YES	12
27	mirna_MIR29C	mirna	MIR29C	YES	17
28	meth_KLHL10	meth	KLHL10	YES	12
28	mrna_NFE2L3	mrna	NFE2L3	YES	15
29	stv_TIMM8A	stv	TIMM8A	YES	10

30	mrna_UGT8	mrna	UGT8	YES	21
30	mrna_ABAT	mrna	ABAT	YES	42
31	mrna_BCL11A	mrna	BCL11A	YES	23
31	stv_JAK2	stv	JAK2	YES	123
32	cnv_CDK7	cnv	CDK7	YES	47
32	meth_MEST	meth	MEST	YES	8
33	mrna_RSU1	mrna	RSU1	YES	7
33	stv_LSR	stv	LSR	YES	13
34	cnv_PDGFRB	cnv	PDGFRB	YES	108
34	stv_PLAU	stv	PLAU	YES	30
35	meth_NCKAP1L	meth	NCKAP1L	YES	49
35	mrna_MRPS5	mrna	MRPS5	YES	10
36	meth_RNF103	meth	RNF103	YES	14
36	mrna_UNC13D	mrna	UNC13D	YES	25
37	meth_LUC7L	meth	LUC7L	YES	9
37	mrna_DKC1	mrna	DKC1	YES	38
38	mrna_TMEM25	mrna	TMEM25	YES	5
38	stv_RIMS1	stv	RIMS1	YES	37
39	meth_CAV1	meth	CAV1	YES	141
39	stv_MMP15	stv	MMP15	YES	21
40	meth_RNH1	meth	RNH1	YES	10
41	mirna_LET7B	mirna	LET7B	NO	0
41	stv_PGF	stv	PGF	YES	29
42	cnv_RAB3C	cnv	RAB3C	YES	17
42	stv_SUPV3L1	stv	SUPV3L1	YES	31
43	stv_GRM8	stv	GRM8	YES	16
43	stv_TNFAIP3	stv	TNFAIP3	YES	78
44	stv_LIN9	stv	LIN9	YES	8
45	meth_NEK6	meth	NEK6	YES	44
45	stv_ALOX15	stv	ALOX15	YES	43
46	mrna_SRPK1	mrna	SRPK1	YES	31
46	mrna_RDH10	mrna	RDH10	YES	30
47	stv_CA2	stv	CA2	YES	39
47	stv_SDHAF2	stv	SDHAF2	YES	12
48	cnv_COMMD1	cnv	COMMD1	YES	37
48	mrna_GLIPR2	mrna	GLIPR2	YES	9
49	cnv_H2AFY	cnv	H2AFY	YES	49
49	mrna_CDC42EP1	mrna	CDC42EP1	YES	17
50	mrna_ADORA2B	mrna	ADORA2B	YES	28
51	meth_NR1I2	meth	NR1I2	YES	32
52	meth_FSCN1	meth	FSCN1	YES	43
52	meth_GPR55	meth	GPR55	YES	16
53	meth_PIGR	meth	PIGR	YES	17
53	mrna_ACE2	mrna	ACE2	YES	37
54	stv_AJUBA	stv	AJUBA	YES	48
55	mrna_CDK2AP1	mrna	CDK2AP1	YES	9
55	mrna_CRHR1	mrna	CRHR1	YES	60
56	meth_FHL2	meth	FHL2	YES	26
56	mrna_CMYA5	mrna	CMYA5	YES	8
57	cnv_GRIA1	cnv	GRIA1	YES	56
57	mrna_PIF1	mrna	PIF1	YES	27
58	meth_PNLIPRP2	meth	PNLIPRP2	YES	7
59	mrna_IGF2BP2	mrna	IGF2BP2	YES	18
59	stv_KCNA5	stv	KCNA5	YES	61
60	meth_C14orf39	meth	C14orf39	YES	12
60	mrna_SF3B6	mrna	SF3B6	YES	13
61	meth_IL21	meth	IL21	YES	21
62	cnv_PPARGC1B	cnv	PPARGC1B	YES	32

62	mrna_CCL20	mrna	CCL20	YES	34
63	cnv_SLC23A1	cnv	SLC23A1	YES	34
63	mrna_MAP4K4	mrna	MAP4K4	YES	22
64	meth_CDHR5	meth	CDHR5	YES	19
64	meth_ERG	meth	ERG	YES	25
65	cnv_C1D	cnv	C1D	YES	17
65	cnv_KRT5	cnv	KRT5	YES	18
66	meth_GNRH1	meth	GNRH1	YES	36
66	meth_PPP1R17	meth	PPP1R17	YES	9
67	cnv_FAM170A	cnv	FAM170A	YES	7
67	mrna_MAMLD1	mrna	MAMLD1	YES	11
68	cnv_KRT76	cnv	KRT76	YES	12
68	stv_TCEA2	stv	TCEA2	YES	14
69	stv_PDCD1LG2	stv	PDCD1LG2	YES	14
70	mrna_DPF3	mrna	DPF3	YES	11
70	stv_TFR2	stv	TFR2	YES	24
71	meth_KCNJ2	meth	KCNJ2	YES	44
72	stv_STRA6	stv	STRA6	YES	43
73	mrna_BAIAP2L2	mrna	BAIAP2L2	YES	19
73	mrna_CXCL16	mrna	CXCL16	YES	20
74	meth_ADCYAP1	meth	ADCYAP1	YES	58
74	meth_CLCN1	meth	CLCN1	YES	22
75	mrna_TEAD4	mrna	TEAD4	YES	20
75	stv_TSPAN8	stv	TSPAN8	YES	10
76	stv_IMPG2	stv	IMPG2	YES	9
77	meth_CYP2W1	meth	CYP2W1	YES	18
77	mrna_NUP93	mrna	NUP93	YES	31
78	mrna_HHAT	mrna	HHAT	YES	14
78	mrna_RYR1	mrna	RYR1	YES	55
79	mirna_MIR224	mirna	MIR224	YES	3
79	mrna_FOXC2	mrna	FOXC2	YES	62
80	cnv_ALDH7A1	cnv	ALDH7A1	YES	19
80	meth_ADRA1D	meth	ADRA1D	YES	24
81	stv_H1FNT	stv	H1FNT	YES	12
81	stv_POLR2A	stv	POLR2A	YES	32
82	meth_AZU1	meth	AZU1	YES	44
83	meth_TMEM8A	meth	TMEM8A	YES	10
83	stv_PCDHA10	stv	PCDHA10	YES	10
84	mrna_FSCN1	mrna	FSCN1	YES	43
85	meth_IRS1	meth	IRS1	YES	48
85	stv_STX12	stv	STX12	YES	26
86	cnv_RAPGEF6	cnv	RAPGEF6	YES	20
86	stv_UBE2J1	stv	UBE2J1	YES	17
87	meth_CX3CL1	meth	CX3CL1	YES	42
87	stv_TGM1	stv	TGM1	YES	19
88	mrna_NMB	mrna	NMB	YES	14
88	stv_NKX2.8	stv	NKX2.8	NO	0
89	meth_CSTA	meth	CSTA	YES	21
89	mrna_DNAH7	mrna	DNAH7	YES	22
90	cnv_CREBRF	cnv	CREBRF	YES	17
90	mrna_SEMA3F	mrna	SEMA3F	YES	20
91	meth_IL20	meth	IL20	YES	11
91	mrna_CDKN2A	mrna	CDKN2A	YES	65
92	stv_WFIKKN2	stv	WFIKKN2	YES	13
93	mrna_ILF2	mrna	ILF2	YES	20
93	stv_CLCN1	stv	CLCN1	YES	22
94	stv_CHI3L1	stv	CHI3L1	YES	29
94	stv_TULP4	stv	TULP4	YES	9

95	mrna_TLE3	mrna	TLE3	YES	9
95	mrna_CNGA1	mrna	CNGA1	YES	22
96	stv_SERPINA10	stv	SERPINA10	YES	14
97	mrna_DLX5	mrna	DLX5	YES	41
97	stv_SP100	stv	SP100	YES	43
98	cnv_CTNNA1	cnv	CTNNA1	YES	55
98	stv_ALDOB	stv	ALDOB	YES	24
99	meth_C5AR1	meth	C5AR1	YES	46
99	mrna_GATA6	mrna	GATA6	YES	68
100	cnv_GTF2H2	cnv	GTF2H2	YES	42
100	stv_PPP1R15A	stv	PPP1R15A	YES	39
101	stv_PIK3CA	stv	PIK3CA	YES	67
102	meth_ALX4	meth	ALX4	YES	30
102	mrna_GFRA3	mrna	GFRA3	YES	19
103	mirna_MIR135B	mirna	MIR135B	NO	0
104	mrna_FOSL1	mrna	FOSL1	YES	41
105	cnv_PCSK1	cnv	PCSK1	YES	15
105	mrna_GPR161	mrna	GPR161	YES	15
106	cnv_KIF2A	cnv	KIF2A	YES	33
106	mrna_PPARGC1A	mrna	PPARGC1A	YES	127
107	mirna_MIR142	mirna	MIR142	YES	1
107	mrna_SLPI	mrna	SLPI	YES	25
108	meth_SYDE1	meth	SYDE1	YES	9
108	stv_KMT2C	stv	KMT2C	YES	20
109	cnv_RAB1A	cnv	RAB1A	YES	40
109	mrna_IL22RA2	mrna	IL22RA2	YES	10
110	meth_EPOR	meth	EPOR	YES	16
111	cnv_KRT77	cnv	KRT77	YES	10
112	meth_PCK1	meth	PCK1	YES	39
112	mrna_THPO	mrna	THPO	YES	14
113	meth_AHNAK	meth	AHNAK	YES	23
113	meth_NFKBIB	meth	NFKBIB	YES	22
114	meth_FOXD1	meth	FOXD1	YES	28
114	meth_MMP2	meth	MMP2	YES	35
115	mrna_PAX6	mrna	PAX6	YES	101
115	mrna_GATA3	mrna	GATA3	YES	152
116	mrna_KRT83	mrna	KRT83	YES	11
117	meth_F7	meth	F7	YES	49
117	meth_PRDM1	meth	PRDM1	YES	48
118	cnv_SPRED2	cnv	SPRED2	YES	17
118	mrna_HEXIM1	mrna	HEXIM1	YES	14
119	mrna_SLC35C1	mrna	SLC35C1	YES	10
119	stv_GALNT3	stv	GALNT3	YES	20
120	meth_KLF14	meth	KLF14	YES	5
120	mrna_CRLF1	mrna	CRLF1	YES	16
121	cnv_NREP	cnv	NREP	YES	6
121	mrna_NASP	mrna	NASP	YES	19
122	meth_APOA2	meth	APOA2	YES	72
122	mrna_RASGEF1B	mrna	RASGEF1B	YES	9
123	mrna_NOTCH1	mrna	NOTCH1	YES	191
123	stv_CYSLTR1	stv	CYSLTR1	YES	22
124	meth_POMC	meth	POMC	YES	25
124	meth_TMC6	meth	TMC6	YES	16
125	stv_SIPA1	stv	SIPA1	YES	23
126	stv_MUC21	stv	MUC21	YES	9
127	cnv_ADRB2	cnv	ADRB2	YES	65
127	mrna_SOX8	mrna	SOX8	YES	46
128	mrna_EXOC6	mrna	EXOC6	YES	13

128	stv_DRD1	stv	DRD1	YES	75
129	cnv_PDE4D	cnv	PDE4D	YES	51
130	mrna_UGCG	mrna	UGCG	YES	14
131	mrna_IL20	mrna	IL20	YES	11
131	stv_NCAM1	stv	NCAM1	YES	23
132	mrna_RAP2B	mrna	RAP2B	YES	26
132	stv_DDX11	stv	DDX11	YES	60
133	cnv_PRR16	cnv	PRR16	YES	3
133	meth_FAM129A	meth	FAM129A	YES	12
134	meth_GFRA1	meth	GFRA1	YES	18
134	mrna_NCK2	mrna	NCK2	YES	36
135	mrna_BPI	mrna	BPI	YES	20
136	meth_DFNA5	meth	DFNA5	YES	9
137	cnv_SMAD5	cnv	SMAD5	YES	43
137	meth_PROK2	meth	PROK2	YES	19
138	cnv_TAF9	cnv	TAF9	YES	40
138	stv_MYO1B	stv	MYO1B	YES	28
139	meth_CTPS1	meth	CTPS1	YES	17
139	mrna_NR2E3	mrna	NR2E3	YES	30
140	mirna_MIR33A	mirna	MIR33A	YES	1
140	stv_DYX1C1	stv	DYX1C1	YES	7
142	meth_EIF2B5	meth	EIF2B5	YES	28
142	stv_ACVR1C	stv	ACVR1C	YES	32
143	cnv_CCNB1	cnv	CCNB1	YES	64
143	meth_CTSA	meth	CTSA	YES	26
144	mrna_STIL	mrna	STIL	YES	24
145	stv_ALKBH2	stv	ALKBH2	YES	18
145	stv_NCF1	stv	NCF1	YES	45
146	cnv_HSD17B4	cnv	HSD17B4	YES	29
146	mrna_GBP5	mrna	GBP5	YES	20
147	cnv_AMHR2	cnv	AMHR2	YES	31
147	mrna_ADD2	mrna	ADD2	YES	26
148	cnv_ERBB2IP	cnv	ERBB2IP	YES	22
148	meth_SLPI	meth	SLPI	YES	25
150	meth_BMP8A	meth	BMP8A	YES	19
151	meth_DAPK1	meth	DAPK1	YES	35
152	meth_SLC7A8	meth	SLC7A8	YES	27
153	meth_MBD3L1	meth	MBD3L1	YES	7
153	mirna_MIR378A	mirna	MIR378A	YES	2
154	mrna_BARX1	mrna	BARX1	YES	20
155	cnv_MAP3K1	cnv	MAP3K1	YES	38
155	mrna_VNN1	mrna	VNN1	YES	24
156	mrna_TRPM8	mrna	TRPM8	YES	27
156	mrna_SRD5A1	mrna	SRD5A1	YES	61
157	mrna_UBASH3B	mrna	UBASH3B	YES	22
157	stv_GATA3	stv	GATA3	YES	152
159	cnv_ZFYVE16	cnv	ZFYVE16	YES	18
160	meth_FBN1	meth	FBN1	YES	35
160	mrna_IRAK1	mrna	IRAK1	YES	60
161	stv_SPTBN1	stv	SPTBN1	YES	43
161	stv_TAF3	stv	TAF3	YES	16
162	mrna_RHOB	mrna	RHOB	YES	41
162	stv_SOCS5	stv	SOCS5	YES	25
163	cnv_MAN2A1	cnv	MAN2A1	YES	31
163	mrna_ELF5	mrna	ELF5	YES	20
164	stv_GDPD5	stv	GDPD5	YES	24
165	cnv_CAST	cnv	CAST	YES	13
165	cnv_NRG2	cnv	NRG2	YES	24

166	meth_CSF3	meth	CSF3	YES	28
166	mrna_MAGOH	mrna	MAGOH	YES	21
167	mrna_KHDRBS3	mrna	KHDRBS3	YES	13
167	mrna_FBP1	mrna	FBP1	YES	28
168	meth_SNX6	meth	SNX6	YES	31
168	stv_KBTBD7	stv	KBTBD7	YES	10
169	cnv_AP3B1	cnv	AP3B1	YES	23
169	stv_CRYGD	stv	CRYGD	YES	9
170	mrna_INPP4B	mrna	INPP4B	YES	20
170	stv_SNCG	stv	SNCG	YES	20
171	stv_CREM	stv	CREM	YES	23
171	stv_FNIP2	stv	FNIP2	YES	12
172	stv_ZNF354A	stv	ZNF354A	YES	17
173	mrna_ORC1	mrna	ORC1	YES	19
174	mrna_GPR55	mrna	GPR55	YES	16
175	mrna_FOXQ1	mrna	FOXQ1	YES	15
176	cnv_CD74	cnv	CD74	YES	85
176	meth_FFAR1	meth	FFAR1	YES	17
177	mrna_CHAC1	mrna	CHAC1	YES	19
177	stv_AGT	stv	AGT	YES	111
178	cnv_PAPD4	cnv	PAPD4	YES	18
178	mrna_SUV39H2	mrna	SUV39H2	YES	30
179	mrna_HSD17B4	mrna	HSD17B4	YES	29
179	stv_DLX5	stv	DLX5	YES	41
180	cnv_KIAA0141	cnv	KIAA0141	YES	5
180	mrna_GLI3	mrna	GLI3	YES	121
181	meth_TNFSF13B	meth	TNFSF13B	YES	25
181	stv_NAMPT	stv	NAMPT	YES	30
182	cnv_TENM2	cnv	TENM2	YES	33
183	meth_ABL2	meth	ABL2	YES	40
184	mrna_CRYAB	mrna	CRYAB	YES	58
185	mrna_RUNX3	mrna	RUNX3	YES	28
186	cnv_F2R	cnv	F2R	YES	70
186	mrna_PTPN2	mrna	PTPN2	YES	54
187	cnv_GLRA1	cnv	GLRA1	YES	60
187	stv_NOB1	stv	NOB1	YES	12
188	meth_EFNA2	meth	EFNA2	YES	13
188	mrna_PSMG1	mrna	PSMG1	YES	11
189	meth_CPLX2	meth	CPLX2	YES	24
189	mrna_PLA2G4A	mrna	PLA2G4A	YES	36
190	cnv_GABRG2	cnv	GABRG2	YES	33
190	stv_EPHB3	stv	EPHB3	YES	43
191	mrna_AFF3	mrna	AFF3	YES	10
192	stv_PPP3CC	stv	PPP3CC	YES	11
193	cnv_PCDHGA3	cnv	PCDHGA3	YES	11
193	mrna_EPHB3	mrna	EPHB3	YES	43
194	cnv_GZMA	cnv	GZMA	YES	18
195	cnv_MRPL22	cnv	MRPL22	YES	11
195	mrna_HDAC2	mrna	HDAC2	YES	84
196	meth_PSMB8	meth	PSMB8	YES	47
197	mrna_BMP6	mrna	BMP6	YES	52
197	stv_DDOST	stv	DDOST	YES	20
198	cnv_VDAC1	cnv	VDAC1	YES	38
198	mrna_NEK10	mrna	NEK10	YES	14
199	cnv_HOXC10	cnv	HOXC10	YES	19
199	meth_GFAP	meth	GFAP	YES	37
200	mrna_SIRPA	mrna	SIRPA	YES	10
201	cnv_PPP1R1A	cnv	PPP1R1A	YES	11

201	meth_AGAP1	meth	AGAP1	YES	12
202	mrna_ITM2C	mrna	ITM2C	YES	15
203	stv_POLR1B	stv	POLR1B	YES	21
204	mrna_CEBPB	mrna	CEBPB	YES	65
205	mrna_ZNF462	mrna	ZNF462	YES	10
206	stv_DAPK2	stv	DAPK2	YES	30
207	mrna_PIM1	mrna	PIM1	YES	32
207	stv_DGKI	stv	DGKI	YES	41
208	meth_ABCA2	meth	ABCA2	YES	22
209	meth_PAK2	meth	PAK2	YES	52
209	mrna_SULT1B1	mrna	SULT1B1	YES	17
210	meth_GLIS2	meth	GLIS2	YES	27
210	stv_EXPH5	stv	EXPH5	YES	8
211	meth_AMY2A	meth	AMY2A	YES	15
211	meth_TBC1D23	meth	TBC1D23	YES	5
212	meth_ACVR1	meth	ACVR1	YES	69
212	stv_NBN	stv	NBN	YES	50
213	mrna_PLOD3	mrna	PLOD3	YES	33
214	mrna_PGC	mrna	PGC	YES	11
214	stv_KCNJ2	stv	KCNJ2	YES	44
215	meth_ETS1	meth	ETS1	YES	49
215	mirna_MIR206	mirna	MIR206	YES	4
216	mrna_GCNT3	mrna	GCNT3	YES	19
216	stv_RBM15	stv	RBM15	YES	16
217	mrna_TTYH3	mrna	TTYH3	YES	12
218	mrna_TLX1	mrna	TLX1	YES	14
218	stv_CCT8	stv	CCT8	YES	37
219	cnv_SEC24A	cnv	SEC24A	YES	25
219	stv_SPTA1	stv	SPTA1	YES	35
220	mrna_KARS	mrna	KARS	YES	42
221	meth_HOXB7	meth	HOXB7	YES	19
223	meth_HSD17B4	meth	HSD17B4	YES	29
223	mrna_CCNY	mrna	CCNY	YES	15
224	cnv_ANXA4	cnv	ANXA4	YES	24
224	meth_KCNIP3	meth	KCNIP3	YES	41
225	mrna_MFI2	mrna	MFI2	YES	8
226	cnv_GABRA1	cnv	GABRA1	YES	30
226	meth_SLC23A1	meth	SLC23A1	YES	34
227	meth_QRSL1	meth	QRSL1	YES	11
228	stv_EPHB2	stv	EPHB2	YES	71
228	stv_GPD2	stv	GPD2	YES	16
229	cnv_SP1	cnv	SP1	YES	48
229	mrna_WARS	mrna	WARS	YES	26
230	meth_GFPT1	meth	GFPT1	YES	24
230	meth_KSR1	meth	KSR1	YES	23
231	cnv_OTX1	cnv	OTX1	YES	18
232	cnv_RAD17	cnv	RAD17	YES	22
232	mrna_OTX1	mrna	OTX1	YES	18
233	meth_SLC30A8	meth	SLC30A8	YES	30
233	mrna_IL2RA	mrna	IL2RA	YES	34
234	meth_MBNL1	meth	MBNL1	YES	18
234	mrna_KRT16	mrna	KRT16	YES	23
235	mrna_PVR	mrna	PVR	YES	32
235	stv_CRLF2	stv	CRLF2	YES	4
236	cnv_PPAP2A	cnv	PPAP2A	YES	17
236	meth_ADARB1	meth	ADARB1	YES	32
237	meth_FOXG1	meth	FOXG1	YES	34
237	meth_PGC	meth	PGC	YES	11

238	mrna_CXCL1	mrna	CXCL1	YES	27
238	stv_TRIL	stv	TRIL	YES	9
239	meth_DYNLL2	meth	DYNLL2	YES	34
239	stv_ZRANB1	stv	ZRANB1	YES	24
240	mrna_CHEK1	mrna	CHEK1	YES	53
240	mrna_UBXN2A	mrna	UBXN2A	YES	18
241	stv_AHCYL1	stv	AHCYL1	YES	27
241	stv_SMO	stv	SMO	YES	101
242	stv_PGLYRP3	stv	PGLYRP3	YES	23
243	meth_IL36RN	meth	IL36RN	YES	15
243	stv_SCN11A	stv	SCN11A	YES	23
244	mirna_MIR375	mirna	MIR375	YES	2
244	stv_RPL28	stv	RPL28	YES	21
245	cnv_COL4A3BP	cnv	COL4A3BP	YES	32
245	cnv_HDAC3	cnv	HDAC3	YES	41
246	meth_CYP4F2	meth	CYP4F2	YES	46
246	mrna_HORMAD1	mrna	HORMAD1	YES	15
247	stv_GEN1	stv	GEN1	YES	20
247	stv_RBMX	stv	RBMX	YES	36
248	meth_BCL11B	meth	BCL11B	YES	40
248	meth_CUBN	meth	CUBN	YES	39
249	cnv_SLC22A5	cnv	SLC22A5	YES	33
249	stv_SNRNP200	stv	SNRNP200	YES	24
250	cnv_TNFAIP8	cnv	TNFAIP8	YES	7
250	mrna_OPRK1	mrna	OPRK1	YES	53
251	mrna_DSC2	mrna	DSC2	YES	23
252	mrna_SERBP1	mrna	SERBP1	YES	13
252	mrna_USP6NL	mrna	USP6NL	YES	17
253	mrna_GATAD2A	mrna	GATAD2A	YES	18
253	stv_EYA2	stv	EYA2	YES	27
254	meth_MECOM	meth	MECOM	YES	31
255	meth_INO80C	meth	INO80C	YES	14
255	meth_MEP1A	meth	MEP1A	YES	15
256	meth_ITGAL	meth	ITGAL	YES	30
257	cnv_ACTR2	cnv	ACTR2	YES	45
258	cnv_PITX1	cnv	PITX1	YES	26
258	cnv_SLC22A4	cnv	SLC22A4	YES	32
259	meth_GLIPR2	meth	GLIPR2	YES	9
259	stv_IDUA	stv	IDUA	YES	20
260	mirna_MIR10A	mirna	MIR10A	YES	5
261	meth_ZHX3	meth	ZHX3	YES	17
261	mrna_MAG	mrna	MAG	YES	32
262	meth_LMNA	meth	LMNA	YES	33
262	meth_SLC7A5	meth	SLC7A5	YES	25
263	meth_CD7	meth	CD7	YES	11
263	mrna_ANKRD1	mrna	ANKRD1	YES	41
264	meth_IGF2BP3	meth	IGF2BP3	YES	17
264	mrna_APH1B	mrna	APH1B	YES	17
265	mrna_GAL	mrna	GAL	YES	33
265	stv_ASCC3	stv	ASCC3	YES	21
266	stv_CYTH3	stv	CYTH3	YES	18
267	meth_MAP2K2	meth	MAP2K2	YES	60
268	meth_FBXL5	meth	FBXL5	YES	16
268	mrna_YBX1	mrna	YBX1	YES	37
269	stv_ATXN7L3	stv	ATXN7L3	YES	11
270	cnv_HTR1A	cnv	HTR1A	YES	27
270	cnv_SLC36A1	cnv	SLC36A1	YES	26
271	mrna_PDHA1	mrna	PDHA1	YES	22

271	stv_MRPL3	stv	MRPL3	YES	11
272	mirna_MIR146A	mirna	MIR146A	YES	1
272	mrna_GFRA1	mrna	GFRA1	YES	18
273	cnv_NR2F1	cnv	NR2F1	YES	24
273	stv_GMNN	stv	GMNN	YES	19
274	meth_PTGDS	meth	PTGDS	YES	27
274	mrna_ERBB4	mrna	ERBB4	YES	77
275	stv_NPC2	stv	NPC2	YES	25
275	stv_UTP14C	stv	UTP14C	YES	12
276	cnv_HNRNPA0	cnv	HNRNPA0	YES	15
276	mrna_UPP1	mrna	UPP1	YES	17
277	stv_NFKBIB	stv	NFKBIB	YES	22
277	stv_RUNDC3A	stv	RUNDC3A	YES	10
279	meth_ADAP1	meth	ADAP1	YES	12
279	stv_TXK	stv	TXK	YES	40
280	meth_LIF	meth	LIF	YES	47
280	meth_SLC35C1	meth	SLC35C1	YES	10
281	meth_NKX6.1	meth	NKX6.1	NO	0
282	mrna_GDF5	mrna	GDF5	YES	37
283	stv_AKTIP	stv	AKTIP	YES	19
284	stv_SCUBE1	stv	SCUBE1	YES	20
285	cnv_IL6ST	cnv	IL6ST	YES	49
285	stv_AKT1	stv	AKT1	YES	182
286	mrna_ART3	mrna	ART3	YES	12
287	cnv_SLC36A2	cnv	SLC36A2	YES	21
288	meth_ATP5F1	meth	ATP5F1	YES	26
290	meth_DHDDS	meth	DHDDS	YES	10
291	mrna_ODC1	mrna	ODC1	YES	19
292	mrna_ACTG2	mrna	ACTG2	YES	16
293	meth_CHRNA7	meth	CHRNA7	YES	86
293	mrna_PLEKHF1	mrna	PLEKHF1	YES	18
294	mrna_CHRM3	mrna	CHRM3	YES	34
295	cnv_GRPEL2	cnv	GRPEL2	YES	11
296	mrna_FGD3	mrna	FGD3	YES	21
296	mrna_PLB1	mrna	PLB1	YES	16
297	meth_IL12RB2	meth	IL12RB2	YES	16
298	stv_BNIP2	stv	BNIP2	YES	23
298	stv_RPL13A	stv	RPL13A	YES	24
299	meth_MED21	meth	MED21	YES	15
299	stv_PTPRE	stv	PTPRE	YES	16
300	meth_KIF15	meth	KIF15	YES	21
300	stv_TAF1	stv	TAF1	YES	67
301	meth_DNM3	meth	DNM3	YES	36
301	stv_ARID1B	stv	ARID1B	YES	19
302	stv_RAET1E	stv	RAET1E	YES	11
303	meth_FXYD1	meth	FXYD1	YES	27
303	mirna_MIR20B	mirna	MIR20B	YES	3
305	mrna_RGS22	mrna	RGS22	YES	6
305	stv_MIOS	stv	MIOS	YES	8
307	meth_RGS13	meth	RGS13	YES	10
307	mrna_PSME4	mrna	PSME4	YES	43
308	mrna_RRAGD	mrna	RRAGD	YES	24
308	stv_TNIK	stv	TNIK	YES	33
309	stv_CRHR1	stv	CRHR1	YES	60
309	stv_ZNF513	stv	ZNF513	YES	11
311	stv_SLC45A2	stv	SLC45A2	YES	9
312	meth_TNP1	meth	TNP1	YES	23
313	mrna_PHGDH	mrna	PHGDH	YES	27

313	mrna_CKS1B	mrna	CKS1B	YES	17
314	meth_GPC2	meth	GPC2	YES	19
314	stv_GART	stv	GART	YES	27
315	cnv_ACVRL1	cnv	ACVRL1	YES	77
315	stv_LCK	stv	LCK	YES	65
316	mrna_MET	mrna	MET	YES	50
317	meth_MGST1	meth	MGST1	YES	30
317	mrna_MAML2	mrna	MAML2	YES	10
318	cnv_FBN2	cnv	FBN2	YES	19
318	meth_FOXD4L1	meth	FOXD4L1	YES	25
319	meth_SOAT1	meth	SOAT1	YES	23
319	stv_MPP7	stv	MPP7	YES	17
321	mrna_OLFM2	mrna	OLFM2	YES	14
321	stv_CCDC39	stv	CCDC39	YES	20
322	mrna_PREX1	mrna	PREX1	YES	33
322	mrna_CPEB2	mrna	CPEB2	YES	25
323	stv_HDAC6	stv	HDAC6	YES	97
324	cnv_CCNT1	cnv	CCNT1	YES	30
324	stv_SLC27A2	stv	SLC27A2	YES	38
325	cnv_HTR4	cnv	HTR4	YES	16
325	stv_PABPC1	stv	PABPC1	YES	34
327	meth_FLRT2	meth	FLRT2	YES	37
328	mrna_OTULIN	mrna	OTULIN	YES	22
329	mrna_MCM7	mrna	MCM7	YES	29
330	cnv_UQCRQ	cnv	UQCRQ	YES	17
330	stv_MMP19	stv	MMP19	YES	22
331	cnv_KRT73	cnv	KRT73	YES	11
332	cnv_ENC1	cnv	ENC1	YES	17
332	stv_OCSTAMP	stv	OCSTAMP	YES	9
333	stv_TCF4	stv	TCF4	YES	37
334	mrna_SLC25A33	mrna	SLC25A33	YES	23
335	mrna_PAPSS1	mrna	PAPSS1	YES	15
335	stv_CDK13	stv	CDK13	YES	42
336	cnv_BMP10	cnv	BMP10	YES	42
336	cnv_MFAP3	cnv	MFAP3	YES	5
337	cnv_HMGCR	cnv	HMGCR	YES	46
337	mrna_DYNLRB2	mrna	DYNLRB2	YES	15
338	meth_MACROD2	meth	MACROD2	YES	10
339	meth_HAND2	meth	HAND2	YES	67
339	mrna_UPK2	mrna	UPK2	YES	9
340	meth_ATP6V0C	meth	ATP6V0C	YES	34
340	mrna_COL25A1	mrna	COL25A1	YES	12
341	cnv_NCKAP1L	cnv	NCKAP1L	YES	49
342	stv_SERPINB5	stv	SERPINB5	YES	12
343	mrna_ZPR1	mrna	ZPR1	YES	40
343	mrna_DMBT1	mrna	DMBT1	YES	27
344	meth_CYP2B6	meth	CYP2B6	YES	22
344	mrna_PLEKHG1	mrna	PLEKHG1	YES	6
345	meth_MMP7	meth	MMP7	YES	23
345	mrna_ELP2	mrna	ELP2	YES	13
346	cnv_NAIP	cnv	NAIP	YES	29
346	mrna_DSG1	mrna	DSG1	YES	30
348	meth_MLC1	meth	MLC1	YES	29
348	meth_SLC18A1	meth	SLC18A1	YES	20
349	meth_SFRP1	meth	SFRP1	YES	115
350	cnv_KRT79	cnv	KRT79	YES	9
352	stv_USF1	stv	USF1	YES	37
353	meth_MYBL2	meth	MYBL2	YES	19

353	stv_CD93	stv	CD93	YES	21
354	mrna_TGFA	mrna	TGFA	YES	37
355	mrna_TUBB6	mrna	TUBB6	YES	14
355	stv_MYH11	stv	MYH11	YES	21
356	cnv_MTIF2	cnv	MTIF2	YES	15
356	meth_CD8A	meth	CD8A	YES	26
357	cnv_PAM	cnv	PAM	YES	53
357	meth_LTBR	meth	LTBR	YES	23
358	cnv_PJA2	cnv	PJA2	YES	22
359	cnv_ANTXR1	cnv	ANTXR1	YES	23
359	stv_SH3KBP1	stv	SH3KBP1	YES	26
360	meth_GAS7	meth	GAS7	YES	13
360	stv_GNL3	stv	GNL3	YES	21
361	mirna_MIR338	mirna	MIR338	YES	1
362	meth_TRIM15	meth	TRIM15	YES	12
363	meth_IRF7	meth	IRF7	YES	46
363	mrna_SLC46A1	mrna	SLC46A1	YES	23
365	cnv_SRA1	cnv	SRA1	YES	19
366	meth_TRIM16	meth	TRIM16	YES	22
367	cnv_ADAM19	cnv	ADAM19	YES	14
369	cnv_ERAP2	cnv	ERAP2	YES	24
369	stv_CNTN4	stv	CNTN4	YES	16
370	meth_IAPP	meth	IAPP	YES	26
371	cnv_C1QTNF2	cnv	C1QTNF2	YES	13
371	stv_CSRNP1	stv	CSRNP1	YES	17
372	cnv_RTN4	cnv	RTN4	YES	37
373	meth_UBE2V2	meth	UBE2V2	YES	24
377	cnv_SPRY4	cnv	SPRY4	YES	12
377	mirna_MIR30A	mirna	MIR30A	YES	3
378	mrna_WNT10A	mrna	WNT10A	YES	20
378	stv_SDC3	stv	SDC3	YES	14
379	mrna_MRPS30	mrna	MRPS30	YES	10
379	stv_OLFM1	stv	OLFM1	YES	21
380	mrna_RAD54L	mrna	RAD54L	YES	21
381	cnv_TNPO1	cnv	TNPO1	YES	21
381	mrna_ADCY9	mrna	ADCY9	YES	27
383	stv_DMD	stv	DMD	YES	100
384	stv_HLF	stv	HLF	YES	15
385	cnv_B3GNT2	cnv	B3GNT2	YES	17
385	meth_STK38	meth	STK38	YES	20
386	meth_CDKN1C	meth	CDKN1C	YES	33
386	stv_GCLC	stv	GCLC	YES	48
387	cnv_KIF4B	cnv	KIF4B	YES	20
387	meth_ARPP19	meth	ARPP19	YES	20
388	stv_TGFBR3	stv	TGFBR3	YES	63
389	mrna_KDM1A	mrna	KDM1A	YES	63
389	stv_CENPU	stv	CENPU	YES	16
390	cnv_GDF9	cnv	GDF9	YES	18
390	meth_LGALS8	meth	LGALS8	YES	13
391	mrna_NMT2	mrna	NMT2	YES	14
393	meth_HPGDS	meth	HPGDS	YES	21
393	meth_SLC22A3	meth	SLC22A3	YES	25
394	meth_PTGFR	meth	PTGFR	YES	19
395	cnv_IL3	cnv	IL3	YES	23
395	mrna_UPF3B	mrna	UPF3B	YES	21
396	meth_CDH5	meth	CDH5	YES	28
397	cnv_EFNA5	cnv	EFNA5	YES	38
397	mrna_LGR5	mrna	LGR5	YES	19

398	mrna_SLC7A2	mrna	SLC7A2	YES	32
398	mrna_RPS7	mrna	RPS7	YES	40
399	stv_VAX1	stv	VAX1	YES	21
400	meth_PDZK1IP1	meth	PDZK1IP1	YES	3
400	mrna_POLR2F	mrna	POLR2F	YES	31
401	stv_MTMR8	stv	MTMR8	YES	12
402	mrna_MFGE8	mrna	MFGE8	YES	22
403	cnv_MRPS36	cnv	MRPS36	YES	10
403	meth_ADA	meth	ADA	YES	72
404	mrna_UGT2B7	mrna	UGT2B7	YES	16
405	mrna_RNF8	mrna	RNF8	YES	41
405	stv_CEP41	stv	CEP41	YES	19
406	mrna_CDK6	mrna	CDK6	YES	61
406	stv_CELF1	stv	CELF1	YES	23
407	mrna_CFAP20	mrna	CFAP20	YES	17
408	cnv_CALCOCO1	cnv	CALCOCO1	YES	24
409	cnv_CYFIP2	cnv	CYFIP2	YES	20
409	stv_MMP24	stv	MMP24	YES	26
410	cnv_HBEGF	cnv	HBEGF	YES	41
411	mrna_HMGA1	mrna	HMGA1	YES	42
412	cnv_APLF	cnv	APLF	YES	19
412	mrna_KRT81	mrna	KRT81	YES	8
413	meth_LCT	meth	LCT	YES	16
413	meth_LIME1	meth	LIME1	YES	10
414	meth_OLFM2	meth	OLFM2	YES	14
415	stv_FES	stv	FES	YES	48
415	stv_PTPRC	stv	PTPRC	YES	66
416	meth_BCL11A	meth	BCL11A	YES	23
416	meth_RGS20	meth	RGS20	YES	11
417	meth_IKZF1	meth	IKZF1	YES	31
417	mrna_WDR43	mrna	WDR43	YES	12
418	cnv_G3BP1	cnv	G3BP1	YES	27
418	stv_SLC6A3	stv	SLC6A3	YES	52
421	stv_PACSIN2	stv	PACSIN2	YES	36
422	meth_GUCA1A	meth	GUCA1A	YES	17
422	meth_HAS2	meth	HAS2	YES	32
423	cnv_MRPS27	cnv	MRPS27	YES	7
424	mrna_OCA2	mrna	OCA2	YES	22
425	mrna_UTP11L	mrna	UTP11L	YES	9
426	mrna_FAM134B	mrna	FAM134B	YES	4
428	meth_CR1	meth	CR1	YES	26
428	meth_THPO	meth	THPO	YES	14
429	meth_C19orf80	meth	C19orf80	YES	12
429	stv_GJA5	stv	GJA5	YES	76
430	cnv_IL17B	cnv	IL17B	YES	7
430	mrna_NKX1-2	mrna	NKX1-2	YES	7
431	mrna_PDCD5	mrna	PDCD5	YES	18
431	stv_SIRPB1	stv	SIRPB1	YES	11
432	cnv_PPP3R1	cnv	PPP3R1	YES	21
433	meth_FOXD3	meth	FOXD3	YES	32
433	meth_HIVEP2	meth	HIVEP2	YES	13
434	meth_TRDMT1	meth	TRDMT1	YES	13
434	mrna_SH3TC2	mrna	SH3TC2	YES	8
435	stv_ENPP7	stv	ENPP7	YES	15
436	cnv_SLC1A4	cnv	SLC1A4	YES	37
436	stv_BCL10	stv	BCL10	YES	67
437	cnv_ABLIM3	cnv	ABLIM3	YES	13
438	stv_CUL2	stv	CUL2	YES	21

439	cnv_BRD8	cnv	BRD8	YES	18
440	cnv_FOXD1	cnv	FOXD1	YES	28
440	mrna_DMRT3	mrna	DMRT3	YES	17
441	cnv_NEUROG1	cnv	NEUROG1	YES	46
441	mrna_ACAN	mrna	ACAN	YES	12
442	meth_IL1B	meth	IL1B	YES	96
443	cnv_USP34	cnv	USP34	YES	14
444	meth_RASGEF1A	meth	RASGEF1A	YES	9
445	cnv_KRT6A	cnv	KRT6A	YES	21
445	meth_HERPUD1	meth	HERPUD1	YES	25
446	mrna_DCPS	mrna	DCPS	YES	21
447	meth_DHFR	meth	DHFR	YES	32
447	meth_GP1BA	meth	GP1BA	YES	26
448	mrna_YES1	mrna	YES1	YES	46
449	cnv_RPL26L1	cnv	RPL26L1	YES	16
450	cnv_PCDHA6	cnv	PCDHA6	YES	10
450	meth_DDR2	meth	DDR2	YES	41
451	meth_AQP5	meth	AQP5	YES	21
452	meth_EGR4	meth	EGR4	YES	12
453	stv_MPPED2	stv	MPPED2	YES	4
453	stv_NRIP1	stv	NRIP1	YES	32
454	cnv_SLCO4C1	cnv	SLCO4C1	YES	17
454	mrna_YEATS2	mrna	YEATS2	YES	9
455	cnv_CRHBP	cnv	CRHBP	YES	41
456	meth_SPOCK2	meth	SPOCK2	YES	15
456	stv_STK36	stv	STK36	YES	24
457	mrna_ECE2	mrna	ECE2	YES	23
457	mrna_STOX2	mrna	STOX2	YES	4
458	mrna_ST14	mrna	ST14	YES	19
459	stv_P2RX2	stv	P2RX2	YES	46
460	cnv_MED7	cnv	MED7	YES	16
461	cnv_DND1	cnv	DND1	YES	9
461	stv_MYH13	stv	MYH13	YES	13
462	meth_SBF1	meth	SBF1	YES	14
462	stv_CLCA1	stv	CLCA1	YES	24
463	cnv_CSF1R	cnv	CSF1R	YES	60
463	mirna_MIR106A	mirna	MIR106A	YES	3
464	meth_IL23A	meth	IL23A	YES	44
465	meth_ST6GALNAC3	meth	ST6GALNAC3	YES	16
466	stv_FHOD3	stv	FHOD3	YES	14
468	stv_FBXW7	stv	FBXW7	YES	41
468	stv_SLC4A5	stv	SLC4A5	YES	26
469	meth_ART3	meth	ART3	YES	12
469	mrna_PTX3	mrna	PTX3	YES	21
470	meth_HORMAD1	meth	HORMAD1	YES	15
470	mrna_KCNN4	mrna	KCNN4	YES	27
471	cnv_NLN	cnv	NLN	YES	15
471	meth_DNAH5	meth	DNAH5	YES	28
472	meth_TMPRSS6	meth	TMPRSS6	YES	26
473	mrna_CDH3	mrna	CDH3	YES	29
474	stv_AP2M1	stv	AP2M1	YES	37
475	cnv_REEP2	cnv	REEP2	YES	13
475	stv_PKD2L1	stv	PKD2L1	YES	39
476	mirna_MIR125A	mirna	MIR125A	YES	4
476	mrna_E2F2	mrna	E2F2	YES	21
477	cnv_LSM11	cnv	LSM11	YES	15
477	mirna_MIR19A	mirna	MIR19A	YES	10
478	meth_ERP29	meth	ERP29	YES	20

478	stv_DDX20	stv	DDX20	YES	38
479	meth_IGF2BP1	meth	IGF2BP1	YES	33
480	cnv_AFF4	cnv	AFF4	YES	12
480	cnv_PPP2CA	cnv	PPP2CA	YES	48
481	mrna_YBX3	mrna	YBX3	YES	35
482	meth_STON2	meth	STON2	YES	17
483	mrna_PRKX	mrna	PRKX	YES	27
484	stv_DYNC2H1	stv	DYNC2H1	YES	43
485	mrna_POLR3G	mrna	POLR3G	YES	15
485	stv_TCOF1	stv	TCOF1	YES	14
486	cnv_NEUROD4	cnv	NEUROD4	YES	18
487	cnv_BTF3	cnv	BTF3	YES	11
487	mrna_KIAA1549L	mrna	KIAA1549L	YES	2
489	meth_CST3	meth	CST3	YES	64
490	stv_ACO1	stv	ACO1	YES	24
490	stv_TBCD	stv	TBCD	YES	25
491	mrna_MID1	mrna	MID1	YES	27
491	stv_PHACTR4	stv	PHACTR4	YES	22
492	mrna_PPARA	mrna	PPARA	YES	71
493	mrna_PFKP	mrna	PFKP	YES	22
493	stv_GRPEL2	stv	GRPEL2	YES	11
494	cnv_ATG12	cnv	ATG12	YES	18
495	stv_IL21	stv	IL21	YES	21
495	stv_KCNE2	stv	KCNE2	YES	45
496	meth_NPY	meth	NPY	YES	29
497	cnv_SMN2	cnv	SMN2	YES	23
497	stv_SERPINB4	stv	SERPINB4	YES	12
498	cnv_SNX18	cnv	SNX18	YES	24
498	stv_LRP6	stv	LRP6	YES	117
499	mrna_TMEM38A	mrna	TMEM38A	YES	16
500	meth_LAIR1	meth	LAIR1	YES	11
501	meth_CD248	meth	CD248	YES	15
501	stv_L1CAM	stv	L1CAM	YES	28
502	stv_DLGAP5	stv	DLGAP5	YES	17
503	meth_TBX6	meth	TBX6	YES	21
504	mrna_RASAL1	mrna	RASAL1	YES	14
505	cnv_FGF1	cnv	FGF1	YES	57
506	meth_ABCG1	meth	ABCG1	YES	56
507	mrna_NPM2	mrna	NPM2	YES	19
507	stv_MRPL48	stv	MRPL48	YES	9
509	stv_MTIF2	stv	MTIF2	YES	15
510	meth_CEBPG	meth	CEBPG	YES	29
510	stv_NFE2L3	stv	NFE2L3	YES	15
511	meth_OSM	meth	OSM	YES	28
512	stv_APBB2	stv	APBB2	YES	18
513	cnv_HOXC11	cnv	HOXC11	YES	20
513	meth_KARS	meth	KARS	YES	42
515	cnv_HOMER1	cnv	HOMER1	YES	44
515	meth_CD34	meth	CD34	YES	57
517	stv_BRCA2	stv	BRCA2	YES	58
518	mrna_WFS1	mrna	WFS1	YES	45
519	cnv_LHCGR	cnv	LHCGR	YES	32
520	cnv_PFDN5	cnv	PFDN5	YES	13
520	meth_ADCY4	meth	ADCY4	YES	31
521	meth_EDN3	meth	EDN3	YES	36
521	meth_ITGAM	meth	ITGAM	YES	26
522	meth_KLHL17	meth	KLHL17	YES	19
522	stv_FAM129A	stv	FAM129A	YES	12

523	cnv_ZNF366	cnv	ZNF366	YES	12
524	cnv_EGR1	cnv	EGR1	YES	69
525	meth_OVGP1	meth	OVGP1	YES	15
527	cnv_CMYA5	cnv	CMYA5	YES	8
527	stv_SAMD4A	stv	SAMD4A	YES	19
528	cnv_TESPA1	cnv	TESPA1	YES	9
529	meth_KIRREL2	meth	KIRREL2	YES	9
530	meth_RBM38	meth	RBM38	YES	17
531	cnv_FOXI1	cnv	FOXI1	YES	19
531	meth_ULK1	meth	ULK1	YES	42
532	mrna_PLCG2	mrna	PLCG2	YES	36
533	cnv_PCDHGC5	cnv	PCDHGC5	YES	11
533	mrna_COL9A3	mrna	COL9A3	YES	10
534	meth_ATP8A2	meth	ATP8A2	YES	35
535	meth_CBX2	meth	CBX2	YES	17
536	cnv_CYP26B1	cnv	CYP26B1	YES	39
536	cnv_KRT6C	cnv	KRT6C	YES	9
537	mirna_MIR106B	mirna	MIR106B	YES	5
537	stv_DDR1	stv	DDR1	YES	43
539	meth_COL1A2	meth	COL1A2	YES	33
539	mrna_CELSR1	mrna	CELSR1	YES	36
540	meth_CHI3L1	meth	CHI3L1	YES	29
541	cnv_WNT8A	cnv	WNT8A	YES	24
541	mrna_GPC2	mrna	GPC2	YES	19
542	mrna_MAP2	mrna	MAP2	YES	32
542	stv_DDHD2	stv	DDHD2	YES	20
543	mirna_MIR449A	mirna	MIR449A	NO	0
544	meth_G6PC	meth	G6PC	YES	26
545	mirna_MIR130A	mirna	MIR130A	YES	1
546	mrna_SOD2	mrna	SOD2	YES	84
547	mrna_ESR1	mrna	ESR1	YES	86
549	meth_FGG	meth	FGG	YES	50
549	mrna_MRPL2	mrna	MRPL2	YES	12
550	cnv_KRT71	cnv	KRT71	YES	12
550	stv_LPPR4	stv	LPPR4	NO	0
551	mrna_CSTB	mrna	CSTB	YES	21
551	stv_PMEL	stv	PMEL	YES	16
552	stv_PROM1	stv	PROM1	YES	26
553	meth_NFAM1	meth	NFAM1	YES	18
553	mrna_CTPS1	mrna	CTPS1	YES	17
554	stv_ASPA	stv	ASPA	YES	16
555	cnv_PCBD2	cnv	PCBD2	YES	12
556	meth_HTRA3	meth	HTRA3	YES	12
556	meth_LAMB3	meth	LAMB3	YES	14
557	meth_CDKL1	meth	CDKL1	YES	16
557	meth_COL17A1	meth	COL17A1	YES	17
558	mrna_LANCL2	mrna	LANCL2	YES	14
559	mrna_CDC123	mrna	CDC123	YES	8
559	stv_UBA7	stv	UBA7	YES	19
560	meth_GPA33	meth	GPA33	YES	6
560	stv_ENPP5	stv	ENPP5	YES	9
561	stv_OPCML	stv	OPCML	YES	9
562	meth_TMEM173	meth	TMEM173	YES	41
563	cnv_CSNK1G3	cnv	CSNK1G3	YES	16
563	mrna_KLF5	mrna	KLF5	YES	30
564	mrna_CDCA7	mrna	CDCA7	YES	8
565	stv_PEX5L	stv	PEX5L	YES	13
566	meth_CST4	meth	CST4	YES	11

567	mrna_PADI2	mrna	PADI2	YES	22
567	stv_ACTR1A	stv	ACTR1A	YES	25
568	meth_IL27	meth	IL27	YES	17
568	stv_ANAPC4	stv	ANAPC4	YES	19
569	stv_INTS7	stv	INTS7	YES	14
569	stv_SPINK5	stv	SPINK5	YES	27
570	stv_SLCO4C1	stv	SLCO4C1	YES	17
571	mrna_IFNAR2	mrna	IFNAR2	YES	20
572	stv_C14orf169	stv	C14orf169	NO	0
574	stv_CKS1B	stv	CKS1B	YES	17
574	stv_LRSAM1	stv	LRSAM1	YES	22
575	cnv_HAVCR2	cnv	HAVCR2	YES	54
575	mrna_CDC25A	mrna	CDC25A	YES	25
576	cnv_NPFF	cnv	NPFF	YES	27
577	cnv_SAR1B	cnv	SAR1B	YES	26
577	meth_NOD2	meth	NOD2	YES	104
578	mrna_LCT	mrna	LCT	YES	16
579	stv_PLOD2	stv	PLOD2	YES	17
580	mrna_APBA2	mrna	APBA2	YES	12
580	mrna_SKP1	mrna	SKP1	YES	33
581	cnv_SPR	cnv	SPR	YES	14
582	cnv_SPTBN1	cnv	SPTBN1	YES	43
583	mrna_ST8SIA1	mrna	ST8SIA1	YES	16
583	mrna_KLK7	mrna	KLK7	YES	12
584	stv_MAP3K1	stv	MAP3K1	YES	38
585	cnv_COX7C	cnv	COX7C	YES	9
587	meth_GATA2	meth	GATA2	YES	68
588	stv_VAMP3	stv	VAMP3	YES	44
589	mrna_SKP2	mrna	SKP2	YES	27
591	cnv_ARHGEF37	cnv	ARHGEF37	YES	6
591	meth_DPM1	meth	DPM1	YES	21
592	cnv_IL9	cnv	IL9	YES	11
593	meth_DYRK3	meth	DYRK3	YES	25
594	stv_NMT2	stv	NMT2	YES	14
595	mrna_TNFRSF21	mrna	TNFRSF21	YES	34
596	cnv_AAAS	cnv	AAAS	YES	27
596	stv_TSPYL2	stv	TSPYL2	YES	20
597	cnv_CKMT2	cnv	CKMT2	YES	13
598	stv_IL17RE	stv	IL17RE	YES	11
599	meth_CYTL1	meth	CYTL1	YES	10
600	stv_AUP1	stv	AUP1	YES	13
601	cnv_FNIP1	cnv	FNIP1	YES	18
601	stv_TCFL5	stv	TCFL5	YES	16
603	meth_MRPL33	meth	MRPL33	YES	10
604	mrna_LRTOMT	mrna	LRTOMT	YES	17
605	stv_KMT2D	stv	KMT2D	YES	26
606	stv_DYRK3	stv	DYRK3	YES	25
607	meth_LY6D	meth	LY6D	YES	9
607	mrna_GREB1	mrna	GREB1	YES	3
609	meth_CD22	meth	CD22	YES	7
610	meth_RORC	meth	RORC	YES	35
610	mrna_RBM38	mrna	RBM38	YES	17
611	meth_FOXH1	meth	FOXH1	YES	46
611	stv_PSMA5	stv	PSMA5	YES	44
612	mirna_MIR31	mirna	MIR31	YES	6
612	mrna_CTSV	mrna	CTSV	YES	42
613	cnv_MEIS1	cnv	MEIS1	YES	25
613	meth_TLX1	meth	TLX1	YES	14

614	meth_ATP8B1	meth	ATP8B1	YES	33
614	mrna_TMOD1	mrna	TMOD1	YES	20
615	cnv_SPARC	cnv	SPARC	YES	47
615	meth_ST8SIA1	meth	ST8SIA1	YES	16
616	meth_INHBE	meth	INHBE	YES	11
616	mrna_CHRD	mrna	CHRD	YES	22
617	mrna_LSR	mrna	LSR	YES	13
619	mrna_SLC6A14	mrna	SLC6A14	YES	18
620	cnv_MEF2C	cnv	MEF2C	YES	141
621	meth_ICAM2	meth	ICAM2	YES	14
621	meth_XRCC3	meth	XRCC3	YES	39
622	mrna_SFT2D2	mrna	SFT2D2	YES	8
622	stv_DLC1	stv	DLC1	YES	34
623	meth_FOLH1	meth	FOLH1	YES	22
623	stv_NPR3	stv	NPR3	YES	26
625	mirna_LET7D	mirna	LET7D	NO	0
627	stv_ALAS2	stv	ALAS2	YES	22
627	stv_F2R	stv	F2R	YES	70
628	meth_IL5RA	meth	IL5RA	YES	20
629	stv_LPCAT1	stv	LPCAT1	YES	32
630	stv_ATPIF1	stv	ATPIF1	YES	26
631	cnv_CSRNP2	cnv	CSRNP2	YES	13
632	meth_CPD	meth	CPD	YES	16
633	mrna_LYN	mrna	LYN	YES	134
633	stv_KIF12	stv	KIF12	YES	15
634	meth_NOL3	meth	NOL3	YES	44
634	stv_PPP1CC	stv	PPP1CC	YES	46
635	stv_ASIC2	stv	ASIC2	YES	41
635	stv_TP53	stv	TP53	YES	144
636	cnv_GM2A	cnv	GM2A	YES	31
638	meth_DMBT1	meth	DMBT1	YES	27
639	mrna_LPIN1	mrna	LPIN1	YES	35
640	mrna_TSPAN33	mrna	TSPAN33	YES	10
641	cnv_CD14	cnv	CD14	YES	60
642	cnv_IRF1	cnv	IRF1	YES	41
642	stv_COX6C	stv	COX6C	YES	8
643	mrna_MELK	mrna	MELK	YES	30
645	stv_RCC1	stv	RCC1	YES	28
646	cnv_BCL11A	cnv	BCL11A	YES	23
646	cnv_CNOT8	cnv	CNOT8	YES	30
647	mrna_CIRBP	mrna	CIRBP	YES	17
648	meth_ETV3	meth	ETV3	YES	20
648	mrna_IFT140	mrna	IFT140	YES	35
650	cnv_MCIDAS	cnv	MCIDAS	YES	17
650	mrna_CHI3L1	mrna	CHI3L1	YES	29
653	meth_GPR180	meth	GPR180	YES	5
653	mirna_MIR34C	mirna	MIR34C	YES	5
654	cnv_CSF2	cnv	CSF2	YES	38
654	mrna_MSN	mrna	MSN	YES	57
657	stv_MDM4	stv	MDM4	YES	22
657	stv_NUP133	stv	NUP133	YES	40
658	cnv_CDC25C	cnv	CDC25C	YES	27
658	mrna_SH2B2	mrna	SH2B2	YES	26
659	meth_SNX4	meth	SNX4	YES	22
659	stv_AREG	stv	AREG	YES	38
660	mirna_MIR203A	mirna	MIR203A	NO	0
661	meth_IL1R2	meth	IL1R2	YES	15
662	meth_SNRPD1	meth	SNRPD1	YES	30

664	meth_SLC44A4	meth	SLC44A4	YES	16
664	mrna_TAF5	mrna	TAF5	YES	22
665	mrna_EGFR	mrna	EGFR	YES	176
665	stv_INSR	stv	INSR	YES	79
666	cnv_TCF7	cnv	TCF7	YES	30
667	cnv_DYSF	cnv	DYSF	YES	23
667	stv_MMP21	stv	MMP21	YES	13
668	meth_S1PR4	meth	S1PR4	YES	15
668	stv_BCL9	stv	BCL9	YES	15
672	cnv_PURA	cnv	PURA	YES	29
673	cnv_PFDN1	cnv	PFDN1	YES	12
673	meth_SH2B2	meth	SH2B2	YES	26
674	stv_APLP2	stv	APLP2	YES	22
674	stv_KRT3	stv	KRT3	YES	9
675	cnv_ZNF385A	cnv	ZNF385A	YES	34
675	mrna_KDM4B	mrna	KDM4B	YES	17
676	stv_ARHGAP5	stv	ARHGAP5	YES	20
677	mrna_XPO5	mrna	XPO5	YES	25
677	mrna_COL26A1	mrna	COL26A1	YES	12
678	cnv_FAIM2	cnv	FAIM2	YES	20
678	stv_TICAM1	stv	TICAM1	YES	43
679	meth_SOX11	meth	SOX11	YES	66
680	meth_C1QC	meth	C1QC	YES	15
681	cnv_CD180	cnv	CD180	YES	12
682	cnv_CDO1	cnv	CDO1	YES	23
683	cnv_H1FNT	cnv	H1FNT	YES	12
683	meth_AHSG	meth	AHSG	YES	28
684	cnv_PELI1	cnv	PELI1	YES	29
685	meth_LMF1	meth	LMF1	YES	15
686	cnv_IL12B	cnv	IL12B	YES	75
686	cnv_PTTG1	cnv	PTTG1	YES	25
687	meth_TPM3	meth	TPM3	YES	21
687	stv_RTN3	stv	RTN3	YES	16
688	stv_ARAP3	stv	ARAP3	YES	24
690	mrna_PELI1	mrna	PELI1	YES	29
690	stv_PLD1	stv	PLD1	YES	30
691	cnv_HARS	cnv	HARS	YES	12
691	meth_CAMK4	meth	CAMK4	YES	29
692	cnv_OTP	cnv	OTP	YES	12
692	meth_GALNT1	meth	GALNT1	YES	19
693	cnv_FANCL	cnv	FANCL	YES	20
693	cnv_UBE2B	cnv	UBE2B	YES	49
694	meth_VIM	meth	VIM	YES	32
695	mrna_TNIP3	mrna	TNIP3	YES	12
695	mrna_TIMM8A	mrna	TIMM8A	YES	10
696	meth_HOXA7	meth	HOXA7	YES	24
697	mrna_BUB1	mrna	BUB1	YES	31
698	stv_EDA2R	stv	EDA2R	YES	18
698	stv_SSRP1	stv	SSRP1	YES	16
699	meth_MUC1	meth	MUC1	YES	32
700	meth_RNF2	meth	RNF2	YES	31
700	meth_SLC16A3	meth	SLC16A3	YES	17
702	cnv_ESPL1	cnv	ESPL1	YES	24
702	stv_PAQR8	stv	PAQR8	YES	12
703	cnv_MXD1	cnv	MXD1	YES	18
705	cnv_ARHGAP25	cnv	ARHGAP25	YES	6
706	mrna_RIPK2	mrna	RIPK2	YES	82
707	meth_RARA	meth	RARA	YES	105

707	mrna_PPP1CB	mrna	PPP1CB	YES	33
708	meth_MAG	meth	MAG	YES	32
709	meth_CDYL	meth	CDYL	YES	20
710	mrna_TCF7L1	mrna	TCF7L1	YES	26
710	stv_ASCC2	stv	ASCC2	YES	6
711	stv_BANP	stv	BANP	YES	15
712	cnv_ASPRV1	cnv	ASPRV1	YES	8
712	stv_KDM3A	stv	KDM3A	YES	35
713	cnv_NMUR2	cnv	NMUR2	YES	31
713	stv_NPAT	stv	NPAT	YES	17
714	stv_THRAP3	stv	THRAP3	YES	35
716	meth_CD93	meth	CD93	YES	21
717	mrna_KLK5	mrna	KLK5	YES	15
717	stv_NPSR1	stv	NPSR1	YES	13
719	cnv_SERTAD2	cnv	SERTAD2	YES	9
720	meth_TDRD5	meth	TDRD5	YES	9
721	mirna_MIR18B	mirna	MIR18B	YES	3
724	cnv_SRP19	cnv	SRP19	YES	14
724	mrna_CHST2	mrna	CHST2	YES	15
726	mrna_HMGA2	mrna	HMGA2	YES	87
726	mrna_SLC38A3	mrna	SLC38A3	YES	28
727	meth_POU3F3	meth	POU3F3	YES	28
727	stv_PARK2	stv	PARK2	YES	40
728	cnv_GFM2	cnv	GFM2	YES	12
728	meth_EIF5A2	meth	EIF5A2	YES	24
729	cnv_HOXC9	cnv	HOXC9	YES	12
730	stv_PJA2	stv	PJA2	YES	22
731	meth_KRT33B	meth	KRT33B	YES	10
732	mrna_CXXC5	mrna	CXXC5	YES	15
734	meth_RRM2	meth	RRM2	YES	20
734	stv_PADI4	stv	PADI4	YES	27
735	mrna_TUBB	mrna	TUBB	YES	37
736	cnv_SLC38A9	cnv	SLC38A9	YES	19
737	meth_LMO3	meth	LMO3	YES	9
737	mrna_ARHGEF9	mrna	ARHGEF9	YES	12
738	cnv_RPS14	cnv	RPS14	YES	29
740	cnv_EFEMP1	cnv	EFEMP1	YES	18
741	meth_GCNT2	meth	GCNT2	YES	22
742	meth_CARD9	meth	CARD9	YES	29
743	meth_SHC3	meth	SHC3	YES	19
744	cnv_GTF2A1L	cnv	GTF2A1L	YES	11
744	meth_SLAMF8	meth	SLAMF8	YES	8
745	cnv_APC	cnv	APC	YES	87
746	mrna_SLC22A5	mrna	SLC22A5	YES	33
750	meth_AIP	meth	AIP	YES	24
750	meth_MAS1	meth	MAS1	YES	33
751	stv_MEFV	stv	MEFV	YES	29
752	mrna_AIF1L	mrna	AIF1L	YES	15
753	mirna_MIR10B	mirna	MIR10B	YES	2
753	mrna_FOXM1	mrna	FOXM1	YES	38
754	stv_HRH3	stv	HRH3	YES	26
755	cnv_ARHGEF28	cnv	ARHGEF28	YES	13
755	cnv_WWC1	cnv	WWC1	YES	25
756	mrna_PDE9A	mrna	PDE9A	YES	23
756	stv_RNF114	stv	RNF114	YES	16
757	mrna_APBB2	mrna	APBB2	YES	18
759	mrna_MCM10	mrna	MCM10	YES	16
760	meth_SLC2A5	meth	SLC2A5	YES	27

761	meth_BRCA2	meth	BRCA2	YES	58
762	cnv_VCAN	cnv	VCAN	YES	27
762	mirna_MIR24	mirna	MIR24	NO	0
763	meth_RASSF1	meth	RASSF1	YES	19
764	meth_CPSF3	meth	CPSF3	YES	21
765	mrna_TAF4B	mrna	TAF4B	YES	24
766	mrna_MURC	mrna	MURC	YES	6
767	mrna_NXN	mrna	NXN	YES	16
768	mrna_RAB6C	mrna	RAB6C	YES	18
769	cnv_TCOF1	cnv	TCOF1	YES	14
770	cnv_PCDHGC3	cnv	PCDHGC3	YES	11
770	stv_MAP3K12	stv	MAP3K12	YES	29
771	mrna_BCL2	mrna	BCL2	YES	173
772	meth_FLT4	meth	FLT4	YES	49
773	meth_B3GNT5	meth	B3GNT5	YES	17
773	mrna_TICRR	mrna	TICRR	YES	13
774	stv_CD24	stv	CD24	YES	1
775	meth_APIP	meth	APIP	YES	16
775	meth_CASP8	meth	CASP8	YES	72
776	meth_HPX	meth	HPX	YES	21
776	stv_IQGAP1	stv	IQGAP1	YES	66
777	cnv_KRT6B	cnv	KRT6B	YES	11
779	mirna_MIR1915	mirna	MIR1915	NO	0
780	cnv_STAMBP	cnv	STAMBP	YES	25
781	cnv_HINT1	cnv	HINT1	YES	18
781	stv_GFRAL	stv	GFRAL	YES	7
782	cnv_FBXL21	cnv	FBXL21	NO	0
782	stv_GTF2I	stv	GTF2I	YES	20
783	meth_ASF1A	meth	ASF1A	YES	18
785	mrna_CHST3	mrna	CHST3	YES	12
785	stv_TRDN	stv	TRDN	YES	35
786	mrna_PSMB2	mrna	PSMB2	YES	43
786	mrna_RGMA	mrna	RGMA	YES	24
787	cnv_SPATA24	cnv	SPATA24	YES	13
787	mrna_DEK	mrna	DEK	YES	16
788	mirna_MIR20A	mirna	MIR20A	YES	13
789	stv_BMPER	stv	BMPER	YES	11
790	cnv_NDST1	cnv	NDST1	YES	35
791	cnv_PNPT1	cnv	PNPT1	YES	53
791	stv_GALNT2	stv	GALNT2	YES	24
792	cnv_STC2	cnv	STC2	YES	26
792	meth_CHAC1	meth	CHAC1	YES	19
793	meth_TSPAN1	meth	TSPAN1	YES	19
794	mrna_TP53BP2	mrna	TP53BP2	YES	21
795	mirna_MIR137	mirna	MIR137	YES	7
796	meth_RECK	meth	RECK	YES	17
796	stv_NTMT1	stv	NTMT1	YES	20
797	cnv_GFRA3	cnv	GFRA3	YES	19
799	mrna_FRS2	mrna	FRS2	YES	45
799	stv_TFPI2	stv	TFPI2	YES	11
800	meth_CEBPE	meth	CEBPE	YES	22
800	stv_ZP3	stv	ZP3	YES	51
801	cnv_UTP15	cnv	UTP15	YES	14
801	mrna_GLS	mrna	GLS	YES	18
803	meth_SPP2	meth	SPP2	YES	11
803	stv_HDAC9	stv	HDAC9	YES	37
805	cnv_DHFR	cnv	DHFR	YES	32
805	meth_IL1A	meth	IL1A	YES	34

806	cnv_HOXC4	cnv	HOXC4	YES	17
806	meth_LRPAP1	meth	LRPAP1	YES	31
807	cnv_LIX1	cnv	LIX1	YES	2
807	cnv_UBE2D2	cnv	UBE2D2	YES	22
808	cnv_CHD1	cnv	CHD1	YES	18
808	stv_TMC4	stv	TMC4	YES	5
809	meth_IHH	meth	IHH	YES	66
812	meth_RAPGEF1	meth	RAPGEF1	YES	37
813	mrna_LMO4	mrna	LMO4	YES	22
814	stv_OXSR1	stv	OXSR1	YES	29
815	cnv_ITGB7	cnv	ITGB7	YES	26
815	mrna_EZH2	mrna	EZH2	YES	69
816	cnv_ETF1	cnv	ETF1	YES	17
817	cnv_PHAX	cnv	PHAX	YES	15
818	cnv_HOXC5	cnv	HOXC5	YES	12
819	stv_APOM	stv	APOM	YES	25
820	cnv_SLIT3	cnv	SLIT3	YES	20
821	meth_APOA5	meth	APOA5	YES	49
822	mirna_MIR210	mirna	MIR210	YES	3
823	meth_TBX21	meth	TBX21	YES	18
824	stv_ALDH7A1	stv	ALDH7A1	YES	19
825	meth_MS4A1	meth	MS4A1	YES	13
825	stv_MSH4	stv	MSH4	YES	19
826	meth_DYSF	meth	DYSF	YES	23
826	stv_ZNF521	stv	ZNF521	YES	10
827	stv_TREH	stv	TREH	YES	13
828	cnv_LARP1	cnv	LARP1	YES	27
829	meth_CADPS2	meth	CADPS2	YES	20
830	meth_GJC1	meth	GJC1	YES	27
831	cnv_RELL2	cnv	RELL2	YES	8
831	meth_THBS1	meth	THBS1	YES	99
833	cnv_SP7	cnv	SP7	YES	17
833	meth_TAL2	meth	TAL2	YES	13
834	meth_BVES	meth	BVES	YES	25
834	mrna_FOLH1	mrna	FOLH1	YES	22
836	cnv_PPP2R2B	cnv	PPP2R2B	YES	17
836	cnv_XRCC4	cnv	XRCC4	YES	32
837	mrna_TBX19	mrna	TBX19	YES	16
838	mrna_SPTBN4	mrna	SPTBN4	YES	51
839	meth_NUAK1	meth	NUAK1	YES	24
840	meth_TNFRSF13B	meth	TNFRSF13B	YES	14
842	cnv_DCD	cnv	DCD	YES	12
844	mirna_MIR130B	mirna	MIR130B	YES	1
844	stv_COL10A1	stv	COL10A1	YES	13
845	meth_DMRT2	meth	DMRT2	YES	18
846	mrna_ARHGAP21	mrna	ARHGAP21	YES	20
847	stv_MAPKAP1	stv	MAPKAP1	YES	26
848	cnv_DGUOK	cnv	DGUOK	YES	21
848	stv_COMT	stv	COMT	YES	43
849	cnv_BHMT	cnv	BHMT	YES	17
849	meth_KRT6A	meth	KRT6A	YES	21
850	cnv_DPYSL3	cnv	DPYSL3	YES	27
851	cnv_KRT72	cnv	KRT72	YES	10
851	meth_MRPS26	meth	MRPS26	YES	11
852	mirna_MIR129	mirna	MIR129	NO	0
852	mrna_SOX6	mrna	SOX6	YES	38
853	meth_EPHA5	meth	EPHA5	YES	39
855	cnv_RARG	cnv	RARG	YES	62

856	meth_TBX19	meth	TBX19	YES	16
857	cnv_PDE8B	cnv	PDE8B	YES	14
857	cnv_PIK3R1	cnv	PIK3R1	YES	80
858	cnv_TAF7	cnv	TAF7	YES	36
859	cnv_PRDM6	cnv	PRDM6	YES	15
860	cnv_RASGRF2	cnv	RASGRF2	YES	18
860	mrna_CXCL10	mrna	CXCL10	YES	49
861	cnv_STK32A	cnv	STK32A	YES	14
861	mrna_ENO1	mrna	ENO1	YES	37
862	meth_FABP3	meth	FABP3	YES	28
863	cnv_TET3	cnv	TET3	YES	18
863	stv_TUBB3	stv	TUBB3	YES	18
864	meth_ISL2	meth	ISL2	YES	14
865	meth_PAPSS2	meth	PAPSS2	YES	16
865	mrna_MCF2L2	mrna	MCF2L2	YES	4
866	meth_MYF6	meth	MYF6	YES	30
867	meth_KRT16	meth	KRT16	YES	23
867	stv_COL5A2	stv	COL5A2	YES	20
869	cnv_SMN1	cnv	SMN1	YES	23
869	meth_HCLS1	meth	HCLS1	YES	33
870	cnv_CKS1B.ENSG00000268942.1	cnv	CKS1B.ENSG00000268942.1	NO	0
873	mrna_RAP2A	mrna	RAP2A	YES	27
874	meth_ZSCAN21	meth	ZSCAN21	YES	13
874	mrna_STK38	mrna	STK38	YES	20
876	cnv_TARBP2	cnv	TARBP2	YES	36
877	meth_ZMIZ1	meth	ZMIZ1	YES	20
881	mrna_IL1R2	mrna	IL1R2	YES	15
884	cnv_EMX1	cnv	EMX1	YES	23
885	cnv_PSD2	cnv	PSD2	YES	12
885	mrna_SIX3	mrna	SIX3	YES	50
887	cnv_PGGT1B	cnv	PGGT1B	YES	16
888	meth_PRKCDBP	meth	PRKCDBP	YES	2
890	cnv_SERINC5	cnv	SERINC5	YES	25
890	stv_PIGR	stv	PIGR	YES	17
893	cnv_KDM3B	cnv	KDM3B	YES	18
893	meth_CLEC14A	meth	CLEC14A	YES	7
894	mrna_LRP8	mrna	LRP8	YES	41
895	cnv_RASA1	cnv	RASA1	YES	30
895	mrna_SIAH2	mrna	SIAH2	YES	32
896	cnv_RBM22	cnv	RBM22	YES	26
897	stv_KRT81	stv	KRT81	YES	8
898	meth_SFRP2	meth	SFRP2	YES	82
899	cnv_ITK	cnv	ITK	YES	33
899	stv_SLC5A5	stv	SLC5A5	YES	20
900	meth_OTOGL	meth	OTOGL	YES	4
900	mrna_UCHL1	mrna	UCHL1	YES	42
901	meth_SCOC	meth	SCOC	YES	11
901	mrna_KLK8	mrna	KLK8	YES	19
904	meth_NFYB	meth	NFYB	YES	19
905	meth_ADORA1	meth	ADORA1	YES	79
907	cnv_SLC36A3	cnv	SLC36A3	YES	13
908	meth_CST11	meth	CST11	YES	14
908	mrna_HDGF	mrna	HDGF	YES	19
909	meth_PHF20	meth	PHF20	YES	24
911	mrna_OXER1	mrna	OXER1	YES	11
912	meth_PREX1	meth	PREX1	YES	33
913	stv_ZIC1	stv	ZIC1	YES	26
915	stv_PCDH11X	stv	PCDH11X	YES	9

918	cnv_RPS23	cnv	RPS23	YES	21
918	mrna_C5AR2	mrna	C5AR2	YES	24
919	meth_HAMP	meth	HAMP	YES	30
921	stv_INO80E	stv	INO80E	YES	12
923	meth_SOX21	meth	SOX21	YES	16
924	meth_ATP6V1B1	meth	ATP6V1B1	YES	35
925	cnv_LOX	cnv	LOX	YES	25
926	mrna_TRDMT1	mrna	TRDMT1	YES	13
926	mrna_ACTR3B	mrna	ACTR3B	YES	12
928	meth_TOB1	meth	TOB1	YES	19
929	mirna_MIR17	mirna	MIR17	YES	17
932	meth_INA	meth	INA	YES	17
933	meth_MSX2	meth	MSX2	YES	62
934	stv_TNKS2	stv	TNKS2	YES	30
936	cnv_PTCD2	cnv	PTCD2	YES	11
938	cnv_FOXN2	cnv	FOXN2	YES	11
938	stv_ADAMTS18	stv	ADAMTS18	YES	12
939	cnv_RAD50	cnv	RAD50	YES	53
939	meth_CDK2	meth	CDK2	YES	63
940	meth_CHST2	meth	CHST2	YES	15
940	mrna_AK8	mrna	AK8	YES	21
941	meth_FLRT1	meth	FLRT1	YES	32
941	stv_RXRG	stv	RXRG	YES	22
942	mrna_NFIB	mrna	NFIB	YES	33
943	cnv_GABRB2	cnv	GABRB2	YES	38
944	meth_AFF3	meth	AFF3	YES	10
944	meth_NPTN	meth	NPTN	YES	30
946	mrna_POU5F1	mrna	POU5F1	YES	35
947	cnv_DOCK2	cnv	DOCK2	YES	33
947	cnv_SMARCD1	cnv	SMARCD1	YES	19
948	meth_INS	meth	INS	YES	84
949	stv_CNTN2	stv	CNTN2	YES	39
950	cnv_IL31RA	cnv	IL31RA	YES	32
950	stv_GP6	stv	GP6	YES	16
951	cnv_CXCL14	cnv	CXCL14	YES	14
952	cnv_F2RL2	cnv	F2RL2	YES	21
953	meth_RASGRF2	meth	RASGRF2	YES	18
953	stv_PAQR3	stv	PAQR3	YES	11
954	cnv_NDFIP1	cnv	NDFIP1	YES	35
954	mrna_FANCA	mrna	FANCA	YES	17
955	cnv_DDX4	cnv	DDX4	YES	22
956	meth_FANCA	meth	FANCA	YES	17
956	mrna_CCNE1	mrna	CCNE1	YES	27
957	mrna_NCOA7	mrna	NCOA7	YES	11
957	mrna_B3GNT5	mrna	B3GNT5	YES	17
960	mrna_IGF2BP3	mrna	IGF2BP3	YES	17
963	cnv_LNPEP	cnv	LNPEP	YES	31
964	mrna_MTHFD1L	mrna	MTHFD1L	YES	22
965	meth_CASP2	meth	CASP2	YES	35
966	mrna_IDO1	mrna	IDO1	YES	31
967	stv_ATP1B4	stv	ATP1B4	YES	16
968	cnv_SPINK1	cnv	SPINK1	YES	16
968	cnv_THBS4	cnv	THBS4	YES	26
971	stv_TRPA1	stv	TRPA1	YES	30
972	cnv_PCBP2	cnv	PCBP2	YES	25
972	meth_F2RL1	meth	F2RL1	YES	68
973	meth_EXOSC2	meth	EXOSC2	YES	24
974	mrna_STMN1	mrna	STMN1	YES	32

975	cnv_ARSB	cnv	ARSB	YES	33
976	meth_FABP7	meth	FABP7	YES	20
979	mrna_FAM171A1	mrna	FAM171A1	YES	3
980	cnv_PSME4	cnv	PSME4	YES	43
980	stv_PROS1	stv	PROS1	YES	24
981	cnv_RARS	cnv	RARS	YES	20
981	meth_EPG5	meth	EPG5	YES	4
982	cnv_CBX5	cnv	CBX5	YES	27
982	meth_ONECUT2	meth	ONECUT2	YES	24
984	cnv_KIF3A	cnv	KIF3A	YES	65
984	mrna_ARNTL2	mrna	ARNTL2	YES	18
985	meth_CD9	meth	CD9	YES	31
988	stv_RBBP6	stv	RBBP6	YES	29
988	stv_TDRKH	stv	TDRKH	YES	15
989	mirna_MIR449B	mirna	MIR449B	NO	0
990	cnv_PCDH12	cnv	PCDH12	YES	15
991	stv_B3GNT5	stv	B3GNT5	YES	17
992	cnv_LCP2	cnv	LCP2	YES	15
992	mrna_PCP2	mrna	PCP2	YES	4
993	meth_LHX3	meth	LHX3	YES	29
994	meth_MBTD1	meth	MBTD1	YES	8
995	meth_NMUR1	meth	NMUR1	YES	20
996	meth_CD28	meth	CD28	YES	46
996	mrna_CDCA2	mrna	CDCA2	YES	8
997	meth_EOMES	meth	EOMES	YES	40
1000	cnv_IL13	cnv	IL13	YES	39
1001	mrna_GPRC5B	mrna	GPRC5B	YES	26
1002	cnv_TMEM173	cnv	TMEM173	YES	41
1003	cnv_SPOCK1	cnv	SPOCK1	YES	22
1003	meth_SLC5A1	meth	SLC5A1	YES	21
1004	meth_RUNX3	meth	RUNX3	YES	28
1007	cnv_ARRDC3	cnv	ARRDC3	YES	16
1008	cnv_CAMK4	cnv	CAMK4	YES	29
1008	cnv_HOXC8	cnv	HOXC8	YES	13
1009	mrna_HOXA1	mrna	HOXA1	YES	37
1011	meth_CRYAB	meth	CRYAB	YES	58
1012	mrna_NOP2	mrna	NOP2	YES	18
1013	meth_SMAP1	meth	SMAP1	YES	9
1014	stv_ZNF536	stv	ZNF536	YES	14
1015	mrna_MKL2	mrna	MKL2	YES	22
1016	cnv_ADRA1B	cnv	ADRA1B	YES	32
1016	stv_RAD23A	stv	RAD23A	YES	24
1018	cnv_KRT74	cnv	KRT74	YES	10
1018	stv_CD4	stv	CD4	YES	71
1019	mrna_FOXC1	mrna	FOXC1	YES	77
1021	meth_BNIP3	meth	BNIP3	YES	65
1022	cnv_KRT75	cnv	KRT75	YES	9
1022	mrna_SUOX	mrna	SUOX	YES	16
1023	cnv_AGGF1	cnv	AGGF1	YES	12
1024	cnv_TBCA	cnv	TBCA	YES	13
1026	meth_SERPINA12	meth	SERPINA12	YES	13
1027	cnv_CYSTM1	cnv	CYSTM1	YES	8
1027	mrna_TRIM23	mrna	TRIM23	YES	26
1029	meth_CLCA1	meth	CLCA1	YES	24
1029	mrna_SLC7A8	mrna	SLC7A8	YES	27
1030	mrna_RASD2	mrna	RASD2	YES	21
1031	cnv_CDC23	cnv	CDC23	YES	22
1031	cnv_SPINK13	cnv	SPINK13	YES	9

1032	meth_C8G	meth	C8G	YES	15
1034	stv_PXN	stv	PXN	YES	32
1034	stv_SOAT1	stv	SOAT1	YES	23
1036	stv_COL6A6	stv	COL6A6	YES	7
1036	stv_LTBP4	stv	LTBP4	YES	21
1037	cnv_HOXC13	cnv	HOXC13	YES	16
1037	cnv_IQGAP2	cnv	IQGAP2	YES	25
1039	mrna_ST3GAL6	mrna	ST3GAL6	YES	18
1040	stv_MAP2K4	stv	MAP2K4	YES	43
1041	cnv_MDH1	cnv	MDH1	YES	24
1045	meth_TGFBR1	meth	TGFBR1	YES	112
1046	mrna_PRSS12	mrna	PRSS12	YES	18
1047	meth_DNAJC15	meth	DNAJC15	YES	11
1047	stv_CRYM	stv	CRYM	YES	21
1048	cnv_JMY	cnv	JMY	YES	20
1048	stv_MKNK1	stv	MKNK1	YES	21
1049	meth_CD200R1	meth	CD200R1	YES	10
1049	mrna_S100B	mrna	S100B	YES	37
1051	cnv_SLC12A2	cnv	SLC12A2	YES	29
1052	meth_AKR1B1	meth	AKR1B1	YES	43
1052	stv_FCGRT	stv	FCGRT	YES	12
1053	stv_PMEPA1	stv	PMEPA1	YES	17
1054	stv_NFATC4	stv	NFATC4	YES	42
1055	meth_ADIG	meth	ADIG	YES	10
1055	mrna_RGS20	mrna	RGS20	YES	11
1056	mrna_MAP3K12	mrna	MAP3K12	YES	29
1058	meth_RLBP1	meth	RLBP1	YES	14
1059	cnv_SLC26A2	cnv	SLC26A2	YES	23
1059	mrna_RARRES1	mrna	RARRES1	YES	4
1060	meth_UMOD	meth	UMOD	YES	30
1060	stv_AQP2	stv	AQP2	YES	50
1065	stv_SIX3	stv	SIX3	YES	50
1066	cnv_KRT3	cnv	KRT3	YES	9
1066	meth_CHCHD4	meth	CHCHD4	YES	11
1068	cnv_MAP3K12	cnv	MAP3K12	YES	29
1068	cnv_PCDHA10	cnv	PCDHA10	YES	10
1069	mrna_NRTN	mrna	NRTN	YES	14
1071	stv_DOCK6	stv	DOCK6	YES	8
1072	meth_CORIN	meth	CORIN	YES	18
1073	cnv_POLR3G	cnv	POLR3G	YES	15
1074	mrna_CYP39A1	mrna	CYP39A1	YES	22
1075	meth_FLT1	meth	FLT1	YES	50
1077	mrna_TTK	mrna	TTK	YES	32
1078	stv_KIF27	stv	KIF27	YES	16
1079	mrna_ZNF396	mrna	ZNF396	YES	8
1081	cnv_RNF14	cnv	RNF14	YES	24
1081	stv_IGSF8	stv	IGSF8	YES	10
1083	cnv_DPY30	cnv	DPY30	YES	20
1084	meth_SPDEF	meth	SPDEF	YES	17
1085	stv_ABLIM1	stv	ABLIM1	YES	13
1088	meth_TFF1	meth	TFF1	YES	13
1088	mrna_ATP6V1C2	mrna	ATP6V1C2	YES	19
1089	meth_PPP1CC	meth	PPP1CC	YES	46
1089	stv_CYP2B6	stv	CYP2B6	YES	22
1090	mrna_FOXL1	mrna	FOXL1	YES	19
1091	cnv_FAT2	cnv	FAT2	YES	11
1092	mrna_EVL	mrna	EVL	YES	23
1093	cnv_MAP1B	cnv	MAP1B	YES	26

1097	mrna_WNT6	mrna	WNT6	YES	26
1100	mirna_MIR26B	mirna	MIR26B	YES	1
1103	cnv_LACRT	cnv	LACRT	YES	26
1104	mirna_MIR24	mirna	MIR24	NO	0
1105	mrna_PAPD7	mrna	PAPD7	YES	17
1106	mrna_GBP1	mrna	GBP1	YES	31
1107	meth_BGLAP	meth	BGLAP	YES	50
1110	cnv_CARTPT	cnv	CARTPT	YES	26
1111	stv_YY1AP1	stv	YY1AP1	YES	12
1116	cnv_WDR36	cnv	WDR36	YES	14
1118	cnv_GFPT1	cnv	GFPT1	YES	24
1121	stv_LECT1	stv	LECT1	YES	10
1122	stv_FNTB	stv	FNTB	YES	27
1123	cnv_LRRTM2	cnv	LRRTM2	YES	12
1123	cnv_NAT8	cnv	NAT8	YES	20
1124	meth_GPLD1	meth	GPLD1	YES	43
1125	meth_CD38	meth	CD38	YES	38
1127	mrna_RALGPS2	mrna	RALGPS2	YES	8
1128	cnv_PEX13	cnv	PEX13	YES	16
1129	meth_ENPP2	meth	ENPP2	YES	37
1129	mrna_DOK5	mrna	DOK5	YES	8
1130	meth_MRPS27	meth	MRPS27	YES	7
1130	meth_RGL1	meth	RGL1	YES	10
1132	cnv_SH3TC2	cnv	SH3TC2	YES	8
1133	meth_GAL	meth	GAL	YES	33
1136	cnv_TSSK1B	cnv	TSSK1B	YES	22
1143	cnv_HOXC12	cnv	HOXC12	YES	7
1144	stv_KRT6C	stv	KRT6C	YES	9
1145	cnv_MSH3	cnv	MSH3	YES	27
1145	meth_UGT1A10	meth	UGT1A10	YES	17
1146	stv_NFE2L1	stv	NFE2L1	YES	29
1147	cnv_HOXC6	cnv	HOXC6	YES	14
1150	cnv_EBF1	cnv	EBF1	YES	10
1152	cnv_KRT8	cnv	KRT8	YES	30
1152	stv_SELE	stv	SELE	YES	33
1153	stv_MTRR	stv	MTRR	YES	25
1155	meth_LRRC15	meth	LRRC15	YES	14
1155	meth_SLC5A12	meth	SLC5A12	YES	15
1156	mrna_KLK6	mrna	KLK6	YES	27
1157	cnv_TNIP1	cnv	TNIP1	YES	25
1158	stv_OMA1	stv	OMA1	YES	22
1159	stv_CLK3	stv	CLK3	YES	24
1160	cnv_PDE1B	cnv	PDE1B	YES	31
1162	stv_SPTBN4	stv	SPTBN4	YES	51
1163	mrna_AGTR1	mrna	AGTR1	YES	40
1164	meth_ARHGEF39	meth	ARHGEF39	YES	8
1165	cnv_KLHL3	cnv	KLHL3	YES	15
1166	cnv_REEP5	cnv	REEP5	YES	8
1167	meth_POLR3K	meth	POLR3K	YES	18
1168	meth_CREBBP	meth	CREBBP	YES	57
1170	cnv_IL4	cnv	IL4	YES	78
1172	mrna_SYTL4	mrna	SYTL4	YES	32
1173	cnv_ADD2	cnv	ADD2	YES	26
1174	meth_COL15A1	meth	COL15A1	YES	18
1174	meth_LPL	meth	LPL	YES	42
1177	stv_SMAD7	stv	SMAD7	YES	64
1178	stv_HLA.DPB1	stv	HLA.DPB1	NO	0
1179	mirna_MIR149	mirna	MIR149	NO	0

1181	cnv_HAND1	cnv	HAND1	YES	49
1182	mrna_CDC20	mrna	CDC20	YES	38
1183	stv_CDH1	stv	CDH1	YES	75
1183	stv_KIAA0922	stv	KIAA0922	YES	1
1184	cnv_FIGLA	cnv	FIGLA	YES	16
1184	mrna_DDN	mrna	DDN	YES	13
1186	cnv_POU4F3	cnv	POU4F3	YES	25
1188	mrna_PGGT1B	mrna	PGGT1B	YES	16
1189	meth_ABCG5	meth	ABCG5	YES	26
1190	meth_ELAVL4	meth	ELAVL4	YES	10
1192	meth_LAT	meth	LAT	YES	34
1193	meth_LHX1	meth	LHX1	YES	82
1194	mrna_KIF2C	mrna	KIF2C	YES	40
1196	cnv_HARS2	cnv	HARS2	YES	14
1200	stv_GZF1	stv	GZF1	YES	16
1201	meth_EPAS1	meth	EPAS1	YES	45
1203	cnv_NME5	cnv	NME5	YES	19
1203	mrna_MAPT	mrna	MAPT	YES	78
1205	mrna_FABP7	mrna	FABP7	YES	20
1206	mrna_INPP5J	mrna	INPP5J	YES	20
1207	cnv_FSHR	cnv	FSHR	YES	57
1207	stv_PLEKHG3	stv	PLEKHG3	YES	3
1208	mrna_COL11A2	mrna	COL11A2	YES	23
1210	meth_PDE4A	meth	PDE4A	YES	21
1210	mirna_LET7E	mirna	LET7E	NO	0
1212	cnv_PLK2	cnv	PLK2	YES	41
1212	cnv_TRIM23	cnv	TRIM23	YES	26
1213	mrna_PIWIL4	mrna	PIWIL4	YES	16
1214	stv_ARHGAP21	stv	ARHGAP21	YES	20
1216	meth_SLC22A2	meth	SLC22A2	YES	32
1222	cnv_CDX1	cnv	CDX1	YES	20
1222	mrna_USP49	mrna	USP49	YES	20
1223	cnv_PAIP2	cnv	PAIP2	YES	10
1225	cnv_ESM1	cnv	ESM1	YES	9
1229	stv_BUB1B	stv	BUB1B	YES	40
1230	cnv_PDE6A	cnv	PDE6A	YES	16
1230	mrna_RANBP1	mrna	RANBP1	YES	28
1232	stv_VCAN	stv	VCAN	YES	27
1234	cnv_FST	cnv	FST	YES	20
1236	cnv_GCNT4	cnv	GCNT4	YES	18
1238	meth_ARNTL2	meth	ARNTL2	YES	18
1242	mrna_IL12RB2	mrna	IL12RB2	YES	16
1243	cnv_CXXC5	cnv	CXXC5	YES	15
1246	stv_STON2	stv	STON2	YES	17
1247	mrna_POLR1C	mrna	POLR1C	YES	20
1249	cnv_PLEK	cnv	PLEK	YES	34
1249	stv_STMN4	stv	STMN4	YES	11
1251	mrna_E2F3	mrna	E2F3	YES	21
1252	mrna_CDCA8	mrna	CDCA8	YES	23
1253	meth_LY96	meth	LY96	YES	29
1255	mrna_BYSL	mrna	BYSL	YES	19
1256	stv_PTK2B	stv	PTK2B	YES	146
1259	mrna_MMP7	mrna	MMP7	YES	23
1260	meth_FABP5	meth	FABP5	YES	20
1262	cnv_CCNO	cnv	CCNO	YES	14
1263	meth_EBF1	meth	EBF1	YES	10
1266	meth_NMUR2	meth	NMUR2	YES	31
1267	cnv_ERCC8	cnv	ERCC8	YES	21

1269	meth_COL23A1	meth	COL23A1	YES	7
1276	cnv_LALBA	cnv	LALBA	YES	16
1278	meth_ACTL6B	meth	ACTL6B	YES	17
1282	cnv_GTF2H2C	cnv	GTF2H2C	YES	14
1283	stv_ZBTB7A	stv	ZBTB7A	YES	14
1287	cnv_CCT4	cnv	CCT4	YES	31
1288	meth_LRRFIP1	meth	LRRFIP1	YES	21
1292	stv_NOS1AP	stv	NOS1AP	YES	30
1293	cnv_ST8SIA4	cnv	ST8SIA4	YES	16
1297	mrna_IFRD1	mrna	IFRD1	YES	10
1301	stv_PRMT5	stv	PRMT5	YES	46
1302	cnv_XPO1	cnv	XPO1	YES	42
1304	cnv_ANKRD33	cnv	ANKRD33	YES	5
1305	cnv_NR3C1	cnv	NR3C1	YES	46
1311	mrna_COQ7	mrna	COQ7	YES	17
1311	stv_CST11	stv	CST11	YES	14
1314	stv_PLEC	stv	PLEC	YES	23
1319	stv_ARID3B	stv	ARID3B	YES	15
1320	cnv_RNF180	cnv	RNF180	YES	17
1321	mrna_KCNJ11	mrna	KCNJ11	YES	53
1322	mrna_RASGEF1C	mrna	RASGEF1C	YES	4
1324	meth_PAPSS1	meth	PAPSS1	YES	15
1324	mrna_BTG2	mrna	BTG2	YES	30
1325	stv_PLD3	stv	PLD3	YES	12
1326	meth_BCAN	meth	BCAN	YES	19
1328	mrna_IL6ST	mrna	IL6ST	YES	49
1330	cnv_ARHGAP26	cnv	ARHGAP26	YES	16
1333	cnv_ATG10	cnv	ATG10	YES	13
1333	cnv_SPINK5	cnv	SPINK5	YES	27
1334	mrna_MLC1	mrna	MLC1	YES	29
1336	mrna_NCS1	mrna	NCS1	YES	26
1338	meth_ZBTB7B	meth	ZBTB7B	YES	20
1339	meth_ECEL1	meth	ECEL1	YES	11
1341	cnv_ITGA5	cnv	ITGA5	YES	49
1342	cnv_SOX30	cnv	SOX30	YES	9
1343	cnv_F2RL1	cnv	F2RL1	YES	68
1344	meth_MYT1	meth	MYT1	YES	12
1345	mrna_DNAAF1	mrna	DNAAF1	YES	24
1346	cnv_GMCL1	cnv	GMCL1	YES	10
1348	meth_GNB5	meth	GNB5	YES	20
1350	cnv_FABP6	cnv	FABP6	YES	13
1351	stv_MRPL28	stv	MRPL28	YES	13
1353	meth_ZNF366	meth	ZNF366	YES	12
1354	meth_RXRB	meth	RXRB	YES	23
1355	cnv_TMED7	cnv	TMED7	YES	19
1356	mrna_RABEP1	mrna	RABEP1	YES	22
1357	cnv_ACTG2	cnv	ACTG2	YES	16
1357	meth_CXADR	meth	CXADR	YES	49
1360	cnv_CAMK2A	cnv	CAMK2A	YES	52
1363	cnv_ECSCR	cnv	ECSCR	YES	13
1367	mrna_P4HTM	mrna	P4HTM	YES	14
1373	cnv_ARAP3	cnv	ARAP3	YES	24
1376	cnv_FER	cnv	FER	YES	66
1376	meth_PDLIM2	meth	PDLIM2	YES	10
1380	cnv_HAPLN1	cnv	HAPLN1	YES	9
1380	meth_PDCD1LG2	meth	PDCD1LG2	YES	14
1382	cnv_VRK2	cnv	VRK2	YES	27
1383	mrna_WWP1	mrna	WWP1	YES	21

1387	mrna_GPM6B	mrna	GPM6B	YES	17
1388	stv_DGKH	stv	DGKH	YES	19
1391	mrna_TMPRSS6	mrna	TMPRSS6	YES	26
1392	meth_FUOM	meth	FUOM	YES	10
1394	cnv_KRT2	cnv	KRT2	YES	23
1396	meth_SOX18	meth	SOX18	YES	39
1398	mrna_PDK1	mrna	PDK1	YES	21
1400	meth_BRCA1	meth	BRCA1	YES	95
1406	meth_PGLYRP1	meth	PGLYRP1	YES	26
1411	cnv_CSNK1A1	cnv	CSNK1A1	YES	45
1414	meth_SCARA5	meth	SCARA5	YES	18
1417	meth_KRT10	meth	KRT10	YES	15
1418	cnv_PCDHA1	cnv	PCDHA1	YES	11
1422	meth_HMGA2	meth	HMGA2	YES	87
1423	meth_TRIM22	meth	TRIM22	YES	31
1424	meth_LPXN	meth	LPXN	YES	23
1427	cnv_CCDC88A	cnv	CCDC88A	YES	37
1432	cnv_REL	cnv	REL	YES	28
1433	meth_KMT2D	meth	KMT2D	YES	26
1433	stv_SF1	stv	SF1	YES	26
1434	meth_EGR2	meth	EGR2	YES	42
1435	cnv_NDUFAF2	cnv	NDUFAF2	YES	10
1442	cnv_ERAP1	cnv	ERAP1	YES	39
1443	mirna_MIR155	mirna	MIR155	YES	32
1445	stv_PRKAA2	stv	PRKAA2	YES	63
1447	stv_FLT3LG	stv	FLT3LG	YES	26
1453	stv_PRAMEF6	stv	PRAMEF6	YES	6
1454	mrna_LMX1B	mrna	LMX1B	YES	27
1458	cnv_TICAM2	cnv	TICAM2	YES	29
1461	cnv_AAK1	cnv	AAK1	YES	27
1467	meth_UBE2E1	meth	UBE2E1	YES	24
1471	cnv_SKP1	cnv	SKP1	YES	33
1474	meth_NXN	meth	NXN	YES	16
1481	meth_IL17B	meth	IL17B	YES	7
1485	meth_SERPINB12	meth	SERPINB12	YES	13
1486	meth_MCAM	meth	MCAM	YES	13
1494	meth_KCNH1	meth	KCNH1	YES	44
1495	mrna_FBXL5	mrna	FBXL5	YES	16
1496	meth_NANOS1	meth	NANOS1	YES	16
1501	mrna_AURKB	mrna	AURKB	YES	61
1505	mrna_CACNA2D2	mrna	CACNA2D2	YES	20
1509	mrna_SLC26A9	mrna	SLC26A9	YES	27
1510	mrna_DAPK1	mrna	DAPK1	YES	35
1511	mrna_EXTL1	mrna	EXTL1	YES	10
1512	meth_KRT86	meth	KRT86	YES	9
1512	mrna_TNNI2	mrna	TNNI2	YES	11
1513	meth_NKX3.2	meth	NKX3.2	NO	0
1515	cnv_FTMT	cnv	FTMT	YES	16
1516	meth_RASGRP3	meth	RASGRP3	YES	22
1516	stv_AGRN	stv	AGRN	YES	46
1518	meth_IL36G	meth	IL36G	YES	10
1519	cnv_IL5	cnv	IL5	YES	24
1524	cnv_CCNH	cnv	CCNH	YES	36
1527	mrna_BBS4	mrna	BBS4	YES	83
1528	cnv_LARS	cnv	LARS	YES	32
1535	cnv_KRT1	cnv	KRT1	YES	31
1535	stv_CNGA1	stv	CNGA1	YES	22
1537	cnv_FAM13B	cnv	FAM13B	YES	6

1541	mrna_NOSTRIN	mrna	NOSTRIN	YES	13
1544	cnv_HEXB	cnv	HEXB	YES	47
1547	stv_DENND6A	stv	DENND6A	YES	10
1549	mrna_IL34	mrna	IL34	YES	12
1552	cnv_MZB1	cnv	MZB1	YES	12
1553	stv_ST3GAL4	stv	ST3GAL4	YES	20
1555	meth_KLF3	meth	KLF3	YES	13
1563	mrna_GTPBP4	mrna	GTPBP4	YES	24
1568	mrna_EN1	mrna	EN1	YES	33
1571	meth_TLR1	meth	TLR1	YES	35
1596	meth_CXCL12	meth	CXCL12	YES	55
1599	stv_SERAC1	stv	SERAC1	YES	10
1600	mrna_KIF12	mrna	KIF12	YES	15
1603	mrna_FAF1	mrna	FAF1	YES	28
1628	cnv_ZBED3	cnv	ZBED3	YES	12
1629	mirna_MIR34B	mirna	MIR34B	YES	4
1635	meth_BDNF	meth	BDNF	YES	48
1640	stv_SYDE1	stv	SYDE1	YES	9
1665	cnv_GPBP1	cnv	GPBP1	YES	11
1673	meth_PMEPA1	meth	PMEPA1	YES	17
1676	meth_GABBR2	meth	GABBR2	YES	21
1680	cnv_RPS27A	cnv	RPS27A	YES	110

APPENDIX E

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	meth_CTD-2371O3.3	meth	CTD-2371O3.3	NO	0
1	mrna_RP11-59C5.3	mrna	RP11-59C5.3	NO	0
2	meth_CDCA4	meth	CDCA4	YES	6
3	meth_ACAT1	meth	ACAT1	YES	35
3	meth_HK1	meth	HK1	YES	31
4	meth_EI24	meth	EI24	YES	13
5	meth_FAM84B	meth	FAM84B	YES	3
5	meth_PDC	meth	PDC	YES	15
6	meth_GPATCH3	meth	GPATCH3	YES	2
6	meth_RP11-517H2.6	meth	RP11-517H2.6	NO	0
7	meth_CCDC141	meth	CCDC141	YES	2
7	meth_CCT8	meth	CCT8	YES	37
8	meth_METAP1	meth	METAP1	YES	13
8	mrna_SLC6A3	mrna	SLC6A3	YES	52
9	meth_CCR1	meth	CCR1	YES	38
9	meth_SNF8	meth	SNF8	YES	40
10	meth_CLCC1	meth	CLCC1	YES	12
10	meth_NUP93	meth	NUP93	YES	31
11	meth_DENND1B	meth	DENND1B	YES	16
11	mrna_CDON	mrna	CDON	YES	29
12	meth_SETD1A	meth	SETD1A	YES	32
12	meth_USF1	meth	USF1	YES	37
13	meth_CCDC79	meth	CCDC79	YES	3
14	mrna_SLC5A12	mrna	SLC5A12	YES	15
15	meth_ALDH18A1	meth	ALDH18A1	YES	26
15	meth_RP11-38C17.1	meth	RP11-38C17.1	NO	0
16	meth_NME8	meth	NME8	YES	17
17	meth_RACGAP1	meth	RACGAP1	YES	50
17	meth_TMEM81	meth	TMEM81	YES	2
18	meth_RP11-299J3.8	meth	RP11-299J3.8	NO	0
19	meth_BHLHA15	meth	BHLHA15	YES	21
19	mirna_MIR124	mirna	MIR124	NO	0
20	meth_DNMBP	meth	DNMBP	YES	13
20	mirna_MIR4473	mirna	MIR4473	NO	0
21	mrna_HCG4P7	mrna	HCG4P7	NO	0
21	mrna_ENPP7P8	mrna	ENPP7P8	NO	0
22	meth_FOXJ3	meth	FOXJ3	YES	12
22	meth_OPN1SW	meth	OPN1SW	YES	18
23	meth_SNORD38	meth	SNORD38	NO	0
24	meth_ACTL7A	meth	ACTL7A	YES	10
24	mrna_RP11-302L19.3	mrna	RP11-302L19.3	NO	0
25	meth_CMTM8	meth	CMTM8	YES	13
25	meth_SLC19A1	meth	SLC19A1	YES	15
26	meth_HAUS3	meth	HAUS3	YES	20
26	meth_LCK	meth	LCK	YES	65
27	mrna_CEBPB-AS1	mrna	CEBPB-AS1	NO	0
28	cnv_RNA5SP349	cnv	RNA5SP349	NO	0
28	meth_SYCP3	meth	SYCP3	YES	11
29	meth_OXT	meth	OXT	YES	57
29	mrna_GABRB3	mrna	GABRB3	YES	34
30	meth_PDHA2	meth	PDHA2	YES	17
30	meth_TIGD3	meth	TIGD3	YES	3
31	mrna_RP11-236L14.2	mrna	RP11-236L14.2	NO	0
32	meth_POMP	meth	POMP	YES	10
32	mrna_FBXO17	mrna	FBXO17	YES	6
33	meth_IFNA4	meth	IFNA4	YES	22
33	mrna_HNRNPD	mrna	HNRNPD	YES	51
34	mrna_NFIC	mrna	NFIC	YES	17
35	meth_RP11-888D10.3	meth	RP11-888D10.3	NO	0
35	mrna_TNFRSF10D	mrna	TNFRSF10D	YES	20
36	mrna_SCTR	mrna	SCTR	YES	14
36	mrna_MAPK11	mrna	MAPK11	YES	41
37	meth_AF127936.9	meth	AF127936.9	NO	0

37	mrna_UPB1	mrna	UPB1	YES	12
38	mrna_POLN	mrna	POLN	YES	17
38	stv_SUCO	stv	SUCO	YES	10
39	meth_PCMTD1	meth	PCMTD1	YES	6
39	stv_WNT10A	stv	WNT10A	YES	20
40	meth_EIF4G1	meth	EIF4G1	YES	47
40	mrna_ZNF395	mrna	ZNF395	YES	11
41	meth_FAM126A	meth	FAM126A	YES	11
41	mrna_RP11-348J24.2	mrna	RP11-348J24.2	NO	0
42	mrna_RP11-394O4.5	mrna	RP11-394O4.5	NO	0
43	cnv_C2orf70	cnv	C2orf70	YES	1
43	mrna_SLC16A12	mrna	SLC16A12	YES	4
44	meth_QTRT1	meth	QTRT1	YES	16
44	meth_TGM3	meth	TGM3	YES	18
45	meth_GALNT3	meth	GALNT3	YES	20
45	meth_SLC7A6	meth	SLC7A6	YES	17
46	meth_ETS1	meth	ETS1	YES	49
46	meth_HIVEP1	meth	HIVEP1	YES	19
47	meth_ATP2C1	meth	ATP2C1	YES	27
47	mrna_MLEC	mrna	MLEC	YES	11
48	meth_FAM217B	meth	FAM217B	YES	2
48	meth_TNFSF13B	meth	TNFSF13B	YES	25
49	mrna_SLC6A19	mrna	SLC6A19	YES	17
49	stv_COPS2	stv	COPS2	YES	21
50	meth_SLC39A3	meth	SLC39A3	YES	16
51	mrna_MUC4	mrna	MUC4	YES	17
52	mrna_EFNA1	mrna	EFNA1	YES	40
53	meth_MTPN	meth	MTPN	YES	23
54	meth_LINC00311	meth	LINC00311	NO	0
54	mrna_SDAD1P1	mrna	SDAD1P1	NO	0
55	cnv_U3|ENSG00000251800.1	cnv	U3|ENSG00000251800.1	NO	0
55	mrna_CTD-2034I21.1	mrna	CTD-2034I21.1	NO	0
56	meth_MPG	meth	MPG	YES	23
56	mrna_SEPT5	mrna	SEPT5	YES	19
57	meth_MZT2A	meth	MZT2A	YES	8
57	meth_RAB1A	meth	RAB1A	YES	40
58	cnv_MIR5186	cnv	MIR5186	NO	0
58	meth_ODF1	meth	ODF1	YES	7
59	cnv_CENPA	cnv	CENPA	YES	28
59	meth_HIST1H4G	meth	HIST1H4G	YES	11
60	cnv_PLSCR1	cnv	PLSCR1	YES	35
60	meth_UNC93A	meth	UNC93A	YES	5
61	meth_TFAP4	meth	TFAP4	YES	33
61	meth_ZGRF1	meth	ZGRF1	YES	3
62	meth_GRM5	meth	GRM5	YES	41
62	meth_TBR1	meth	TBR1	YES	19
63	meth_HDAC2	meth	HDAC2	YES	84
63	mrna_MTERF4	mrna	MTERF4	YES	19
64	meth_KATNA1	meth	KATNA1	YES	33
65	meth_IL27	meth	IL27	YES	17
65	mrna_ZFAT	mrna	ZFAT	YES	14
66	mrna_VIL1	mrna	VIL1	YES	52
66	stv_TATDN1	stv	TATDN1	YES	12
67	meth_PHF3	meth	PHF3	YES	7
67	mrna_AC006227.1	mrna	AC006227.1	NO	0
68	meth_PIEZO1	meth	PIEZO1	YES	20
68	mrna_NOSTRIN	mrna	NOSTRIN	YES	13
69	mrna_EXOC3	mrna	EXOC3	YES	16
69	stv_ZNF814	stv	ZNF814	YES	5
70	mrna_ZSWIM5	mrna	ZSWIM5	YES	3
70	mrna_HOXC10	mrna	HOXC10	YES	19
71	meth_NUDT15	meth	NUDT15	YES	18
71	mrna_NAPA-AS1	mrna	NAPA-AS1	NO	0
72	meth_SEMA4D	meth	SEMA4D	YES	36

72	mrna_FAM213A	mrna	FAM213A	YES	7
73	meth_CELF2	meth	CELF2	YES	9
73	mrna_B3GNT9	mrna	B3GNT9	YES	9
74	mrna_TRIM39	mrna	TRIM39	YES	13
75	cnv_MRPS22	cnv	MRPS22	YES	10
76	mrna_RP11-296I10.3	mrna	RP11-296I10.3	NO	0
76	mrna_CTC-523E23.5	mrna	CTC-523E23.5	NO	0
77	cnv_CENPO	cnv	CENPO	YES	11
77	meth_FAM71D	meth	FAM71D	YES	2
78	cnv_MBNL1	cnv	MBNL1	YES	18
78	mrna_GSTA1	mrna	GSTA1	YES	12
79	meth_PMP2	meth	PMP2	YES	10
79	mrna_LTK	mrna	LTK	YES	24
80	meth_RUNX2	meth	RUNX2	YES	55
81	mirna_MIR151B	mirna	MIR151B	YES	1
82	mrna_SLC17A4	mrna	SLC17A4	YES	14
82	stv_ZNF527	stv	ZNF527	YES	12
83	meth_RP11-705O1.8	meth	RP11-705O1.8	NO	0
83	mrna_AHDC1	mrna	AHDC1	YES	1
85	meth_KCNE1	meth	KCNE1	YES	42
85	meth_TRPM4	meth	TRPM4	YES	51
86	mrna_ZNF821	mrna	ZNF821	YES	10
87	cnv_TFDP2	cnv	TFDP2	YES	27
87	meth_PSMG3	meth	PSMG3	YES	1
88	meth_NDUFS8	meth	NDUFS8	YES	17
88	mrna_GGT5	mrna	GGT5	YES	20
89	mirna_MIR1262	mirna	MIR1262	NO	0
89	mrna_ZNF274	mrna	ZNF274	YES	16
90	meth_TUBA3E	meth	TUBA3E	YES	14
90	mrna_ADCY10	mrna	ADCY10	YES	36
91	meth_UBR3	meth	UBR3	YES	17
91	stv_FAM184B	stv	FAM184B	NO	0
92	cnv_PLS1	cnv	PLS1	YES	19
92	meth_SLPI	meth	SLPI	YES	25
93	mrna_AP000439.3	mrna	AP000439.3	NO	0
94	meth_CTH	meth	CTH	YES	33
94	mrna_RP5-1142A6.9	mrna	RP5-1142A6.9	NO	0
95	meth_ERAP2	meth	ERAP2	YES	24
95	mrna_C2orf72	mrna	C2orf72	YES	1
96	meth_RHOG	meth	RHOG	YES	25
96	meth_SLC7A5	meth	SLC7A5	YES	25
97	mrna_RP11-798K3.2	mrna	RP11-798K3.2	NO	0
97	mrna_USP27X	mrna	USP27X	YES	17
98	mrna_HMGB2	mrna	HMGB2	YES	72
98	mrna_AC063976.7	mrna	AC063976.7	NO	0
99	meth_CHCHD7	meth	CHCHD7	YES	3
100	cnv_COPB2	cnv	COPB2	YES	21
100	meth_MYBPC3	meth	MYBPC3	YES	33
101	cnv_SUCNR1	cnv	SUCNR1	YES	9
102	cnv_RAB10	cnv	RAB10	YES	54
102	mrna_YPEL4	mrna	YPEL4	YES	3
104	meth_UGT2B4	meth	UGT2B4	YES	14
104	mrna_RNASE4	mrna	RNASE4	YES	11
105	cnv_GPR87	cnv	GPR87	YES	12
105	meth_NUCB1	meth	NUCB1	YES	26
106	mrna_CLDN5	mrna	CLDN5	YES	24
107	mrna_NLRP11	mrna	NLRP11	YES	5
108	cnv_NMNAT3	cnv	NMNAT3	YES	15
108	mrna_FOXS1	mrna	FOXS1	YES	37
109	meth_LIG3	meth	LIG3	YES	27
109	mrna_PGA5	mrna	PGA5	YES	11
110	cnv_EFR3B	cnv	EFR3B	YES	7
110	mrna_INF2	mrna	INF2	YES	11
111	mrna_MPI	mrna	MPI	YES	12

111	mrna_AC005355.2	mrna	AC005355.2	NO	0
112	meth_SLC25A16	meth	SLC25A16	YES	11
112	stv_TOM1L1	stv	TOM1L1	YES	24
113	cnv_FAM194A	cnv	FAM194A	NO	0
113	meth_RABEP1	meth	RABEP1	YES	22
114	cnv_ELMOD1	cnv	ELMOD1	YES	6
114	cnv_SLC35F2	cnv	SLC35F2	YES	7
115	meth_C10orf12	meth	C10orf12	NO	0
115	meth_HTN1	meth	HTN1	YES	7
116	mirna_MIR676	mirna	MIR676	NO	0
116	mrna_ADORA2A	mrna	ADORA2A	YES	81
117	meth_AMY2B	meth	AMY2B	YES	11
117	mrna_FAM160A2	mrna	FAM160A2	YES	9
118	mrna_TAF11	mrna	TAF11	YES	19
118	mrna_PTN	mrna	PTN	YES	67
119	meth_ADORA1	meth	ADORA1	YES	79
119	mrna_ASPA	mrna	ASPA	YES	16
120	stv_BCL2L13	stv	BCL2L13	YES	10
120	stv_RFPL3	stv	RFPL3	YES	2
121	meth_GRIK4	meth	GRIK4	YES	24
122	cnv_P2RY1	cnv	P2RY1	YES	57
122	mrna_CLEC18C	mrna	CLEC18C	YES	6
123	meth_CTC-264K15.6	meth	CTC-264K15.6	NO	0
123	stv_SEC11A	stv	SEC11A	YES	13
124	cnv_CPA3	cnv	CPA3	YES	15
124	mrna_OPTN	mrna	OPTN	YES	41
125	meth_ABCC1	meth	ABCC1	YES	28
125	meth_TAS2R10	meth	TAS2R10	YES	12
126	meth_FNDC3B	meth	FNDC3B	YES	4
126	meth_HSF2BP	meth	HSF2BP	YES	6
127	stv_TMEM256-PLSCR3	stv	TMEM256-PLSCR3	YES	13
128	mrna_CTC-251I16.1	mrna	CTC-251I16.1	NO	0
129	stv_IGKV3OR2-268	stv	IGKV3OR2-268	YES	3
130	meth_MYOG	meth	MYOG	YES	60
130	stv_PBDC1	stv	PBDC1	YES	4
131	mrna_AC000095.11	mrna	AC000095.11	NO	0
132	meth_EPG5	meth	EPG5	YES	4
132	mrna_CNNM3	mrna	CNNM3	YES	8
133	cnv_ATAD2B	cnv	ATAD2B	YES	9
133	mrna_RP11-848P1.9	mrna	RP11-848P1.9	NO	0
134	cnv_TM4SF4	cnv	TM4SF4	YES	4
134	meth_TBX19	meth	TBX19	YES	16
135	cnv_CUL5	cnv	CUL5	YES	23
135	meth_MYO10	meth	MYO10	YES	34
136	meth_GRPEL2	meth	GRPEL2	YES	11
136	stv_C1QL4	stv	C1QL4	YES	7
137	meth_RPS12	meth	RPS12	YES	17
137	mrna_CCDC81	mrna	CCDC81	YES	5
138	meth_UMODL1	meth	UMODL1	YES	17
138	mrna_TSSC2	mrna	TSSC2	NO	0
139	mirna_MIR885	mirna	MIR885	NO	0
139	stv_ARHGAP22	stv	ARHGAP22	YES	14
140	meth_ERP27	meth	ERP27	YES	3
140	stv_CLPSL2	stv	CLPSL2	YES	6
141	meth_IMPG2	meth	IMPG2	YES	9
142	cnv_DRC1	cnv	DRC1	YES	9
142	meth_DMBT1	meth	DMBT1	YES	27
143	meth_KAT2B	meth	KAT2B	YES	51
143	stv_POR	stv	POR	YES	43
144	mrna_SLC28A1	mrna	SLC28A1	YES	14
144	mrna_MARC1	mrna	MARC1	YES	15
145	meth_DHX8	meth	DHX8	YES	19
146	mrna_MPZ	mrna	MPZ	YES	14
146	mrna_ZNF34	mrna	ZNF34	YES	10

148	mirna_MIR4444	mirna	MIR4444	NO	0
149	meth_SPNS3	meth	SPNS3	YES	10
149	stv_KIAA1211L	stv	KIAA1211L	NO	0
150	cnv_ATM	cnv	ATM	YES	98
150	mrna_WDR33	mrna	WDR33	YES	15
151	meth_LARP7	meth	LARP7	YES	9
151	mrna_EIF1AD	mrna	EIF1AD	YES	6
152	meth_TUBAL3	meth	TUBAL3	YES	9
152	mrna_RP11-680G24.4	mrna	RP11-680G24.4	NO	0
153	meth_CWF19L2	meth	CWF19L2	YES	2
153	mirna_MIR135A	mirna	MIR135A	NO	0
154	meth_CCDC157	meth	CCDC157	YES	2
154	mrna_FKBP1A	mrna	FKBP1A	YES	60
155	mrna_STARD9	mrna	STARD9	YES	13
155	mrna_P3H2-AS1	mrna	P3H2-AS1	NO	0
156	mrna_PLEKHG4	mrna	PLEKHG4	YES	5
157	meth_CLDN16	meth	CLDN16	YES	15
157	mrna_GHR	mrna	GHR	YES	64
158	mrna_NRXN2	mrna	NRXN2	YES	25
159	mrna_CTC-360G5.9	mrna	CTC-360G5.9	NO	0
160	meth_MAP3K7	meth	MAP3K7	YES	56
160	meth_STK4	meth	STK4	YES	52
161	mrna_APOL1	mrna	APOL1	YES	23
161	mrna_RP4-798P15.3	mrna	RP4-798P15.3	NO	0
162	meth_AATF	meth	AATF	YES	25
162	meth_NFYB	meth	NFYB	YES	19
163	cnv_snoU13|ENSG00000243321.2	cnv	snoU13|ENSG00000243321.2	NO	0
163	stv_ALOX12B	stv	ALOX12B	YES	25
164	mrna_TTC28-AS1	mrna	TTC28-AS1	NO	0
164	stv_SLC30A6	stv	SLC30A6	YES	15
165	mrna_PEX11A	mrna	PEX11A	YES	15
166	cnv_ITSN2	cnv	ITSN2	YES	14
166	mrna_LINC00671	mrna	LINC00671	NO	0
167	cnv_SNORD14	cnv	SNORD14	NO	0
167	mrna_LRRC37A7P	mrna	LRRC37A7P	NO	0
168	mrna_HRH2	mrna	HRH2	YES	22
169	mrna_EPO	mrna	EPO	YES	54
169	mrna_AC141928.1	mrna	AC141928.1	NO	0
170	mrna_FBXO27	mrna	FBXO27	YES	6
171	mrna_IQSEC3	mrna	IQSEC3	YES	9
171	stv_MAP2K5	stv	MAP2K5	YES	43
172	meth_AZIN2	meth	AZIN2	YES	34
173	mrna_CGREF1	mrna	CGREF1	YES	8
173	mrna_EML3	mrna	EML3	YES	5
174	cnv_C3orf58	cnv	C3orf58	YES	9
175	meth_DCUN1D3	meth	DCUN1D3	YES	16
175	mrna_KCNMA1	mrna	KCNMA1	YES	49
176	mrna_CATSPER3	mrna	CATSPER3	YES	30
177	meth_NINJ1	meth	NINJ1	YES	8
178	mrna_LY6H	mrna	LY6H	YES	8
178	mrna_HIST1H2BN	mrna	HIST1H2BN	YES	10
179	meth_BTN1A1	meth	BTN1A1	YES	7
179	mrna_CTD-3138B18.5	mrna	CTD-3138B18.5	NO	0
180	mirna_MIR570	mirna	MIR570	NO	0
181	meth_HORMAD1	meth	HORMAD1	YES	15
181	mrna_CTD-3252C9.4	mrna	CTD-3252C9.4	NO	0
182	mrna_RP11-14C10.5	mrna	RP11-14C10.5	NO	0
183	cnv_AADAC	cnv	AADAC	YES	17
183	mrna_BNIP3	mrna	BNIP3	YES	65
184	cnv_PTRHD1	cnv	PTRHD1	YES	3
185	mrna_CX3CL1	mrna	CX3CL1	YES	42
186	cnv_ASXL2	cnv	ASXL2	YES	11
186	mirna_MIR3664	mirna	MIR3664	NO	0
187	mrna_CUBN	mrna	CUBN	YES	39

188	mrna_B4GAT1	mrna	B4GAT1	YES	16
188	stv_FCGR2B	stv	FCGR2B	YES	58
189	cnv_GAREML	cnv	GAREML	NO	0
190	cnv_SLC35F6	cnv	SLC35F6	YES	17
191	meth_MAD1L1	meth	MAD1L1	YES	26
191	mrna_RP11-252A24.5	mrna	RP11-252A24.5	NO	0
192	meth_KRTAP19-6	meth	KRTAP19-6	YES	3
192	meth_PAN2	meth	PAN2	YES	17
193	meth_USP29	meth	USP29	YES	8
194	cnv_PFN2	cnv	PFN2	YES	23
195	meth_SFN	meth	SFN	YES	36
195	mrna_RP1-18D14.7	mrna	RP1-18D14.7	NO	0
196	cnv_TSC22D2	cnv	TSC22D2	YES	5
197	meth_RAX2	meth	RAX2	YES	13
197	mrna_MAOB	mrna	MAOB	YES	27
198	mrna_TMEM37	mrna	TMEM37	YES	9
199	mrna_RP11-930P14.2	mrna	RP11-930P14.2	NO	0
200	meth_RAB27B	meth	RAB27B	YES	25
200	mrna_TCEA3	mrna	TCEA3	YES	8
202	meth_GPR97	meth	GPR97	YES	8
203	cnv_PLSCR4	cnv	PLSCR4	YES	12
203	stv_DPEP1	stv	DPEP1	YES	38
204	cnv_PRR23B	cnv	PRR23B	NO	0
204	meth_LDHAL6B	meth	LDHAL6B	YES	12
205	meth_RP11-1035H13.3	meth	RP11-1035H13.3	NO	0
205	stv_HSD17B2	stv	HSD17B2	YES	14
206	cnv_NCOA1	cnv	NCOA1	YES	62
207	meth_C14orf132	meth	C14orf132	YES	2
207	mrna_TPM2	mrna	TPM2	YES	16
208	cnv_PLSCR5	cnv	PLSCR5	YES	3
208	mrna_HSD17B3	mrna	HSD17B3	YES	12
209	meth_ZSCAN22	meth	ZSCAN22	YES	10
210	meth_E2F6	meth	E2F6	YES	17
211	meth_JOSD1	meth	JOSD1	YES	11
211	mrna_RP11-205M3.3	mrna	RP11-205M3.3	NO	0
212	cnv_ZIC1	cnv	ZIC1	YES	26
212	mrna_CTC-523E23.11	mrna	CTC-523E23.11	NO	0
213	stv_ADTRP	stv	ADTRP	YES	4
213	stv_SLC29A1	stv	SLC29A1	YES	18
214	meth_CCSER2	meth	CCSER2	YES	3
214	meth_CEP170	meth	CEP170	YES	11
216	mrna_RP11-903H12.5	mrna	RP11-903H12.5	NO	0
216	stv_RRH	stv	RRH	YES	15
217	meth_RAB10	meth	RAB10	YES	54
218	meth_UBE2V2	meth	UBE2V2	YES	24
219	meth_PRSS38	meth	PRSS38	YES	6
219	mirna_MIR3190	mirna	MIR3190	NO	0
220	stv_C21orf58	stv	C21orf58	NO	0
221	meth_CDC42	meth	CDC42	YES	130
221	meth_GPS1	meth	GPS1	YES	15
222	meth_IFNGR2	meth	IFNGR2	YES	18
222	mrna_MFSD11	mrna	MFSD11	YES	5
223	meth_FLNB	meth	FLNB	YES	30
223	meth_UTS2B	meth	UTS2B	YES	5
224	mrna_DZIP3	mrna	DZIP3	YES	20
224	stv_KCTD8	stv	KCTD8	YES	10
225	meth_RP11-732A21.3	meth	RP11-732A21.3	NO	0
226	mrna_AOC1	mrna	AOC1	YES	34
226	mrna_TNIP1	mrna	TNIP1	YES	25
227	cnv_ACPL2	cnv	ACPL2	YES	2
228	cnv_ZBTB38	cnv	ZBTB38	YES	17
228	mrna_LRP2	mrna	LRP2	YES	38
229	meth_FGFBP2	meth	FGFBP2	YES	3
231	meth_GTF2H5	meth	GTF2H5	YES	29

231	mrna_AFM	mrna	AFM	YES	7
232	mrna_CDC42EP2	mrna	CDC42EP2	YES	19
232	stv_DYNC1I2	stv	DYNC1I2	YES	25
233	mrna_SLC6A13	mrna	SLC6A13	YES	13
233	mrna_CYB5A	mrna	CYB5A	YES	20
234	mrna_CCDC87	mrna	CCDC87	YES	3
235	meth_ERLIN2	meth	ERLIN2	YES	22
235	mrna_IER2	mrna	IER2	YES	11
236	mrna_UMOD	mrna	UMOD	YES	30
237	meth_BTN2A3P	meth	BTN2A3P	NO	0
237	meth_TLR1	meth	TLR1	YES	35
238	cnv_SLC25A36	cnv	SLC25A36	YES	13
239	meth_NOL3	meth	NOL3	YES	44
239	mrna_RP11-351J23.2	mrna	RP11-351J23.2	NO	0
241	cnv_SERP1	cnv	SERP1	YES	25
241	meth_CMTM6	meth	CMTM6	YES	10
242	meth_SIGLEC5	meth	SIGLEC5	YES	10
242	mirna_MIR30C	mirna	MIR30C	NO	0
243	meth_RP4-682C21.5	meth	RP4-682C21.5	NO	0
244	mirna_MIR3678	mirna	MIR3678	NO	0
244	mrna_RBP1	mrna	RBP1	YES	17
245	stv_CAMTA1	stv	CAMTA1	YES	12
246	mrna_GABRE	mrna	GABRE	YES	20
247	meth_TRIM40	meth	TRIM40	YES	11
247	mrna_PLIN2	mrna	PLIN2	YES	13
248	cnv_SLC9A9	cnv	SLC9A9	YES	22
248	mrna_CDK18	mrna	CDK18	YES	12
249	cnv_DDI1	cnv	DDI1	YES	3
249	meth_PBRM1	meth	PBRM1	YES	13
250	cnv_RASA2	cnv	RASA2	YES	14
250	meth_MAP4K2	meth	MAP4K2	YES	32
251	mrna_SYT9	mrna	SYT9	YES	26
251	mrna_HAUS7	mrna	HAUS7	YES	17
252	meth_MEF2C	meth	MEF2C	YES	141
253	cnv_CASP1	cnv	CASP1	YES	50
253	meth_USP15	meth	USP15	YES	25
254	mrna_RBM10	mrna	RBM10	YES	19
254	mrna_PTMA	mrna	PTMA	YES	9
255	meth_SART1	meth	SART1	YES	21
256	mrna_ZBTB46	mrna	ZBTB46	YES	11
256	mrna_AC005618.6	mrna	AC005618.6	NO	0
257	mrna_NFATC4	mrna	NFATC4	YES	42
258	meth_SIGMAR1	meth	SIGMAR1	YES	27
258	mrna_CRK	mrna	CRK	YES	52
259	meth_BCO2	meth	BCO2	YES	18
259	meth_SEMA6B	meth	SEMA6B	YES	9
260	meth_CCDC113	meth	CCDC113	YES	8
260	mrna_SLC6A18	mrna	SLC6A18	YES	13
261	mrna_CDCA2	mrna	CDCA2	YES	8
262	meth_CTD-2527I21.5	meth	CTD-2527I21.5	NO	0
262	meth_PXYLP1	meth	PXYLP1	YES	12
263	mrna_LIMS2	mrna	LIMS2	YES	15
264	cnv_PDGFD	cnv	PDGFD	YES	28
264	mrna_CES3	mrna	CES3	YES	8
265	cnv_XRN1	cnv	XRN1	YES	33
265	mrna_FAM149A	mrna	FAM149A	NO	0
266	stv_GMEB1	stv	GMEB1	YES	15
267	meth_C16orf87	meth	C16orf87	YES	1
267	mrna_TLN2	mrna	TLN2	YES	18
268	meth_NDUFA3	meth	NDUFA3	YES	10
268	mrna_C1orf115	mrna	C1orf115	YES	2
269	meth_TNFRSF25	meth	TNFRSF25	YES	19
269	stv_ACSBG1	stv	ACSBG1	YES	20
270	cnv_ANKUB1	cnv	ANKUB1	YES	1

270	cnv_RNA5SP144	cnv	RNA5SP144	NO	0
271	cnv_FAM188B2	cnv	FAM188B2	NO	0
273	mrna_RP11-553A21.3	mrna	RP11-553A21.3	NO	0
273	stv_MAPK1	stv	MAPK1	YES	125
274	meth_GPR141	meth	GPR141	YES	7
275	meth_ADA	meth	ADA	YES	72
275	mrna_SLC5A8	mrna	SLC5A8	YES	16
276	cnv_C11orf65	cnv	C11orf65	YES	1
276	mrna_LMNA	mrna	LMNA	YES	33
277	mrna_CD99P1	mrna	CD99P1	NO	0
277	mrna_CTC-513N18.6	mrna	CTC-513N18.6	NO	0
278	mrna_RP11-283I3.4	mrna	RP11-283I3.4	NO	0
279	meth_MIR1181	meth	MIR1181	NO	0
279	meth_NADK2	meth	NADK2	YES	12
280	meth_RNF7	meth	RNF7	YES	25
281	meth_PPM1K	meth	PPM1K	YES	11
281	mrna_TUBA3E	mrna	TUBA3E	YES	14
282	mrna_HIST1H2BD	mrna	HIST1H2BD	YES	11
283	cnv_NTSR2	cnv	NTSR2	YES	14
283	mrna_ADORA2A-AS1	mrna	ADORA2A-AS1	NO	0
284	meth_ABCG4	meth	ABCG4	YES	15
284	meth_RNF19A	meth	RNF19A	YES	19
285	mrna_CLEC18A	mrna	CLEC18A	YES	8
285	mrna_TSPAN18	mrna	TSPAN18	YES	4
286	cnv_ATP1B3	cnv	ATP1B3	YES	32
286	mrna_C21orf33	mrna	C21orf33	YES	1
287	mrna_RP11-568K15.1	mrna	RP11-568K15.1	NO	0
287	stv_PPARG	stv	PPARG	YES	116
288	mrna_CHRD	mrna	CHRD	YES	22
288	stv_OR2F1	stv	OR2F1	YES	11
289	cnv_COMMD2	cnv	COMMD2	YES	4
289	mrna_FBXL21	mrna	FBXL21	NO	0
290	meth_CNTD1	meth	CNTD1	YES	2
290	mrna_EXOSC9	mrna	EXOSC9	YES	32
291	cnv_KIF3C	cnv	KIF3C	YES	18
292	cnv_EXPH5	cnv	EXPH5	YES	8
292	meth_CLEC2A	meth	CLEC2A	YES	7
293	meth_BIRC7	meth	BIRC7	YES	22
294	mrna_MTMR11	mrna	MTMR11	YES	2
295	mrna_RNF19B	mrna	RNF19B	YES	17
295	mrna_PARP16	mrna	PARP16	YES	22
296	meth_RNF216	meth	RNF216	YES	16
296	mrna_DIP2C	mrna	DIP2C	YES	5
297	mrna_MAPT	mrna	MAPT	YES	78
297	stv_DDHD1	stv	DDHD1	YES	9
298	cnv_SPSB4	cnv	SPSB4	YES	6
298	stv_TECPR2	stv	TECPR2	YES	3
299	cnv_ALKBH8	cnv	ALKBH8	YES	25
300	cnv_C2orf44	cnv	C2orf44	NO	0
300	mrna_GATSL3	mrna	GATSL3	NO	0
301	cnv_RAB39A	cnv	RAB39A	YES	19
302	cnv_DPYSL5	cnv	DPYSL5	YES	14
302	mrna_MXI1	mrna	MXI1	YES	15
303	cnv_GRIA4	cnv	GRIA4	YES	23
303	mrna_VWCE	mrna	VWCE	YES	4
304	cnv_E2F6	cnv	E2F6	YES	17
304	cnv_PAQR9	cnv	PAQR9	YES	7
305	cnv_RBP2	cnv	RBP2	YES	11
305	meth_LIPH	meth	LIPH	YES	11
306	meth_PILRA	meth	PILRA	YES	11
306	stv_RP11-697E2.6	stv	RP11-697E2.6	NO	0
307	mrna_CCDC142	mrna	CCDC142	NO	0
308	mrna_MSLN	mrna	MSLN	YES	15
308	mrna_BTNL9	mrna	BTNL9	YES	3

309	stv_UGT1A7	stv	UGT1A7	YES	25
310	mrna_ALMS1P	mrna	ALMS1P	NO	0
311	mrna_IGLON5	mrna	IGLON5	YES	2
311	stv_CEP63	stv	CEP63	YES	19
312	stv_PSIP1	stv	PSIP1	YES	20
313	mrna_AC009336.19	mrna	AC009336.19	NO	0
314	cnv_CLSTN2	cnv	CLSTN2	YES	15
314	meth_CCDC101	meth	CCDC101	YES	8
316	meth_B9D2	meth	B9D2	YES	17
317	meth_RILPL2	meth	RILPL2	YES	19
317	mrna_TCF15	mrna	TCF15	YES	30
318	meth_PLAUR	meth	PLAUR	YES	38
319	stv_RNF185	stv	RNF185	YES	22
320	cnv_PCOLCE2	cnv	PCOLCE2	YES	7
320	cnv_UBXN2A	cnv	UBXN2A	YES	18
322	meth_RPSA	meth	RPSA	YES	38
323	stv_GJD2	stv	GJD2	YES	13
324	meth_SCFD1	meth	SCFD1	YES	31
324	mrna_RTEL1	mrna	RTEL1	YES	36
326	meth_C1QL1	meth	C1QL1	YES	14
327	meth_CCDC115	meth	CCDC115	YES	14
327	mirna_MIR7	mirna	MIR7	NO	0
328	meth_HEATR4	meth	HEATR4	YES	2
329	meth_GPNMB	meth	GPNMB	YES	31
329	mrna_G6PC	mrna	G6PC	YES	26
331	meth_ABL2	meth	ABL2	YES	40
332	mirna_MIR3191	mirna	MIR3191	NO	0
332	mrna_HCG4	mrna	HCG4	NO	0
333	meth_ERCC4	meth	ERCC4	YES	44
333	mrna_TFF3	mrna	TFF3	YES	7
334	mirna_MIR4714	mirna	MIR4714	NO	0
335	mrna_ALPL	mrna	ALPL	YES	30
335	stv_P2RY8	stv	P2RY8	YES	12
337	meth_HOXB9	meth	HOXB9	YES	17
337	mirna_LET7D	mirna	LET7D	NO	0
338	cnv_CLRN1	cnv	CLRN1	YES	14
338	cnv_WWTR1	cnv	WWTR1	YES	35
339	mrna_ANG	mrna	ANG	YES	49
339	mrna_RP5-1033H22.2	mrna	RP5-1033H22.2	NO	0
340	cnv_IGSF10	cnv	IGSF10	YES	5
340	meth_C9orf131	meth	C9orf131	NO	0
341	mrna_HBA2	mrna	HBA2	YES	27
341	mrna_RP11-513G11.2	mrna	RP11-513G11.2	NO	0
342	stv_ARHGAP23	stv	ARHGAP23	YES	7
343	stv_ZHX1	stv	ZHX1	YES	14
344	mrna_AP001626.1	mrna	AP001626.1	NO	0
344	mrna_RP11-54O7.17	mrna	RP11-54O7.17	NO	0
345	mrna_CIT	mrna	CIT	YES	36
345	mrna_PNMA2	mrna	PNMA2	YES	4
346	meth_TMTC4	meth	TMTC4	YES	3
346	mrna_CNDP2	mrna	CNDP2	YES	16
347	mirna_MIR215	mirna	MIR215	YES	1
347	mrna_TAL2	mrna	TAL2	YES	13
348	cnv_KCNK3	cnv	KCNK3	YES	28
349	meth_NSUN2	meth	NSUN2	YES	21
349	stv_AVPR1A	stv	AVPR1A	YES	48
350	cnv_SIAH2	cnv	SIAH2	YES	32
350	mrna_SLC25A42	mrna	SLC25A42	YES	17
351	cnv_RNF13	cnv	RNF13	YES	22
351	mrna_OR7E47P	mrna	OR7E47P	NO	0
352	cnv_FAM228B	cnv	FAM228B	NO	0
353	cnv_TM4SF1	cnv	TM4SF1	YES	5
353	meth_DAZL	meth	DAZL	YES	20
354	meth_MDN1	meth	MDN1	YES	14

355	meth_MS51	meth	MS51	YES	2
355	mrna_RAB3IP	mrna	RAB3IP	YES	15
356	cnv_PLSCR2	cnv	PLSCR2	YES	8
356	mirna_MIR190A	mirna	MIR190A	NO	0
357	mrna_TUSC1	mrna	TUSC1	NO	0
358	cnv_CARD18	cnv	CARD18	YES	16
359	mrna_AC096669.3	mrna	AC096669.3	NO	0
360	meth_P4HTM	meth	P4HTM	YES	14
361	mrna_MIR140	mrna	MIR140	YES	7
362	mrna_SGMS1-AS1	mrna	SGMS1-AS1	NO	0
364	mrna_TBL1X	mrna	TBL1X	YES	29
364	mrna_RP11-158I9.8	mrna	RP11-158I9.8	NO	0
365	cnv_SF3B14	cnv	SF3B14	NO	0
365	mrna_TM4SF5	mrna	TM4SF5	YES	3
366	stv_GBA3	stv	GBA3	YES	2
368	cnv_P2RY13	cnv	P2RY13	YES	14
368	meth_HOXA7	meth	HOXA7	YES	24
369	mrna_LINC01186	mrna	LINC01186	NO	0
370	cnv_TP53I3	cnv	TP53I3	YES	11
371	meth_LIMD1-AS1	meth	LIMD1-AS1	NO	0
372	meth_MON1B	meth	MON1B	YES	6
372	mrna_CTD-2015G9.2	mrna	CTD-2015G9.2	NO	0
374	meth_C9orf172	meth	C9orf172	NO	0
374	stv_CCM2L	stv	CCM2L	YES	10
375	mrna_CIB4	mrna	CIB4	YES	4
376	cnv_GUCY1A2	cnv	GUCY1A2	YES	15
376	meth_KRTAP19-2	meth	KRTAP19-2	YES	3
377	mrna_RP11-88E10.4	mrna	RP11-88E10.4	NO	0
378	meth_CASP5	meth	CASP5	YES	19
379	meth_TPH1	meth	TPH1	YES	19
379	mrna_LRRC66	mrna	LRRC66	YES	7
380	cnv_CHST2	cnv	CHST2	YES	15
380	mrna_CTD-2008L17.2	mrna	CTD-2008L17.2	NO	0
381	mrna_GRASP	mrna	GRASP	YES	12
382	meth_APOBEC3C	meth	APOBEC3C	YES	17
382	mrna_RNF112	mrna	RNF112	YES	11
383	mrna_FAM212A	mrna	FAM212A	YES	7
384	mrna_ANKRD37	mrna	ANKRD37	YES	4
385	mrna_TMEM91	mrna	TMEM91	YES	7
386	mrna_RBM4B	mrna	RBM4B	YES	16
386	mrna_CTD-2034I21.2	mrna	CTD-2034I21.2	NO	0
387	cnv_CARD16	cnv	CARD16	YES	22
387	meth_SC5D	meth	SC5D	YES	18
388	cnv_CPB1	cnv	CPB1	YES	10
389	meth_EXD2	meth	EXD2	YES	15
390	stv_CDC20	stv	CDC20	YES	38
391	meth_C7orf43	meth	C7orf43	YES	3
392	mrna_CDHR5	mrna	CDHR5	YES	19
393	mrna_RP11-397G17.1	mrna	RP11-397G17.1	NO	0
394	mrna_RP11-536I6.2	mrna	RP11-536I6.2	NO	0
395	meth_KLHDC2	meth	KLHDC2	YES	3
395	mrna_MT-TY	mrna	MT-TY	NO	0
396	mrna_ASPG	mrna	ASPG	YES	10
397	mrna_OTUD3	mrna	OTUD3	YES	15
399	meth_MLLT3	meth	MLLT3	YES	13
400	meth_MCCC2	meth	MCCC2	YES	15
400	mrna_DGCR5	mrna	DGCR5	NO	0
401	mrna_ALKBH5	mrna	ALKBH5	YES	19
403	meth_ATF3	meth	ATF3	YES	35
404	meth_MTNR1B	meth	MTNR1B	YES	15
405	meth_RNF144A	meth	RNF144A	YES	18
406	meth_KIAA0100	meth	KIAA0100	YES	2
406	meth_MIR7846	meth	MIR7846	NO	0
408	cnv_LINC00570	cnv	LINC00570	NO	0

408	stv_ZNF264	stv	ZNF264	YES	7
410	meth_DHFRL1	meth	DHFRL1	YES	13
410	mrna_TMEM254-AS1	mrna	TMEM254-AS1	NO	0
411	meth_RDX	meth	RDX	YES	58
412	meth_REXO4	meth	REXO4	YES	11
413	mrna_TRIM3	mrna	TRIM3	YES	17
413	mrna_RP11-273G15.2	mrna	RP11-273G15.2	NO	0
414	cnv_RNA5SP145	cnv	RNA5SP145	NO	0
415	stv_ELK1	stv	ELK1	YES	29
416	meth_CCDC91	meth	CCDC91	YES	10
417	meth_PEX11B	meth	PEX11B	YES	14
418	mrna_CD7	mrna	CD7	YES	11
419	stv_FAM136A	stv	FAM136A	YES	2
420	cnv_RN7SL856P	cnv	RN7SL856P	NO	0
420	cnv_SNORD39|ENSG00000264997.1	cnv	SNORD39|ENSG00000264997.1	NO	0
421	mrna_FAM167B	mrna	FAM167B	NO	0
422	mrna_FUS	mrna	FUS	YES	25
422	stv_NUGGC	stv	NUGGC	YES	5
423	mrna_ARHGAP33	mrna	ARHGAP33	YES	16
423	mrna_GPER1	mrna	GPER1	YES	103
424	mrna_CCDC85B	mrna	CCDC85B	YES	13
425	meth_NPPA-AS1_3	meth	NPPA-AS1	NO	0
426	mrna_C17orf107	mrna	C17orf107	NO	0
427	cnv_TMEM214	cnv	TMEM214	YES	8
427	meth_XPO7	meth	XPO7	YES	12
429	cnv_DNMT3A	cnv	DNMT3A	YES	48
430	cnv_RN7SL610P	cnv	RN7SL610P	NO	0
431	mrna_SSBP3	mrna	SSBP3	YES	20
432	meth_ZCWPW1	meth	ZCWPW1	YES	2
432	mrna_RP11-613M10.6	mrna	RP11-613M10.6	NO	0
434	cnv_RNA5SP84	cnv	RNA5SP84	NO	0
434	stv_UGT1A6	stv	UGT1A6	YES	17
435	stv_TERF2IP	stv	TERF2IP	YES	36
436	meth_HRSP12	meth	HRSP12	YES	6
436	mrna_PPP1R13L	mrna	PPP1R13L	YES	25
438	mrna_CYP4A22	mrna	CYP4A22	YES	17
439	cnv_DYNC2H1	cnv	DYNC2H1	YES	43
441	meth_EXT1	meth	EXT1	YES	34
441	mrna_GJC2	mrna	GJC2	YES	14
442	stv_TFRC	stv	TFRC	YES	45
443	cnv_KBTBD3	cnv	KBTBD3	YES	3
444	mrna_RP11-133F8.2	mrna	RP11-133F8.2	NO	0
446	meth_TMCO6	meth	TMCO6	YES	8
447	mrna_AL132988.1	mrna	AL132988.1	NO	0
448	cnv_HADHA	cnv	HADHA	YES	30
449	cnv_P2RY14	cnv	P2RY14	YES	11
450	meth_PPCDC	meth	PPCDC	YES	9
450	mrna_KHK	mrna	KHK	YES	19
451	mrna_PSORS1C3	mrna	PSORS1C3	NO	0
451	stv_ZNF398	stv	ZNF398	YES	9
452	cnv_MIR1301	cnv	MIR1301	YES	1
452	meth_MEPE	meth	MEPE	YES	12
453	cnv_CWF19L2	cnv	CWF19L2	YES	2
454	mrna_MIR503HG	mrna	MIR503HG	NO	0
455	meth_FKBP7	meth	FKBP7	YES	11
456	meth_CHST12	meth	CHST12	YES	13
456	mirna_MIR455	mirna	MIR455	NO	0
457	cnv_MAPRE3	cnv	MAPRE3	YES	14
457	stv_SEZ6	stv	SEZ6	YES	18
458	cnv_ATR	cnv	ATR	YES	39
459	cnv_AADACL2	cnv	AADACL2	YES	6
459	mrna_CSNK1E	mrna	CSNK1E	YES	38
460	mrna_TUBBP1	mrna	TUBBP1	NO	0
461	cnv_ADCY3	cnv	ADCY3	YES	36

462	cnv_ZIC4	cnv	ZIC4	YES	4
463	meth_CIAPIN1	meth	CIAPIN1	YES	17
464	mirna_MIR135A	mirna	MIR135A	NO	0
465	mrna_SERTAD1	mrna	SERTAD1	YES	10
466	meth_ASB5	meth	ASB5	YES	7
466	mrna_RP5-952N6.1	mrna	RP5-952N6.1	NO	0
467	stv_PTGER4	stv	PTGER4	YES	29
468	stv_ABCC3	stv	ABCC3	YES	21
469	meth_UHMK1	meth	UHMK1	YES	31
472	meth_CAPN5	meth	CAPN5	YES	11
473	cnv_GK5	cnv	GK5	YES	13
473	meth_STAM	meth	STAM	YES	22
474	meth_TNF	meth	TNF	YES	151
476	meth_COA1	meth	COA1	YES	12
476	meth_PHF2	meth	PHF2	YES	26
477	mrna_RPS6KL1	mrna	RPS6KL1	YES	12
478	mrna_KSR1	mrna	KSR1	YES	23
480	mrna_COX4I2	mrna	COX4I2	YES	13
483	mrna_POU5F1	mrna	POU5F1	YES	35
484	mrna_CTC-510F12.2	mrna	CTC-510F12.2	NO	0
484	stv_CLEC7A	stv	CLEC7A	YES	29
486	mrna_RNF186	mrna	RNF186	YES	3
487	cnv_OTOF	cnv	OTOF	YES	17
488	stv_RNF26	stv	RNF26	YES	15
489	mrna_PRSS12	mrna	PRSS12	YES	18
489	mrna_LINC01060	mrna	LINC01060	NO	0
490	meth_CNOT10	meth	CNOT10	YES	13
490	mrna_AK4P1	mrna	AK4P1	NO	0
491	meth_PLBD2	meth	PLBD2	YES	6
492	meth_JAKMIP1	meth	JAKMIP1	YES	16
493	mrna_TARSL2	mrna	TARSL2	YES	15
494	mrna_RP11-809N8.5	mrna	RP11-809N8.5	NO	0
495	meth_XKR6	meth	XKR6	YES	2
496	meth_PODXL2	meth	PODXL2	YES	9
499	cnv_RNA5SP85	cnv	RNA5SP85	NO	0
499	mrna_VIP	mrna	VIP	YES	21
500	cnv_SCARNA21|ENSG00000251805.1	cnv	SCARNA21|ENSG00000251805.1	NO	0
500	mrna_PLG	mrna	PLG	YES	48
501	meth_ZNF672	meth	ZNF672	YES	8
506	mrna_CTD-3064M3.7	mrna	CTD-3064M3.7	NO	0
506	stv_NFU1	stv	NFU1	YES	11
507	meth_HES1	meth	HES1	YES	103
507	mrna_MATN1-AS1	mrna	MATN1-AS1	NO	0
508	stv_UGT1A9	stv	UGT1A9	YES	24
509	cnv_AGTR1	cnv	AGTR1	YES	40
509	mrna_METTL16	mrna	METTL16	YES	15
510	cnv_C3orf72	cnv	C3orf72	NO	0
510	meth_AATBC	meth	AATBC	NO	0
511	meth_SP100	meth	SP100	YES	43
511	mirna_MIR1285	mirna	MIR1285	NO	0
512	meth_LGALS3BP	meth	LGALS3BP	YES	14
513	meth_C20orf197	meth	C20orf197	NO	0
514	meth_CLN3	meth	CLN3	YES	55
514	mirna_MIR210	mirna	MIR210	YES	3
515	mrna_HIST1H4H	mrna	HIST1H4H	YES	36
516	mrna_PHKA2-AS1	mrna	PHKA2-AS1	NO	0
516	stv_UBE2D3	stv	UBE2D3	YES	33
517	mrna_EC5CR	mrna	EC5CR	YES	13
519	stv_ACACA	stv	ACACA	YES	30
520	meth_PYHIN1	meth	PYHIN1	YES	4
522	stv_FUT4	stv	FUT4	YES	15
523	cnv_RN7SKP25	cnv	RN7SKP25	NO	0
523	meth_HAL	meth	HAL	YES	11
524	meth_GPX1	meth	GPX1	YES	70

525	mrna_INMT	mrna	INMT	YES	11
526	mrna_SLC51A	mrna	SLC51A	YES	11
527	mrna_STK32B	mrna	STK32B	YES	12
527	mrna_MT-TC	mrna	MT-TC	NO	0
528	mrna_LINC01132	mrna	LINC01132	NO	0
528	mrna_RP11-1220K2.2	mrna	RP11-1220K2.2	NO	0
529	cnv_EIF2A	cnv	EIF2A	YES	19
531	mirna_MIR579	mirna	MIR579	NO	0
532	mrna_CACNA1A	mrna	CACNA1A	YES	68
533	cnv_ZC3H12C	cnv	ZC3H12C	YES	8
533	mrna_BDNF	mrna	BDNF	YES	48
535	meth_TNIP3	meth	TNIP3	YES	12
536	mrna_HOXA4	mrna	HOXA4	YES	10
536	stv_SEC23B	stv	SEC23B	YES	16
537	stv_MMP24	stv	MMP24	YES	26
538	mrna_AC098614.2	mrna	AC098614.2	NO	0
538	mrna_LINC01139	mrna	LINC01139	NO	0
539	mrna_AVPR1B	mrna	AVPR1B	YES	18
540	mrna_DGCR9	mrna	DGCR9	NO	0
540	stv_DCAF12L1	stv	DCAF12L1	YES	4
541	meth_DND1	meth	DND1	YES	9
542	cnv_BPESC1	cnv	BPESC1	NO	0
543	mrna_PRPSAP2	mrna	PRPSAP2	YES	11
544	stv_ITPKB	stv	ITPKB	YES	27
545	meth_GEMIN7	meth	GEMIN7	YES	14
546	mrna_CYP2C8	mrna	CYP2C8	YES	26
549	meth_KIAA1549L	meth	KIAA1549L	YES	2
549	mrna_PGF	mrna	PGF	YES	29
550	mirna_MIR5588	mirna	MIR5588	NO	0
554	cnv_PRR23A	cnv	PRR23A	NO	0
555	mrna_CLEC11A	mrna	CLEC11A	YES	7
556	meth_FGD2	meth	FGD2	YES	30
556	meth_RP11-973N13.5	meth	RP11-973N13.5	NO	0
559	stv_HMGCL	stv	HMGCL	YES	26
560	cnv_CP	cnv	CP	YES	19
560	mrna_SLC23A3	mrna	SLC23A3	YES	5
562	cnv_TRPC1	cnv	TRPC1	YES	25
562	mrna_ADSSL1	mrna	ADSSL1	YES	27
564	meth_ZNF57	meth	ZNF57	YES	7
565	mrna_ZYG11A	mrna	ZYG11A	YES	4
566	mrna_CLEC18B	mrna	CLEC18B	YES	6
567	mrna_RP11-286H15.1	mrna	RP11-286H15.1	NO	0
569	stv_NFIL3	stv	NFIL3	YES	17
570	mrna_EGOT	mrna	EGOT	NO	0
571	stv_CSMD3	stv	CSMD3	YES	4
575	mrna_GABRR2	mrna	GABRR2	YES	23
576	mrna_DPT	mrna	DPT	YES	8
577	meth_GNAL	meth	GNAL	YES	20
577	stv_SDHAF3	stv	SDHAF3	YES	7
578	mrna_ADAMTS10	mrna	ADAMTS10	YES	14
579	meth_SIGLEC6	meth	SIGLEC6	YES	9
579	meth_TAS2R4	meth	TAS2R4	YES	16
581	stv_RRP12	stv	RRP12	YES	6
582	stv_UGT1A4	stv	UGT1A4	YES	17
583	cnv_CPHL1P	cnv	CPHL1P	NO	0
583	meth_DARS	meth	DARS	YES	18
585	mrna_ATP7B	mrna	ATP7B	YES	40
586	meth_TSHZ1	meth	TSHZ1	YES	15
588	cnv_P2RY12	cnv	P2RY12	YES	40
588	mrna_EVA1B	mrna	EVA1B	YES	3
591	mrna_PTRF	mrna	PTRF	YES	14
592	mrna_RP11-1100L3.8	mrna	RP11-1100L3.8	NO	0
594	meth_GNAI2	meth	GNAI2	YES	43
595	meth_ENC1	meth	ENC1	YES	17

596	cnv_TRIM42	cnv	TRIM42	YES	4
597	cnv_PFN4	cnv	PFN4	YES	7
597	meth_ZNF623	meth	ZNF623	YES	7
598	mrna_ENPEP	mrna	ENPEP	YES	29
599	mrna_MTATP8P1	mrna	MTATP8P1	NO	0
601	meth_SH3BGRL3	meth	SH3BGRL3	YES	15
604	cnv_LPIN1	cnv	LPIN1	YES	35
605	mrna_RP11-10A14.5	mrna	RP11-10A14.5	NO	0
606	stv_CNTLN	stv	CNTLN	YES	12
607	meth_GPR132	meth	GPR132	YES	9
611	mrna_AMIGO1	mrna	AMIGO1	YES	24
612	cnv_MFSD2B	cnv	MFSD2B	YES	3
613	mrna_ACAD11	mrna	ACAD11	YES	16
614	cnv_MIR548S	cnv	MIR548S	NO	0
614	mrna_PLAC9	mrna	PLAC9	YES	2
615	mirna_MIR4521	mirna	MIR4521	NO	0
616	mrna_ASPRV1	mrna	ASPRV1	YES	8
618	meth_CPSF3L	meth	CPSF3L	YES	3
618	mrna_HIF1A-AS2	mrna	HIF1A-AS2	NO	0
619	mrna_RP3-453C12.14	mrna	RP3-453C12.14	NO	0
620	mrna_REN	mrna	REN	YES	33
621	cnv_SELT	cnv	SELT	NO	0
622	cnv_RN7SL724P	cnv	RN7SL724P	NO	0
622	meth_LEF1	meth	LEF1	YES	105
623	stv_NPFFR2	stv	NPFFR2	YES	19
624	mrna_CTD-2267D19.1	mrna	CTD-2267D19.1	NO	0
625	cnv_RNF7	cnv	RNF7	YES	25
626	meth_PPP3R1	meth	PPP3R1	YES	21
628	cnv_SLN	cnv	SLN	YES	21
629	mrna_DPF3	mrna	DPF3	YES	11
630	meth_C1orf86	meth	C1orf86	YES	10
630	stv_BTBD18	stv	BTBD18	YES	3
632	mrna_RP11-736E3.1	mrna	RP11-736E3.1	NO	0
633	cnv_AASDHPPT	cnv	AASDHPPT	YES	11
637	mrna_PDZD4	mrna	PDZD4	YES	3
638	mrna_CRYBB3	mrna	CRYBB3	YES	3
639	mrna_ACSM5P1	mrna	ACSM5P1	NO	0
639	stv_C19orf18	stv	C19orf18	YES	5
641	stv_RALGPS2	stv	RALGPS2	YES	8
642	meth_DRC7	meth	DRC7	YES	6
643	cnv_DNAJC27	cnv	DNAJC27	YES	11
645	meth_CALR	meth	CALR	YES	93
647	mirna_MIR1270	mirna	MIR1270	NO	0
648	cnv_CIB4	cnv	CIB4	YES	4
649	mrna_MROH2A	mrna	MROH2A	YES	1
650	meth_XDH	meth	XDH	YES	36
651	cnv_RN7SKP124	cnv	RN7SKP124	NO	0
651	mrna_TTC28	mrna	TTC28	YES	10
652	stv_ZHX3	stv	ZHX3	YES	17
653	mrna_WWC2-AS2	mrna	WWC2-AS2	NO	0
655	cnv_GPR113	cnv	GPR113	YES	8
655	meth_MAP4	meth	MAP4	YES	20
656	meth_MIR345	meth	MIR345	YES	3
657	stv_NBPF8P	stv	NBPF8P	NO	0
659	mrna_TMEM121	mrna	TMEM121	YES	5
660	cnv_FOXL2	cnv	FOXL2	YES	37
661	cnv_HLTF	cnv	HLTF	YES	33
661	mrna_HMGN2	mrna	HMGN2	YES	10
664	mrna_MTMR9LP	mrna	MTMR9LP	NO	0
666	mrna_CLEC4F	mrna	CLEC4F	YES	4
668	mrna_AK4	mrna	AK4	YES	27
670	meth_GDF9	meth	GDF9	YES	18
670	mrna_SSBP3-AS1	mrna	SSBP3-AS1	YES	1
672	stv_HSPA13	stv	HSPA13	YES	6

673	mrna_SFTPD	mrna	SFTPD	YES	31
674	stv_MTIF2	stv	MTIF2	YES	15
675	cnv_MSANTD4	cnv	MSANTD4	YES	2
676	meth_BOD1	meth	BOD1	YES	9
678	mrna_ATOH8	mrna	ATOH8	YES	24
679	mrna_RIMKLA	mrna	RIMKLA	YES	10
680	meth_DBN1	meth	DBN1	YES	29
680	mrna_CDNF	mrna	CDNF	YES	6
681	mrna_RP11-222K16.1	mrna	RP11-222K16.1	NO	0
682	stv_SUCNR1	stv	SUCNR1	YES	9
683	mirna_MIR5000	mirna	MIR5000	NO	0
685	cnv_KDELC2	cnv	KDELC2	YES	7
685	mrna_RAB11FIP5	mrna	RAB11FIP5	YES	27
687	meth_STOML3	meth	STOML3	YES	10
688	mrna_NMRK1	mrna	NMRK1	YES	13
689	cnv_CARD17	cnv	CARD17	YES	12
690	cnv_MIR4429	cnv	MIR4429	NO	0
691	stv_PTGS2	stv	PTGS2	YES	100
692	mrna_RP11-279F6.1	mrna	RP11-279F6.1	NO	0
693	mrna_DNAJC22	mrna	DNAJC22	YES	2
695	cnv_CASP5	cnv	CASP5	YES	19
696	cnv_RN7SL674P	cnv	RN7SL674P	NO	0
696	meth_DCUN1D2	meth	DCUN1D2	YES	6
697	mrna_CYP2J2	mrna	CYP2J2	YES	24
698	meth_ZCCHC7	meth	ZCCHC7	YES	8
700	cnv_FKBP1B	cnv	FKBP1B	YES	50
700	meth_UMPS	meth	UMPS	YES	20
701	meth_SPATA9	meth	SPATA9	YES	5
702	mrna_PITRM1-AS1	mrna	PITRM1-AS1	NO	0
704	cnv_PIK3CB	cnv	PIK3CB	YES	58
705	stv_MARCH9	stv	MARCH9	YES	12
706	cnv_GRK7	cnv	GRK7	YES	17
709	mrna_MCF2L	mrna	MCF2L	YES	16
710	meth_CTAGE1	meth	CTAGE1	YES	4
711	stv_FRMPD4	stv	FRMPD4	YES	8
713	mrna_TRPA1	mrna	TRPA1	YES	30
714	cnv_GPR171	cnv	GPR171	YES	11
717	mrna_RP11-958N24.2	mrna	RP11-958N24.2	NO	0
718	stv_HEATR5A	stv	HEATR5A	YES	1
719	mrna_AC067959.1	mrna	AC067959.1	NO	0
721	mrna_LINC01354	mrna	LINC01354	NO	0
724	stv_SAP30	stv	SAP30	YES	13
725	meth_NOTCH4	meth	NOTCH4	YES	36
725	stv_ITGA1	stv	ITGA1	YES	35
729	meth_MIF4GD	meth	MIF4GD	YES	8
732	stv_CARS2	stv	CARS2	YES	13
736	cnv_RNA5SP348	cnv	RNA5SP348	NO	0
737	meth_CAMKK1	meth	CAMKK1	YES	18
739	mrna_CHODL	mrna	CHODL	YES	10
740	meth_GPR22	meth	GPR22	YES	11
743	meth_TAP2	meth	TAP2	YES	37
744	mrna_TMEM174	mrna	TMEM174	YES	5
747	mrna_RAMP1	mrna	RAMP1	YES	29
750	cnv_RBP1	cnv	RBP1	YES	17
750	cnv_TMEM14E	cnv	TMEM14E	YES	2
751	cnv_CASP4	cnv	CASP4	YES	31
753	cnv_EPT1	cnv	EPT1	YES	11
753	mrna_INHBA-AS1	mrna	INHBA-AS1	NO	0
755	stv_RASSF9	stv	RASSF9	YES	9
757	stv_MORC4	stv	MORC4	YES	5
758	meth_GLTSCR1	meth	GLTSCR1	YES	1
760	meth_RPUSD3	meth	RPUSD3	YES	8
762	cnv_HPS3	cnv	HPS3	YES	6
764	meth_HSPA6	meth	HSPA6	YES	20

764	stv_CTNNB1	stv	CTNNB1	YES	260
768	cnv_RNA5SP88	cnv	RNA5SP88	NO	0
768	mrna_PPP1R14A	mrna	PPP1R14A	YES	6
771	cnv_DTNB	cnv	DTNB	YES	5
773	cnv_PLOD2	cnv	PLOD2	YES	17
773	mrna_RTCA-AS1	mrna	RTCA-AS1	NO	0
774	cnv_RNA5SP143	cnv	RNA5SP143	NO	0
777	mirna_MIR4645	mirna	MIR4645	NO	0
778	meth_FGB	meth	FGB	YES	49
779	stv_VWA5B1	stv	VWA5B1	YES	1
788	stv_RP11-244H3.4	stv	RP11-244H3.4	NO	0
791	stv_ALKBH1	stv	ALKBH1	YES	41
792	mrna_CYP4A11	mrna	CYP4A11	YES	32
794	mrna_ARSF	mrna	ARSF	YES	12
795	cnv_GYG1	cnv	GYG1	YES	16
796	mrna_RP11-299H21.1	mrna	RP11-299H21.1	NO	0
798	stv_ITPR1	stv	ITPR1	YES	50
799	meth_DOHH	meth	DOHH	YES	9
804	cnv_PBX2P1	cnv	PBX2P1	NO	0
806	mrna_RP11-473M20.9	mrna	RP11-473M20.9	NO	0
807	mrna_CDH4	mrna	CDH4	YES	12
808	stv_UGT1A1	stv	UGT1A1	YES	51
811	cnv_TM4SF18	cnv	TM4SF18	YES	2
812	meth_RAB23	meth	RAB23	YES	26
812	meth_YWHAE	meth	YWHAE	YES	58
814	mrna_NTN4	mrna	NTN4	YES	9
816	meth_TSPAN16	meth	TSPAN16	YES	4
819	cnv_ACAT1	cnv	ACAT1	YES	35
819	cnv_C11orf87	cnv	C11orf87	YES	3
820	meth_RP11-701H24.8	meth	RP11-701H24.8	NO	0
821	mrna_LINC01550	mrna	LINC01550	NO	0
823	cnv_GREB1	cnv	GREB1	YES	3
823	mirna_MIR5706	mirna	MIR5706	NO	0
824	meth_CTD-2215E18.1	meth	CTD-2215E18.1	NO	0
825	meth_GLRX3	meth	GLRX3	YES	20
826	mirna_MIR3170	mirna	MIR3170	NO	0
827	mrna_SLC5A1	mrna	SLC5A1	YES	21
828	meth_ANXA1	meth	ANXA1	YES	114
829	cnv_MED12L	cnv	MED12L	YES	9
829	mirna_MIR1251	mirna	MIR1251	NO	0
831	meth_SAMD7	meth	SAMD7	YES	1
833	meth_LRRC7	meth	LRRC7	YES	14
834	mrna_NPR3	mrna	NPR3	YES	26
839	cnv_FAM228A	cnv	FAM228A	NO	0
839	mirna_MIR6833	mirna	MIR6833	NO	0
841	cnv_PRR23C	cnv	PRR23C	NO	0
842	cnv_U2SURP	cnv	U2SURP	YES	7
843	cnv_POMC	cnv	POMC	YES	25
845	stv_USP15	stv	USP15	YES	25
847	meth_KDM5B	meth	KDM5B	YES	39
852	meth_C1orf27	meth	C1orf27	YES	3
860	meth_PKN1	meth	PKN1	YES	50
861	cnv_HADHB	cnv	HADHB	YES	25
864	mrna_HAAO	mrna	HAAO	YES	19
868	cnv_DDX10	cnv	DDX10	YES	11
870	cnv_NPAT	cnv	NPAT	YES	17
872	stv_IL36RN	stv	IL36RN	YES	15
873	mrna_SCGB3A1	mrna	SCGB3A1	YES	7
874	meth_LPAR5	meth	LPAR5	YES	10
878	mrna_MLYCD	mrna	MLYCD	YES	18
883	mrna_C9orf3	mrna	C9orf3	YES	14
886	mrna_FAM182B	mrna	FAM182B	NO	0
887	stv_INPP5D	stv	INPP5D	YES	42
889	mrna_EMID1	mrna	EMID1	YES	5

890	meth_SLX4	meth	SLX4	YES	32
891	meth_LARP4B	meth	LARP4B	YES	11
902	mrna_OR7E47P	mrna	OR7E47P	NO	0
905	meth_TRA2A	meth	TRA2A	YES	8
905	mrna_SSTR1	mrna	SSTR1	YES	27
907	mrna_TRNAU1AP	mrna	TRNAU1AP	YES	7
911	meth_FCGBP	meth	FCGBP	YES	3
914	mrna_KCNN1	mrna	KCNN1	YES	14
918	meth_USP4	meth	USP4	YES	21
918	mirna_MIR3941	mirna	MIR3941	NO	0
919	cnv_CASP12	cnv	CASP12	YES	10
928	stv_RPL15	stv	RPL15	YES	21
930	meth_SERPINB11	meth	SERPINB11	YES	6
931	cnv_MIR4693	cnv	MIR4693	NO	0
936	mrna_RP11-13J10.1	mrna	RP11-13J10.1	NO	0
938	stv_SMARCE1	stv	SMARCE1	YES	29
948	stv_MEF2BNB	stv	MEF2BNB	YES	2
950	stv_RNF103	stv	RNF103	YES	14
961	mrna_RP11-505K9.4	mrna	RP11-505K9.4	NO	0
984	mrna_TPCN2	mrna	TPCN2	YES	29
992	mrna_RP1-288H2.2	mrna	RP1-288H2.2	NO	0
998	mrna_ZNF232	mrna	ZNF232	YES	10
1023	mirna_MIR505	mirna	MIR505	YES	1

APPENDIX F

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	meth_BBX	meth	BBX	YES	7
1	meth_CCNT2	meth	CCNT2	YES	30
2	meth_CCNE2	meth	CCNE2	YES	19
2	meth_NEDD9	meth	NEDD9	YES	23
3	meth_ACAD9	meth	ACAD9	YES	12
3	meth_TEP1	meth	TEP1	YES	20
4	mirna_MIR10B	mirna	MIR10B	YES	2
4	mirna_MIR21	mirna	MIR21	YES	84
5	meth_CNGA4	meth	CNGA4	YES	18
5	meth_FOXJ3	meth	FOXJ3	YES	12
6	mrna_NFATC2	mrna	NFATC2	YES	38
6	stv_NRXN3	stv	NRXN3	YES	27
7	meth_UBE2Q1	meth	UBE2Q1	YES	17
7	mrna_STEAP4	mrna	STEAP4	YES	19
8	meth_PPP2R5B	meth	PPP2R5B	YES	21
8	mrna_HRC	mrna	HRC	YES	27
9	meth_B9D2	meth	B9D2	YES	17
9	mrna_GMDS	mrna	GMDS	YES	12
10	cnv_TADA3	cnv	TADA3	YES	30
10	meth_ANXA2	meth	ANXA2	YES	77
11	meth_LMNB1	meth	LMNB1	YES	13
11	meth_TOR3A	meth	TOR3A	YES	7
12	meth_ING2	meth	ING2	YES	35
12	meth_SCAP	meth	SCAP	YES	26
13	meth_PCBP2	meth	PCBP2	YES	25
13	meth_PPIF	meth	PPIF	YES	33
14	meth_NOP56	meth	NOP56	YES	19
14	meth_TBCA	meth	TBCA	YES	13
15	cnv_IL17RD	cnv	IL17RD	YES	12
15	meth_FAM134C	meth	FAM134C	YES	1
16	cnv_MBTD1	cnv	MBTD1	YES	8
16	meth_SVIL	meth	SVIL	YES	22
17	meth_ANKRA2	meth	ANKRA2	YES	16
17	mrna_CD34	mrna	CD34	YES	57
18	meth_ABCC2	meth	ABCC2	YES	46
19	stv_ARFGEF3	stv	ARFGEF3	YES	11
19	stv_TESK1	stv	TESK1	YES	18
20	meth_AGFG1	meth	AGFG1	YES	23
21	meth_MRPS10	meth	MRPS10	YES	9
21	meth_PFKFB4	meth	PFKFB4	YES	16
22	meth_CFL2	meth	CFL2	YES	20
22	meth_RIC8B	meth	RIC8B	YES	10
23	meth_MYOG	meth	MYOG	YES	60
23	meth_PRKCA	meth	PRKCA	YES	84
24	meth_MANBA	meth	MANBA	YES	15
25	meth_JUN	meth	JUN	YES	102

25	stv_KLHL21	stv	KLHL21	YES	13
26	meth_MAP3K7	meth	MAP3K7	YES	56
26	stv_FNBP1L	stv	FNBP1L	YES	23
27	meth_MKRN2	meth	MKRN2	YES	8
27	stv_MMP16	stv	MMP16	YES	29
28	mrna_HILPDA	mrna	HILPDA	YES	17
28	stv_FAM83G	stv	FAM83G	YES	5
29	meth_CREM	meth	CREM	YES	23
29	meth_RAC1	meth	RAC1	YES	87
30	meth_GNB3	meth	GNB3	YES	16
30	meth_IRX3	meth	IRX3	YES	14
31	mrna_ENG	mrna	ENG	YES	64
31	mrna_KCNAB1	mrna	KCNAB1	YES	40
32	meth_PAK4	meth	PAK4	YES	34
32	mrna_PYGM	mrna	PYGM	YES	16
33	cnv_APOH	cnv	APOH	YES	31
33	mrna_GBP1	mrna	GBP1	YES	31
34	meth_DOK2	meth	DOK2	YES	11
34	meth_KPNB1	meth	KPNB1	YES	46
35	meth_SUCLG1	meth	SUCLG1	YES	21
36	meth_TRIM63	meth	TRIM63	YES	22
36	mrna_GABPA	mrna	GABPA	YES	27
37	cnv_GNL3	cnv	GNL3	YES	21
37	meth_LIN54	meth	LIN54	YES	8
38	meth_NME8	meth	NME8	YES	17
38	mrna_SEPT4	mrna	SEPT4	YES	32
39	mirna_MIR211	mirna	MIR211	NO	0
40	mrna_SARAF	mrna	SARAF	YES	10
41	mrna_ST8SIA4	mrna	ST8SIA4	YES	16
41	mrna_IFIT3	mrna	IFIT3	YES	14
42	meth_IL25	meth	IL25	YES	14
42	mrna_RLF	mrna	RLF	YES	14
43	meth_NDUFAB1	meth	NDUFAB1	YES	25
43	mrna_TSGA10	mrna	TSGA10	YES	11
44	cnv_XYLB	cnv	XYLB	YES	17
44	stv_MET	stv	MET	YES	50
45	meth_NEO1	meth	NEO1	YES	15
45	meth_TRIM24	meth	TRIM24	YES	42
46	meth_ATM	meth	ATM	YES	98
47	meth_ANXA4	meth	ANXA4	YES	24
47	meth_GLOD4	meth	GLOD4	YES	3
48	cnv_KCNH8	cnv	KCNH8	YES	19
48	stv_PVR	stv	PVR	YES	32
49	cnv_CIDEC	cnv	CIDEC	YES	14
49	meth_ZDHHC8	meth	ZDHHC8	YES	16
50	meth_DAND5	meth	DAND5	YES	16
50	meth_PADI4	meth	PADI4	YES	27

51	meth_CDK5	meth	CDK5	YES	121
51	mirna_MIR185	mirna	MIR185	YES	1
52	cnv_UBE2Z	cnv	UBE2Z	YES	15
52	mrna_NRARP	mrna	NRARP	YES	13
53	mrna_SLC1A4	mrna	SLC1A4	YES	37
53	mrna_MIEF2	mrna	MIEF2	YES	9
54	cnv_COLQ	cnv	COLQ	YES	15
54	meth_MAPK4	meth	MAPK4	YES	22
55	meth_CHAMP1	meth	CHAMP1	YES	18
55	mrna_POPDC2	mrna	POPDC2	YES	7
56	mrna_ATP1B2	mrna	ATP1B2	YES	31
56	mrna_RHOF	mrna	RHOF	YES	15
57	meth_RD3	meth	RD3	YES	4
57	meth_TAMM41	meth	TAMM41	YES	11
58	meth_ACIN1	meth	ACIN1	YES	23
58	mrna_TRIM45	mrna	TRIM45	YES	9
59	meth_DUSP11	meth	DUSP11	YES	17
59	meth_NCK1	meth	NCK1	YES	49
60	meth_HIVEP1	meth	HIVEP1	YES	19
60	mrna_UPB1	mrna	UPB1	YES	12
61	mrna_PDZD2	mrna	PDZD2	YES	7
61	mrna_CDCA2	mrna	CDCA2	YES	8
62	mrna_HNMT	mrna	HNMT	YES	21
62	mrna_GJC1	mrna	GJC1	YES	27
63	cnv_FHIT	cnv	FHIT	YES	21
63	mrna_REEP6	mrna	REEP6	YES	13
64	mrna_ARRDC1	mrna	ARRDC1	YES	4
64	stv_ATF2	stv	ATF2	YES	53
65	meth_PAX2	meth	PAX2	YES	96
65	mrna_CIAPIN1	mrna	CIAPIN1	YES	17
66	meth_RPS12	meth	RPS12	YES	17
66	meth_TOR1AIP2	meth	TOR1AIP2	YES	12
67	meth_CALCOCO2	meth	CALCOCO2	YES	17
67	meth_ITCH	meth	ITCH	YES	45
68	meth_HPCAL1	meth	HPCAL1	YES	5
69	cnv_FGD5	cnv	FGD5	YES	24
69	meth_PPFIA1	meth	PPFIA1	YES	14
70	mrna_PAG1	mrna	PAG1	YES	20
71	cnv_ZNF445	cnv	ZNF445	YES	9
72	meth_DUSP16	meth	DUSP16	YES	18
72	mrna_COQ9	mrna	COQ9	YES	7
73	meth_DNMBP	meth	DNMBP	YES	13
73	stv_FNDC1	stv	FNDC1	YES	10
74	cnv_PBRM1	cnv	PBRM1	YES	13
74	meth_C5AR1	meth	C5AR1	YES	46
75	mrna_CSNK1D	mrna	CSNK1D	YES	54
76	cnv_EIF4A3	cnv	EIF4A3	YES	55

76	mrna_SLC44A4	mrna	SLC44A4	YES	16
77	mrna_STC2	mrna	STC2	YES	26
77	stv_CIRH1A	stv	CIRH1A	YES	7
78	mrna_RBM22	mrna	RBM22	YES	26
78	mrna_MYL4	mrna	MYL4	YES	13
79	meth_ACAT1	meth	ACAT1	YES	35
79	mrna_MESP2	mrna	MESP2	YES	16
80	meth_FOXJ2	meth	FOXJ2	YES	15
80	mrna_SMPDL3A	mrna	SMPDL3A	YES	10
81	mrna_EVPL	mrna	EVPL	YES	17
81	stv_MTRF1L	stv	MTRF1L	YES	6
82	mrna_ELMO1	mrna	ELMO1	YES	20
82	stv_HDAC5	stv	HDAC5	YES	49
83	meth_PROS1	meth	PROS1	YES	24
83	mrna_NGFR	mrna	NGFR	YES	52
84	mrna_GTF2IRD1	mrna	GTF2IRD1	YES	15
85	cnv_WFIKKN2	cnv	WFIKKN2	YES	13
85	meth_STON2	meth	STON2	YES	17
86	cnv_RASSF1	cnv	RASSF1	YES	19
86	mrna_DARS	mrna	DARS	YES	18
87	meth_CCDC114	meth	CCDC114	YES	7
87	meth_TMEM241	meth	TMEM241	YES	8
88	meth_P4HTM	meth	P4HTM	YES	14
88	mrna_GBP4	mrna	GBP4	YES	10
89	meth_DLAT	meth	DLAT	YES	19
90	mrna_FLI1	mrna	FLI1	YES	23
91	meth_MYO1C	meth	MYO1C	YES	52
91	meth_PTRH2	meth	PTRH2	YES	11
92	cnv_CISH	cnv	CISH	YES	18
92	cnv_CPNE9	cnv	CPNE9	YES	4
93	meth_JAGN1	meth	JAGN1	YES	18
93	stv_EFNA1	stv	EFNA1	YES	40
94	cnv_CRTAP	cnv	CRTAP	YES	12
94	cnv_DNAH12	cnv	DNAH12	YES	12
95	meth_RIF1	meth	RIF1	YES	31
95	stv_RBM20	stv	RBM20	YES	9
96	cnv_CSH1	cnv	CSH1	YES	7
96	stv_CSNK1E	stv	CSNK1E	YES	38
97	meth_CMPK1	meth	CMPK1	YES	27
97	mrna_HLA-E	mrna	HLA-E	YES	44
98	cnv_FAM20A	cnv	FAM20A	YES	14
98	stv_NR3C1	stv	NR3C1	YES	46
99	meth_ACAA2	meth	ACAA2	YES	19
99	stv_TBC1D17	stv	TBC1D17	YES	16
100	mrna_CDK18	mrna	CDK18	YES	12
100	stv_NELL1	stv	NELL1	YES	14
101	cnv_DUSP7	cnv	DUSP7	YES	27

101	meth_GARNL3	meth	GARNL3	YES	3
102	cnv_BHLHE40	cnv	BHLHE40	YES	30
102	mrna_MAPRE2	mrna	MAPRE2	YES	12
103	cnv_SEMA3F	cnv	SEMA3F	YES	20
103	mrna_GHR	mrna	GHR	YES	64
104	cnv_AXIN2	cnv	AXIN2	YES	49
104	stv_TRAP1	stv	TRAP1	YES	22
105	mrna_KIAA0922	mrna	KIAA0922	YES	1
105	mrna_GNG2	mrna	GNG2	YES	16
106	mrna_RPS6KA1	mrna	RPS6KA1	YES	45
106	stv_PGM2	stv	PGM2	YES	22
107	meth_RGS7	meth	RGS7	YES	16
107	meth_RNASE2	meth	RNASE2	YES	18
108	mrna_FLT4	mrna	FLT4	YES	49
108	mrna_CUX1	mrna	CUX1	YES	24
109	mrna_PYGB	mrna	PYGB	YES	18
109	stv_HAO1	stv	HAO1	YES	21
110	meth_PTRH1	meth	PTRH1	YES	5
110	mrna_RHOT2	mrna	RHOT2	YES	21
111	meth_GJC2	meth	GJC2	YES	14
111	meth_VWF	meth	VWF	YES	29
112	cnv_RTP3	cnv	RTP3	YES	9
112	mrna_PLXDC1	mrna	PLXDC1	YES	15
113	meth_MPO	meth	MPO	YES	36
113	mrna_HEG1	mrna	HEG1	YES	32
114	mrna_PNCK	mrna	PNCK	YES	16
114	mrna_SSTR2	mrna	SSTR2	YES	31
115	meth_ALPK1	meth	ALPK1	YES	7
115	mrna_TK2	mrna	TK2	YES	18
116	meth_CTU2	meth	CTU2	YES	13
117	meth_JAG1	meth	JAG1	YES	58
117	mrna_CCND1	mrna	CCND1	YES	72
118	meth_FRS3	meth	FRS3	YES	12
118	meth_RFT1	meth	RFT1	YES	8
119	mrna_GSS	mrna	GSS	YES	24
119	mrna_BRSK1	mrna	BRSK1	YES	34
120	meth_DNAH9	meth	DNAH9	YES	20
120	meth_JUND	meth	JUND	YES	44
121	mrna_PLEKHG1	mrna	PLEKHG1	YES	6
121	stv_DGKQ	stv	DGKQ	YES	52
122	meth_LDLRAD4	meth	LDLRAD4	YES	13
122	stv_ATP6AP1	stv	ATP6AP1	YES	31
123	cnv_CADPS	cnv	CADPS	YES	20
123	meth_PRKAB2	meth	PRKAB2	YES	18
124	mrna_TIE1	mrna	TIE1	YES	25
124	mrna_KIF26A	mrna	KIF26A	YES	16
125	meth_ENTPD2	meth	ENTPD2	YES	16

125	meth_TALDO1	meth	TALDO1	YES	18
126	cnv_SOCS3	cnv	SOCS3	YES	29
126	meth_LRPPRC	meth	LRPPRC	YES	30
127	meth_TMEM130	meth	TMEM130	YES	5
128	meth_C5AR2	meth	C5AR2	YES	24
128	stv_NR2F6	stv	NR2F6	YES	23
129	cnv_KIF2B	cnv	KIF2B	YES	29
129	meth_NAB2	meth	NAB2	YES	16
130	mrna_PLXNA2	mrna	PLXNA2	YES	20
130	stv_VOPP1	stv	VOPP1	YES	10
131	meth_PCCB	meth	PCCB	YES	16
131	stv_ZRANB3	stv	ZRANB3	YES	26
132	meth_PRSS1	meth	PRSS1	YES	13
132	mrna_NID1	mrna	NID1	YES	21
133	mrna_ENTPD1	mrna	ENTPD1	YES	15
133	mrna_SSH3	mrna	SSH3	YES	15
134	mrna_TARBP2	mrna	TARBP2	YES	36
134	stv_APOA2	stv	APOA2	YES	72
135	cnv_GRIP2	cnv	GRIP2	YES	9
135	cnv_SMIM4	cnv	SMIM4	YES	3
136	cnv_SLC25A20	cnv	SLC25A20	YES	14
136	stv_SEC23IP	stv	SEC23IP	YES	19
137	mrna_SLC15A2	mrna	SLC15A2	YES	19
137	mrna_CNP	mrna	CNP	YES	31
138	cnv_UBE2E2	cnv	UBE2E2	YES	14
138	stv_MIB1	stv	MIB1	YES	25
139	mrna_ZDHHC12	mrna	ZDHHC12	YES	9
139	stv_HYAL3	stv	HYAL3	YES	19
140	cnv_MAP3K14	cnv	MAP3K14	YES	31
140	mrna_PCDH12	mrna	PCDH12	YES	15
141	meth_TIPARP	meth	TIPARP	YES	24
141	stv_STEAP4	stv	STEAP4	YES	19
142	mrna_MMRN1	mrna	MMRN1	YES	8
142	stv_ETNK2	stv	ETNK2	YES	16
143	meth_ZNF202	meth	ZNF202	YES	17
143	mrna_FAM26E	mrna	FAM26E	YES	9
144	meth_DNAAF1	meth	DNAAF1	YES	24
145	meth_NR3C1	meth	NR3C1	YES	46
145	meth_RRS1	meth	RRS1	YES	18
146	cnv_ITIH3	cnv	ITIH3	YES	10
146	mrna_ARHGEF17	mrna	ARHGEF17	YES	14
147	meth_CD5L	meth	CD5L	YES	12
147	meth_NDUFC1	meth	NDUFC1	YES	10
148	meth_RHO	meth	RHO	YES	38
148	mrna_VWF	mrna	VWF	YES	29
149	meth_CCNYL1	meth	CCNYL1	YES	9
149	meth_TTC1	meth	TTC1	YES	5

150	stv_C17orf80	stv	C17orf80	YES	5
150	stv_GBAS	stv	GBAS	YES	7
151	stv_MOG	stv	MOG	YES	8
151	stv_SOX18	stv	SOX18	YES	39
152	meth_CNOT2	meth	CNOT2	YES	28
152	mrna_CRLS1	mrna	CRLS1	YES	18
153	mrna_SH2B3	mrna	SH2B3	YES	11
153	mrna_SLIT3	mrna	SLIT3	YES	20
154	cnv_CDK3	cnv	CDK3	YES	26
154	meth_MRS2	meth	MRS2	YES	10
155	cnv_RAD51C	cnv	RAD51C	YES	40
155	meth_DHX8	meth	DHX8	YES	19
156	meth_MAP1A	meth	MAP1A	YES	9
156	meth_PHLDB2	meth	PHLDB2	YES	20
157	meth_RAB33B	meth	RAB33B	YES	20
158	meth_CDK19	meth	CDK19	YES	16
158	stv_CUL3	stv	CUL3	YES	59
159	meth_BMI1	meth	BMI1	YES	23
159	stv_PRAMEF1	stv	PRAMEF1	YES	6
160	mrna_PEA15	mrna	PEA15	YES	16
160	stv_CDC7	stv	CDC7	YES	28
161	cnv_CCR9	cnv	CCR9	YES	17
161	stv_KATNAL1	stv	KATNAL1	YES	20
162	stv_CREB1	stv	CREB1	YES	92
162	stv_UNC119	stv	UNC119	YES	24
163	mrna_PIGR	mrna	PIGR	YES	17
164	cnv_BTBD17	cnv	BTBD17	YES	6
164	mrna_PDE2A	mrna	PDE2A	YES	49
165	mrna_OAS2	mrna	OAS2	YES	29
165	mrna_GDF6	mrna	GDF6	YES	22
166	meth_CHRNA9	meth	CHRNA9	YES	24
166	mrna_THSD1	mrna	THSD1	YES	6
168	meth_GYS2	meth	GYS2	YES	16
169	meth_TMED9	meth	TMED9	YES	20
169	stv_PFAS	stv	PFAS	YES	14
170	meth_CD209	meth	CD209	YES	35
170	stv_INPP5K	stv	INPP5K	YES	61
171	meth_ALYREF	meth	ALYREF	YES	23
171	meth_EWSR1	meth	EWSR1	YES	13
172	mrna_LRRN4	mrna	LRRN4	YES	6
172	stv_NYAP2	stv	NYAP2	YES	4
173	mrna_WIPI1	mrna	WIPI1	YES	28
173	mrna_PCYT2	mrna	PCYT2	YES	11
174	meth_SYDE1	meth	SYDE1	YES	9
174	mrna_RHPN1	mrna	RHPN1	YES	3
175	cnv_RAD54L2	cnv	RAD54L2	YES	8
175	stv_SLC25A10	stv	SLC25A10	YES	31

176	meth_ARPC3	meth	ARPC3	YES	24
176	meth_TXNIP	meth	TXNIP	YES	28
177	cnv_STAC	cnv	STAC	YES	10
177	mrna_RGS5	mrna	RGS5	YES	8
178	cnv_CCR4	cnv	CCR4	YES	24
178	mrna_ENPP2	mrna	ENPP2	YES	37
179	meth_PGLYRP3	meth	PGLYRP3	YES	23
179	stv_LILRB4	stv	LILRB4	YES	15
180	mrna_BIN1	mrna	BIN1	YES	33
180	stv_PALM2	stv	PALM2	YES	3
181	meth_GCNT3	meth	GCNT3	YES	19
182	meth_SLC50A1	meth	SLC50A1	YES	15
182	stv_TLR5	stv	TLR5	YES	20
183	meth_ATF1	meth	ATF1	YES	33
183	meth_ELF5	meth	ELF5	YES	20
184	meth_ARMC9	meth	ARMC9	YES	2
184	meth_TAF5	meth	TAF5	YES	22
185	mrna_PPP1R3C	mrna	PPP1R3C	YES	10
186	cnv_CNTN6	cnv	CNTN6	YES	12
186	mrna_FCN3	mrna	FCN3	YES	17
187	meth_KRT32	meth	KRT32	YES	7
187	stv_YARS2	stv	YARS2	YES	20
188	meth_TBL2	meth	TBL2	YES	9
189	meth_MRGPRX1	meth	MRGPRX1	YES	9
189	mrna_MGAT3	mrna	MGAT3	YES	9
190	meth_TXNRD1	meth	TXNRD1	YES	44
190	mrna_PDGFRB	mrna	PDGFRB	YES	108
191	cnv_MKS1	cnv	MKS1	YES	32
191	meth_SLC23A1	meth	SLC23A1	YES	34
192	cnv_CD300E	cnv	CD300E	YES	7
192	mrna_LZTS1	mrna	LZTS1	YES	30
193	cnv_SNRK	cnv	SNRK	YES	14
193	stv_DEF6	stv	DEF6	YES	11
194	cnv_AMIGO3	cnv	AMIGO3	YES	5
194	mrna_CALCRL	mrna	CALCRL	YES	32
195	cnv_SUPT4H1	cnv	SUPT4H1	YES	24
196	meth_USF1	meth	USF1	YES	37
196	mrna_MBNL1	mrna	MBNL1	YES	18
197	cnv_PDK2	cnv	PDK2	YES	26
197	cnv_SATB1	cnv	SATB1	YES	29
198	cnv_GALNT15	cnv	GALNT15	YES	12
198	meth_FGF10	meth	FGF10	YES	150
199	cnv_WDR82	cnv	WDR82	YES	13
199	meth_FTH1	meth	FTH1	YES	25
200	meth_ALPL	meth	ALPL	YES	30
200	meth_PDC	meth	PDC	YES	15
201	meth_PIP4K2B	meth	PIP4K2B	YES	29

201	mrna_SLC2A3	mrna	SLC2A3	YES	25
202	mrna_TOMM34	mrna	TOMM34	YES	11
203	stv_WDR81	stv	WDR81	YES	3
204	meth_KLF5	meth	KLF5	YES	30
204	meth_PEX16	meth	PEX16	YES	17
205	cnv_UQCRC1	cnv	UQCRC1	YES	23
206	meth_SGPP2	meth	SGPP2	YES	10
206	mrna_BTN3A3	mrna	BTN3A3	YES	6
207	mrna_SLC39A14	mrna	SLC39A14	YES	21
207	stv_ORMDL2	stv	ORMDL2	YES	9
208	meth_MRPL3	meth	MRPL3	YES	11
208	mrna_ARL15	mrna	ARL15	YES	7
209	mrna_OSBPL7	mrna	OSBPL7	YES	19
210	cnv_WBP2	cnv	WBP2	YES	10
210	meth_SERPINA12	meth	SERPINA12	YES	13
211	mrna_RAP2A	mrna	RAP2A	YES	27
211	mrna_NGF	mrna	NGF	YES	57
212	cnv_IL17RE	cnv	IL17RE	YES	11
212	cnv_ST6GALNAC1	cnv	ST6GALNAC1	YES	14
213	meth_ASB4	meth	ASB4	YES	14
213	stv_SHMT1	stv	SHMT1	YES	36
214	cnv_PRSS42	cnv	PRSS42	YES	10
214	mrna_SYNM	mrna	SYNM	YES	18
215	meth_FBXL14	meth	FBXL14	YES	7
215	meth_LTA4H	meth	LTA4H	YES	27
216	meth_CNTD1	meth	CNTD1	YES	2
217	cnv_CCR1	cnv	CCR1	YES	38
217	mrna_TCF4	mrna	TCF4	YES	37
218	cnv_PRKAR1A	cnv	PRKAR1A	YES	39
218	mrna_PTPRE	mrna	PTPRE	YES	16
219	meth_FKRP	meth	FKRP	YES	18
220	cnv_PARP3	cnv	PARP3	YES	22
220	meth_GABRR2	meth	GABRR2	YES	23
221	mrna_TAF6	mrna	TAF6	YES	22
221	mrna_CLUH	mrna	CLUH	YES	5
222	stv_SH3BP1	stv	SH3BP1	YES	6
223	meth_PTP4A2	meth	PTP4A2	YES	17
224	cnv_TBX2	cnv	TBX2	YES	38
224	stv_ETS1	stv	ETS1	YES	49
225	stv_ABCA7	stv	ABCA7	YES	41
226	cnv_HIGD1A	cnv	HIGD1A	YES	11
226	stv_EPB41L4A	stv	EPB41L4A	YES	8
227	mrna_PLEKHG2	mrna	PLEKHG2	YES	8
227	mrna_PDE3A	mrna	PDE3A	YES	27
228	cnv_TRAIP	cnv	TRAIP	YES	16
228	stv_ARHGEF16	stv	ARHGEF16	YES	16
229	mrna_TRIM21	mrna	TRIM21	YES	37

230	cnv_PLCD1	cnv	PLCD1	YES	25
230	meth_PAPD7	meth	PAPD7	YES	17
231	cnv_ANO10	cnv	ANO10	YES	11
231	meth_EI24	meth	EI24	YES	13
232	mrna_FTSJ3	mrna	FTSJ3	YES	17
232	mrna_ADSSL1	mrna	ADSSL1	YES	27
233	meth_GPSM3	meth	GPSM3	YES	14
234	cnv_SLC4A1	cnv	SLC4A1	YES	31
234	mrna_SEC14L1	mrna	SEC14L1	YES	13
235	mrna_KATNB1	mrna	KATNB1	YES	28
236	meth_PTBP1	meth	PTBP1	YES	20
237	cnv_BECN1	cnv	BECN1	YES	75
237	stv_FSD1	stv	FSD1	YES	9
238	meth_PES1	meth	PES1	YES	21
239	meth_HIST2H2AC	meth	HIST2H2AC	YES	10
239	stv_MUC3A	stv	MUC3A	YES	11
240	cnv_TKT	cnv	TKT	YES	21
240	meth_PENK	meth	PENK	YES	45
241	meth_ASB2	meth	ASB2	YES	12
241	mrna_DOCK6	mrna	DOCK6	YES	8
242	cnv_CARD14	cnv	CARD14	YES	13
242	stv_MAD1L1	stv	MAD1L1	YES	26
243	meth_CYP4B1	meth	CYP4B1	YES	22
243	mrna_PLEKHA2	mrna	PLEKHA2	YES	11
244	stv_ENTPD4	stv	ENTPD4	YES	14
245	meth_RHPN1	meth	RHPN1	YES	3
245	stv_UBE2R2	stv	UBE2R2	YES	14
246	meth_RABGAP1	meth	RABGAP1	YES	24
246	mrna_CATIP	mrna	CATIP	YES	10
247	meth_TAT	meth	TAT	YES	24
247	stv_CYFIP1	stv	CYFIP1	YES	57
248	meth_SERPINF2	meth	SERPINF2	YES	33
248	mrna_SPARCL1	mrna	SPARCL1	YES	13
249	cnv_UBA7	cnv	UBA7	YES	19
249	stv_KL	stv	KL	YES	39
250	cnv_TOM1L1	cnv	TOM1L1	YES	24
250	mrna_COL15A1	mrna	COL15A1	YES	18
252	cnv_CYGB	cnv	CYGB	YES	25
252	stv_PPIL2	stv	PPIL2	YES	18
253	mrna_ACKR3	mrna	ACKR3	YES	33
253	mrna_DNAAF1	mrna	DNAAF1	YES	24
254	meth_GRB10	meth	GRB10	YES	17
254	stv_TMEM9	stv	TMEM9	YES	10
255	cnv_KCNJ2	cnv	KCNJ2	YES	44
255	meth_AP3M2	meth	AP3M2	YES	13
256	meth_LEFTY2	meth	LEFTY2	YES	17
256	mrna_TPD52L1	mrna	TPD52L1	YES	13

257	cnv_DLX3	cnv	DLX3	YES	14
257	mrna_AXIN2	mrna	AXIN2	YES	49
258	meth_RCC2	meth	RCC2	YES	38
258	mrna_LRRC8C	mrna	LRRC8C	YES	17
259	meth_SFXN4	meth	SFXN4	YES	10
260	cnv_GPX1	cnv	GPX1	YES	70
260	meth_SLC26A3	meth	SLC26A3	YES	40
261	meth_ACKR2	meth	ACKR2	YES	26
261	meth_CENPJ	meth	CENPJ	YES	24
262	cnv_ENPP7	cnv	ENPP7	YES	15
262	meth_NADK2	meth	NADK2	YES	12
263	cnv_SCPEP1	cnv	SCPEP1	YES	12
264	cnv_ITPR1	cnv	ITPR1	YES	50
264	mrna_CAMK4	mrna	CAMK4	YES	29
265	cnv_ICAM2	cnv	ICAM2	YES	14
265	mrna_CDON	mrna	CDON	YES	29
266	cnv_HESX1	cnv	HESX1	YES	19
266	meth_PTPN1	meth	PTPN1	YES	54
267	meth_CX3CR1	meth	CX3CR1	YES	37
268	meth_SEMA4D	meth	SEMA4D	YES	36
268	mrna_DLL4	mrna	DLL4	YES	43
269	cnv_TMEM115	cnv	TMEM115	YES	18
269	stv_SCRN2	stv	SCRN2	YES	7
270	cnv_CAND2	cnv	CAND2	YES	8
270	meth_PLCG1	meth	PLCG1	YES	44
271	cnv_CD79B	cnv	CD79B	YES	22
271	cnv_SKA2	cnv	SKA2	YES	19
272	cnv_SUCLG2	cnv	SUCLG2	YES	20
272	meth_PLEC	meth	PLEC	YES	23
273	meth_BHLHA15	meth	BHLHA15	YES	21
273	meth_SCAMP1	meth	SCAMP1	YES	18
274	cnv_SLC9A3R1	cnv	SLC9A3R1	YES	73
274	stv_CRNN	stv	CRNN	YES	8
275	cnv_KIAA0195	cnv	KIAA0195	YES	1
276	meth_DIMT1	meth	DIMT1	YES	15
276	stv_COL18A1	stv	COL18A1	YES	25
277	stv_DHX30	stv	DHX30	YES	18
277	stv_WISP1	stv	WISP1	YES	13
278	meth_MSTO1	meth	MSTO1	YES	8
278	stv_GAPVD1	stv	GAPVD1	YES	14
279	meth_SBDS	meth	SBDS	YES	22
279	stv_LCT	stv	LCT	YES	16
280	mirna_MIR218	mirna	MIR218	NO	0
281	meth_WFDC12	meth	WFDC12	YES	6
281	mrna_FAM172A	mrna	FAM172A	YES	2
282	mrna_TP53I11	mrna	TP53I11	YES	4
282	mrna_TRAIP	mrna	TRAIP	YES	16

283	mrna_TUBA3D	mrna	TUBA3D	YES	18
283	stv_TEX264	stv	TEX264	YES	5
284	meth_DCLK1	meth	DCLK1	YES	30
284	stv_MYO7B	stv	MYO7B	YES	15
285	stv_PLK3	stv	PLK3	YES	44
286	meth_KANK2	meth	KANK2	YES	12
286	meth_LDLR	meth	LDLR	YES	75
287	stv_CSF2RB	stv	CSF2RB	YES	24
288	mrna_ODC1	mrna	ODC1	YES	19
288	stv_NRBP1	stv	NRBP1	YES	17
289	meth_HYAL2	meth	HYAL2	YES	67
289	mrna_BBS5	mrna	BBS5	YES	26
290	meth_PDCD1LG2	meth	PDCD1LG2	YES	14
290	stv_HEPH	stv	HEPH	YES	18
291	meth_TRAF1	meth	TRAF1	YES	15
292	meth_RNF111	meth	RNF111	YES	26
292	mrna_SLFN11	mrna	SLFN11	YES	11
293	mrna_CCM2L	mrna	CCM2L	YES	10
293	stv_GGT7	stv	GGT7	YES	14
294	meth_ANXA7	meth	ANXA7	YES	28
294	mrna_TGFBI	mrna	TGFBI	YES	21
295	meth_IFITM2	meth	IFITM2	YES	15
295	meth_IFT74	meth	IFT74	YES	23
296	mrna_INSIG2	mrna	INSIG2	YES	24
296	stv_KCTD8	stv	KCTD8	YES	10
297	meth_BEST3	meth	BEST3	YES	13
298	mrna_PLN	mrna	PLN	YES	54
298	stv_RBMX	stv	RBMX	YES	36
299	mrna_SOSTDC1	mrna	SOSTDC1	YES	16
299	stv_SCNN1A	stv	SCNN1A	YES	25
300	mrna_MYOC	mrna	MYOC	YES	44
300	mrna_ZEB1	mrna	ZEB1	YES	45
301	mrna_S100A14	mrna	S100A14	YES	16
301	stv_AKAP9	stv	AKAP9	YES	43
302	meth_CNTNAP2	meth	CNTNAP2	YES	35
302	mrna_RECQL5	mrna	RECQL5	YES	33
303	meth_DAPK3	meth	DAPK3	YES	48
303	stv_RARS2	stv	RARS2	YES	13
304	mrna_CEP120	mrna	CEP120	YES	18
305	meth_PAG1	meth	PAG1	YES	20
306	meth_XAF1	meth	XAF1	YES	10
307	cnv_ACSF2	cnv	ACSF2	YES	12
307	mirna_MIR432	mirna	MIR432	YES	1
308	cnv_ATXN7L3	cnv	ATXN7L3	YES	11
308	mrna_FOXC2	mrna	FOXC2	YES	62
309	mrna_ADRA2B	mrna	ADRA2B	YES	28
309	stv_RB1	stv	RB1	YES	84

310	mrna_CLDN3	mrna	CLDN3	YES	21
311	stv_KDM1B	stv	KDM1B	YES	24
312	stv_SALL4	stv	SALL4	YES	31
313	meth_PRL	meth	PRL	YES	24
313	mrna_SOX7	mrna	SOX7	YES	14
314	meth_FOXM1	meth	FOXM1	YES	38
314	mrna_PHKA2	mrna	PHKA2	YES	14
315	meth_CTDNEP1	meth	CTDNEP1	YES	23
316	meth_PPEF2	meth	PPEF2	YES	23
316	mrna_CC2D1A	mrna	CC2D1A	YES	21
317	stv_SHPRH	stv	SHPRH	YES	19
318	meth_ECI1	meth	ECI1	YES	13
318	stv_PLVAP	stv	PLVAP	YES	13
319	meth_CAP1	meth	CAP1	YES	21
319	meth_HSD17B13	meth	HSD17B13	YES	10
320	cnv_GRB2	cnv	GRB2	YES	73
320	mrna_PLXNB1	mrna	PLXNB1	YES	30
321	mrna_SPRED1	mrna	SPRED1	YES	22
321	stv_FLOT2	stv	FLOT2	YES	33
322	mirna_MIR31	mirna	MIR31	YES	6
322	stv_HP1BP3	stv	HP1BP3	YES	14
323	meth_C14orf1	meth	C14orf1	YES	6
323	mrna_COL25A1	mrna	COL25A1	YES	12
324	mrna_PDE4B	mrna	PDE4B	YES	33
324	stv_MEPCE	stv	MEPCE	YES	12
325	stv_SLIT1	stv	SLIT1	YES	23
326	mirna_MIR206	mirna	MIR206	YES	4
326	mrna_TMTC1	mrna	TMTC1	YES	5
327	meth_PPIL2	meth	PPIL2	YES	18
327	mrna_BBC3	mrna	BBC3	YES	32
328	meth_MEX3C	meth	MEX3C	YES	10
328	mrna_LDLRAD4	mrna	LDLRAD4	YES	13
329	meth_TFDP1	meth	TFDP1	YES	31
329	mrna_AATK	mrna	AATK	YES	20
330	stv_PIAS4	stv	PIAS4	YES	28
330	stv_QRSL1	stv	QRSL1	YES	11
331	stv_MMP13	stv	MMP13	YES	23
332	cnv_LIMD1	cnv	LIMD1	YES	34
332	mrna_SLC6A3	mrna	SLC6A3	YES	52
333	cnv_DGKE	cnv	DGKE	YES	20
333	meth_ZFHX3	meth	ZFHX3	YES	30
335	mrna_GPS1	mrna	GPS1	YES	15
336	meth_SGSH	meth	SGSH	YES	12
336	stv_PBRM1	stv	PBRM1	YES	13
337	mrna_ARHGEF6	mrna	ARHGEF6	YES	18
338	mrna_ELK3	mrna	ELK3	YES	22
339	stv_B3GAT3	stv	B3GAT3	YES	22

340	cnv_CCK	cnv	CCK	YES	28
340	meth_GOLPH3L	meth	GOLPH3L	YES	16
341	mirna_MIR96	mirna	MIR96	YES	2
341	stv_INPP5D	stv	INPP5D	YES	42
342	meth_GRIK1	meth	GRIK1	YES	30
342	meth_IL36G	meth	IL36G	YES	10
343	mrna_SPARC	mrna	SPARC	YES	47
343	stv_CLUH	stv	CLUH	YES	5
344	cnv_TIMP4	cnv	TIMP4	YES	22
344	meth_CHPF	meth	CHPF	YES	16
345	cnv_SLC6A11	cnv	SLC6A11	YES	17
345	stv_KIAA0430	stv	KIAA0430	YES	11
346	meth_KAT2B	meth	KAT2B	YES	51
346	stv_UBE2E3	stv	UBE2E3	YES	15
347	meth_SYCP3	meth	SYCP3	YES	11
347	stv_YBX2	stv	YBX2	YES	22
348	meth_BRD2	meth	BRD2	YES	12
349	mrna_CAV1	mrna	CAV1	YES	141
349	mrna_AK1	mrna	AK1	YES	23
350	stv_GALNT14	stv	GALNT14	YES	11
351	meth_KRBA2	meth	KRBA2	YES	4
352	stv_ZNF768	stv	ZNF768	YES	9
353	cnv_ABHD14A	cnv	ABHD14A	YES	5
353	meth_TXNL4B	meth	TXNL4B	YES	12
354	cnv_SMURF2	cnv	SMURF2	YES	31
354	meth_MMS22L	meth	MMS22L	YES	11
355	meth_SLU7	meth	SLU7	YES	28
355	stv_CLPB	stv	CLPB	YES	12
356	mrna_FAM13A	mrna	FAM13A	YES	6
356	stv_PNPT1	stv	PNPT1	YES	53
357	meth_DTX3L	meth	DTX3L	YES	17
357	stv_CECR1	stv	CECR1	YES	15
358	mrna_CLEC14A	mrna	CLEC14A	YES	7
358	stv_SLC2A10	stv	SLC2A10	YES	22
359	meth_HERPUD1	meth	HERPUD1	YES	25
359	stv_ATP5F1	stv	ATP5F1	YES	26
360	mrna_LAMB1	mrna	LAMB1	YES	33
360	mrna_NEK8	mrna	NEK8	YES	20
361	cnv_PPM1E	cnv	PPM1E	YES	17
361	stv_AKR1E2	stv	AKR1E2	YES	8
362	meth_GPX3	meth	GPX3	YES	16
363	cnv_ERC2	cnv	ERC2	YES	9
363	meth_INPP5D	meth	INPP5D	YES	42
365	meth_CD1D	meth	CD1D	YES	32
365	meth_PIEZO1	meth	PIEZO1	YES	20
366	meth_CUL7	meth	CUL7	YES	26
366	meth_HM13	meth	HM13	YES	23

367	meth_LSM14A	meth	LSM14A	YES	15
367	mrna_SRCIN1	mrna	SRCIN1	YES	26
368	mrna_MCRS1	mrna	MCRS1	YES	30
368	stv_RNF7	stv	RNF7	YES	25
369	cnv_ABCC3	cnv	ABCC3	YES	21
369	mrna_AXIN1	mrna	AXIN1	YES	87
370	meth_RIN2	meth	RIN2	YES	12
370	stv_NRK	stv	NRK	YES	21
371	stv_PPP2R5E	stv	PPP2R5E	YES	7
371	stv_SETX	stv	SETX	YES	49
372	meth_RACGAP1	meth	RACGAP1	YES	50
372	stv_TNRC18	stv	TNRC18	YES	10
373	cnv_CHCHD4	cnv	CHCHD4	YES	11
373	meth_RIT1	meth	RIT1	YES	15
374	mrna_MED24	mrna	MED24	YES	27
374	mrna_COL4A2	mrna	COL4A2	YES	19
375	meth_RABEPK	meth	RABEPK	YES	9
375	stv_FUCA1	stv	FUCA1	YES	16
376	cnv_CSRNP1	cnv	CSRNP1	YES	17
376	stv_AOC3	stv	AOC3	YES	29
377	meth_COPS3	meth	COPS3	YES	14
377	stv_LAMA4	stv	LAMA4	YES	20
378	stv_PIF1	stv	PIF1	YES	27
379	mrna_MKS1	mrna	MKS1	YES	32
379	stv_RAB13	stv	RAB13	YES	42
380	meth_PLXNB1	meth	PLXNB1	YES	30
380	stv_UNC45B	stv	UNC45B	YES	9
381	mrna_NUAK1	mrna	NUAK1	YES	24
381	stv_NASP	stv	NASP	YES	19
382	mrna_NDOR1	mrna	NDOR1	YES	17
382	stv_KIFC3	stv	KIFC3	YES	28
383	stv_GPR37	stv	GPR37	YES	25
384	meth_GPR61	meth	GPR61	YES	10
384	mrna_ANGPT2	mrna	ANGPT2	YES	32
385	cnv_SLC6A1	cnv	SLC6A1	YES	31
385	stv_AFM	stv	AFM	YES	7
386	meth_DVL3	meth	DVL3	YES	27
386	meth_SLC25A16	meth	SLC25A16	YES	11
387	mrna_EDNRA	mrna	EDNRA	YES	57
387	stv_ANO8	stv	ANO8	YES	11
388	mrna_NRIP2	mrna	NRIP2	YES	7
388	mrna_SCN4B	mrna	SCN4B	YES	26
389	mirna_MIR181C	mirna	MIR181C	YES	1
389	stv_LRP1B	stv	LRP1B	YES	7
390	stv_HOXB13	stv	HOXB13	YES	19
391	stv_ABI3BP	stv	ABI3BP	YES	10
392	mrna_MEF2A	mrna	MEF2A	YES	117

393	mrna_RAMP2	mrna	RAMP2	YES	47
393	stv_KIF2C	stv	KIF2C	YES	40
394	mrna_ST6GALNAC3	mrna	ST6GALNAC3	YES	16
395	mrna_ANO2	mrna	ANO2	YES	16
395	mrna_RAMP3	mrna	RAMP3	YES	36
396	mrna_DHX30	mrna	DHX30	YES	18
396	stv_SLC27A3	stv	SLC27A3	YES	14
397	cnv_SYNPR	cnv	SYNPR	YES	13
398	meth_CLEC4M	meth	CLEC4M	YES	33
398	meth_GPI	meth	GPI	YES	46
399	stv_HTT	stv	HTT	YES	77
400	mrna_MARCH9	mrna	MARCH9	YES	12
401	stv_ACTN4	stv	ACTN4	YES	58
401	stv_ACVR2A	stv	ACVR2A	YES	53
402	stv_CYP2J2	stv	CYP2J2	YES	24
403	meth_GUCA1A	meth	GUCA1A	YES	17
403	mrna_CALD1	mrna	CALD1	YES	17
404	stv_ELOVL6	stv	ELOVL6	YES	25
405	stv_SART3	stv	SART3	YES	27
406	meth_TNK2	meth	TNK2	YES	44
406	stv_PPP1CA	stv	PPP1CA	YES	32
407	meth_TRRAP	meth	TRRAP	YES	25
407	mrna_NSUN5	mrna	NSUN5	YES	10
408	mrna_APBB2	mrna	APBB2	YES	18
409	mrna_ELAC2	mrna	ELAC2	YES	16
409	stv_IQSEC1	stv	IQSEC1	YES	12
410	meth_BMPR1A	meth	BMPR1A	YES	95
410	meth_CEP55	meth	CEP55	YES	17
411	cnv_RPP14	cnv	RPP14	YES	12
411	mrna_CASP12	mrna	CASP12	YES	10
412	meth_FBXW8	meth	FBXW8	YES	17
412	mrna_TUBG1	mrna	TUBG1	YES	32
413	meth_HPX	meth	HPX	YES	21
414	cnv_GALK1	cnv	GALK1	YES	19
414	stv_AMHR2	stv	AMHR2	YES	31
415	cnv_DNAI2	cnv	DNAI2	YES	22
416	meth_UBE2E1	meth	UBE2E1	YES	24
416	stv_FGFR3	stv	FGFR3	YES	82
417	meth_GFM1	meth	GFM1	YES	12
417	stv_MAPKAPK2	stv	MAPKAPK2	YES	54
418	mrna_CAPN1	mrna	CAPN1	YES	29
418	mrna_COASY	mrna	COASY	YES	19
419	cnv_ITIH4	cnv	ITIH4	YES	16
419	meth_PHF3	meth	PHF3	YES	7
420	cnv_PRPSAP1	cnv	PRPSAP1	YES	10
420	mrna_ACAD10	mrna	ACAD10	YES	11
421	meth_LTBR	meth	LTBR	YES	23

422	mirna_MIR323B	mirna	MIR323B	YES	1
423	meth_PQLC3	meth	PQLC3	YES	3
423	mrna_EHBP1	mrna	EHBP1	YES	8
424	cnv_DOCK3	cnv	DOCK3	YES	7
424	stv_CCBL1	stv	CCBL1	YES	23
425	mirna_MIR139	mirna	MIR139	YES	2
425	stv_DDX47	stv	DDX47	YES	19
426	stv_GABRA6	stv	GABRA6	YES	21
426	stv_P2RY1	stv	P2RY1	YES	57
427	meth_LMBRD1	meth	LMBRD1	YES	17
427	meth_MYOT	meth	MYOT	YES	12
428	meth_MRPL12	meth	MRPL12	YES	14
428	mrna_DCLK3	mrna	DCLK3	YES	15
429	stv_ADGRF5	stv	ADGRF5	YES	19
430	meth_PARP3	meth	PARP3	YES	22
430	stv_TAL1	stv	TAL1	YES	60
431	cnv_MLH1	cnv	MLH1	YES	47
431	stv_RORB	stv	RORB	YES	34
432	meth_AQP4	meth	AQP4	YES	32
432	mirna_MIR940	mirna	MIR940	NO	0
433	meth_HTR3D	meth	HTR3D	YES	12
433	mrna_S1PR3	mrna	S1PR3	YES	22
434	meth_CLPS	meth	CLPS	YES	10
434	stv_GRM1	stv	GRM1	YES	33
435	cnv_ACOX2	cnv	ACOX2	YES	24
435	cnv_MAP4	cnv	MAP4	YES	20
436	cnv_CHDH	cnv	CHDH	YES	11
436	stv_TTYH1	stv	TTYH1	YES	24
437	stv_C2CD5	stv	C2CD5	YES	25
437	stv_PAWR	stv	PAWR	YES	26
438	mrna_P4HTM	mrna	P4HTM	YES	14
438	stv_TOP3B	stv	TOP3B	YES	10
439	meth_SYT8	meth	SYT8	YES	19
439	mrna_ELF3	mrna	ELF3	YES	29
440	meth_VCL	meth	VCL	YES	53
441	mrna_NEU1	mrna	NEU1	YES	27
441	stv_WBSCR17	stv	WBSCR17	YES	5
442	cnv_SSTR2	cnv	SSTR2	YES	31
442	meth_TRIM54	meth	TRIM54	YES	18
443	cnv_UBE2E1	cnv	UBE2E1	YES	24
443	stv_TPRG1L	stv	TPRG1L	YES	10
444	meth_PSTPIP1	meth	PSTPIP1	YES	18
445	mrna_HMGA1	mrna	HMGA1	YES	42
445	stv_BIN1	stv	BIN1	YES	33
446	meth_CRISPLD1	meth	CRISPLD1	YES	4
446	stv_FAM129A	stv	FAM129A	YES	12
447	meth_NUCB1	meth	NUCB1	YES	26

447	mrna_KIAA0556	mrna	KIAA0556	YES	4
448	mrna_CDK17	mrna	CDK17	YES	11
449	cnv_BSN	cnv	BSN	YES	21
450	meth_NUMBL	meth	NUMBL	YES	13
451	mrna_COL5A3	mrna	COL5A3	YES	16
451	stv_ZDHHC5	stv	ZDHHC5	YES	12
452	cnv_TGFBR2	cnv	TGFBR2	YES	115
453	meth_CTH	meth	CTH	YES	33
453	meth_MET	meth	MET	YES	50
454	cnv_SELK	cnv	SELK	NO	0
455	meth_ITIH3	meth	ITIH3	YES	10
455	mrna_RHBDF1	mrna	RHBDF1	YES	19
456	mrna_VGF	mrna	VGF	YES	24
456	mrna_ACSS2	mrna	ACSS2	YES	19
457	stv_ATP4A	stv	ATP4A	YES	23
458	mirna_MIR132	mirna	MIR132	YES	8
458	mrna_JAM2	mrna	JAM2	YES	12
459	stv_CARD10	stv	CARD10	YES	8
459	stv_HAT1	stv	HAT1	YES	23
460	stv_CHD3	stv	CHD3	YES	30
460	stv_PLEKHA7	stv	PLEKHA7	YES	13
461	stv_KIAA0196	stv	KIAA0196	YES	4
462	stv_DCXR	stv	DCXR	YES	20
463	meth_SOS1	meth	SOS1	YES	47
464	stv_SCRN1	stv	SCRN1	YES	8
465	cnv_ARHGEF3	cnv	ARHGEF3	YES	12
466	cnv_RBM5	cnv	RBM5	YES	20
466	stv_SEMA4F	stv	SEMA4F	YES	16
467	stv_ZNF516	stv	ZNF516	YES	18
468	mrna_RGS7BP	mrna	RGS7BP	YES	6
468	stv_SORL1	stv	SORL1	YES	56
469	meth_DNAH3	meth	DNAH3	YES	20
469	meth_GPX1	meth	GPX1	YES	70
470	meth_CCT3	meth	CCT3	YES	26
470	stv_C2CD3	stv	C2CD3	YES	26
471	meth_GPR182	meth	GPR182	YES	11
471	meth_HINT3	meth	HINT3	YES	6
472	cnv_CDC42EP4	cnv	CDC42EP4	YES	17
472	cnv_NEK10	cnv	NEK10	YES	14
473	meth_TRPM8	meth	TRPM8	YES	27
473	mrna_OAZ2	mrna	OAZ2	YES	12
474	cnv_SHISA5	cnv	SHISA5	YES	17
475	meth_LCAT	meth	LCAT	YES	26
476	stv_SCGN	stv	SCGN	YES	13
477	cnv_METTL23	cnv	METTL23	YES	13
477	meth_CHFR	meth	CHFR	YES	19
478	meth_C8A	meth	C8A	YES	18

478	stv_VTI1A	stv	VTI1A	YES	35
479	cnv_DDX5	cnv	DDX5	YES	63
479	meth_SRPRB	meth	SRPRB	YES	15
480	mrna_DUSP1	mrna	DUSP1	YES	41
480	mrna_LCN2	mrna	LCN2	YES	36
481	meth_EDEM2	meth	EDEM2	YES	16
481	mrna_NDRG1	mrna	NDRG1	YES	29
482	mrna_ZFHX2	mrna	ZFHX2	YES	12
482	mrna_COL5A2	mrna	COL5A2	YES	20
483	meth_B3GAT3	meth	B3GAT3	YES	22
483	meth_BST2	meth	BST2	YES	43
484	stv_STIM1	stv	STIM1	YES	37
485	meth_NANOS1	meth	NANOS1	YES	16
485	stv_QRFP	stv	QRFP	YES	9
486	cnv_SEC22C	cnv	SEC22C	YES	13
486	mrna_PLXND1	mrna	PLXND1	YES	27
487	mrna_ERGIC1	mrna	ERGIC1	YES	14
487	stv_CILP2	stv	CILP2	YES	3
488	mrna_DHX58	mrna	DHX58	YES	25
488	stv_NXN	stv	NXN	YES	16
489	mrna_KSR1	mrna	KSR1	YES	23
490	stv_AGO3	stv	AGO3	YES	34
491	cnv_B4GALNT2	cnv	B4GALNT2	YES	15
492	stv_KIAA1109	stv	KIAA1109	YES	8
492	stv_ODC1	stv	ODC1	YES	19
493	cnv_AANAT	cnv	AANAT	YES	27
493	stv_PKLR	stv	PKLR	YES	29
494	meth_E2F4	meth	E2F4	YES	33
495	meth_MPZ	meth	MPZ	YES	14
495	mrna_CHSY1	mrna	CHSY1	YES	21
496	cnv_LRTM1	cnv	LRTM1	YES	8
496	stv_NIPAL3	stv	NIPAL3	YES	6
497	meth_DYSF	meth	DYSF	YES	23
497	stv_NEDD4	stv	NEDD4	YES	63
498	stv_ADAM12	stv	ADAM12	YES	16
498	stv_PEX6	stv	PEX6	YES	19
499	mrna_CSPG4	mrna	CSPG4	YES	30
500	mrna_NOTCH3	mrna	NOTCH3	YES	33
500	mrna_HSPG2	mrna	HSPG2	YES	32
501	cnv_MYRIP	cnv	MYRIP	YES	22
501	stv_KANK1	stv	KANK1	YES	22
502	mrna_TRIB2	mrna	TRIB2	YES	17
503	mrna_RUVBL1	mrna	RUVBL1	YES	50
503	stv_E2F2	stv	E2F2	YES	21
504	meth_VASP	meth	VASP	YES	27
505	cnv_CX3CR1	cnv	CX3CR1	YES	37
505	stv_BPIFB1	stv	BPIFB1	YES	10

506	stv_SLC24A5	stv	SLC24A5	YES	27
506	stv_TAF11	stv	TAF11	YES	19
507	meth_AOC2	meth	AOC2	YES	18
507	meth_CLCN1	meth	CLCN1	YES	22
508	meth_GLTP	meth	GLTP	YES	14
509	mrna_TRPC6	mrna	TRPC6	YES	36
509	stv_NDUFV1	stv	NDUFV1	YES	19
510	mrna_UNC119	mrna	UNC119	YES	24
510	stv_PPP1R9A	stv	PPP1R9A	YES	51
511	cnv_DALRD3	cnv	DALRD3	YES	7
511	stv_DNAH8	stv	DNAH8	YES	22
512	meth_GBP4	meth	GBP4	YES	10
512	mrna_GRK5	mrna	GRK5	YES	32
513	cnv_CELSR3	cnv	CELSR3	YES	23
513	stv_ATP8A2	stv	ATP8A2	YES	35
514	cnv_ACAA1	cnv	ACAA1	YES	23
514	mrna_ACVRL1	mrna	ACVRL1	YES	77
515	mrna_ADM	mrna	ADM	YES	54
517	stv_ATP8A1	stv	ATP8A1	YES	32
517	stv_HNF1A	stv	HNF1A	YES	58
518	stv_FBXL19	stv	FBXL19	YES	10
518	stv_GAS7	stv	GAS7	YES	13
519	stv_SLC16A1	stv	SLC16A1	YES	30
520	cnv_QARS	cnv	QARS	YES	25
521	stv_RPSA	stv	RPSA	YES	38
522	stv_HTR3D	stv	HTR3D	YES	12
522	stv_PDGFRB	stv	PDGFRB	YES	108
523	meth_COL4A3BP	meth	COL4A3BP	YES	32
523	meth_PGM1	meth	PGM1	YES	22
524	stv_FGF12	stv	FGF12	YES	22
525	meth_GBF1	meth	GBF1	YES	44
525	mrna_HIP1R	mrna	HIP1R	YES	57
526	cnv_MRPS25	cnv	MRPS25	YES	7
527	stv_WWP1	stv	WWP1	YES	21
528	meth_ATP5H	meth	ATP5H	YES	22
528	meth_E2F5	meth	E2F5	YES	19
529	stv_RERE	stv	RERE	YES	25
530	stv_TGIF2	stv	TGIF2	YES	12
531	meth_ATP5C1	meth	ATP5C1	YES	22
531	stv_ASTN2	stv	ASTN2	YES	18
532	cnv_RAMP2	cnv	RAMP2	YES	47
532	meth_NFYA	meth	NFYA	YES	17
533	cnv_KIF19	cnv	KIF19	YES	17
533	mrna_APOL3	mrna	APOL3	YES	12
534	meth_IL21	meth	IL21	YES	21
534	mrna_HPCAL1	mrna	HPCAL1	YES	5
535	cnv_ABI3	cnv	ABI3	YES	8

536	meth_GP1BA	meth	GP1BA	YES	26
536	stv_FOXD2	stv	FOXD2	YES	25
537	cnv_WNK4	cnv	WNK4	YES	26
537	stv_PTPRO	stv	PTPRO	YES	36
539	mrna_SPRY4	mrna	SPRY4	YES	12
539	stv_EMG1	stv	EMG1	YES	17
540	cnv_PRCD	cnv	PRCD	YES	7
540	stv_PNKP	stv	PNKP	YES	37
541	meth_CP	meth	CP	YES	19
542	cnv_APPBP2	cnv	APPBP2	YES	13
542	meth_FETUB	meth	FETUB	YES	13
543	mrna_CLEC1A	mrna	CLEC1A	YES	8
544	mrna_CD36	mrna	CD36	YES	108
544	stv_DTX4	stv	DTX4	YES	10
545	stv_CHRNB1	stv	CHRNB1	YES	32
546	meth_SREBF1	meth	SREBF1	YES	72
546	mrna_COPG2	mrna	COPG2	YES	19
547	cnv_GORASP1	cnv	GORASP1	YES	13
547	stv_ANKZF1	stv	ANKZF1	YES	9
548	mrna_TCAF2	mrna	TCAF2	YES	7
548	stv_LAMA2	stv	LAMA2	YES	21
549	stv_PIK3R2	stv	PIK3R2	YES	40
550	stv_SGCD	stv	SGCD	YES	14
550	stv_TMEM161A	stv	TMEM161A	YES	7
552	cnv_ARL8B	cnv	ARL8B	YES	25
553	mrna_STARD13	mrna	STARD13	YES	15
553	stv_ENPP7	stv	ENPP7	YES	15
554	meth_SLC38A10	meth	SLC38A10	YES	10
554	stv_NEK7	stv	NEK7	YES	22
555	mrna_STC1	mrna	STC1	YES	26
555	stv_CHST14	stv	CHST14	YES	13
556	cnv_COL7A1	cnv	COL7A1	YES	24
556	cnv_TATDN2	cnv	TATDN2	YES	12
557	cnv_PRKCA	cnv	PRKCA	YES	84
557	mrna_DNAAF3	mrna	DNAAF3	YES	4
558	mrna_AKR1C2	mrna	AKR1C2	YES	23
558	stv_SLC17A5	stv	SLC17A5	YES	23
559	meth_OSBPL3	meth	OSBPL3	YES	19
559	mrna_DIAPH2	mrna	DIAPH2	YES	19
560	cnv_SLC4A7	cnv	SLC4A7	YES	26
560	cnv_UBTF	cnv	UBTF	YES	18
561	cnv_DNASE1L3	cnv	DNASE1L3	YES	17
562	cnv_RHBDF2	cnv	RHBDF2	YES	15
563	meth_NHLH1	meth	NHLH1	YES	13
563	mrna_CHL1	mrna	CHL1	YES	22
564	cnv_SLC26A6	cnv	SLC26A6	YES	56
564	stv_RBP5	stv	RBP5	YES	9

565	meth_CD200R1	meth	CD200R1	YES	10
567	stv_CABP4	stv	CABP4	YES	16
567	stv_NPAS2	stv	NPAS2	YES	26
568	mrna_ADAMTS13	mrna	ADAMTS13	YES	35
568	mrna_OPCML	mrna	OPCML	YES	9
569	meth_SFT2D2	meth	SFT2D2	YES	8
569	stv_WDR41	stv	WDR41	YES	9
571	meth_LGALS4	meth	LGALS4	YES	6
571	stv_NUBP2	stv	NUBP2	YES	16
572	cnv_RNF43	cnv	RNF43	YES	20
573	mrna_RAB3C	mrna	RAB3C	YES	17
574	cnv_CCR10	cnv	CCR10	YES	16
574	stv_DTX3L	stv	DTX3L	YES	17
575	mrna_GRB7	mrna	GRB7	YES	24
576	meth_BRIP1	meth	BRIP1	YES	44
577	meth_ACTB	meth	ACTB	YES	44
577	stv_AQP7	stv	AQP7	YES	22
578	meth_ITGA6	meth	ITGA6	YES	52
578	stv_HDAC8	stv	HDAC8	YES	28
579	cnv_PLEKHM1	cnv	PLEKHM1	YES	14
579	meth_ZNF148	meth	ZNF148	YES	23
580	meth_COL9A3	meth	COL9A3	YES	10
582	meth_CRTAP	meth	CRTAP	YES	12
583	meth_KDM1A	meth	KDM1A	YES	63
583	mrna_RGCC	mrna	RGCC	YES	42
584	meth_C2	meth	C2	YES	17
584	meth_NME3	meth	NME3	YES	20
585	meth_NUCB2	meth	NUCB2	YES	12
586	meth_GPSM2	meth	GPSM2	YES	32
586	mrna_TNS1	mrna	TNS1	YES	13
587	meth_EID2	meth	EID2	YES	17
588	meth_ARHGEF15	meth	ARHGEF15	YES	13
588	mrna_F8	mrna	F8	YES	21
589	meth_POU5F1	meth	POU5F1	YES	35
589	stv_SLC11A2	stv	SLC11A2	YES	84
590	meth_TTLL1	meth	TTLL1	YES	13
591	stv_ALDH1A3	stv	ALDH1A3	YES	32
591	stv_FLII	stv	FLII	YES	17
592	cnv_SPPL2C	cnv	SPPL2C	YES	13
592	meth_SHISA5	meth	SHISA5	YES	17
593	stv_APLP1	stv	APLP1	YES	25
594	cnv_SLC25A39	cnv	SLC25A39	YES	9
595	meth_PDS5A	meth	PDS5A	YES	14
595	mrna_SPAG6	mrna	SPAG6	YES	11
596	mrna_PDGFB	mrna	PDGFB	YES	101
597	meth_CIAO1	meth	CIAO1	YES	8
597	stv_GGH	stv	GGH	YES	22

598	meth_FCN3	meth	FCN3	YES	17
599	mrna_ESM1	mrna	ESM1	YES	9
599	stv_PER2	stv	PER2	YES	33
600	cnv_CACNG4	cnv	CACNG4	YES	20
600	stv_ITIH4	stv	ITIH4	YES	16
601	meth_MEPCE	meth	MEPCE	YES	12
601	stv_TFCP2L1	stv	TFCP2L1	YES	22
602	stv_PEPD	stv	PEPD	YES	14
603	mrna_COG8	mrna	COG8	YES	10
605	meth_RFFL	meth	RFFL	YES	29
605	meth_RPL35	meth	RPL35	YES	21
606	mrna_CLCN2	mrna	CLCN2	YES	18
606	mrna_ARHGEF15	mrna	ARHGEF15	YES	13
607	cnv_EXOG	cnv	EXOG	YES	14
608	meth_SEC31A	meth	SEC31A	YES	26
608	stv_KIF26A	stv	KIF26A	YES	16
609	meth_SGCG	meth	SGCG	YES	15
609	mrna_PDHA1	mrna	PDHA1	YES	22
611	mrna_WDR6	mrna	WDR6	YES	12
611	stv_KCNS1	stv	KCNS1	YES	20
612	mrna_ADORA2A	mrna	ADORA2A	YES	81
612	mrna_RBPJ	mrna	RBPJ	YES	85
613	meth_FEN1	meth	FEN1	YES	37
613	mrna_FOXJ3	mrna	FOXJ3	YES	12
614	meth_RGL1	meth	RGL1	YES	10
614	stv_EDEM1	stv	EDEM1	YES	22
615	cnv_NPRL2	cnv	NPRL2	YES	15
615	cnv_TGM4	cnv	TGM4	YES	9
616	stv_BRMS1	stv	BRMS1	YES	19
618	stv_TLR1	stv	TLR1	YES	35
620	stv_ST6GALNAC4	stv	ST6GALNAC4	YES	15
621	mrna_TEK	mrna	TEK	YES	75
622	meth_AATF	meth	AATF	YES	25
622	stv_AQP3	stv	AQP3	YES	25
623	cnv_ENTPD3	cnv	ENTPD3	YES	13
624	mrna_FBXL2	mrna	FBXL2	YES	17
624	mrna_FAM101B	mrna	FAM101B	YES	4
625	meth_FURIN	meth	FURIN	YES	54
625	meth_RAB5B	meth	RAB5B	YES	25
626	stv_IRX2	stv	IRX2	YES	9
627	meth_UHRF2	meth	UHRF2	YES	19
628	stv_EIF2D	stv	EIF2D	YES	13
629	meth_MRPL51	meth	MRPL51	YES	12
629	meth_TMEM39A	meth	TMEM39A	YES	2
630	mrna_TNS2	mrna	TNS2	YES	19
630	stv_PLSCR1	stv	PLSCR1	YES	35
631	stv_A1BG	stv	A1BG	YES	11

631	stv_STRIP1	stv	STRIP1	YES	8
632	stv_DDX11	stv	DDX11	YES	60
632	stv_YIPF7	stv	YIPF7	YES	4
633	cnv_TTYH2	cnv	TTYH2	YES	10
633	stv_TRIM14	stv	TRIM14	YES	8
634	mrna_TBXA2R	mrna	TBXA2R	YES	31
634	stv_DPY19L3	stv	DPY19L3	YES	7
635	meth_SPP1	meth	SPP1	YES	32
635	stv_SRMS	stv	SRMS	YES	20
636	stv_ABCB1	stv	ABCB1	YES	29
636	stv_HS2ST1	stv	HS2ST1	YES	10
637	meth_VAMP4	meth	VAMP4	YES	23
637	mrna_PTPRB	mrna	PTPRB	YES	19
638	mrna_FLT1	mrna	FLT1	YES	50
638	stv_GJA4	stv	GJA4	YES	16
639	cnv_LMCD1	cnv	LMCD1	YES	14
639	cnv_P4HTM	cnv	P4HTM	YES	14
640	stv_MUC6	stv	MUC6	YES	7
641	meth_ZNF683	meth	ZNF683	YES	16
641	stv_TUBB2B	stv	TUBB2B	YES	16
642	mrna_GIT2	mrna	GIT2	YES	9
643	meth_TGFBR3	meth	TGFBR3	YES	63
643	stv_BPHL	stv	BPHL	YES	8
644	mrna_IGFBP5	mrna	IGFBP5	YES	42
645	mrna_CNST	mrna	CNST	YES	14
646	meth_DRG2	meth	DRG2	YES	10
646	meth_PPP4C	meth	PPP4C	YES	17
647	meth_LRIT1	meth	LRIT1	YES	7
647	meth_VPS18	meth	VPS18	YES	30
648	meth_NIPBL	meth	NIPBL	YES	49
649	meth_PEBP4	meth	PEBP4	YES	5
650	cnv_CMTM6	cnv	CMTM6	YES	10
650	meth_HUS1	meth	HUS1	YES	25
651	stv_DENND5B	stv	DENND5B	YES	10
652	stv_TMC4	stv	TMC4	YES	5
653	stv_TRIM10	stv	TRIM10	YES	10
654	stv_SAP30BP	stv	SAP30BP	YES	8
655	cnv_TAMM41	cnv	TAMM41	YES	11
656	stv_XPO1	stv	XPO1	YES	42
657	mrna_GJA4	mrna	GJA4	YES	16
658	meth_ANKRD2	meth	ANKRD2	YES	25
659	meth_HSF2BP	meth	HSF2BP	YES	6
659	mrna_TSEN54	mrna	TSEN54	YES	12
660	cnv_SEPT9	cnv	SEPT9	YES	20
660	stv_CITED2	stv	CITED2	YES	87
661	cnv_CCR3	cnv	CCR3	YES	24
661	cnv_TMEM43	cnv	TMEM43	YES	11

662	cnv_CDC25A	cnv	CDC25A	YES	25
663	mrna_ABHD14B	mrna	ABHD14B	YES	9
663	stv_PEBP1	stv	PEBP1	YES	17
664	meth_PDHB	meth	PDHB	YES	22
665	cnv_PRKAR2A	cnv	PRKAR2A	YES	31
665	cnv_STAB1	cnv	STAB1	YES	19
666	cnv_THUMPD3	cnv	THUMPD3	YES	8
667	stv_L3MBTL3	stv	L3MBTL3	YES	13
667	stv_LRRN3	stv	LRRN3	YES	6
668	stv_PDS5B	stv	PDS5B	YES	17
669	stv_AKIRIN2	stv	AKIRIN2	YES	19
669	stv_USF1	stv	USF1	YES	37
670	meth_INO80	meth	INO80	YES	37
670	mrna_PTHLH	mrna	PTHLH	YES	30
671	cnv_ABCA5	cnv	ABCA5	YES	23
671	meth_CPNE2	meth	CPNE2	YES	7
673	meth_FBXL19	meth	FBXL19	YES	10
673	stv_ESPL1	stv	ESPL1	YES	24
674	cnv_CACNA1D	cnv	CACNA1D	YES	35
675	mrna_SLC25A22	mrna	SLC25A22	YES	15
676	mrna_SH2D3C	mrna	SH2D3C	YES	9
676	stv_UHRF2	stv	UHRF2	YES	19
677	mrna_COL4A1	mrna	COL4A1	YES	25
677	stv_KRT86	stv	KRT86	YES	9
678	cnv_CSPG5	cnv	CSPG5	YES	25
679	cnv_LARS2	cnv	LARS2	YES	13
680	stv_RP2	stv	RP2	YES	26
681	cnv_SEMA3B	cnv	SEMA3B	YES	8
681	meth_PAFAH2	meth	PAFAH2	YES	9
682	cnv_PDCD6IP	cnv	PDCD6IP	YES	45
684	cnv_IMPDH2	cnv	IMPDH2	YES	27
684	mrna_FBXL19	mrna	FBXL19	YES	10
686	cnv_KAT2B	cnv	KAT2B	YES	51
686	stv_HMCES	stv	HMCES	YES	4
687	meth_SPARCL1	meth	SPARCL1	YES	13
688	meth_ARIH2	meth	ARIH2	YES	22
688	meth_DACT3	meth	DACT3	YES	12
689	stv_AFG3L2	stv	AFG3L2	YES	31
690	cnv_KIF15	cnv	KIF15	YES	21
690	mrna_KCNN3	mrna	KCNN3	YES	14
691	cnv_PGS1	cnv	PGS1	YES	16
691	stv_FGFR1	stv	FGFR1	YES	99
692	stv_RNF19A	stv	RNF19A	YES	19
692	stv_RXFP1	stv	RXFP1	YES	16
693	meth_ASAP1	meth	ASAP1	YES	19
694	mrna_KIF1C	mrna	KIF1C	YES	17
695	cnv_HDAC5	cnv	HDAC5	YES	49

695	mrna_ARHGAP31	mrna	ARHGAP31	YES	11
696	mrna_CPNE4	mrna	CPNE4	YES	2
697	meth_IDE	meth	IDE	YES	52
697	mrna_ARHGAP39	mrna	ARHGAP39	YES	9
698	mrna_ATL3	mrna	ATL3	YES	14
698	stv_GRM7	stv	GRM7	YES	38
699	mrna_F2RL3	mrna	F2RL3	YES	20
699	stv_ABCG8	stv	ABCG8	YES	26
700	cnv_TBC1D16	cnv	TBC1D16	YES	9
700	stv_TMEM138	stv	TMEM138	YES	8
701	mrna_CCR9	mrna	CCR9	YES	17
702	meth_ATP2A3	meth	ATP2A3	YES	21
702	meth_IMPDH2	meth	IMPDH2	YES	27
703	mrna_PPM1F	mrna	PPM1F	YES	30
703	stv_PTPRN	stv	PTPRN	YES	40
704	mrna_PPAP2A	mrna	PPAP2A	YES	17
705	cnv_NKIRAS1	cnv	NKIRAS1	YES	11
705	stv_PPIL1	stv	PPIL1	YES	13
706	meth_RBL1	meth	RBL1	YES	18
706	mrna_ANKRD2	mrna	ANKRD2	YES	25
707	meth_BCAN	meth	BCAN	YES	19
707	mrna_LINGO1	mrna	LINGO1	YES	11
708	cnv_GALR2	cnv	GALR2	YES	30
708	stv_CACNG4	stv	CACNG4	YES	20
709	meth_KALRN	meth	KALRN	YES	51
709	stv_SNX8	stv	SNX8	YES	17
710	cnv_TRIM25	cnv	TRIM25	YES	36
710	mrna_CCDC141	mrna	CCDC141	YES	2
711	meth_CCND2	meth	CCND2	YES	23
711	mrna_FRZB	mrna	FRZB	YES	28
712	meth_NELFA	meth	NELFA	YES	16
712	stv_ILF3	stv	ILF3	YES	19
713	stv_CABLES1	stv	CABLES1	YES	10
714	meth_ADAMTS4	meth	ADAMTS4	YES	18
714	meth_NR4A1	meth	NR4A1	YES	42
715	cnv_TOB1	cnv	TOB1	YES	19
715	stv_MYO1D	stv	MYO1D	YES	29
716	mrna_LLGL2	mrna	LLGL2	YES	15
717	mrna_INHBB	mrna	INHBB	YES	33
718	cnv_ATG7	cnv	ATG7	YES	48
718	stv_RNF6	stv	RNF6	YES	24
719	cnv_CD300A	cnv	CD300A	YES	30
719	cnv_TUSC2	cnv	TUSC2	YES	18
720	mrna_FOXN2	mrna	FOXN2	YES	11
720	stv_SMARCD3	stv	SMARCD3	YES	30
721	cnv_TNRC6C	cnv	TNRC6C	YES	21
721	mrna_SNF8	mrna	SNF8	YES	40

722	mirna_MIR195	mirna	MIR195	YES	7
722	stv_NPHP3	stv	NPHP3	YES	27
723	mrna_PLCD3	mrna	PLCD3	YES	19
723	stv_VCAN	stv	VCAN	YES	27
724	cnv_PSME3	cnv	PSME3	YES	42
724	stv_ABCA4	stv	ABCA4	YES	24
725	cnv_COX11	cnv	COX11	YES	11
726	meth_DYNLRB2	meth	DYNLRB2	YES	15
726	mrna_ERG	mrna	ERG	YES	25
727	mrna_CASQ2	mrna	CASQ2	YES	33
727	stv_TAF2	stv	TAF2	YES	20
728	stv_TBC1D9	stv	TBC1D9	YES	9
729	meth_CYP1A2	meth	CYP1A2	YES	53
729	stv_KLB	stv	KLB	YES	24
730	stv_CDYL	stv	CDYL	YES	20
730	stv_SNAPIN	stv	SNAPIN	YES	45
731	cnv_NEK4	cnv	NEK4	YES	26
731	cnv_STT3B	cnv	STT3B	YES	17
732	mrna_KISS1R	mrna	KISS1R	YES	20
732	mrna_DLC1	mrna	DLC1	YES	34
733	stv_DPF2	stv	DPF2	YES	15
734	cnv_MST1	cnv	MST1	YES	16
734	meth_ZC3H18	meth	ZC3H18	YES	6
735	cnv_VHL	cnv	VHL	YES	28
736	meth_DDRGK1	meth	DDRGK1	YES	24
736	stv_HIST1H1E	stv	HIST1H1E	YES	24
737	meth_ABCC4	meth	ABCC4	YES	27
738	cnv_SMARCD2	cnv	SMARCD2	YES	18
738	mrna_ITGA8	mrna	ITGA8	YES	33
739	meth_ACTR1B	meth	ACTR1B	YES	17
739	meth_DXO	meth	DXO	YES	18
740	cnv_GRN	cnv	GRN	YES	13
741	mirna_MIR539	mirna	MIR539	NO	0
741	mrna_SLC25A35	mrna	SLC25A35	YES	8
742	mrna_CACNA1C	mrna	CACNA1C	YES	43
742	stv_JADE2	stv	JADE2	YES	18
743	mrna_APLNR	mrna	APLNR	YES	17
743	mrna_DENND5A	mrna	DENND5A	YES	16
744	cnv_TLK2	cnv	TLK2	YES	24
745	cnv_UBP1	cnv	UBP1	YES	13
746	meth_BECN1	meth	BECN1	YES	75
746	meth_UCP2	meth	UCP2	YES	29
747	meth_IL1R1	meth	IL1R1	YES	24
748	cnv_MKRN2	cnv	MKRN2	YES	8
748	mrna_PPAP2B	mrna	PPAP2B	YES	31
749	mrna_SAP30	mrna	SAP30	YES	13
749	stv_FANCC	stv	FANCC	YES	18

750	stv_ADA	stv	ADA	YES	72
750	stv_GABRB2	stv	GABRB2	YES	38
751	stv_PPP2R1A	stv	PPP2R1A	YES	49
752	mrna_TACC1	mrna	TACC1	YES	15
753	cnv_HELZ	cnv	HELZ	YES	9
753	mrna_ASAP1	mrna	ASAP1	YES	19
754	cnv_GPR142	cnv	GPR142	YES	9
755	stv_ENDOV	stv	ENDOV	YES	16
756	meth_FKBP9	meth	FKBP9	YES	10
757	meth_ASF1A	meth	ASF1A	YES	18
757	mrna_PRDM1	mrna	PRDM1	YES	48
758	mrna_AGTR1	mrna	AGTR1	YES	40
759	mrna_GNA14	mrna	GNA14	YES	17
759	mrna_S1PR1	mrna	S1PR1	YES	44
760	cnv_APPL1	cnv	APPL1	YES	21
761	stv_GNB5	stv	GNB5	YES	20
762	cnv_HYAL3	cnv	HYAL3	YES	19
762	stv_ANKRD17	stv	ANKRD17	YES	21
764	meth_SLC25A18	meth	SLC25A18	YES	14
765	stv_PAPSS2	stv	PAPSS2	YES	16
765	stv_PKD2	stv	PKD2	YES	112
766	cnv_C1QTNF1	cnv	C1QTNF1	YES	18
767	cnv_NSF	cnv	NSF	YES	39
767	stv_DZIP1	stv	DZIP1	YES	23
768	mrna_DYSF	mrna	DYSF	YES	23
768	stv_NR2F1	stv	NR2F1	YES	24
769	mrna_HLX	mrna	HLX	YES	19
770	stv_MYT1L	stv	MYT1L	YES	18
771	cnv_LRRN1	cnv	LRRN1	YES	5
771	mrna_GIMAP1	mrna	GIMAP1	YES	8
772	stv_ADK	stv	ADK	YES	20
773	stv_SERPINF1	stv	SERPINF1	YES	34
773	stv_STRIP2	stv	STRIP2	YES	6
774	cnv_ARSG	cnv	ARSG	YES	15
774	meth_CMTM8	meth	CMTM8	YES	13
775	meth_ATP5E	meth	ATP5E	YES	19
776	cnv_LYZL4	cnv	LYZL4	YES	13
776	stv_TFAP4	stv	TFAP4	YES	33
777	stv_POLR1A	stv	POLR1A	YES	19
777	stv_SRGAP2	stv	SRGAP2	YES	18
778	mrna_HEYL	mrna	HEYL	YES	44
779	stv_KIAA1549L	stv	KIAA1549L	YES	2
779	stv_ZNF160	stv	ZNF160	YES	8
780	cnv_LPO	cnv	LPO	YES	17
780	stv_ERCC5	stv	ERCC5	YES	32
781	stv_PRDM14	stv	PRDM14	YES	33
782	stv_RPS6KB2	stv	RPS6KB2	YES	21

783	stv_EGR4	stv	EGR4	YES	12
783	stv_EPB42	stv	EPB42	YES	18
784	mrna_CTTN	mrna	CTTN	YES	43
785	cnv_VPS25	cnv	VPS25	YES	22
785	stv_LRPAP1	stv	LRPAP1	YES	31
786	meth_CCT8	meth	CCT8	YES	37
786	mrna_SLC26A11	mrna	SLC26A11	YES	28
787	mrna_IFT27	mrna	IFT27	YES	22
787	stv_C8A	stv	C8A	YES	18
788	cnv_WNT3	cnv	WNT3	YES	46
788	stv_EPC1	stv	EPC1	YES	20
789	meth_DPY30	meth	DPY30	YES	20
789	stv_U2AF2	stv	U2AF2	YES	27
790	stv_ATOH1	stv	ATOH1	YES	32
790	stv_NUDT4	stv	NUDT4	YES	34
791	cnv_RPL29	cnv	RPL29	YES	21
791	meth_HRC	meth	HRC	YES	27
792	cnv_KCNJ16	cnv	KCNJ16	YES	15
792	stv_EVI5L	stv	EVI5L	YES	12
793	meth_FXN	meth	FXN	YES	42
793	stv_DRAXIN	stv	DRAXIN	YES	11
795	meth_ARHGEF4	meth	ARHGEF4	YES	19
796	stv_SMPD3	stv	SMPD3	YES	20
797	cnv_IGF2BP1	cnv	IGF2BP1	YES	33
798	stv_TTLL1	stv	TTLL1	YES	13
799	mrna_PDK4	mrna	PDK4	YES	27
800	mrna_JAG1	mrna	JAG1	YES	58
801	stv_NOS1	stv	NOS1	YES	74
802	stv_ACY1	stv	ACY1	YES	13
803	stv_NBEAL1	stv	NBEAL1	YES	2
804	meth_MAPKAPK5	meth	MAPKAPK5	YES	33
804	meth_TGM1	meth	TGM1	YES	19
805	cnv_DCP1A	cnv	DCP1A	YES	19
805	mrna_PRR16	mrna	PRR16	YES	3
806	meth_PRODH	meth	PRODH	YES	15
808	stv_AP2A1	stv	AP2A1	YES	38
808	stv_ING3	stv	ING3	YES	16
809	meth_GC	meth	GC	YES	13
810	meth_LCTL	meth	LCTL	YES	9
810	mrna_CDH5	mrna	CDH5	YES	28
811	meth_FBN2	meth	FBN2	YES	19
811	stv_TRIM8	stv	TRIM8	YES	21
812	mrna_TNFRSF4	mrna	TNFRSF4	YES	22
814	cnv_TRIM71	cnv	TRIM71	YES	29
815	cnv_IL5RA	cnv	IL5RA	YES	20
815	cnv_SOX9	cnv	SOX9	YES	154
816	mrna_ANO1	mrna	ANO1	YES	28

817	stv_PTGR1	stv	PTGR1	YES	15
818	stv_TEK	stv	TEK	YES	75
819	cnv_RPL15	cnv	RPL15	YES	21
819	stv_ZNF658	stv	ZNF658	YES	12
820	mrna_MAPKAPK3	mrna	MAPKAPK3	YES	37
821	stv_PCDH12	stv	PCDH12	YES	15
824	cnv_STXBP4	cnv	STXBP4	YES	12
824	meth_UBE2N	meth	UBE2N	YES	46
825	cnv_RHOA	cnv	RHOA	YES	78
825	mrna_CYSLTR1	mrna	CYSLTR1	YES	22
827	meth_S100A4	meth	S100A4	YES	16
828	cnv_SAP30BP	cnv	SAP30BP	YES	8
828	mrna_HHEX	mrna	HHEX	YES	71
829	stv_MLLT4	stv	MLLT4	YES	18
829	stv_TGM1	stv	TGM1	YES	19
831	stv_MSH4	stv	MSH4	YES	19
832	stv_EIF4A1	stv	EIF4A1	YES	25
832	stv_PANK4	stv	PANK4	YES	8
833	stv_THG1L	stv	THG1L	YES	17
834	stv_SLC9A1	stv	SLC9A1	YES	85
834	stv_ZNFX1	stv	ZNFX1	YES	9
835	stv_LIPF	stv	LIPF	YES	13
836	mrna_ARAP3	mrna	ARAP3	YES	24
837	cnv_EZH1	cnv	EZH1	YES	15
837	mrna_SUMF1	mrna	SUMF1	YES	11
838	cnv_TEX264	cnv	TEX264	YES	5
839	cnv_RAF1	cnv	RAF1	YES	67
839	stv_MCPH1	stv	MCPH1	YES	17
840	meth_S100B	meth	S100B	YES	37
840	mrna_SPP1	mrna	SPP1	YES	32
841	meth_FABP2	meth	FABP2	YES	10
843	cnv_RPL32	cnv	RPL32	YES	18
844	stv_KIN	stv	KIN	YES	19
844	stv_NLGN4Y	stv	NLGN4Y	YES	26
845	meth_SLA2	meth	SLA2	YES	31
848	cnv_EXOC7	cnv	EXOC7	YES	15
848	mrna_ADAMTS4	mrna	ADAMTS4	YES	18
849	cnv_GMPPB	cnv	GMPPB	YES	11
849	stv_LHX9	stv	LHX9	YES	14
850	cnv_DAZL	cnv	DAZL	YES	20
851	meth_IFNA1	meth	IFNA1	YES	20
851	mrna_ZNF521	mrna	ZNF521	YES	10
852	stv_TTC26	stv	TTC26	YES	13
853	meth_PLSCR4	meth	PLSCR4	YES	12
853	mrna_CDC42BPG	mrna	CDC42BPG	YES	17
854	meth_H3F3A	meth	H3F3A	YES	47
854	mrna_MRVI1	mrna	MRVI1	YES	8

855	mrna_TMEM8A	mrna	TMEM8A	YES	10
856	stv_RAF1	stv	RAF1	YES	67
857	stv_TESK2	stv	TESK2	YES	22
858	cnv_IQSEC1	cnv	IQSEC1	YES	12
858	stv_CACNA1H	stv	CACNA1H	YES	35
859	meth_NSMF	meth	NSMF	YES	31
859	stv_NT5C1B	stv	NT5C1B	YES	10
860	stv_TFEB	stv	TFEB	YES	18
861	stv_CRTC2	stv	CRTC2	YES	17
861	stv_EPHX2	stv	EPHX2	YES	34
862	mrna_FOXK2	mrna	FOXK2	YES	18
863	mrna_PCSK6	mrna	PCSK6	YES	28
864	stv_TET3	stv	TET3	YES	18
865	cnv_EME1	cnv	EME1	YES	24
865	meth_ATP8B1	meth	ATP8B1	YES	33
866	cnv_FANCD2	cnv	FANCD2	YES	22
866	mrna_SCRIB	mrna	SCRIB	YES	58
867	meth_COX17	meth	COX17	YES	15
867	stv_P3H1	stv	P3H1	YES	28
868	cnv_ARHGAP27	cnv	ARHGAP27	YES	12
869	meth_FAP	meth	FAP	YES	44
869	stv_NR4A1	stv	NR4A1	YES	42
871	meth_PNKP	meth	PNKP	YES	37
871	mrna_THY1	mrna	THY1	YES	54
872	stv_IFNLR1	stv	IFNLR1	YES	12
872	stv_PPM1D	stv	PPM1D	YES	17
873	cnv_CEP112	cnv	CEP112	YES	7
873	stv_FOXJ1	stv	FOXJ1	YES	43
874	mrna_APEH	mrna	APEH	YES	17
876	mrna_OR2A4	mrna	OR2A4	YES	21
877	cnv_GLT8D1	cnv	GLT8D1	YES	6
877	cnv_ICT1	cnv	ICT1	YES	7
878	mrna_P4HA1	mrna	P4HA1	YES	19
879	mrna_TKT	mrna	TKT	YES	21
879	stv_JAZF1	stv	JAZF1	YES	11
880	cnv_FAM212A	cnv	FAM212A	YES	7
880	cnv_SEC14L1	cnv	SEC14L1	YES	13
881	meth_CD27	meth	CD27	YES	31
882	meth_EPHX1	meth	EPHX1	YES	21
882	meth_LCN2	meth	LCN2	YES	36
883	stv_MUC4	stv	MUC4	YES	17
885	stv_ABI3	stv	ABI3	YES	8
886	stv_ADCY7	stv	ADCY7	YES	29
887	mrna_DOCK9	mrna	DOCK9	YES	12
887	mrna_GALNT11	mrna	GALNT11	YES	19
888	mrna_ANTXR2	mrna	ANTXR2	YES	14
888	stv_IMMT	stv	IMMT	YES	11

889	cnv_LMOD3	cnv	LMOD3	YES	16
889	stv_MPP6	stv	MPP6	YES	6
890	cnv_PDHB	cnv	PDHB	YES	22
890	stv_SLC33A1	stv	SLC33A1	YES	14
891	mrna_FAM198B	mrna	FAM198B	YES	4
891	stv_LAP3	stv	LAP3	YES	18
892	meth_ARHGAP5	meth	ARHGAP5	YES	20
892	meth_SLC2A3	meth	SLC2A3	YES	25
893	meth_NUDT3	meth	NUDT3	YES	28
894	meth_ABCB11	meth	ABCB11	YES	24
894	meth_THEMIS2	meth	THEMIS2	YES	7
895	cnv_DCLK3	cnv	DCLK3	YES	15
896	meth_LMTK2	meth	LMTK2	YES	28
896	stv_PKD1L3	stv	PKD1L3	YES	23
897	meth_PSMA7	meth	PSMA7	YES	43
898	mrna_SCN4A	mrna	SCN4A	YES	20
898	stv_DAG1	stv	DAG1	YES	84
899	meth_ITIH2	meth	ITIH2	YES	12
899	mrna_CUL4B	mrna	CUL4B	YES	33
900	meth_TNFAIP8	meth	TNFAIP8	YES	7
900	stv_SKIL	stv	SKIL	YES	34
901	cnv_TEX14	cnv	TEX14	YES	25
901	stv_TTR	stv	TTR	YES	19
902	stv_COLQ	stv	COLQ	YES	15
902	stv_NOXA1	stv	NOXA1	YES	14
903	stv_RGS7	stv	RGS7	YES	16
904	cnv_CD300C	cnv	CD300C	YES	9
904	mrna_IFT140	mrna	IFT140	YES	35
905	cnv_DYNLL2	cnv	DYNLL2	YES	34
906	cnv_PPP1R9B	cnv	PPP1R9B	YES	66
907	stv_PROM1	stv	PROM1	YES	26
908	meth_PLA2G2D	meth	PLA2G2D	YES	21
909	meth_AP3D1	meth	AP3D1	YES	32
910	cnv_VEZF1	cnv	VEZF1	YES	15
910	stv_YIPF3	stv	YIPF3	YES	9
911	cnv_ABHD14B	cnv	ABHD14B	YES	9
911	cnv_CBX2	cnv	CBX2	YES	17
912	cnv_TUBG2	cnv	TUBG2	YES	18
912	meth_UBN1	meth	UBN1	YES	15
913	meth_RNF41	meth	RNF41	YES	36
914	meth_KCNMB3	meth	KCNMB3	YES	16
915	stv_EXOSC8	stv	EXOSC8	YES	27
917	stv_ADD1	stv	ADD1	YES	41
917	stv_NT5C3B	stv	NT5C3B	YES	11
918	cnv_ACKR2	cnv	ACKR2	YES	26
919	cnv_MST1R	cnv	MST1R	YES	33
919	meth_APOLD1	meth	APOLD1	YES	15

920	cnv_HYAL2	cnv	HYAL2	YES	67
920	cnv_VIPR1	cnv	VIPR1	YES	19
921	mrna_CCL14	mrna	CCL14	YES	22
921	stv_SLC8B1	stv	SLC8B1	YES	31
922	meth_LRRC15	meth	LRRC15	YES	14
923	meth_TSEN2	meth	TSEN2	YES	17
923	mrna_ERBB2	mrna	ERBB2	YES	82
924	stv_CARM1	stv	CARM1	YES	51
925	meth_PLTP	meth	PLTP	YES	10
925	stv_TIMMDC1	stv	TIMMDC1	YES	9
926	cnv_MRPL38	cnv	MRPL38	YES	7
926	mrna_MTG2	mrna	MTG2	YES	16
927	mrna_MXI1	mrna	MXI1	YES	15
928	mrna_ARHGAP27	mrna	ARHGAP27	YES	12
928	stv_PRAMEF20	stv	PRAMEF20	YES	6
929	cnv_NT5C	cnv	NT5C	YES	18
929	cnv_USH1G	cnv	USH1G	YES	19
930	meth_STC2	meth	STC2	YES	26
931	mrna_MAPK1	mrna	MAPK1	YES	125
931	stv_KCNB1	stv	KCNB1	YES	48
932	stv_ARID5B	stv	ARID5B	YES	34
932	stv_SEZ6	stv	SEZ6	YES	18
933	meth_CPA4	meth	CPA4	YES	12
934	stv_ALX3	stv	ALX3	YES	12
935	cnv_ADAMTS9	cnv	ADAMTS9	YES	21
935	meth_RNF19A	meth	RNF19A	YES	19
936	stv_RAB36	stv	RAB36	YES	14
937	cnv_EMC3	cnv	EMC3	YES	6
940	cnv_PXK	cnv	PXK	YES	16
941	mrna_ACAD11	mrna	ACAD11	YES	16
942	mrna_PALMD	mrna	PALMD	YES	6
942	mrna_ABCB8	mrna	ABCB8	YES	16
943	stv_SEMA5A	stv	SEMA5A	YES	32
944	stv_CPSF3	stv	CPSF3	YES	21
945	stv_FBLN5	stv	FBLN5	YES	19
945	stv_RAP2A	stv	RAP2A	YES	27
946	meth_C3orf58	meth	C3orf58	YES	9
946	mrna_NARFL	mrna	NARFL	YES	11
947	meth_PSMB3	meth	PSMB3	YES	40
948	stv_CHP1	stv	CHP1	YES	52
949	mrna_DAAM2	mrna	DAAM2	YES	6
950	mrna_PCSK4	mrna	PCSK4	YES	17
951	mrna_NR5A2	mrna	NR5A2	YES	41
951	stv_PHC2	stv	PHC2	YES	12
952	meth_FOXS1	meth	FOXS1	YES	37
952	mrna_ZNF366	mrna	ZNF366	YES	12
953	meth_RPLP1	meth	RPLP1	YES	21

953	stv_FTL	stv	FTL	YES	17
954	cnv_INTS2	cnv	INTS2	YES	12
954	stv_MTOR	stv	MTOR	YES	150
955	stv_PZP	stv	PZP	YES	10
956	meth_ELF3	meth	ELF3	YES	29
956	stv_CP	stv	CP	YES	19
957	meth_GALNT5	meth	GALNT5	YES	13
957	stv_HORMAD1	stv	HORMAD1	YES	15
958	mrna_TMOD2	mrna	TMOD2	YES	15
958	stv_RD3	stv	RD3	YES	4
959	stv_SLC2A1	stv	SLC2A1	YES	54
961	meth_MXD4	meth	MXD4	YES	9
962	mrna_LYPLA2	mrna	LYPLA2	YES	11
962	stv_FHL1	stv	FHL1	YES	19
963	mrna_CSGALNACT2	mrna	CSGALNACT2	YES	18
963	mrna_SBK1	mrna	SBK1	YES	11
964	meth_DHRS3	meth	DHRS3	YES	19
964	meth_HIBADH	meth	HIBADH	YES	13
965	stv_SLC14A1	stv	SLC14A1	YES	15
966	meth_DHTKD1	meth	DHTKD1	YES	14
967	mrna_GLT8D1	mrna	GLT8D1	YES	6
968	stv_PDLIM1	stv	PDLIM1	YES	12
969	stv_PPP2R3C	stv	PPP2R3C	YES	18
971	meth_PNMA1	meth	PNMA1	YES	8
971	mrna_TGIF1	mrna	TGIF1	YES	29
972	stv_SPATA6	stv	SPATA6	YES	8
973	cnv_TRIM37	cnv	TRIM37	YES	28
974	meth_PLGRKT	meth	PLGRKT	YES	9
974	meth_SLC5A12	meth	SLC5A12	YES	15
976	meth_DCLRE1A	meth	DCLRE1A	YES	14
976	stv_ZBTB7B	stv	ZBTB7B	YES	20
977	meth_C3AR1	meth	C3AR1	YES	26
977	stv_UHMK1	stv	UHMK1	YES	31
978	cnv_HRH1	cnv	HRH1	YES	23
978	cnv_SETMAR	cnv	SETMAR	YES	45
979	meth_EPHA1	meth	EPHA1	YES	34
979	mrna_FOXF1	mrna	FOXF1	YES	65
980	stv_DISC1	stv	DISC1	YES	55
980	stv_KDM6A	stv	KDM6A	YES	31
981	cnv_RUNDC3A	cnv	RUNDC3A	YES	10
981	meth_ACAD10	meth	ACAD10	YES	11
982	meth_PTPN11	meth	PTPN11	YES	85
983	stv_NAP1L1	stv	NAP1L1	YES	8
985	cnv_CA4	cnv	CA4	YES	27
986	stv_CCT6A	stv	CCT6A	YES	21
987	meth_ENPP1	meth	ENPP1	YES	48
987	stv_REPIN1	stv	REPIN1	YES	12

988	cnv_NGFR	cnv	NGFR	YES	52
988	mrna_ZEB2	mrna	ZEB2	YES	37
989	stv_SLC27A4	stv	SLC27A4	YES	27
990	cnv_TTLL3	cnv	TTLL3	YES	18
991	cnv_CLEC3B	cnv	CLEC3B	YES	17
991	stv_GRPEL2	stv	GRPEL2	YES	11
992	stv_TERF2IP	stv	TERF2IP	YES	36
993	cnv_PLCL2	cnv	PLCL2	YES	18
994	stv_RAB2B	stv	RAB2B	YES	17
995	stv_NUP54	stv	NUP54	YES	34
996	cnv_MPO	cnv	MPO	YES	36
997	stv_SKP2	stv	SKP2	YES	27
997	stv_TDRD6	stv	TDRD6	YES	8
998	cnv_C3orf20	cnv	C3orf20	YES	3
998	cnv_CACNA1G	cnv	CACNA1G	YES	41
999	mrna_ARHGEF5	mrna	ARHGEF5	YES	29
1000	meth_RGS17	meth	RGS17	YES	12
1001	stv_IGF2BP2	stv	IGF2BP2	YES	18
1002	stv_CELF1	stv	CELF1	YES	23
1002	stv_NLGN4X	stv	NLGN4X	YES	36
1003	cnv_BIRC5	cnv	BIRC5	YES	50
1004	meth_CACNB1	meth	CACNB1	YES	17
1004	stv_ERRFI1	stv	ERRFI1	YES	34
1005	stv_GPR101	stv	GPR101	YES	12
1007	cnv_SEMA3G	cnv	SEMA3G	YES	7
1007	cnv_UBA3	cnv	UBA3	YES	24
1008	mrna_SCAP	mrna	SCAP	YES	26
1009	cnv_ERN1	cnv	ERN1	YES	64
1009	meth_PSMD12	meth	PSMD12	YES	38
1010	cnv_WNT7A	cnv	WNT7A	YES	78
1011	meth_ACSBG1	meth	ACSBG1	YES	20
1011	meth_HTR3C	meth	HTR3C	YES	12
1012	cnv_XCR1	cnv	XCR1	YES	14
1012	mrna_PRICKLE1	mrna	PRICKLE1	YES	18
1013	cnv_TLR9	cnv	TLR9	YES	68
1013	stv_GTPBP1	stv	GTPBP1	YES	12
1014	mrna_CLEC16A	mrna	CLEC16A	YES	18
1014	mrna_CHSY3	mrna	CHSY3	YES	14
1015	stv_CAMSAP3	stv	CAMSAP3	YES	19
1016	cnv_CLTC	cnv	CLTC	YES	61
1017	cnv_TOP2B	cnv	TOP2B	YES	27
1017	mrna_BNIP3L	mrna	BNIP3L	YES	31
1018	stv_KLF6	stv	KLF6	YES	17
1019	cnv_C17orf80	cnv	C17orf80	YES	5
1019	stv_MRC2	stv	MRC2	YES	12
1020	mrna_GLB1	mrna	GLB1	YES	29
1021	cnv_USP19	cnv	USP19	YES	29

1022	meth_IFT140	meth	IFT140	YES	35
1022	stv_NUMBL	stv	NUMBL	YES	13
1023	stv_UBXN7	stv	UBXN7	YES	10
1024	cnv_ITIH1	cnv	ITIH1	YES	9
1024	mrna_LZTS3	mrna	LZTS3	YES	8
1025	stv_ZRANB1	stv	ZRANB1	YES	24
1026	cnv_UNC13D	cnv	UNC13D	YES	25
1027	meth_TGFBR2	meth	TGFBR2	YES	115
1029	meth_NCOA2	meth	NCOA2	YES	36
1029	meth_PLA2G1B	meth	PLA2G1B	YES	47
1030	mrna_NR3C1	mrna	NR3C1	YES	46
1031	meth_CXCR4	meth	CXCR4	YES	51
1031	mrna_A2M	mrna	A2M	YES	28
1032	cnv_ALAS1	cnv	ALAS1	YES	19
1033	cnv_BRPF1	cnv	BRPF1	YES	18
1033	mrna_MEF2D	mrna	MEF2D	YES	32
1034	cnv_PRICKLE2	cnv	PRICKLE2	YES	8
1034	cnv_SCN10A	cnv	SCN10A	YES	28
1035	stv_B3GALNT2	stv	B3GALNT2	YES	13
1036	stv_RANBP1	stv	RANBP1	YES	28
1036	stv_STON2	stv	STON2	YES	17
1037	cnv_NGLY1	cnv	NGLY1	YES	11
1037	stv_SMAD7	stv	SMAD7	YES	64
1038	stv_KAZN	stv	KAZN	YES	12
1039	meth_TMEM184A	meth	TMEM184A	YES	14
1040	mrna_TSFM	mrna	TSFM	YES	12
1041	mrna_FOLH1	mrna	FOLH1	YES	22
1041	mrna_TIMP3	mrna	TIMP3	YES	24
1043	stv_MEN1	stv	MEN1	YES	66
1043	stv_PRDM15	stv	PRDM15	YES	11
1044	cnv_MYD88	cnv	MYD88	YES	65
1044	meth_SCARF1	meth	SCARF1	YES	15
1045	stv_TARBP2	stv	TARBP2	YES	36
1046	stv_DAZAP1	stv	DAZAP1	YES	13
1048	meth_MMP7	meth	MMP7	YES	23
1049	stv_MAML1	stv	MAML1	YES	21
1050	stv_BMPR1A	stv	BMPR1A	YES	95
1050	stv_UGT1A9	stv	UGT1A9	YES	24
1051	stv_CLSTN1	stv	CLSTN1	YES	27
1051	stv_GRM8	stv	GRM8	YES	16
1052	stv_SEC31A	stv	SEC31A	YES	26
1053	stv_RRBP1	stv	RRBP1	YES	12
1053	stv_TTN	stv	TTN	YES	59
1055	meth_PLEKHB1	meth	PLEKHB1	YES	9
1055	stv_ATG9A	stv	ATG9A	YES	24
1056	stv_KIF6	stv	KIF6	YES	12
1057	cnv_XPC	cnv	XPC	YES	30

1058	mrna_FATE1	mrna	FATE1	YES	12
1058	stv_HLA.A	stv	HLA.A	NO	0
1059	stv_BCS1L	stv	BCS1L	YES	13
1060	cnv_TREX1	cnv	TREX1	YES	28
1060	meth_SPACA3	meth	SPACA3	YES	21
1061	stv_SMAP2	stv	SMAP2	YES	5
1062	cnv_ABHD5	cnv	ABHD5	YES	19
1063	cnv_PRKCD	cnv	PRKCD	YES	91
1064	mrna_LRRC46	mrna	LRRC46	YES	2
1065	stv_CEP192	stv	CEP192	YES	14
1065	stv_FICD	stv	FICD	YES	9
1066	mrna_DDX59	mrna	DDX59	YES	15
1066	stv_PGLYRP4	stv	PGLYRP4	YES	19
1067	stv_ACSL4	stv	ACSL4	YES	36
1068	stv_ERMAP	stv	ERMAP	YES	5
1070	stv_TRAPPC10	stv	TRAPPC10	YES	19
1071	cnv_NOG	cnv	NOG	YES	79
1071	stv_AP1G2	stv	AP1G2	YES	19
1072	cnv_ZMYND10	cnv	ZMYND10	YES	9
1072	stv_FKBP8	stv	FKBP8	YES	34
1073	cnv_DENND6A	cnv	DENND6A	YES	10
1073	mrna_EGLN3	mrna	EGLN3	YES	23
1074	meth_POLR2J2	meth	POLR2J2	YES	8
1074	stv_ARSA	stv	ARSA	YES	33
1075	stv_NOL6	stv	NOL6	YES	12
1078	stv_PSMB8	stv	PSMB8	YES	47
1079	meth_COG4	meth	COG4	YES	13
1080	cnv_RPL38	cnv	RPL38	YES	27
1081	meth_ANKRD27	meth	ANKRD27	YES	29
1082	meth_UHRF1	meth	UHRF1	YES	40
1083	meth_MTPAP	meth	MTPAP	YES	20
1084	cnv_CLASP2	cnv	CLASP2	YES	52
1084	stv_NOA1	stv	NOA1	YES	14
1085	meth_AGTPBP1	meth	AGTPBP1	YES	27
1085	stv_OBSCN	stv	OBSCN	YES	35
1086	meth_METAP1	meth	METAP1	YES	13
1086	stv_PIGO	stv	PIGO	YES	14
1087	cnv_RGS9	cnv	RGS9	YES	22
1088	stv_SPACA1	stv	SPACA1	YES	10
1089	cnv_ACTR8	cnv	ACTR8	YES	17
1091	meth_ODC1	meth	ODC1	YES	19
1091	mrna_KDR	mrna	KDR	YES	69
1092	mrna_SYNE3	mrna	SYNE3	YES	16
1094	cnv_GH1	cnv	GH1	YES	24
1095	mrna_CCDC40	mrna	CCDC40	YES	19
1095	stv_ZZZ3	stv	ZZZ3	YES	9
1096	meth_HCN1	meth	HCN1	YES	32

1097	cnv_FYCO1	cnv	FYCO1	YES	18
1097	mrna_MID1IP1	mrna	MID1IP1	YES	15
1099	mrna_PLCD1	mrna	PLCD1	YES	25
1100	mrna_WNT5A	mrna	WNT5A	YES	192
1101	cnv_GAA	cnv	GAA	YES	38
1101	mirna_MIR326	mirna	MIR326	NO	0
1102	mrna_TMCC1	mrna	TMCC1	YES	12
1104	meth_LAG3	meth	LAG3	YES	12
1105	cnv_CNOT10	cnv	CNOT10	YES	13
1106	cnv_TNNC1	cnv	TNNC1	YES	22
1106	mrna_UACA	mrna	UACA	YES	21
1107	meth_ATF5	meth	ATF5	YES	39
1107	stv_GTPBP2	stv	GTPBP2	YES	9
1108	mrna_MMRN2	mrna	MMRN2	YES	10
1109	stv_GPD1	stv	GPD1	YES	25
1109	stv_PUS3	stv	PUS3	YES	12
1110	meth_MAP3K3	meth	MAP3K3	YES	25
1111	meth_PBX1	meth	PBX1	YES	39
1112	stv_LMTK3	stv	LMTK3	YES	19
1113	stv_KIR3DL2	stv	KIR3DL2	YES	6
1115	cnv_NR2C2	cnv	NR2C2	YES	24
1116	mirna_MIR503	mirna	MIR503	YES	12
1117	cnv_GOSR2	cnv	GOSR2	YES	25
1117	mrna_CARD8	mrna	CARD8	YES	22
1118	stv_DEPDC1	stv	DEPDC1	YES	10
1119	stv_HES4	stv	HES4	YES	9
1120	cnv_NME1	cnv	NME1	YES	59
1120	cnv_PTH1R	cnv	PTH1R	YES	39
1121	mrna_MCAM	mrna	MCAM	YES	13
1121	stv_RAD51B	stv	RAD51B	YES	29
1122	cnv_NDUFAF3	cnv	NDUFAF3	YES	6
1123	mrna_HEY1	mrna	HEY1	YES	47
1123	stv_ACSS1	stv	ACSS1	YES	15
1124	mirna_MIR134	mirna	MIR134	YES	5
1126	cnv_PSMD12	cnv	PSMD12	YES	38
1126	stv_NLK	stv	NLK	YES	33
1128	cnv_PFKFB4	cnv	PFKFB4	YES	16
1128	meth_HTR3B	meth	HTR3B	YES	16
1129	cnv_NR1D2	cnv	NR1D2	YES	28
1130	cnv_TMC8	cnv	TMC8	YES	18
1130	mrna_TRAF4	mrna	TRAF4	YES	29
1131	cnv_UNK	cnv	UNK	YES	9
1132	cnv_NOL11	cnv	NOL11	YES	12
1132	stv_CLCN1	stv	CLCN1	YES	22
1133	stv_ARFGAP2	stv	ARFGAP2	YES	14
1134	mrna_HS3ST1	mrna	HS3ST1	YES	9
1135	stv_AP1G1	stv	AP1G1	YES	34

1136	stv_PSMC2	stv	PSMC2	YES	53
1137	cnv_FAM19A1	cnv	FAM19A1	YES	3
1137	meth_SP6	meth	SP6	YES	11
1139	stv_NLRX1	stv	NLRX1	YES	18
1140	stv_SH2B3	stv	SH2B3	YES	11
1141	mrna_CCDC51	mrna	CCDC51	YES	3
1142	stv_KIR3DL1	stv	KIR3DL1	YES	9
1142	stv_SEC24C	stv	SEC24C	YES	24
1143	stv_TRIM63	stv	TRIM63	YES	22
1144	stv_ALDH6A1	stv	ALDH6A1	YES	17
1145	cnv_ACVR2B	cnv	ACVR2B	YES	59
1145	stv_ING4	stv	ING4	YES	23
1146	cnv_CBX8	cnv	CBX8	YES	21
1146	mrna_BCO2	mrna	BCO2	YES	18
1147	meth_NLRC5	meth	NLRC5	YES	19
1147	meth_SLC30A1	meth	SLC30A1	YES	30
1148	stv_DLX5	stv	DLX5	YES	41
1148	stv_LPO	stv	LPO	YES	17
1149	cnv_TRAK1	cnv	TRAK1	YES	13
1150	cnv_SYNGR2	cnv	SYNGR2	YES	8
1150	stv_RHBDF1	stv	RHBDF1	YES	19
1151	stv_HLA.F	stv	HLA.F	NO	0
1152	cnv_NME6	cnv	NME6	YES	18
1153	stv_IPPK	stv	IPPK	YES	14
1154	meth_DSG1	meth	DSG1	YES	30
1155	stv_ATOH7	stv	ATOH7	YES	12
1156	stv_MAG	stv	MAG	YES	32
1156	stv_TP53TG5	stv	TP53TG5	YES	5
1157	cnv_HHATL	cnv	HHATL	YES	6
1158	meth_CELA3B	meth	CELA3B	YES	7
1159	mrna_MCU	mrna	MCU	YES	23
1161	stv_GSG2	stv	GSG2	YES	22
1161	stv_RTKN	stv	RTKN	YES	14
1162	cnv_RAB5A	cnv	RAB5A	YES	52
1162	meth_AVPR1B	meth	AVPR1B	YES	18
1164	meth_PTGIR	meth	PTGIR	YES	20
1166	stv_C3AR1	stv	C3AR1	YES	26
1167	cnv_IL17RC	cnv	IL17RC	YES	13
1167	meth_HSD3B1	meth	HSD3B1	YES	24
1168	mrna_PLVAP	mrna	PLVAP	YES	13
1169	mrna_FLII	mrna	FLII	YES	17
1170	stv_IMPDH2	stv	IMPDH2	YES	27
1171	cnv_SCN4A	cnv	SCN4A	YES	20
1172	cnv_CACNA2D3	cnv	CACNA2D3	YES	12
1172	meth_KRT17	meth	KRT17	YES	21
1174	meth_RASGEF1C	meth	RASGEF1C	YES	4
1176	stv_CARF	stv	CARF	YES	14

1178	cnv_RPS6KB1	cnv	RPS6KB1	YES	77
1178	stv_SOST	stv	SOST	YES	19
1179	meth_SLC25A51	meth	SLC25A51	YES	8
1180	cnv_GADL1	cnv	GADL1	YES	9
1180	stv_VHL	stv	VHL	YES	28
1181	meth_POLR2C	meth	POLR2C	YES	24
1182	mrna_LHX6	mrna	LHX6	YES	15
1182	mrna_PDK1	mrna	PDK1	YES	21
1183	meth_ATMIN	meth	ATMIN	YES	14
1183	stv_PATZ1	stv	PATZ1	YES	18
1184	mrna_DCHS1	mrna	DCHS1	YES	29
1185	stv_ARNT	stv	ARNT	YES	38
1185	stv_SIK3	stv	SIK3	YES	15
1186	stv_MMP24	stv	MMP24	YES	26
1186	stv_TMEM237	stv	TMEM237	YES	8
1188	mirna_MIR122	mirna	MIR122	YES	2
1188	stv_SESN3	stv	SESN3	YES	16
1189	meth_ABCC10	meth	ABCC10	YES	13
1189	mrna_CNTN6	mrna	CNTN6	YES	12
1190	cnv_ATP2B2	cnv	ATP2B2	YES	53
1191	mrna_GPRC5C	mrna	GPRC5C	YES	13
1191	stv_SNAI2	stv	SNAI2	YES	57
1192	meth_SNF8	meth	SNF8	YES	40
1193	cnv_CANT1	cnv	CANT1	YES	25
1194	meth_LMF2	meth	LMF2	YES	6
1195	mrna_ATP13A1	mrna	ATP13A1	YES	22
1196	cnv_SRGAP3	cnv	SRGAP3	YES	9
1196	mrna_EPAS1	mrna	EPAS1	YES	45
1198	stv_IDUA	stv	IDUA	YES	20
1198	stv_SUSD4	stv	SUSD4	YES	7
1199	stv_ACTR2	stv	ACTR2	YES	45
1200	cnv_FTSJ3	cnv	FTSJ3	YES	17
1201	cnv_CSH2	cnv	CSH2	YES	6
1202	cnv_SPOP	cnv	SPOP	YES	18
1203	cnv_DYNC1LI1	cnv	DYNC1LI1	YES	35
1203	mrna_CADM4	mrna	CADM4	YES	13
1204	cnv_MRPS23	cnv	MRPS23	YES	12
1206	cnv_VILL	cnv	VILL	YES	6
1208	cnv_DHX40	cnv	DHX40	YES	11
1208	mrna_BAMBI	mrna	BAMBI	YES	18
1209	mrna_RPUSD3	mrna	RPUSD3	YES	8
1210	mrna_ITGA5	mrna	ITGA5	YES	49
1211	meth_SLC5A10	meth	SLC5A10	YES	15
1211	stv_ARHGDIA	stv	ARHGDIA	YES	33
1214	stv_ACTR5	stv	ACTR5	YES	13
1215	stv_NECAP1	stv	NECAP1	YES	11
1215	stv_PEX10	stv	PEX10	YES	11

1216	stv_RABAC1	stv	RABAC1	YES	13
1218	stv_HOXD1	stv	HOXD1	YES	10
1219	cnv_PPM1D	cnv	PPM1D	YES	17
1219	meth_SHANK2	meth	SHANK2	YES	39
1220	mrna_PRSS23	mrna	PRSS23	YES	12
1221	mirna_MIR487A	mirna	MIR487A	NO	0
1221	stv_TMTC2	stv	TMTC2	YES	6
1222	meth_MAGI1	meth	MAGI1	YES	20
1224	meth_PCOLCE	meth	PCOLCE	YES	12
1224	stv_PNPLA6	stv	PNPLA6	YES	12
1225	stv_MTERF2	stv	MTERF2	YES	9
1226	stv_BCAN	stv	BCAN	YES	19
1227	mrna_VPS9D1	mrna	VPS9D1	YES	5
1227	stv_LRTOMT	stv	LRTOMT	YES	17
1228	mrna_FMNL3	mrna	FMNL3	YES	16
1229	cnv_HDAC11	cnv	HDAC11	YES	16
1230	meth_ACSM3	meth	ACSM3	YES	20
1230	mrna_CYP2J2	mrna	CYP2J2	YES	24
1231	cnv_SACM1L	cnv	SACM1L	YES	19
1233	meth_FBXL13	meth	FBXL13	YES	4
1233	stv_GRHL1	stv	GRHL1	YES	21
1235	cnv_HACL1	cnv	HACL1	YES	17
1237	meth_RBX1	meth	RBX1	YES	55
1239	stv_DPEP1	stv	DPEP1	YES	38
1239	stv_MAPKAP1	stv	MAPKAP1	YES	26
1240	stv_TRPM7	stv	TRPM7	YES	31
1241	cnv_CAMKV	cnv	CAMKV	YES	15
1241	cnv_RAD18	cnv	RAD18	YES	33
1242	mirna_MIR205	mirna	MIR205	YES	3
1242	stv_HOXC4	stv	HOXC4	YES	17
1244	cnv_GPRC5C	cnv	GPRC5C	YES	13
1246	meth_RNF138	meth	RNF138	YES	20
1248	cnv_NBEAL2	cnv	NBEAL2	YES	6
1248	mrna_EBF1	mrna	EBF1	YES	10
1249	mrna_INSR	mrna	INSR	YES	79
1250	meth_TSPAN33	meth	TSPAN33	YES	10
1251	mrna_VPS25	mrna	VPS25	YES	22
1251	stv_KMT2C	stv	KMT2C	YES	20
1252	mrna_UNC5C	mrna	UNC5C	YES	16
1253	cnv_CNTNAP1	cnv	CNTNAP1	YES	27
1253	meth_RFTN2	meth	RFTN2	YES	8
1254	mrna_KLC2	mrna	KLC2	YES	15
1255	stv_ARRB1	stv	ARRB1	YES	85
1256	mrna_TBC1D2B	mrna	TBC1D2B	YES	8
1256	stv_ANKRD2	stv	ANKRD2	YES	25
1257	stv_TAS1R1	stv	TAS1R1	YES	13
1258	cnv_RFTN1	cnv	RFTN1	YES	19

1258	stv_TTLL8	stv	TTLL8	YES	17
1259	cnv_MED13	cnv	MED13	YES	22
1259	stv_LYST	stv	LYST	YES	24
1260	meth_UFL1	meth	UFL1	YES	24
1260	stv_CAPN9	stv	CAPN9	YES	11
1261	stv_TOX	stv	TOX	YES	2
1262	cnv_TTC21A	cnv	TTC21A	YES	5
1263	meth_FARSA	meth	FARSA	YES	17
1264	mrna_QARS	mrna	QARS	YES	25
1265	mrna_GIMAP7	mrna	GIMAP7	YES	12
1265	stv_TERT	stv	TERT	YES	72
1267	meth_DHPS	meth	DHPS	YES	14
1269	stv_BACE1	stv	BACE1	YES	32
1270	cnv_JMJD6	cnv	JMJD6	YES	44
1270	mrna_KCNE3	mrna	KCNE3	YES	29
1272	stv_FDXACB1	stv	FDXACB1	YES	6
1272	stv_ZBTB42	stv	ZBTB42	YES	11
1274	mrna_NES	mrna	NES	YES	20
1275	mrna_PARS2	mrna	PARS2	YES	11
1277	stv_COPG1	stv	COPG1	YES	21
1278	cnv_FAM19A4	cnv	FAM19A4	YES	4
1278	stv_LAG3	stv	LAG3	YES	12
1279	cnv_HYAL1	cnv	HYAL1	YES	41
1280	cnv_GGA3	cnv	GGA3	YES	18
1280	mrna_WFDC12	mrna	WFDC12	YES	6
1281	cnv_GPR62	cnv	GPR62	YES	10
1282	stv_SLC25A5	stv	SLC25A5	YES	29
1283	mrna_ERC2	mrna	ERC2	YES	9
1283	stv_THSD4	stv	THSD4	YES	9
1284	cnv_MMD	cnv	MMD	YES	15
1285	stv_VPS9D1	stv	VPS9D1	YES	5
1287	stv_FAM46A	stv	FAM46A	YES	4
1289	mrna_ATP6V0E2	mrna	ATP6V0E2	YES	20
1290	cnv_CAV3	cnv	CAV3	YES	96
1290	cnv_MAP3K3	cnv	MAP3K3	YES	25
1292	meth_MGAM	meth	MGAM	YES	22
1292	stv_MAPK15	stv	MAPK15	YES	21
1293	meth_SLC15A4	meth	SLC15A4	YES	16
1293	stv_INHBA	stv	INHBA	YES	66
1294	cnv_SCN11A	cnv	SCN11A	YES	23
1295	meth_MTHFS	meth	MTHFS	YES	16
1296	meth_GEN1	meth	GEN1	YES	20
1297	mrna_SH2D1B	mrna	SH2D1B	YES	11
1299	cnv_ULK4	cnv	ULK4	YES	15
1299	mrna_PGF	mrna	PGF	YES	29
1300	meth_C7	meth	C7	YES	12
1301	cnv_TMIE	cnv	TMIE	YES	4

1304	meth_NAGLU	meth	NAGLU	YES	15
1306	mrna_UNC5B	mrna	UNC5B	YES	13
1308	stv_PKD1L1	stv	PKD1L1	YES	18
1309	cnv_RPUSD3	cnv	RPUSD3	YES	8
1310	cnv_CNTN4	cnv	CNTN4	YES	16
1311	cnv_NUP85	cnv	NUP85	YES	36
1312	cnv_TAC4	cnv	TAC4	YES	10
1315	mrna_ASPSCR1	mrna	ASPSCR1	YES	21
1316	meth_NRF1	meth	NRF1	YES	19
1317	cnv_WNT5A	cnv	WNT5A	YES	192
1317	meth_AP1B1	meth	AP1B1	YES	25
1318	cnv_DAG1	cnv	DAG1	YES	84
1318	stv_SRRM1	stv	SRRM1	YES	18
1319	cnv_WIPI1	cnv	WIPI1	YES	28
1319	meth_IL18BP	meth	IL18BP	YES	10
1320	mrna_SERPINE1	mrna	SERPINE1	YES	45
1321	cnv_HEMK1	cnv	HEMK1	YES	12
1322	mrna_ECSCR	mrna	ECSCR	YES	13
1323	stv_LRIG3	stv	LRIG3	YES	8
1323	stv_PON2	stv	PON2	YES	17
1324	meth_METTL4	meth	METTL4	YES	8
1325	stv_SETD3	stv	SETD3	YES	24
1326	meth_CORO7	meth	CORO7	YES	14
1326	stv_AVPI1	stv	AVPI1	YES	3
1328	cnv_GNAT1	cnv	GNAT1	YES	44
1328	meth_RBPJ	meth	RBPJ	YES	85
1329	mrna_ITGA4	mrna	ITGA4	YES	39
1330	stv_STOX1	stv	STOX1	YES	36
1331	stv_RCAN3	stv	RCAN3	YES	11
1332	meth_ENOPH1	meth	ENOPH1	YES	13
1333	cnv_CHAD	cnv	CHAD	YES	9
1334	stv_FANCB	stv	FANCB	YES	7
1334	stv_MCM5	stv	MCM5	YES	20
1335	cnv_RPL14	cnv	RPL14	YES	23
1337	meth_AFTPH	meth	AFTPH	YES	10
1338	cnv_TK1	cnv	TK1	YES	23
1339	stv_HMCN1	stv	HMCN1	YES	15
1339	stv_RHPN1	stv	RHPN1	YES	3
1340	stv_ITGB2	stv	ITGB2	YES	57
1341	cnv_ACOX1	cnv	ACOX1	YES	34
1341	stv_WDR35	stv	WDR35	YES	30
1342	stv_RPS8	stv	RPS8	YES	22
1343	cnv_EOMES	cnv	EOMES	YES	40
1344	mrna_EPC1	mrna	EPC1	YES	20
1345	stv_GUCY2D	stv	GUCY2D	YES	23
1346	meth_DCXR	meth	DCXR	YES	20
1347	mrna_MTMR14	mrna	MTMR14	YES	15

1348	meth_SMC5	meth	SMC5	YES	25
1348	stv_FBXL5	stv	FBXL5	YES	16
1349	mrna_CDH13	mrna	CDH13	YES	43
1350	stv_ADGRV1	stv	ADGRV1	YES	27
1351	cnv_ALS2CL	cnv	ALS2CL	YES	10
1352	meth_C5orf30	meth	C5orf30	YES	11
1352	meth_RUFY1	meth	RUFY1	YES	16
1353	stv_GTF2H4	stv	GTF2H4	YES	36
1354	cnv_MTMR4	cnv	MTMR4	YES	21
1355	stv_RBP1	stv	RBP1	YES	17
1356	stv_HDGF	stv	HDGF	YES	19
1358	stv_CLN6	stv	CLN6	YES	17
1364	cnv_GLB1	cnv	GLB1	YES	29
1365	mrna_EDN1	mrna	EDN1	YES	116
1366	cnv_GIP	cnv	GIP	YES	37
1367	cnv_MRPS7	cnv	MRPS7	YES	14
1368	mrna_ADCY4	mrna	ADCY4	YES	31
1369	mrna_SHANK3	mrna	SHANK3	YES	65
1369	stv_CECR2	stv	CECR2	YES	17
1370	stv_GEMIN4	stv	GEMIN4	YES	18
1372	meth_HDC	meth	HDC	YES	13
1372	meth_IL36RN	meth	IL36RN	YES	15
1373	mrna_LRRC32	mrna	LRRC32	YES	12
1374	meth_IL37	meth	IL37	YES	12
1374	meth_PNPLA3	meth	PNPLA3	YES	29
1375	meth_PRKCDBP	meth	PRKCDBP	YES	2
1376	mrna_APLN	mrna	APLN	YES	26
1377	meth_APRT	meth	APRT	YES	21
1377	stv_PSMC3IP	stv	PSMC3IP	YES	12
1378	mirna_MIR30A	mirna	MIR30A	YES	3
1381	cnv_IL17RB	cnv	IL17RB	YES	16
1381	stv_NDC80	stv	NDC80	YES	28
1383	mirna_MIR224	mirna	MIR224	YES	3
1383	stv_TYW1	stv	TYW1	YES	11
1385	stv_OTOG	stv	OTOG	YES	10
1386	meth_MYL6	meth	MYL6	YES	16
1388	cnv_GRIN2C	cnv	GRIN2C	YES	34
1388	mrna_IRF5	mrna	IRF5	YES	26
1390	cnv_WNT9B	cnv	WNT9B	YES	43
1391	stv_ACSBG1	stv	ACSBG1	YES	20
1392	cnv_PHOSPHO1	cnv	PHOSPHO1	YES	15
1394	stv_DUS4L	stv	DUS4L	YES	7
1395	meth_ZMYM4	meth	ZMYM4	YES	11
1396	meth_PCM1	meth	PCM1	YES	35
1397	stv_RNF168	stv	RNF168	YES	32
1398	cnv_ATP5H	cnv	ATP5H	YES	22
1398	meth_B4GALT5	meth	B4GALT5	YES	15

1399	stv_CPNE4	stv	CPNE4	YES	2
1401	cnv_FEZF2	cnv	FEZF2	YES	18
1401	mrna_SCARF1	mrna	SCARF1	YES	15
1403	cnv_CHL1	cnv	CHL1	YES	22
1404	meth_VRTN	meth	VRTN	YES	4
1404	stv_UCHL5	stv	UCHL5	YES	31
1405	mrna_HMCN1	mrna	HMCN1	YES	15
1406	stv_KCNQ4	stv	KCNQ4	YES	18
1407	stv_POGZ	stv	POGZ	YES	14
1410	stv_LGI3	stv	LGI3	YES	9
1411	stv_COG8	stv	COG8	YES	10
1411	stv_FKBP4	stv	FKBP4	YES	43
1412	stv_SHANK1	stv	SHANK1	YES	47
1413	meth_LACRT	meth	LACRT	YES	26
1413	stv_FASLG	stv	FASLG	YES	54
1414	cnv_DDX42	cnv	DDX42	YES	20
1416	cnv_TBX4	cnv	TBX4	YES	13
1418	mrna_IL3RA	mrna	IL3RA	YES	14
1419	stv_ALG9	stv	ALG9	YES	13
1420	cnv_CAPN7	cnv	CAPN7	YES	17
1421	cnv_ARPC4	cnv	ARPC4	YES	20
1421	stv_IQGAP2	stv	IQGAP2	YES	25
1422	stv_NME6	stv	NME6	YES	18
1423	cnv_EPM2AIP1	cnv	EPM2AIP1	YES	12
1424	mirna_MIR452	mirna	MIR452	NO	0
1425	mrna_ITGA1	mrna	ITGA1	YES	35
1427	cnv_PLXNB1	cnv	PLXNB1	YES	30
1428	stv_MCOLN1	stv	MCOLN1	YES	24
1429	mirna_MIR511	mirna	MIR511	NO	0
1431	cnv_ABCA9	cnv	ABCA9	YES	12
1431	meth_EMC2	meth	EMC2	YES	7
1432	stv_UGT3A1	stv	UGT3A1	YES	9
1434	mrna_SYN3	mrna	SYN3	YES	12
1435	cnv_ELP6	cnv	ELP6	YES	8
1435	mrna_ETS1	mrna	ETS1	YES	49
1437	cnv_CAMK1	cnv	CAMK1	YES	38
1437	meth_IZUMO4	meth	IZUMO4	YES	2
1439	meth_HMOX1	meth	HMOX1	YES	76
1440	cnv_UBE2O	cnv	UBE2O	YES	19
1440	mrna_ROBO4	mrna	ROBO4	YES	8
1442	cnv_GHRL	cnv	GHRL	YES	73
1442	mrna_TRPC4	mrna	TRPC4	YES	29
1443	cnv_TMEM235	cnv	TMEM235	YES	6
1443	meth_KIF7	meth	KIF7	YES	17
1444	cnv_CACNG1	cnv	CACNG1	YES	16
1444	meth_PCDH12	meth	PCDH12	YES	15
1446	cnv_ACE	cnv	ACE	YES	61

1446	cnv_ATXN7	cnv	ATXN7	YES	21
1447	mrna_SCARB1	mrna	SCARB1	YES	60
1448	meth_PIK3C2B	meth	PIK3C2B	YES	32
1449	cnv_SRSF1	cnv	SRSF1	YES	32
1449	stv_TEX10	stv	TEX10	YES	11
1450	stv_CCDC114	stv	CCDC114	YES	7
1451	meth_RING1	meth	RING1	YES	24
1452	meth_TRAIP	meth	TRAIP	YES	16
1452	stv_PAX8	stv	PAX8	YES	54
1455	mirna_MIR34C	mirna	MIR34C	YES	5
1455	mrna_MMP15	mrna	MMP15	YES	21
1456	stv_ADAM20	stv	ADAM20	YES	11
1457	cnv_FBLN2	cnv	FBLN2	YES	10
1457	stv_MTRR	stv	MTRR	YES	25
1461	stv_DNASE1L1	stv	DNASE1L1	YES	14
1464	cnv_TBC1D5	cnv	TBC1D5	YES	26
1464	meth_CAPN10	meth	CAPN10	YES	19
1465	meth_GPS1	meth	GPS1	YES	15
1465	stv_OAS3	stv	OAS3	YES	26
1466	cnv_CCR8	cnv	CCR8	YES	16
1466	cnv_KLHL40	cnv	KLHL40	YES	13
1467	stv_TECRL	stv	TECRL	YES	9
1470	meth_LRSAM1	meth	LRSAM1	YES	22
1470	meth_PYGM	meth	PYGM	YES	16
1471	stv_SPHK2	stv	SPHK2	YES	30
1472	meth_POM121	meth	POM121	YES	29
1472	meth_TTC8	meth	TTC8	YES	36
1473	meth_DHFR	meth	DHFR	YES	32
1473	stv_CBX6	stv	CBX6	YES	10
1474	cnv_CTNNB1	cnv	CTNNB1	YES	260
1475	cnv_GRM2	cnv	GRM2	YES	26
1476	mrna_FOXC1	mrna	FOXC1	YES	77
1477	stv_ATP5G1	stv	ATP5G1	YES	22
1479	mrna_ABHD14A	mrna	ABHD14A	YES	5
1479	stv_PLEKHG4	stv	PLEKHG4	YES	5
1483	stv_STK4	stv	STK4	YES	52
1484	cnv_NUP210	cnv	NUP210	YES	23
1484	stv_ERLIN2	stv	ERLIN2	YES	22
1486	cnv_GNAI2	cnv	GNAI2	YES	43
1488	stv_ABCC3	stv	ABCC3	YES	21
1489	meth_LGI1	meth	LGI1	YES	13
1490	cnv_ZNF35	cnv	ZNF35	YES	12
1490	stv_TMUB1	stv	TMUB1	YES	17
1494	mrna_CLDN4	mrna	CLDN4	YES	19
1495	cnv_LZTFL1	cnv	LZTFL1	YES	7
1496	mrna_ST8SIA6	mrna	ST8SIA6	YES	16
1498	mrna_IDO1	mrna	IDO1	YES	31

1500	cnv_MAPKAPK3	cnv	MAPKAPK3	YES	37
1500	stv_KDM5C	stv	KDM5C	YES	19
1501	stv_FMO4	stv	FMO4	YES	13
1501	stv_HS3ST4	stv	HS3ST4	YES	8
1502	mrna_POR	mrna	POR	YES	43
1502	stv_TSG101	stv	TSG101	YES	64
1503	meth_MBD5	meth	MBD5	YES	14
1503	stv_GPD2	stv	GPD2	YES	16
1504	mrna_RHOJ	mrna	RHOJ	YES	17
1504	stv_PGD	stv	PGD	YES	11
1505	mrna_SLC4A11	mrna	SLC4A11	YES	30
1505	mrna_ALDOC	mrna	ALDOC	YES	23
1507	mrna_CD248	mrna	CD248	YES	15
1508	cnv_SLC38A3	cnv	SLC38A3	YES	28
1508	stv_RBM15	stv	RBM15	YES	16
1510	stv_ATP2B4	stv	ATP2B4	YES	61
1510	stv_CENPQ	stv	CENPQ	YES	10
1511	cnv_SPAG9	cnv	SPAG9	YES	26
1511	stv_MISP	stv	MISP	YES	10
1512	cnv_PSMD6	cnv	PSMD6	YES	39
1513	meth_RPSA	meth	RPSA	YES	38
1514	mrna_TADA3	mrna	TADA3	YES	30
1515	cnv_CAMP	cnv	CAMP	YES	25
1515	stv_EXPH5	stv	EXPH5	YES	8
1516	cnv_RPSA	cnv	RPSA	YES	38
1516	cnv_SLC22A13	cnv	SLC22A13	YES	18
1519	cnv_TSEN2	cnv	TSEN2	YES	17
1519	mrna_ZMYND10	mrna	ZMYND10	YES	9
1523	cnv_ITGA9	cnv	ITGA9	YES	15
1525	stv_SCAMP5	stv	SCAMP5	YES	21
1526	stv_GPBAR1	stv	GPBAR1	YES	12
1528	stv_NEFL	stv	NEFL	YES	49
1529	meth_PNPLA2	meth	PNPLA2	YES	26
1529	stv_MICU2	stv	MICU2	YES	14
1531	stv_MTIF2	stv	MTIF2	YES	15
1532	cnv_EPN3	cnv	EPN3	YES	13
1533	cnv_SETD2	cnv	SETD2	YES	35
1534	mrna_KCNH3	mrna	KCNH3	YES	20
1536	cnv_PSMC5	cnv	PSMC5	YES	60
1536	stv_NRF1	stv	NRF1	YES	19
1537	cnv_AKAP1	cnv	AKAP1	YES	11
1539	cnv_EPX	cnv	EPX	YES	19
1540	cnv_AOC3	cnv	AOC3	YES	29
1541	stv_MLH1	stv	MLH1	YES	47
1543	stv_VPS51	stv	VPS51	YES	24
1544	stv_PARL	stv	PARL	YES	18
1547	cnv_SGCA	cnv	SGCA	YES	18

1548	mrna_VEGFA	mrna	VEGFA	YES	143
1548	stv_SLC25A42	stv	SLC25A42	YES	17
1549	cnv_ST6GALNAC2	cnv	ST6GALNAC2	YES	13
1549	meth_CSTB	meth	CSTB	YES	21
1551	stv_RHOJ	stv	RHOJ	YES	17
1552	stv_IFI30	stv	IFI30	YES	14
1553	meth_LYPLA1	meth	LYPLA1	YES	16
1554	stv_ADSSL1	stv	ADSSL1	YES	27
1555	meth_ARL8B	meth	ARL8B	YES	25
1557	stv_ARHGAP32	stv	ARHGAP32	YES	27
1558	cnv_SCN5A	cnv	SCN5A	YES	77
1559	stv_PDIA4	stv	PDIA4	YES	17
1561	stv_ISLR2	stv	ISLR2	YES	7
1561	stv_MPHOSPH8	stv	MPHOSPH8	YES	19
1562	stv_MYC	stv	MYC	YES	73
1562	stv_NID1	stv	NID1	YES	21
1563	stv_CLDN11	stv	CLDN11	YES	15
1564	stv_ADCY3	stv	ADCY3	YES	36
1564	stv_CYP4A22	stv	CYP4A22	YES	17
1565	cnv_ARF4	cnv	ARF4	YES	29
1565	stv_ARHGEF10L	stv	ARHGEF10L	YES	9
1567	mrna_GRPEL2	mrna	GRPEL2	YES	11
1568	mrna_PDIA5	mrna	PDIA5	YES	15
1569	mrna_COX10	mrna	COX10	YES	24
1571	cnv_TRNT1	cnv	TRNT1	YES	19
1572	stv_CYP24A1	stv	CYP24A1	YES	20
1573	mrna_JAG2	mrna	JAG2	YES	29
1574	cnv_TUBD1	cnv	TUBD1	YES	18
1574	stv_NR1H2	stv	NR1H2	YES	49
1575	mrna_OR51E2	mrna	OR51E2	YES	17
1576	cnv_COIL	cnv	COIL	YES	10
1577	stv_CEBPE	stv	CEBPE	YES	22
1581	stv_BSG	stv	BSG	YES	31
1582	cnv_CMTM8	cnv	CMTM8	YES	13
1584	stv_FBXL17	stv	FBXL17	YES	1
1586	mrna_ARRDC3	mrna	ARRDC3	YES	16
1586	mrna_GOT2	mrna	GOT2	YES	44
1587	stv_DNAH6	stv	DNAH6	YES	19
1587	stv_ENTPD7	stv	ENTPD7	YES	9
1589	mrna_SH3GLB1	mrna	SH3GLB1	YES	41
1589	stv_ITGA6	stv	ITGA6	YES	52
1590	meth_CASQ2	meth	CASQ2	YES	33
1592	stv_ERCC2	stv	ERCC2	YES	81
1593	meth_TOR1A	meth	TOR1A	YES	50
1593	stv_RBM26	stv	RBM26	YES	7
1594	meth_ST6GALNAC1	meth	ST6GALNAC1	YES	14
1596	cnv_OXTR	cnv	OXTR	YES	57

1596	stv_IRF4	stv	IRF4	YES	36
1597	meth_MARK2	meth	MARK2	YES	41
1598	cnv_TDGF1	cnv	TDGF1	YES	46
1598	mrna_LYVE1	mrna	LYVE1	YES	19
1600	stv_SLC9A3R1	stv	SLC9A3R1	YES	73
1600	stv_ST14	stv	ST14	YES	19
1601	mrna_FOXJ1	mrna	FOXJ1	YES	43
1602	cnv_CYTH1	cnv	CYTH1	YES	16
1602	cnv_LGALS3BP	cnv	LGALS3BP	YES	14
1603	mrna_RAB33A	mrna	RAB33A	YES	14
1604	stv_POP1	stv	POP1	YES	21
1605	meth_TOP2B	meth	TOP2B	YES	27
1606	meth_WFIKKN1	meth	WFIKKN1	YES	13
1607	cnv_CCDC36	cnv	CCDC36	YES	11
1607	cnv_THRB	cnv	THRB	YES	33
1610	cnv_SLC25A38	cnv	SLC25A38	YES	11
1611	stv_GNL2	stv	GNL2	YES	10
1612	stv_ASCC3	stv	ASCC3	YES	21
1613	cnv_STRADA	cnv	STRADA	YES	20
1614	cnv_SLC35B1	cnv	SLC35B1	YES	12
1614	stv_PEF1	stv	PEF1	YES	25
1616	stv_FXYD4	stv	FXYD4	YES	14
1617	stv_GNB1	stv	GNB1	YES	44
1618	meth_OTOR	meth	OTOR	YES	4
1619	meth_ATP5G2	meth	ATP5G2	YES	21
1619	meth_LMAN1L	meth	LMAN1L	YES	4
1623	meth_IGSF9	meth	IGSF9	YES	15
1624	cnv_LRRC59	cnv	LRRC59	YES	11
1627	mrna_CES3	mrna	CES3	YES	8
1627	mrna_PECAM1	mrna	PECAM1	YES	15
1629	meth_ORMDL3	meth	ORMDL3	YES	13
1630	cnv_DHX30	cnv	DHX30	YES	18
1631	meth_IREB2	meth	IREB2	YES	22
1631	stv_VDR	stv	VDR	YES	45
1633	stv_TIMM44	stv	TIMM44	YES	12
1634	mrna_TLDC1	mrna	TLDC1	YES	3
1634	stv_FANCD2	stv	FANCD2	YES	22
1636	cnv_SUMF1	cnv	SUMF1	YES	11
1637	stv_GFRA3	stv	GFRA3	YES	19
1638	mrna_BNIP3	mrna	BNIP3	YES	65
1639	mirna_MIR215	mirna	MIR215	YES	1
1639	mrna_DDR2	mrna	DDR2	YES	41
1640	stv_LYAR	stv	LYAR	YES	6
1642	mrna_TAL1	mrna	TAL1	YES	60
1643	stv_CNTNAP2	stv	CNTNAP2	YES	35
1643	stv_NCDN	stv	NCDN	YES	11
1644	stv_FOXA3	stv	FOXA3	YES	27

1649	mrna_ARHGAP42	mrna	ARHGAP42	YES	8
1650	cnv_OXSR1	cnv	OXSR1	YES	29
1654	stv_GDF2	stv	GDF2	YES	42
1655	stv_RASIP1	stv	RASIP1	YES	10
1656	cnv_RARB	cnv	RARB	YES	45
1656	stv_PRAMEF12	stv	PRAMEF12	YES	6
1657	stv_AP4M1	stv	AP4M1	YES	17
1658	stv_IL4R	stv	IL4R	YES	30
1659	mrna_ABCG2	mrna	ABCG2	YES	27
1660	mrna_LDHA	mrna	LDHA	YES	33
1662	cnv_DPH3	cnv	DPH3	YES	9
1664	mrna_ITGA10	mrna	ITGA10	YES	12
1664	stv_CHRNE	stv	CHRNE	YES	27
1665	meth_C8orf4	meth	C8orf4	YES	21
1666	mirna_MIR135B	mirna	MIR135B	NO	0
1668	stv_DNAAF2	stv	DNAAF2	YES	7
1670	cnv_BPTF	cnv	BPTF	YES	28
1672	cnv_IP6K1	cnv	IP6K1	YES	22
1673	cnv_PTPRG	cnv	PTPRG	YES	19
1674	stv_NISCH	stv	NISCH	YES	19
1676	meth_GSTA5	meth	GSTA5	YES	7
1682	stv_SSX2IP	stv	SSX2IP	YES	21
1683	stv_REM1	stv	REM1	YES	12
1685	stv_ARSE	stv	ARSE	YES	15
1687	cnv_KPNA2	cnv	KPNA2	YES	21
1688	mrna_LOX	mrna	LOX	YES	25
1689	stv_ECE1	stv	ECE1	YES	36
1689	stv_VPS37A	stv	VPS37A	YES	21
1690	mrna_TRPM4	mrna	TRPM4	YES	51
1691	stv_LPL	stv	LPL	YES	42
1692	stv_ABCB11	stv	ABCB11	YES	24
1693	stv_NANOS1	stv	NANOS1	YES	16
1694	stv_CCDC80	stv	CCDC80	YES	12
1694	stv_RNF103	stv	RNF103	YES	14
1695	cnv_CNTD1	cnv	CNTD1	YES	2
1696	cnv_EDEM1	cnv	EDEM1	YES	22
1696	cnv_GLYCTK	cnv	GLYCTK	YES	13
1698	meth_EARS2	meth	EARS2	YES	18
1699	mrna_VAC14	mrna	VAC14	YES	16
1700	stv_CSE1L	stv	CSE1L	YES	17
1700	stv_SUN2	stv	SUN2	YES	27
1702	mrna_PAX8	mrna	PAX8	YES	54
1703	mrna_AFAP1L1	mrna	AFAP1L1	YES	6
1703	mrna_AKR1C1	mrna	AKR1C1	YES	32
1704	mrna_RASGRP3	mrna	RASGRP3	YES	22
1706	stv_HDAC6	stv	HDAC6	YES	97
1708	cnv_TMF1	cnv	TMF1	YES	27

1710	stv_ATP9B	stv	ATP9B	YES	17
1711	stv_SPATA7	stv	SPATA7	YES	16
1713	meth_KIAA0319L	meth	KIAA0319L	YES	8
1714	stv_ATXN2	stv	ATXN2	YES	24
1714	stv_RAPSN	stv	RAPSN	YES	22
1716	stv_ARRDC3	stv	ARRDC3	YES	16
1716	stv_TLN2	stv	TLN2	YES	18
1718	mrna_PARP3	mrna	PARP3	YES	22
1718	mrna_DNAI1	mrna	DNAI1	YES	21
1719	stv_LHCGR	stv	LHCGR	YES	32
1720	meth_CCDC25	meth	CCDC25	YES	2
1721	stv_PECAM1	stv	PECAM1	YES	15
1723	stv_SLC24A4	stv	SLC24A4	YES	24
1724	mrna_IGFBP6	mrna	IGFBP6	YES	17
1724	stv_PABPC3	stv	PABPC3	YES	7
1725	stv_ABCG2	stv	ABCG2	YES	27
1725	stv_SEC31B	stv	SEC31B	YES	10
1726	cnv_CPSF4L	cnv	CPSF4L	YES	7
1727	meth_CSRP3	meth	CSRP3	YES	27
1727	stv_B4GALT6	stv	B4GALT6	YES	15
1728	stv_DMXL2	stv	DMXL2	YES	11
1729	mrna_TUFM	mrna	TUFM	YES	16
1729	stv_TLE6	stv	TLE6	YES	9
1730	mrna_GIMAP5	mrna	GIMAP5	YES	22
1730	stv_NDUFB10	stv	NDUFB10	YES	11
1731	cnv_SLC25A19	cnv	SLC25A19	YES	16
1731	stv_CEND1	stv	CEND1	YES	10
1733	mrna_ITGA9	mrna	ITGA9	YES	15
1734	meth_SDF2L1	meth	SDF2L1	YES	14
1735	meth_TEX15	meth	TEX15	YES	16
1736	stv_WNT9A	stv	WNT9A	YES	28
1737	stv_HIST1H4K	stv	HIST1H4K	YES	36
1738	cnv_KANSL1	cnv	KANSL1	YES	16
1738	stv_IFIT5	stv	IFIT5	YES	20
1739	mrna_NRP1	mrna	NRP1	YES	105
1739	stv_HELZ2	stv	HELZ2	YES	17
1740	cnv_MTMR14	cnv	MTMR14	YES	15
1741	stv_MUM1	stv	MUM1	YES	7
1742	cnv_ITGB4	cnv	ITGB4	YES	31
1742	stv_PXDNL	stv	PXDNL	YES	15
1744	mrna_CD93	mrna	CD93	YES	21
1744	stv_TMEM132A	stv	TMEM132A	YES	12
1745	stv_PGAP1	stv	PGAP1	YES	20
1746	mrna_TPK1	mrna	TPK1	YES	11
1746	stv_SERPINB9	stv	SERPINB9	YES	24
1747	stv_EP300	stv	EP300	YES	102
1750	cnv_USP4	cnv	USP4	YES	21

1751	mrna_PEAK1	mrna	PEAK1	YES	19
1751	stv_LRRK2	stv	LRRK2	YES	157
1752	cnv_ACY1	cnv	ACY1	YES	13
1753	mrna_NOS3	mrna	NOS3	YES	61
1754	mrna_FBXL3	mrna	FBXL3	YES	17
1755	meth_FAM26E	meth	FAM26E	YES	9
1755	stv_ATG2B	stv	ATG2B	YES	9
1759	stv_MRPS10	stv	MRPS10	YES	9
1760	stv_USP14	stv	USP14	YES	28
1761	mrna_TAF5	mrna	TAF5	YES	22
1761	mrna_SH2B1	mrna	SH2B1	YES	15
1764	stv_DAB1	stv	DAB1	YES	37
1766	mrna_PIGQ	mrna	PIGQ	YES	10
1766	stv_FBXL21	stv	FBXL21	NO	0
1767	stv_PKNOX2	stv	PKNOX2	YES	13
1767	stv_PLEKHG4B	stv	PLEKHG4B	YES	4
1768	cnv_CACNA2D2	cnv	CACNA2D2	YES	20
1768	stv_CMPK1	stv	CMPK1	YES	27
1769	cnv_XYLT2	cnv	XYLT2	YES	18
1769	stv_POLR2F	stv	POLR2F	YES	31
1770	meth_SQRDL	meth	SQRDL	YES	10
1771	stv_PURA	stv	PURA	YES	29
1772	cnv_HILS1	cnv	HILS1	NO	0
1772	stv_UBE2D3	stv	UBE2D3	YES	33
1773	cnv_DNAH17	cnv	DNAH17	YES	21
1774	mrna_OGG1	mrna	OGG1	YES	42
1775	mirna_MIR767	mirna	MIR767	YES	2
1776	meth_SPAG4	meth	SPAG4	YES	17
1776	stv_DDX41	stv	DDX41	YES	30
1777	stv_KCNK16	stv	KCNK16	YES	14
1778	cnv_EXOSC7	cnv	EXOSC7	YES	25
1780	meth_ITGB6	meth	ITGB6	YES	23
1781	mrna_GIPC1	mrna	GIPC1	YES	29
1783	stv_C3orf17	stv	C3orf17	YES	1
1784	cnv_ARL6IP5	cnv	ARL6IP5	YES	17
1784	stv_E2F1	stv	E2F1	YES	49
1786	mrna_TMEM115	mrna	TMEM115	YES	18
1787	cnv_TEX2	cnv	TEX2	YES	7
1789	cnv_JAGN1	cnv	JAGN1	YES	18
1792	cnv_MRC2	cnv	MRC2	YES	12
1792	stv_FARSA	stv	FARSA	YES	17
1793	stv_POLN	stv	POLN	YES	17
1794	stv_CREG1	stv	CREG1	YES	15
1795	stv_PLA2G2D	stv	PLA2G2D	YES	21
1796	cnv_POLG2	cnv	POLG2	YES	22
1798	stv_BCL2L14	stv	BCL2L14	YES	10
1799	cnv_VMP1	cnv	VMP1	YES	19

1799	cnv_ZACN	cnv	ZACN	YES	14
1800	cnv_SFMBT1	cnv	SFMBT1	YES	12
1801	meth_ADAMTS13	meth	ADAMTS13	YES	35
1801	meth_KIF25	meth	KIF25	YES	20
1802	cnv_PPARG	cnv	PPARG	YES	116
1802	meth_TWIST1	meth	TWIST1	YES	78
1805	mrna_SPRY1	mrna	SPRY1	YES	23
1805	mrna_SULT1B1	mrna	SULT1B1	YES	17
1807	mrna_ESAM	mrna	ESAM	YES	11
1808	cnv_EVPL	cnv	EVPL	YES	17
1808	mrna_TLR3	mrna	TLR3	YES	77
1810	meth_LDHA	meth	LDHA	YES	33
1811	stv_MARK2	stv	MARK2	YES	41
1813	stv_SYNPO	stv	SYNPO	YES	23
1816	mrna_C3orf58	mrna	C3orf58	YES	9
1816	stv_PKDCC	stv	PKDCC	YES	27
1818	cnv_LRIG1	cnv	LRIG1	YES	7
1818	meth_RASL11A	meth	RASL11A	YES	12
1819	stv_CST1	stv	CST1	YES	9
1820	mrna_RFX8	mrna	RFX8	YES	7
1824	stv_COL27A1	stv	COL27A1	YES	9
1826	stv_ATP11C	stv	ATP11C	YES	21
1827	stv_VGLL2	stv	VGLL2	YES	10
1829	stv_SIX4	stv	SIX4	YES	46
1830	cnv_SNF8	cnv	SNF8	YES	40
1831	cnv_BRK1	cnv	BRK1	YES	20
1832	stv_SNRNP200	stv	SNRNP200	YES	24
1833	stv_GCM1	stv	GCM1	YES	24
1834	stv_FH	stv	FH	YES	13
1835	cnv_MANF	cnv	MANF	YES	8
1837	cnv_COL1A1	cnv	COL1A1	YES	73
1840	mrna_EPHA1	mrna	EPHA1	YES	34
1841	stv_PARP14	stv	PARP14	YES	11
1845	cnv_FLNB	cnv	FLNB	YES	30
1848	cnv_OGG1	cnv	OGG1	YES	42
1849	meth_CSNK2A2	meth	CSNK2A2	YES	34
1850	stv_CHRNG	stv	CHRNG	YES	26
1852	mrna_SDSL	mrna	SDSL	YES	10
1852	stv_SIRPA	stv	SIRPA	YES	10
1853	stv_TMEM176B	stv	TMEM176B	YES	7
1854	meth_GPRC5A	meth	GPRC5A	YES	17
1856	stv_DNAJC13	stv	DNAJC13	YES	23
1857	cnv_CYP8B1	cnv	CYP8B1	YES	18
1857	meth_POLR2L	meth	POLR2L	YES	34
1858	cnv_SEC13	cnv	SEC13	YES	32
1858	stv_SYT4	stv	SYT4	YES	58
1860	cnv_CTDSPL	cnv	CTDSPL	YES	12

1860	cnv_MILR1	cnv	MILR1	YES	7
1862	cnv_CCDC47	cnv	CCDC47	YES	13
1862	mrna_CTSC	mrna	CTSC	YES	39
1865	stv_MSH6	stv	MSH6	YES	42
1866	cnv_AOC2	cnv	AOC2	YES	18
1868	stv_GSTCD	stv	GSTCD	YES	8
1869	stv_EGFR	stv	EGFR	YES	176
1871	meth_NELFE	meth	NELFE	YES	21
1872	mrna_TNFRSF12A	mrna	TNFRSF12A	YES	19
1874	meth_TJP3	meth	TJP3	YES	6
1876	cnv_SLMAP	cnv	SLMAP	YES	15
1878	meth_DPH7	meth	DPH7	YES	3
1878	meth_GGA3	meth	GGA3	YES	18
1880	mrna_HDAC11	mrna	HDAC11	YES	16
1881	stv_FAM84B	stv	FAM84B	YES	3
1884	stv_P2RY2	stv	P2RY2	YES	15
1885	cnv_GRM7	cnv	GRM7	YES	38
1887	cnv_RAB37	cnv	RAB37	YES	19
1889	stv_CEP170	stv	CEP170	YES	11
1892	cnv_MYCBPAP	cnv	MYCBPAP	YES	7
1893	meth_MCPH1	meth	MCPH1	YES	17
1899	stv_FOXRED1	stv	FOXRED1	YES	10
1900	meth_PTS	meth	PTS	YES	14
1900	stv_MBOAT7	stv	MBOAT7	YES	16
1901	mrna_HTR1F	mrna	HTR1F	YES	15
1902	cnv_DCAF7	cnv	DCAF7	YES	12
1903	stv_GABRR3	stv	GABRR3	YES	21
1903	stv_GRK5	stv	GRK5	YES	32
1907	stv_SLC5A5	stv	SLC5A5	YES	20
1909	stv_LBR	stv	LBR	YES	18
1910	mrna_PGAM5	mrna	PGAM5	YES	18
1911	stv_RIC1	stv	RIC1	YES	17
1916	meth_KRT20	meth	KRT20	YES	12
1917	stv_TBC1D22A	stv	TBC1D22A	YES	10
1918	cnv_ABHD6	cnv	ABHD6	YES	16
1919	cnv_MRPL27	cnv	MRPL27	YES	12
1919	mrna_LDB2	mrna	LDB2	YES	18
1921	cnv_ITGA2B	cnv	ITGA2B	YES	24
1921	meth_KCNMB2	meth	KCNMB2	YES	18
1922	cnv_SRSF2	cnv	SRSF2	YES	25
1922	meth_MICALL1	meth	MICALL1	YES	26
1923	stv_AGPAT1	stv	AGPAT1	YES	19
1924	cnv_MYL3	cnv	MYL3	YES	18
1925	stv_MYRF	stv	MYRF	YES	23
1925	stv_NDFIP1	stv	NDFIP1	YES	35
1926	meth_CD3D	meth	CD3D	YES	20
1928	mrna_NOTCH1	mrna	NOTCH1	YES	191

1931	cnv_FOXJ1	cnv	FOXJ1	YES	43
1932	stv_MYO9B	stv	MYO9B	YES	40
1932	stv_ORC2	stv	ORC2	YES	16
1936	stv_EIF3A	stv	EIF3A	YES	23
1937	cnv_LAMB2	cnv	LAMB2	YES	31
1937	meth_WTAP	meth	WTAP	YES	12
1940	mrna_FUK	mrna	FUK	YES	10
1941	stv_AP1M1	stv	AP1M1	YES	25
1945	stv_LMNB2	stv	LMNB2	YES	9
1946	meth_DCD	meth	DCD	YES	12
1946	stv_CDH17	stv	CDH17	YES	25
1947	meth_ART1	meth	ART1	YES	12
1948	mrna_NETO2	mrna	NETO2	YES	6
1949	cnv_CCDC51	cnv	CCDC51	YES	3
1949	stv_PFKFB2	stv	PFKFB2	YES	27
1950	mirna_MIR19B	mirna	MIR19B	NO	0
1950	stv_TP53I13	stv	TP53I13	YES	4
1951	stv_AUP1	stv	AUP1	YES	13
1952	cnv_IP6K2	cnv	IP6K2	YES	24
1955	meth_AURKB	meth	AURKB	YES	61
1956	stv_PKD2L1	stv	PKD2L1	YES	39
1958	cnv_ATP5G1	cnv	ATP5G1	YES	22
1959	cnv_IRAK2	cnv	IRAK2	YES	39
1960	stv_LRP1	stv	LRP1	YES	75
1964	stv_CNTF	stv	CNTF	YES	26
1964	stv_KALRN	stv	KALRN	YES	51
1967	cnv_TMEM100	cnv	TMEM100	YES	25
1970	stv_PDCD1LG2	stv	PDCD1LG2	YES	14
1971	stv_ESRRG	stv	ESRRG	YES	21
1971	stv_PSMC4	stv	PSMC4	YES	49
1972	stv_OPRD1	stv	OPRD1	YES	41
1973	cnv_GNA13	cnv	GNA13	YES	42
1973	stv_PIGF	stv	PIGF	YES	8
1974	cnv_WDR6	cnv	WDR6	YES	12
1974	meth_AP2B1	meth	AP2B1	YES	40
1975	cnv_SGOL1	cnv	SGOL1	YES	17
1978	stv_PRDM16	stv	PRDM16	YES	31
1979	mrna_KCNJ2	mrna	KCNJ2	YES	44
1981	cnv_TMEM89	cnv	TMEM89	YES	3
1984	cnv_NISCH	cnv	NISCH	YES	19
1987	mrna_SHROOM4	mrna	SHROOM4	YES	17
1989	stv_VARS	stv	VARS	YES	14
1990	cnv_SPCS1	cnv	SPCS1	YES	16
1990	meth_PTPN6	meth	PTPN6	YES	59
1993	cnv_VPRBP	cnv	VPRBP	YES	7
1994	cnv_HID1	cnv	HID1	YES	13
1994	stv_EPHA5	stv	EPHA5	YES	39

1997	cnv_GNGT2	cnv	GNGT2	YES	9
2000	stv_NR2C2	stv	NR2C2	YES	24
2002	stv_TRMT10C	stv	TRMT10C	YES	17
2003	mrna_MAD1L1	mrna	MAD1L1	YES	26
2004	stv_ARHGAP22	stv	ARHGAP22	YES	14
2006	stv_GLB1	stv	GLB1	YES	29
2008	mrna_GALNT15	mrna	GALNT15	YES	12
2008	stv_SPIN1	stv	SPIN1	YES	16
2009	stv_RGS14	stv	RGS14	YES	54
2010	meth_VAMP8	meth	VAMP8	YES	46
2011	stv_PSMA1	stv	PSMA1	YES	44
2015	meth_HIST1H4B	meth	HIST1H4B	YES	36
2016	stv_SLC3A1	stv	SLC3A1	YES	22
2017	stv_RPN1	stv	RPN1	YES	17
2018	cnv_SPHK1	cnv	SPHK1	YES	59
2021	cnv_UCN2	cnv	UCN2	YES	17
2022	mrna_ZDHHC16	mrna	ZDHHC16	YES	11
2022	stv_CCDC141	stv	CCDC141	YES	2
2023	stv_PDZD3	stv	PDZD3	YES	19
2024	stv_IKZF1	stv	IKZF1	YES	31
2026	mirna_MIR495	mirna	MIR495	NO	0
2027	stv_MUSK	stv	MUSK	YES	32
2029	meth_ARHGDIA	meth	ARHGDIA	YES	33
2030	stv_RING1	stv	RING1	YES	24
2032	stv_FCGRT	stv	FCGRT	YES	12
2033	stv_FZD8	stv	FZD8	YES	28
2033	stv_SEPT9	stv	SEPT9	YES	20
2035	stv_CHCHD3	stv	CHCHD3	YES	18
2036	cnv_PTRH2	cnv	PTRH2	YES	11
2036	stv_NABP2	stv	NABP2	YES	19
2037	stv_ACTB	stv	ACTB	YES	44
2037	stv_TENM4	stv	TENM4	YES	26
2039	stv_SLC16A11	stv	SLC16A11	YES	12
2040	cnv_CCR5	cnv	CCR5	YES	40
2040	stv_RASGRP4	stv	RASGRP4	YES	24
2041	mrna_GABRD	mrna	GABRD	YES	21
2042	meth_SYNC	meth	SYNC	YES	10
2044	mrna_HOXA3	mrna	HOXA3	YES	24
2045	stv_HNRNPU	stv	HNRNPU	YES	37
2046	cnv_CCDC40	cnv	CCDC40	YES	19
2046	mrna_TSEN2	mrna	TSEN2	YES	17
2049	stv_SMAP1	stv	SMAP1	YES	9
2050	meth_APBA2	meth	APBA2	YES	12
2051	cnv_H3F3B	cnv	H3F3B	YES	45
2053	stv_FOXF2	stv	FOXF2	YES	24
2053	stv_UFM1	stv	UFM1	YES	10
2055	cnv_NCKIPSD	cnv	NCKIPSD	YES	12

2056	stv_CYP51A1	stv	CYP51A1	YES	25
2057	mrna_GLIS2	mrna	GLIS2	YES	27
2059	stv_TMEM67	stv	TMEM67	YES	22
2062	meth_HESX1	meth	HESX1	YES	19
2062	mirna_MIR574	mirna	MIR574	YES	1
2063	meth_FRMPD2	meth	FRMPD2	YES	10
2064	mrna_NPAS2	mrna	NPAS2	YES	26
2066	cnv_GPD1L	cnv	GPD1L	YES	31
2068	stv_SLC17A8	stv	SLC17A8	YES	31
2070	cnv_ARIH2	cnv	ARIH2	YES	22
2073	mrna_FOXN3	mrna	FOXN3	YES	14
2073	mrna_WIPI2	mrna	WIPI2	YES	19
2075	mrna_HES6	mrna	HES6	YES	16
2078	stv_NFIL3	stv	NFIL3	YES	17
2080	mrna_CDK5RAP3	mrna	CDK5RAP3	YES	38
2083	cnv_CACNG5	cnv	CACNG5	YES	21
2086	cnv_DNAH1	cnv	DNAH1	YES	25
2086	stv_TACC2	stv	TACC2	YES	13
2087	cnv_SCAP	cnv	SCAP	YES	26
2089	meth_PRPF19	meth	PRPF19	YES	41
2089	stv_MDK	stv	MDK	YES	28
2090	cnv_SYN2	cnv	SYN2	YES	10
2090	stv_APH1A	stv	APH1A	YES	23
2091	stv_GLG1	stv	GLG1	YES	14
2093	stv_KMT2D	stv	KMT2D	YES	26
2094	cnv_MAGI1	cnv	MAGI1	YES	20
2096	stv_KIAA0319	stv	KIAA0319	YES	13
2098	meth_GALNT7	meth	GALNT7	YES	14
2102	mrna_FASTK	mrna	FASTK	YES	16
2103	stv_TG	stv	TG	YES	10
2110	stv_FECH	stv	FECH	YES	34
2111	stv_CD163	stv	CD163	YES	12
2113	meth_MGAT4A	meth	MGAT4A	YES	19
2115	mrna_HEPH	mrna	HEPH	YES	18
2118	meth_TNPO3	meth	TNPO3	YES	12
2119	mrna_HMGB3	mrna	HMGB3	YES	18
2120	cnv_CRHR1	cnv	CRHR1	YES	60
2121	stv_DHTKD1	stv	DHTKD1	YES	14
2122	cnv_SH3BP5	cnv	SH3BP5	YES	10
2128	stv_JAKMIP1	stv	JAKMIP1	YES	16
2131	meth_GADD45GIP1	meth	GADD45GIP1	YES	14
2132	cnv_TMC6	cnv	TMC6	YES	16
2132	mrna_PODXL	mrna	PODXL	YES	32
2133	stv_ATP10A	stv	ATP10A	YES	18
2134	stv_SBDS	stv	SBDS	YES	22
2135	meth_RAB34	meth	RAB34	YES	27
2135	mirna_MIR335	mirna	MIR335	YES	1

2136	stv_TRPV6	stv	TRPV6	YES	20
2137	stv_LLGL2	stv	LLGL2	YES	15
2138	stv_TAS1R3	stv	TAS1R3	YES	16
2139	stv_ISLR	stv	ISLR	YES	6
2147	cnv_COA3	cnv	COA3	YES	8
2148	cnv_BRIP1	cnv	BRIP1	YES	44
2149	stv_BCL2	stv	BCL2	YES	173
2152	stv_POSTN	stv	POSTN	YES	32
2153	stv_CACNG2	stv	CACNG2	YES	32
2155	stv_OPA1	stv	OPA1	YES	49
2155	stv_TMEM186	stv	TMEM186	YES	3
2156	stv_PCSK7	stv	PCSK7	YES	11
2162	mrna_GPIHBP1	mrna	GPIHBP1	YES	35
2162	stv_RAB5B	stv	RAB5B	YES	25
2163	mrna_NDUFAF3	mrna	NDUFAF3	YES	6
2166	stv_TTYH3	stv	TTYH3	YES	12
2167	cnv_USP32	cnv	USP32	YES	14
2167	stv_FBXW5	stv	FBXW5	YES	14
2168	meth_EXD3	meth	EXD3	YES	10
2168	stv_ITGAE	stv	ITGAE	YES	9
2170	stv_NFYA	stv	NFYA	YES	17
2171	stv_BAD	stv	BAD	YES	80
2172	cnv_GDPD1	cnv	GDPD1	YES	11
2172	mrna_P2RY1	mrna	P2RY1	YES	57
2173	stv_PCSK1	stv	PCSK1	YES	15
2175	meth_CTSK	meth	CTSK	YES	27
2176	mrna_MRPS25	mrna	MRPS25	YES	7
2182	stv_DPF3	stv	DPF3	YES	11
2185	cnv_MAPT	cnv	MAPT	YES	78
2185	stv_GAS2L1	stv	GAS2L1	YES	16
2191	stv_HMGCS2	stv	HMGCS2	YES	16
2194	stv_WLS	stv	WLS	YES	34
2198	stv_MCTP1	stv	MCTP1	YES	5
2200	mrna_APOLD1	mrna	APOLD1	YES	15
2206	meth_CLEC1A	meth	CLEC1A	YES	8
2207	cnv_WDR48	cnv	WDR48	YES	24
2209	meth_MYH6	meth	MYH6	YES	43
2210	mrna_USP19	mrna	USP19	YES	29
2211	cnv_BAP1	cnv	BAP1	YES	29
2213	stv_TRAPPC4	stv	TRAPPC4	YES	18
2214	meth_UBTF	meth	UBTF	YES	18
2218	cnv_COG1	cnv	COG1	YES	11
2219	mrna_SMARCD3	mrna	SMARCD3	YES	30
2222	stv_PRSS3	stv	PRSS3	YES	18
2223	mirna_MIR149	mirna	MIR149	NO	0
2226	mrna_SOX18	mrna	SOX18	YES	39
2227	mrna_ANGPTL4	mrna	ANGPTL4	YES	18

2231	stv_ALOX12	stv	ALOX12	YES	52
2231	stv_MOCOS	stv	MOCOS	YES	14
2233	stv_ARL6IP1	stv	ARL6IP1	YES	18
2235	cnv_KIF9	cnv	KIF9	YES	18
2236	stv_ZNF681	stv	ZNF681	YES	8
2239	stv_BAIAP2	stv	BAIAP2	YES	59
2239	stv_PDHX	stv	PDHX	YES	11
2240	cnv_TIMP2	cnv	TIMP2	YES	39
2241	mrna_EGFR	mrna	EGFR	YES	176
2242	cnv_FBXL2	cnv	FBXL2	YES	17
2243	stv_PLK1	stv	PLK1	YES	79
2245	mrna_MGAT4B	mrna	MGAT4B	YES	14
2250	stv_UROD	stv	UROD	YES	11
2251	cnv_RFT1	cnv	RFT1	YES	8
2255	stv_PSIP1	stv	PSIP1	YES	20
2256	cnv_ZDHHC3	cnv	ZDHHC3	YES	10
2262	stv_ECD	stv	ECD	YES	17
2267	cnv_BTD	cnv	BTD	YES	16
2268	stv_TBC1D7	stv	TBC1D7	YES	13
2270	stv_PRSS55	stv	PRSS55	YES	9
2274	mrna_DRC1	mrna	DRC1	YES	9
2276	stv_FLOT1	stv	FLOT1	YES	57
2278	cnv_FAM107A	cnv	FAM107A	YES	6
2281	stv_THY1	stv	THY1	YES	54
2282	meth_NRTN	meth	NRTN	YES	14
2283	meth_SLC39A14	meth	SLC39A14	YES	21
2284	mrna_TJP3	mrna	TJP3	YES	6
2293	stv_FOXA1	stv	FOXA1	YES	54
2294	mrna_ABCC10	mrna	ABCC10	YES	13
2296	mrna_DALRD3	mrna	DALRD3	YES	7
2298	mrna_GRB10	mrna	GRB10	YES	17
2300	stv_ABCB5	stv	ABCB5	YES	17
2301	stv_IRF7	stv	IRF7	YES	46
2302	cnv_SEPT4	cnv	SEPT4	YES	32
2302	stv_PPCS	stv	PPCS	YES	8
2305	stv_EXT2	stv	EXT2	YES	27
2306	stv_ACSM2B	stv	ACSM2B	YES	21
2316	mrna_F2R	mrna	F2R	YES	70
2327	mrna_ANXA11	mrna	ANXA11	YES	27
2329	stv_RAI1	stv	RAI1	YES	15
2330	stv_MDC1	stv	MDC1	YES	13
2333	stv_ERMP1	stv	ERMP1	YES	9
2334	cnv_APEH	cnv	APEH	YES	17
2338	cnv_ABCA6	cnv	ABCA6	YES	12
2350	cnv_LTF	cnv	LTF	YES	68
2353	stv_SIAE	stv	SIAE	YES	9
2353	stv_TXNRD1	stv	TXNRD1	YES	44

2354	cnv_CCR2	cnv	CCR2	YES	53
2354	mrna_DUS1L	mrna	DUS1L	YES	7
2355	stv_GP2	stv	GP2	YES	6
2358	cnv_CRBN	cnv	CRBN	YES	13
2361	mrna_PRKCH	mrna	PRKCH	YES	34
2362	cnv_SMARCC1	cnv	SMARCC1	YES	32
2364	mrna_ATP7A	mrna	ATP7A	YES	105
2366	cnv_SLC6A20	cnv	SLC6A20	YES	16
2367	stv_SEC14L2	stv	SEC14L2	YES	15
2370	stv_SLC12A2	stv	SLC12A2	YES	29
2372	cnv_MITF	cnv	MITF	YES	26
2373	stv_ABCB10	stv	ABCB10	YES	14
2379	meth_MINPP1	meth	MINPP1	YES	18
2381	stv_PTGS2	stv	PTGS2	YES	100
2383	meth_ABHD8	meth	ABHD8	YES	3
2387	stv_TOP2A	stv	TOP2A	YES	50
2392	stv_PCYT2	stv	PCYT2	YES	11
2393	stv_SLCO4C1	stv	SLCO4C1	YES	17
2394	stv_FA2H	stv	FA2H	YES	23
2401	stv_USP6	stv	USP6	YES	25
2405	stv_ZFAT	stv	ZFAT	YES	14
2408	stv_CLCN7	stv	CLCN7	YES	19
2409	stv_POT1	stv	POT1	YES	33
2412	cnv_KAT7	cnv	KAT7	YES	32
2412	stv_ITGB1	stv	ITGB1	YES	105
2414	stv_COL4A4	stv	COL4A4	YES	12
2416	stv_SLC22A3	stv	SLC22A3	YES	25
2417	mrna_SNPH	mrna	SNPH	YES	17
2418	stv_NADK	stv	NADK	YES	13
2419	stv_CRIM1	stv	CRIM1	YES	15
2433	mrna_GJA5	mrna	GJA5	YES	76
2439	cnv_PTPN23	cnv	PTPN23	YES	35
2441	stv_ROS1	stv	ROS1	YES	29
2442	cnv_GOLGA4	cnv	GOLGA4	YES	14
2447	cnv_SLC25A26	cnv	SLC25A26	YES	10
2450	cnv_USP36	cnv	USP36	YES	14
2452	stv_POTEF	stv	POTEF	YES	6
2459	stv_OCIAD1	stv	OCIAD1	YES	4
2463	cnv_MAP2K6	cnv	MAP2K6	YES	45
2463	stv_NANOS3	stv	NANOS3	YES	19
2468	stv_ACTN3	stv	ACTN3	YES	38
2470	meth_CCT4	meth	CCT4	YES	31
2482	stv_SERPINB2	stv	SERPINB2	YES	12
2484	cnv_CXCR6	cnv	CXCR6	YES	16
2485	mrna_RASIP1	mrna	RASIP1	YES	10
2488	meth_GUK1	meth	GUK1	YES	19
2490	stv_PDCD4	stv	PDCD4	YES	23

2499	stv_COL6A1	stv	COL6A1	YES	20
2503	meth_RAC3	meth	RAC3	YES	36
2512	meth_SLC22A18	meth	SLC22A18	YES	19
2518	mrna_SYNPO	mrna	SYNPO	YES	23
2527	stv_TMEM120A	stv	TMEM120A	YES	10
2529	cnv_PHB	cnv	PHB	YES	47
2532	stv_ZNF689	stv	ZNF689	YES	8
2536	stv_AP3D1	stv	AP3D1	YES	32
2538	stv_ADAD1	stv	ADAD1	YES	8
2542	cnv_NME2	cnv	NME2	YES	57
2551	cnv_EOGT	cnv	EOGT	YES	9
2554	mrna_NOTCH4	mrna	NOTCH4	YES	36
2557	stv_IFT122	stv	IFT122	YES	37
2558	mrna_ENPP3	mrna	ENPP3	YES	22
2567	stv_F13A1	stv	F13A1	YES	13
2567	stv_KHSRP	stv	KHSRP	YES	28
2571	stv_PLEKHA5	stv	PLEKHA5	YES	11
2574	stv_PDE4C	stv	PDE4C	YES	11
2581	stv_DNAJC11	stv	DNAJC11	YES	4
2585	cnv_TWF2	cnv	TWF2	YES	30
2589	mirna_MIR429	mirna	MIR429	NO	0
2589	stv_AEN	stv	AEN	YES	14
2596	stv_ADCK4	stv	ADCK4	YES	4
2598	cnv_HLF	cnv	HLF	YES	15
2601	stv_DDX31	stv	DDX31	YES	15
2606	stv_SLC25A19	stv	SLC25A19	YES	16
2610	meth_MAP3K14	meth	MAP3K14	YES	31
2612	mrna_RAPGEF4	mrna	RAPGEF4	YES	25
2614	cnv_ATRIP	cnv	ATRIP	YES	12
2615	stv_PEX12	stv	PEX12	YES	16
2617	stv_ANO2	stv	ANO2	YES	16
2627	cnv_CCDC66	cnv	CCDC66	YES	2
2634	cnv_ABCA10	cnv	ABCA10	YES	11
2644	cnv_PRR11	cnv	PRR11	YES	5
2656	stv_SLC6A4	stv	SLC6A4	YES	61
2664	cnv_CBX4	cnv	CBX4	YES	24
2666	stv_PLEC	stv	PLEC	YES	23
2668	cnv_DLX4	cnv	DLX4	YES	10
2669	stv_WBSCR22	stv	WBSCR22	YES	6
2674	mrna_MRM1	mrna	MRM1	YES	14
2679	stv_GZF1	stv	GZF1	YES	16
2682	mrna_PDGFD	mrna	PDGFD	YES	28
2689	stv_CDK11A	stv	CDK11A	YES	18
2690	stv_TMEM43	stv	TMEM43	YES	11
2694	stv_NSUN2	stv	NSUN2	YES	21
2697	stv_ATM	stv	ATM	YES	98
2705	stv_ECM1	stv	ECM1	YES	29

2709	stv_KRT6C	stv	KRT6C	YES	9
2722	mrna_MEF2C	mrna	MEF2C	YES	141
2726	stv_GRIN3B	stv	GRIN3B	YES	26
2731	stv_ERF	stv	ERF	YES	14
2750	stv_MTG1	stv	MTG1	YES	12
2756	mrna_SOX17	mrna	SOX17	YES	71
2762	stv_MEX3C	stv	MEX3C	YES	10
2763	stv_IRS2	stv	IRS2	YES	47
2790	stv_ACACA	stv	ACACA	YES	30
2795	cnv_BCAS3	cnv	BCAS3	YES	37
2816	mrna_KIF9	mrna	KIF9	YES	18
2819	stv_CREB5	stv	CREB5	YES	13
2824	stv_DFFB	stv	DFFB	YES	21
2848	stv_DMTF1	stv	DMTF1	YES	14

APPENDIX G

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	meth_NPTX1	meth	NPTX1	YES	14
1	mirna_MIR1292	mirna	MIR1292	NO	0
2	meth_CTB-129P6.4	meth	CTB-129P6.4	NO	0
2	meth_IGFBP4	meth	IGFBP4	YES	23
3	meth_CNOT3	meth	CNOT3	YES	18
3	meth_KIAA0232	meth	KIAA0232	YES	2
4	meth_SETDB1	meth	SETDB1	YES	24
4	meth_ZBTB26	meth	ZBTB26	YES	11
5	meth_FAIM2	meth	FAIM2	YES	20
5	meth_MIR6850	meth	MIR6850	NO	0
6	meth_BOD1	meth	BOD1	YES	9
6	meth_TCERG1	meth	TCERG1	YES	12
7	meth_SLC25A4	meth	SLC25A4	YES	23
7	meth_TRMT61B	meth	TRMT61B	YES	14
8	meth_AKIRIN1	meth	AKIRIN1	YES	4
8	meth_PPOX	meth	PPOX	YES	16
9	meth_DYNLL1	meth	DYNLL1	YES	52
9	meth_TIMELESS	meth	TIMELESS	YES	28
10	meth_ANG	meth	ANG	YES	49
10	meth_FGF9	meth	FGF9	YES	53
11	meth_IRF2BP2	meth	IRF2BP2	YES	6
11	meth_JUN	meth	JUN	YES	102
12	meth_AC006946.15	meth	AC006946.15	NO	0
12	meth_ASRGL1	meth	ASRGL1	YES	10
13	meth_UTP18	meth	UTP18	YES	11
13	meth_VAMP3	meth	VAMP3	YES	44
14	meth_CABIN1	meth	CABIN1	YES	10
14	meth_KCNC1	meth	KCNC1	YES	41
15	meth_ZFP69B	meth	ZFP69B	YES	9
15	mrna_CLEC17A	mrna	CLEC17A	YES	7
16	meth_SLC44A1	meth	SLC44A1	YES	13
16	meth_VAMP1	meth	VAMP1	YES	24
17	meth_ETFA	meth	ETFA	YES	10
17	mrna_ZNF695	mrna	ZNF695	YES	6
18	meth_CPNE7	meth	CPNE7	YES	11
18	meth_TMED9	meth	TMED9	YES	20
19	meth_AC140481.8	meth	AC140481.8	NO	0
19	meth_CAV1	meth	CAV1	YES	141
20	meth_ABALON	meth	ABALON	NO	0
20	meth_CACNG2	meth	CACNG2	YES	32
21	meth_C21orf59	meth	C21orf59	YES	4
21	meth_MAGEF1	meth	MAGEF1	YES	2
22	meth_IDE	meth	IDE	YES	52
22	mrna_RABAC1	mrna	RABAC1	YES	13
23	meth_AC015849.12	meth	AC015849.12	NO	0
23	meth_SPG11	meth	SPG11	YES	20
24	meth_TROVE2	meth	TROVE2	YES	14
24	mrna_MECR	mrna	MECR	YES	11
25	meth_PPIL2	meth	PPIL2	YES	18
25	meth_RTF1	meth	RTF1	YES	25
26	meth_PDCD5	meth	PDCD5	YES	18
26	meth_SERTAD3	meth	SERTAD3	YES	7
27	meth_ARRDC2	meth	ARRDC2	YES	3
27	meth_ZNF414	meth	ZNF414	YES	7
28	meth_CLK2	meth	CLK2	YES	23
28	meth_EIF4A1	meth	EIF4A1	YES	25
29	meth_ITGB4	meth	ITGB4	YES	31
29	meth_RNF39	meth	RNF39	YES	6
30	meth_AC002310.14	meth	AC002310.14	NO	0

30	meth_EIF2AK2	meth	EIF2AK2	YES	53
31	meth_PPM1E	meth	PPM1E	YES	17
31	meth_USP31	meth	USP31	YES	9
32	meth_ADAT1	meth	ADAT1	YES	7
32	meth_CYB5R4	meth	CYB5R4	YES	20
33	meth_INTS6	meth	INTS6	YES	9
33	mrna_RP11-184M15.1	mrna	RP11-184M15.1	NO	0
34	meth_FKBP1A	meth	FKBP1A	YES	60
34	mirna_MIR222	mirna	MIR222	YES	27
35	meth_ATG5	meth	ATG5	YES	49
35	meth_RTN1	meth	RTN1	YES	7
36	meth_KPNA4	meth	KPNA4	YES	17
36	mrna_RP11-132F7.2	mrna	RP11-132F7.2	NO	0
37	cnv_OR4B1	cnv	OR4B1	YES	13
37	meth_MPZL1	meth	MPZL1	YES	10
38	meth_CTSC	meth	CTSC	YES	39
38	meth_HIST1H2AE	meth	HIST1H2AE	YES	9
39	meth_ARL4C	meth	ARL4C	YES	16
39	meth_EFCAB7	meth	EFCAB7	YES	9
40	meth_CNDP2	meth	CNDP2	YES	16
40	mrna_RP4-758J18.2	mrna	RP4-758J18.2	NO	0
41	meth_HAX1	meth	HAX1	YES	33
41	meth_HIBADH	meth	HIBADH	YES	13
42	meth_CTC-425F1.4	meth	CTC-425F1.4	NO	0
42	mirna_MIR151B	mirna	MIR151B	YES	1
43	meth_C5orf30	meth	C5orf30	YES	11
43	mrna_C1orf233	mrna	C1orf233	YES	1
44	meth_ABI2	meth	ABI2	YES	26
44	meth_GPRC5C	meth	GPRC5C	YES	13
45	meth_BYSL	meth	BYSL	YES	19
45	meth_CD164	meth	CD164	YES	19
46	meth_RSRC1	meth	RSRC1	YES	11
46	meth_TRPS1	meth	TRPS1	YES	28
47	meth_LA16c-358B7.4	meth	LA16c-358B7.4	NO	0
47	meth_RP11-643M14.1	meth	RP11-643M14.1	NO	0
48	meth_EGR4	meth	EGR4	YES	12
48	meth_WTAP	meth	WTAP	YES	12
49	meth_CALCA	meth	CALCA	YES	64
49	meth_EIF2B4	meth	EIF2B4	YES	23
50	meth_BOLA1	meth	BOLA1	YES	2
50	meth_KCNIP1	meth	KCNIP1	YES	21
51	meth_ARFGAP2	meth	ARFGAP2	YES	14
51	meth_GNA12	meth	GNA12	YES	33
52	meth_VPS54	meth	VPS54	YES	18
52	mrna_LINC00881	mrna	LINC00881	NO	0
53	meth_ASZ1	meth	ASZ1	YES	12
53	meth_TBC1D31	meth	TBC1D31	YES	4
54	meth_PEPD	meth	PEPD	YES	14
54	mrna_RIC3	mrna	RIC3	YES	16
55	meth_RP3-510H16.3	meth	RP3-510H16.3	NO	0
55	meth_SETDB2	meth	SETDB2	YES	24
56	meth_CTC-471J1.11	meth	CTC-471J1.11	NO	0
56	mrna_PEX14	mrna	PEX14	YES	30
57	meth_BAG3	meth	BAG3	YES	27
57	meth_FLJ27354	meth	FLJ27354	NO	0
58	meth_ERH	meth	ERH	YES	10
58	meth_MIER1	meth	MIER1	YES	16
59	mrna_TBC1D30	mrna	TBC1D30	YES	13
59	mrna_PLEKHA6	mrna	PLEKHA6	NO	0
60	meth_MAGI3	meth	MAGI3	YES	20

60	meth_OR5P2	meth	OR5P2	YES	12
61	meth_CD40	meth	CD40	YES	63
61	meth_PAFAH1B3	meth	PAFAH1B3	YES	16
62	meth_TKT	meth	TKT	YES	21
62	mrna_RNF212	mrna	RNF212	YES	12
63	meth_GTPBP1	meth	GTPBP1	YES	12
63	meth_TOR3A	meth	TOR3A	YES	7
64	meth_ABHD11	meth	ABHD11	YES	11
64	meth_MIR6515	meth	MIR6515	NO	0
65	meth_GK5	meth	GK5	YES	13
65	mrna_AMFR	mrna	AMFR	YES	44
66	meth_CCDC58	meth	CCDC58	YES	1
66	meth_GPATCH1	meth	GPATCH1	YES	4
67	meth_TRIM4	meth	TRIM4	YES	13
67	meth_TROAP	meth	TROAP	YES	3
68	meth_EIF2S2	meth	EIF2S2	YES	14
68	meth_LRSAM1	meth	LRSAM1	YES	22
69	meth_ANLN	meth	ANLN	YES	20
69	meth_KIF11	meth	KIF11	YES	29
70	meth_GLE1	meth	GLE1	YES	21
70	meth_HSF2	meth	HSF2	YES	19
71	meth_PLA2G12A	meth	PLA2G12A	YES	21
71	meth_RPS19BP1	meth	RPS19BP1	YES	8
72	meth_ARL13B	meth	ARL13B	YES	23
72	mrna_RP11-135F9.4	mrna	RP11-135F9.4	NO	0
73	meth_GRAMD3	meth	GRAMD3	YES	1
73	meth_RP11-216B9.6	meth	RP11-216B9.6	NO	0
74	meth_TMEM39A	meth	TMEM39A	YES	2
74	mrna_ERMAP	mrna	ERMAP	YES	5
75	meth_SLC25A36	meth	SLC25A36	YES	13
75	mrna_ATP6AP1	mrna	ATP6AP1	YES	31
76	cnv_PEX16	cnv	PEX16	YES	17
76	meth_PRPF4B	meth	PRPF4B	YES	18
77	meth_FAHD2A	meth	FAHD2A	YES	4
77	meth_KDM3A	meth	KDM3A	YES	35
78	meth_CDH11	meth	CDH11	YES	14
78	meth_RALB	meth	RALB	YES	29
79	meth_ISCA2	meth	ISCA2	YES	13
79	meth_ZBED5	meth	ZBED5	YES	7
80	meth_ABCC8	meth	ABCC8	YES	48
80	mrna_RP11-138I18.2	mrna	RP11-138I18.2	NO	0
81	meth_PDCD10	meth	PDCD10	YES	33
81	meth_STK25	meth	STK25	YES	32
82	meth_MAP3K10	meth	MAP3K10	YES	34
83	mrna_DMRTA1	mrna	DMRTA1	YES	10
83	mrna_LINC00052	mrna	LINC00052	NO	0
84	meth_PRKCD	meth	PRKCD	YES	91
84	meth_ZKSCAN1	meth	ZKSCAN1	YES	9
85	meth_PRR14	meth	PRR14	YES	1
85	meth_PTPRT	meth	PTPRT	YES	23
86	meth_TIMM17A	meth	TIMM17A	YES	14
86	meth_WWOX	meth	WWOX	YES	29
87	meth_ASXL1	meth	ASXL1	YES	34
87	meth_GSTA4	meth	GSTA4	YES	11
88	meth_GALNT2	meth	GALNT2	YES	24
88	meth_WNK4	meth	WNK4	YES	26
89	meth_BLM	meth	BLM	YES	71
89	meth_PRPSAP1	meth	PRPSAP1	YES	10
90	meth_CTD-3074O7.5	meth	CTD-3074O7.5	NO	0
90	meth_SNORD13	meth	SNORD13	NO	0

91	meth_VARS	meth	VARS	YES	14
91	mrna_CATIP-AS2	mrna	CATIP-AS2	NO	0
92	meth_ENAH	meth	ENAH	YES	19
92	meth_SAR1A	meth	SAR1A	YES	17
93	meth_RDM1	meth	RDM1	YES	12
93	meth_ZNF136	meth	ZNF136	YES	11
94	meth_SRRM1	meth	SRRM1	YES	18
94	meth_TTC26	meth	TTC26	YES	13
95	meth_HIPK3	meth	HIPK3	YES	21
95	meth_RBM34	meth	RBM34	YES	5
96	meth_DAAM1	meth	DAAM1	YES	16
96	meth_HMGXB3	meth	HMGXB3	YES	6
97	meth_BCLAF1	meth	BCLAF1	YES	17
97	meth_DKK2	meth	DKK2	YES	11
98	meth_NRAS	meth	NRAS	YES	31
99	meth_GOLGA3	meth	GOLGA3	YES	16
99	meth_TMEM117	meth	TMEM117	YES	5
100	meth_TOLLIP	meth	TOLLIP	YES	33
100	meth_ZBTB22	meth	ZBTB22	YES	7
101	meth_CRISPLD1	meth	CRISPLD1	YES	4
101	meth_TFEB	meth	TFEB	YES	18
102	meth_ALDH6A1	meth	ALDH6A1	YES	17
102	meth_CMTR2	meth	CMTR2	YES	9
103	meth_EID2	meth	EID2	YES	17
103	mrna_HSPH1	mrna	HSPH1	YES	26
104	meth_CDK11A	meth	CDK11A	YES	18
104	meth_ZFP64	meth	ZFP64	YES	7
105	meth_ESF1	meth	ESF1	YES	7
105	meth_TTPAL	meth	TTPAL	YES	4
106	meth_COL23A1	meth	COL23A1	YES	7
106	meth_PDE4D	meth	PDE4D	YES	51
107	meth_GALR2	meth	GALR2	YES	30
107	meth_SLC35D1	meth	SLC35D1	YES	19
108	meth_EIF3M	meth	EIF3M	YES	10
108	meth_GOLGB1	meth	GOLGB1	YES	15
109	meth_AC074117.10	meth	AC074117.10	NO	0
109	meth_CAPN5	meth	CAPN5	YES	11
110	meth_ETNK1	meth	ETNK1	YES	16
110	meth_NAT8L	meth	NAT8L	YES	15
111	meth_HACE1	meth	HACE1	YES	23
111	mrna_ATP10A	mrna	ATP10A	YES	18
112	meth_BCCIP	meth	BCCIP	YES	23
112	meth_PRPF18	meth	PRPF18	YES	11
113	meth_CTB-60E11.9	meth	CTB-60E11.9	NO	0
113	meth_UTP6	meth	UTP6	YES	9
114	meth_DIRAS2	meth	DIRAS2	YES	9
114	meth_L34079.2	meth	L34079.2	NO	0
115	meth_RNGTT	meth	RNGTT	YES	25
115	mrna_CALCOCO1	mrna	CALCOCO1	YES	24
116	cnv_ATG13	cnv	ATG13	YES	15
116	mrna_SLC1A3	mrna	SLC1A3	YES	47
117	meth_KDM5B	meth	KDM5B	YES	39
117	meth_POLD2	meth	POLD2	YES	22
118	meth_PCBP2	meth	PCBP2	YES	25
118	meth_RP11-93H24.3	meth	RP11-93H24.3	NO	0
119	meth_C5orf34	meth	C5orf34	NO	0
119	meth_YIF1B	meth	YIF1B	YES	7
120	cnv_GTF2IRD2P1	cnv	GTF2IRD2P1	NO	0
120	meth_YOD1	meth	YOD1	YES	28
121	meth_NSMF	meth	NSMF	YES	31

121	mrna_NEK2	mrna	NEK2	YES	50
122	meth_ERAL1	meth	ERAL1	YES	16
122	meth_POLR3B	meth	POLR3B	YES	19
123	meth_IL23A	meth	IL23A	YES	44
123	mrna_ENTPD6	mrna	ENTPD6	YES	17
124	meth_PLAC8	meth	PLAC8	YES	11
124	meth_PNN	meth	PNN	YES	20
125	meth_ASPM	meth	ASPM	YES	31
125	meth_RFX3	meth	RFX3	YES	27
126	meth_ABCB8	meth	ABCB8	YES	16
126	meth_ANXA7	meth	ANXA7	YES	28
127	meth_LSM6	meth	LSM6	YES	22
127	mrna_FCHO1	mrna	FCHO1	YES	11
128	meth_XPO1	meth	XPO1	YES	42
128	mrna_FAM135B	mrna	FAM135B	YES	3
129	meth_PPP1R1A	meth	PPP1R1A	YES	11
129	mrna_MAP3K14-AS1	mrna	MAP3K14-AS1	NO	0
130	meth_CBY1	meth	CBY1	YES	25
130	mrna_SLC35C1	mrna	SLC35C1	YES	10
131	meth_GTF3C1	meth	GTF3C1	YES	20
131	meth_MN1	meth	MN1	YES	7
132	meth_MYDGF	meth	MYDGF	YES	17
132	meth_PLEKHA1	meth	PLEKHA1	YES	31
133	meth_FBXL4	meth	FBXL4	YES	11
133	meth_PEBP1	meth	PEBP1	YES	17
134	meth_ARHGAP26	meth	ARHGAP26	YES	16
134	meth_NAA40	meth	NAA40	YES	12
135	meth_FZD1	meth	FZD1	YES	46
135	meth_RAD52	meth	RAD52	YES	19
136	meth_MIR22HG	meth	MIR22HG	NO	0
136	meth_WDR31	meth	WDR31	YES	1
137	meth_FRMD6	meth	FRMD6	YES	11
137	meth_MCRS1	meth	MCRS1	YES	30
138	meth_CMTM4	meth	CMTM4	YES	5
138	meth_RPS29	meth	RPS29	YES	21
139	meth_COX7A2L	meth	COX7A2L	YES	10
139	mrna_CTC-338M12.9	mrna	CTC-338M12.9	NO	0
140	meth_FBXW9	meth	FBXW9	YES	5
140	meth_HNRNPK	meth	HNRNPK	YES	43
141	meth_HMMR	meth	HMMR	YES	9
141	mrna_LINC01013	mrna	LINC01013	NO	0
142	meth_PFDN1	meth	PFDN1	YES	12
142	mrna_STAU2	mrna	STAU2	YES	10
143	meth_CFL2	meth	CFL2	YES	20
143	meth_FBXO36	meth	FBXO36	YES	1
144	cnv_MIR3161	cnv	MIR3161	NO	0
144	meth_RP1-39G22.7	meth	RP1-39G22.7	NO	0
145	meth_RP11-104H15.7	meth	RP11-104H15.7	NO	0
145	meth_WBSCR27	meth	WBSCR27	YES	2
146	mrna_MAMLD1	mrna	MAMLD1	YES	11
146	mrna_WNT3A	mrna	WNT3A	YES	101
147	meth_RP11-705O1.8	meth	RP11-705O1.8	NO	0
148	meth_ELP3	meth	ELP3	YES	30
148	meth_QTRT1	meth	QTRT1	YES	16
149	meth_CTD-2369P2.10	meth	CTD-2369P2.10	NO	0
149	mrna_PHF19	mrna	PHF19	YES	14
150	mrna_MEF2BNB-MEF2B	mrna	MEF2BNB-MEF2B	YES	10
151	meth_EIF4EBP1	meth	EIF4EBP1	YES	24
151	meth_PLK1	meth	PLK1	YES	79
152	meth_PSMA5	meth	PSMA5	YES	44

152	mrna_FAM50A	mrna	FAM50A	YES	3
153	mirna_MIR1266	mirna	MIR1266	NO	0
154	meth_AC068831.10	meth	AC068831.10	NO	0
154	meth_DVL3	meth	DVL3	YES	27
155	meth_MBLAC2	meth	MBLAC2	YES	5
155	mrna_FANCD2	mrna	FANCD2	YES	22
156	meth_FAM192A	meth	FAM192A	YES	2
156	meth_TOB1	meth	TOB1	YES	19
157	meth_BLOC1S4	meth	BLOC1S4	YES	12
157	meth_MEX3B	meth	MEX3B	YES	11
158	meth_DHRS4	meth	DHRS4	YES	19
158	meth_ITPK1	meth	ITPK1	YES	27
159	meth_RAB3D	meth	RAB3D	YES	22
159	meth_SYNGAP1	meth	SYNGAP1	YES	27
160	meth_ANKRD12	meth	ANKRD12	YES	3
160	meth_GMFB	meth	GMFB	YES	15
161	meth_CCT5	meth	CCT5	YES	32
161	meth_PEBP4	meth	PEBP4	YES	5
162	meth_CTD-2659N19.10	meth	CTD-2659N19.10	NO	0
162	meth_UNC80	meth	UNC80	YES	4
163	mrna_ALDH3B1	mrna	ALDH3B1	YES	23
163	mrna_ACAT1	mrna	ACAT1	YES	35
164	meth_GLTSCR2	meth	GLTSCR2	YES	5
164	meth_IRF2BPL	meth	IRF2BPL	YES	8
165	meth_CNNM4	meth	CNNM4	YES	16
165	meth_IFIT5	meth	IFIT5	YES	20
166	meth_AC046143.3	meth	AC046143.3	NO	0
166	meth_MKI67	meth	MKI67	YES	25
167	meth_AC097381.1	meth	AC097381.1	NO	0
167	meth_DGCR6L	meth	DGCR6L	YES	2
168	meth_PYGB	meth	PYGB	YES	18
168	meth_ZNF148	meth	ZNF148	YES	23
169	meth_CHRNA7	meth	CHRNA7	YES	86
169	mrna_CACNG1	mrna	CACNG1	YES	16
170	meth_NOB1	meth	NOB1	YES	12
170	meth_RP11-403P17.4	meth	RP11-403P17.4	NO	0
171	meth_KCNT2	meth	KCNT2	YES	13
171	mrna_AC017060.1	mrna	AC017060.1	NO	0
172	meth_AZIN1	meth	AZIN1	YES	12
172	meth_C16orf72	meth	C16orf72	YES	1
173	meth_ACVR1B	meth	ACVR1B	YES	51
173	mrna_RP11-101E13.5	mrna	RP11-101E13.5	NO	0
174	meth_ADD2	meth	ADD2	YES	26
174	meth_NOG	meth	NOG	YES	79
175	meth_AEBP1	meth	AEBP1	YES	24
175	meth_FICD	meth	FICD	YES	9
176	meth_LHX2	meth	LHX2	YES	32
176	mrna_SCEL	mrna	SCEL	YES	9
177	meth_ARIH1	meth	ARIH1	YES	25
177	meth_RASSF1	meth	RASSF1	YES	19
178	meth_INTS4	meth	INTS4	YES	6
178	stv_RDH13	stv	RDH13	YES	9
179	meth_C4orf22	meth	C4orf22	NO	0
179	meth_POLR1B	meth	POLR1B	YES	21
180	meth_CCNA1	meth	CCNA1	YES	15
180	mrna_RP11-148O21.4	mrna	RP11-148O21.4	NO	0
181	meth_GABRA5	meth	GABRA5	YES	38
181	meth_PDE8A	meth	PDE8A	YES	17
182	meth_IKBKB	meth	IKBKB	YES	54
182	meth_RP11-758P17.2	meth	RP11-758P17.2	NO	0

183	meth_C6orf165	meth	C6orf165	NO	0
183	meth_CTSV	meth	CTSV	YES	42
184	meth_TPCN2	meth	TPCN2	YES	29
184	mrna_RP1-234P15.4	mrna	RP1-234P15.4	NO	0
185	meth_GNAO1	meth	GNAO1	YES	41
185	mrna_LINC00957	mrna	LINC00957	NO	0
186	meth_UBE3C	meth	UBE3C	YES	10
186	mirna_MIR6860	mirna	MIR6860	NO	0
187	meth_MLLT4	meth	MLLT4	YES	18
187	meth_SC5D	meth	SC5D	YES	18
188	meth_CTC-492K19.7	meth	CTC-492K19.7	NO	0
188	meth_MRS2	meth	MRS2	YES	10
189	meth_CREBZF	meth	CREBZF	YES	12
189	meth_DMRT1	meth	DMRT1	YES	37
190	meth_ARL3	meth	ARL3	YES	36
190	meth_STAT1	meth	STAT1	YES	68
191	meth_DUSP23	meth	DUSP23	YES	15
191	meth_ENTPD6	meth	ENTPD6	YES	17
192	meth_KDM4A	meth	KDM4A	YES	34
192	meth_PTMA	meth	PTMA	YES	9
193	meth_DDX60	meth	DDX60	YES	19
193	meth_LEPROTL1	meth	LEPROTL1	YES	6
194	meth_IFRD2	meth	IFRD2	YES	4
194	meth_PPM1K	meth	PPM1K	YES	11
195	meth_FLJ20021	meth	FLJ20021	NO	0
195	meth_RCSD1	meth	RCSD1	YES	4
196	meth_ELMO2	meth	ELMO2	YES	15
196	meth_FASN	meth	FASN	YES	53
197	meth_AC007040.6	meth	AC007040.6	NO	0
197	meth_COG3	meth	COG3	YES	19
198	meth_BCL7A	meth	BCL7A	YES	4
198	meth_MRPL13	meth	MRPL13	YES	13
199	meth_FBXO45	meth	FBXO45	YES	21
199	meth_NSMCE4A	meth	NSMCE4A	YES	11
200	meth_GPM6A	meth	GPM6A	YES	22
200	meth_SPOCK1	meth	SPOCK1	YES	22
201	meth_MRPS33	meth	MRPS33	YES	9
201	mrna_GINS3	mrna	GINS3	YES	4
202	meth_RSG1	meth	RSG1	YES	18
203	cnv_STAG3L3	cnv	STAG3L3	NO	0
203	meth_TTC30A	meth	TTC30A	YES	6
204	meth_CEP95	meth	CEP95	YES	8
205	meth_AP000692.10	meth	AP000692.10	NO	0
205	meth_XRCC5	meth	XRCC5	YES	66
206	meth_APRT	meth	APRT	YES	21
206	mrna_CKAP2L	mrna	CKAP2L	YES	6
207	meth_ATP5J	meth	ATP5J	YES	19
207	meth_ZEB1	meth	ZEB1	YES	45
208	meth_ASPHD2	meth	ASPHD2	YES	7
208	meth_LSR	meth	LSR	YES	13
209	meth_MPST	meth	MPST	YES	18
210	meth_ANKHD1	meth	ANKHD1	YES	5
210	meth_GDI2	meth	GDI2	YES	26
211	meth_DLEU2	meth	DLEU2	NO	0
211	mrna_DHRS1	mrna	DHRS1	YES	6
212	meth_KREMEN2	meth	KREMEN2	YES	9
212	meth_PPP2R3C	meth	PPP2R3C	YES	18
213	meth_CHCHD5	meth	CHCHD5	YES	3
213	meth_SMC2	meth	SMC2	YES	22
214	meth_PPP1R15A	meth	PPP1R15A	YES	39

214	meth_ZNF787	meth	ZNF787	YES	5
215	meth_ANKUB1	meth	ANKUB1	YES	1
215	meth_EPHB2	meth	EPHB2	YES	71
216	meth_CIRBP-AS1	meth	CIRBP-AS1	NO	0
216	meth_RERG	meth	RERG	YES	16
217	meth_KMT2E	meth	KMT2E	YES	23
217	meth_LMNTD2	meth	LMNTD2	YES	1
218	meth_PLA2G7	meth	PLA2G7	YES	17
218	meth_RABGAP1L	meth	RABGAP1L	YES	14
219	meth_CHRNA3	meth	CHRNA3	YES	37
219	mrna_SCAND1	mrna	SCAND1	YES	8
220	meth_AP000304.12	meth	AP000304.12	NO	0
220	meth_TRIM24	meth	TRIM24	YES	42
221	cnv_RDM1	cnv	RDM1	YES	12
221	meth_CENPO	meth	CENPO	YES	11
222	meth_GALNT18	meth	GALNT18	YES	10
223	meth_FAM3B	meth	FAM3B	YES	6
223	meth_RPP25L	meth	RPP25L	YES	4
224	meth_SRGAP3	meth	SRGAP3	YES	9
224	mrna_GNS	mrna	GNS	YES	17
225	meth_AC003688.1	meth	AC003688.1	NO	0
225	meth_RSPO3	meth	RSPO3	YES	15
226	meth_ARAP2	meth	ARAP2	YES	10
226	meth_CHD1L	meth	CHD1L	YES	22
227	meth_AC002467.7	meth	AC002467.7	NO	0
227	meth_DHX36	meth	DHX36	YES	38
228	meth_FEM1B	meth	FEM1B	YES	16
228	meth_SYNJ2BP	meth	SYNJ2BP	YES	11
229	cnv_TRIM48	cnv	TRIM48	YES	4
229	mrna_SH3BGRL2	mrna	SH3BGRL2	YES	6
230	meth_BCAS3	meth	BCAS3	YES	37
230	meth_C19orf53	meth	C19orf53	YES	2
231	meth_CCDC28A	meth	CCDC28A	YES	1
231	meth_HTRA3	meth	HTRA3	YES	12
232	meth_CSNK1G3	meth	CSNK1G3	YES	16
232	meth_CTB-118N6.2	meth	CTB-118N6.2	NO	0
233	meth_GEMIN5	meth	GEMIN5	YES	28
233	mrna_SYT12	mrna	SYT12	YES	17
234	meth_RAB30	meth	RAB30	YES	17
234	meth_TUBGCP3	meth	TUBGCP3	YES	26
235	meth_CTDNEP1	meth	CTDNEP1	YES	23
235	meth_GOSR2	meth	GOSR2	YES	25
236	meth_B3GAT2	meth	B3GAT2	YES	12
236	meth_ITGA11	meth	ITGA11	YES	19
237	meth_ARL2BP	meth	ARL2BP	YES	22
237	meth_LGI2	meth	LGI2	YES	2
238	meth_COL5A3	meth	COL5A3	YES	16
238	meth_KIAA0753	meth	KIAA0753	YES	10
239	meth_RPL37	meth	RPL37	YES	21
239	meth_UGGT1	meth	UGGT1	YES	18
240	meth_ATG9A	meth	ATG9A	YES	24
240	meth_TBCC	meth	TBCC	YES	12
241	meth_NAPB	meth	NAPB	YES	17
241	mrna_C2-AS1	mrna	C2-AS1	NO	0
242	meth_NFATC2IP	meth	NFATC2IP	YES	6
242	mrna_RP11-626G11.4	mrna	RP11-626G11.4	NO	0
243	meth_ATL1	meth	ATL1	YES	20
243	meth_TPRA1	meth	TPRA1	YES	8
244	meth_CTD-2574D22.2	meth	CTD-2574D22.2	NO	0
244	mrna_MIR8071-2	mrna	MIR8071-2	NO	0

245	meth_PCGF2	meth	PCGF2	YES	22
245	meth_RASGRP1	meth	RASGRP1	YES	49
246	meth_RPE	meth	RPE	YES	15
246	mrna_ARID3C	mrna	ARID3C	YES	11
247	meth_ORC6	meth	ORC6	YES	13
247	meth_ZMYM2	meth	ZMYM2	YES	19
248	meth_ACAD10	meth	ACAD10	YES	11
248	meth_ALG14	meth	ALG14	YES	8
249	meth_ANKMY1	meth	ANKMY1	YES	2
249	meth_KHSRP	meth	KHSRP	YES	28
250	meth_CPSF1	meth	CPSF1	YES	17
250	meth_MRPS5	meth	MRPS5	YES	10
251	meth_HIST1H4C	meth	HIST1H4C	YES	36
251	mrna_SPAG4	mrna	SPAG4	YES	17
252	meth_INPPL1	meth	INPPL1	YES	38
252	meth_KCNJ8	meth	KCNJ8	YES	30
253	meth_ENTPD4	meth	ENTPD4	YES	14
253	meth_MLH3	meth	MLH3	YES	24
254	meth_ZNF35	meth	ZNF35	YES	12
254	mrna_NDUFAF6	mrna	NDUFAF6	YES	8
255	meth_PHF21B	meth	PHF21B	YES	7
255	meth_WNK1	meth	WNK1	YES	36
256	meth_RP11-331F4.5	meth	RP11-331F4.5	NO	0
256	meth_RP11-536G4.2	meth	RP11-536G4.2	NO	0
257	meth_MTHFD1	meth	MTHFD1	YES	38
257	meth_SAP130	meth	SAP130	YES	7
258	meth_HRSP12	meth	HRSP12	YES	6
258	meth_RP11-727F15.11	meth	RP11-727F15.11	NO	0
259	meth_ITPR3	meth	ITPR3	YES	54
259	mrna_ORC6	mrna	ORC6	YES	13
260	meth_SUMO1	meth	SUMO1	YES	58
261	meth_CDKN1C	meth	CDKN1C	YES	33
261	meth_FGF2	meth	FGF2	YES	83
262	meth_RAP1A	meth	RAP1A	YES	51
262	meth_RRP15	meth	RRP15	YES	4
263	meth_HLA-DOB	meth	HLA-DOB	YES	17
264	meth_CEND1	meth	CEND1	YES	10
264	meth_RP11-351A11.1	meth	RP11-351A11.1	NO	0
265	meth_GBA	meth	GBA	YES	48
266	meth_ATF6	meth	ATF6	YES	41
266	meth_PRDX6	meth	PRDX6	YES	37
267	meth_GDAP1L1	meth	GDAP1L1	YES	5
267	meth_MFSD2A	meth	MFSD2A	YES	20
268	meth_GDAP2	meth	GDAP2	YES	3
268	meth_TBCE	meth	TBCE	YES	18
269	meth_JAKMIP1	meth	JAKMIP1	YES	16
269	mrna_PLS3	mrna	PLS3	YES	13
270	meth_GPAA1	meth	GPAA1	YES	13
270	mrna_AICDA	mrna	AICDA	YES	21
271	meth_CTD-2015H6.3	meth	CTD-2015H6.3	NO	0
271	meth_ENO1	meth	ENO1	YES	37
272	meth_AC100830.3	meth	AC100830.3	NO	0
272	meth_LACTB	meth	LACTB	YES	7
273	meth_ADAM12	meth	ADAM12	YES	16
273	meth_CMPK1	meth	CMPK1	YES	27
274	cnv_DGKZ	cnv	DGKZ	YES	24
274	meth_RBM17	meth	RBM17	YES	13
275	meth_GTF2E2	meth	GTF2E2	YES	15
275	meth_LRGUK	meth	LRGUK	YES	11
276	meth_CDKN3	meth	CDKN3	YES	19

276	meth_ZBTB3	meth	ZBTB3	YES	6
277	cnv_TRIM51HP	cnv	TRIM51HP	NO	0
277	meth_C6orf211	meth	C6orf211	NO	0
278	meth_CDC42SE1	meth	CDC42SE1	YES	10
278	meth_PHF21A	meth	PHF21A	YES	17
279	meth_ATP6V0A1	meth	ATP6V0A1	YES	38
279	meth_SLC6A6	meth	SLC6A6	YES	20
280	meth_PFKFB4	meth	PFKFB4	YES	16
280	meth_SYNGR4	meth	SYNGR4	YES	4
281	meth_AP000936.4	meth	AP000936.4	NO	0
281	meth_RNF145	meth	RNF145	YES	8
282	meth_PARP16	meth	PARP16	YES	22
282	meth_VGF	meth	VGF	YES	24
283	mirna_MIR7705	mirna	MIR7705	NO	0
283	mrna_AFAP1-AS1	mrna	AFAP1-AS1	NO	0
284	cnv_MIR5582	cnv	MIR5582	NO	0
284	meth_SPATA8	meth	SPATA8	YES	1
285	meth_CCDC132	meth	CCDC132	NO	0
285	meth_ELOVL6	meth	ELOVL6	YES	25
286	meth_LHX3	meth	LHX3	YES	29
286	meth_SUN2	meth	SUN2	YES	27
287	meth_ATP5C1	meth	ATP5C1	YES	22
287	meth_PDIA5	meth	PDIA5	YES	15
288	meth_CCND2	meth	CCND2	YES	23
289	meth_ACVR2A	meth	ACVR2A	YES	53
289	meth_CTD-3193O13.12	meth	CTD-3193O13.12	NO	0
290	meth_COMMD9	meth	COMMD9	YES	15
290	meth_RP11-290D2.6	meth	RP11-290D2.6	NO	0
291	meth_DMAP1	meth	DMAP1	YES	22
291	stv_IQCD	stv	IQCD	YES	1
292	meth_MIEF1	meth	MIEF1	YES	13
292	mrna_CFLAR	mrna	CFLAR	YES	51
293	meth_PIGO	meth	PIGO	YES	14
293	meth_SLC25A16	meth	SLC25A16	YES	11
294	meth_MKRN2	meth	MKRN2	YES	8
294	meth_SEC31A	meth	SEC31A	YES	26
295	meth_APOPT1	meth	APOPT1	YES	6
295	mrna_RP11-4M23.2	mrna	RP11-4M23.2	NO	0
296	mrna_MGST1	mrna	MGST1	YES	30
296	mrna_TMEM144	mrna	TMEM144	YES	4
297	meth_SLC4A1AP	meth	SLC4A1AP	YES	7
297	mrna_RP11-276H19.1	mrna	RP11-276H19.1	NO	0
298	meth_FARS2	meth	FARS2	YES	15
298	mrna_PDIA3P1	mrna	PDIA3P1	NO	0
299	meth_LDB1	meth	LDB1	YES	45
300	meth_AC004381.6	meth	AC004381.6	NO	0
300	meth_HIST1H2APS4	meth	HIST1H2APS4	NO	0
301	meth_CNOT7	meth	CNOT7	YES	51
301	meth_MIEF2	meth	MIEF2	YES	9
302	meth_AC135050.1	meth	AC135050.1	NO	0
302	meth_RPL10A	meth	RPL10A	YES	20
303	cnv_OR4C12	cnv	OR4C12	YES	13
303	meth_SNX3	meth	SNX3	YES	36
304	meth_AC079807.2	meth	AC079807.2	NO	0
304	mrna_HERC6	mrna	HERC6	YES	9
305	meth_CCDC85B	meth	CCDC85B	YES	13
305	mrna_DUXAP8	mrna	DUXAP8	NO	0
306	meth_AC009299.2	meth	AC009299.2	NO	0
306	meth_MFSD9	meth	MFSD9	YES	5
307	meth_KDM4C	meth	KDM4C	YES	29

307	meth_PAIP2	meth	PAIP2	YES	10
308	meth_CSTA	meth	CSTA	YES	21
308	meth_UNC119	meth	UNC119	YES	24
309	meth_STIL	meth	STIL	YES	24
310	meth_CDC34	meth	CDC34	YES	27
310	meth_DOCK3	meth	DOCK3	YES	7
311	meth_SEPN1	meth	SEPN1	YES	6
312	meth_KLLN	meth	KLLN	YES	6
313	meth_ATP6V1C1	meth	ATP6V1C1	YES	24
313	meth_COLGALT1	meth	COLGALT1	YES	6
314	meth_HSPD1	meth	HSPD1	YES	68
315	meth_PRIM2	meth	PRIM2	YES	18
316	meth_RP11-66N24.3	meth	RP11-66N24.3	NO	0
316	meth_TAF13	meth	TAF13	YES	19
317	meth_GAN	meth	GAN	YES	10
317	stv_IRX5	stv	IRX5	YES	16
318	meth_JAM2	meth	JAM2	YES	12
318	meth_RILPL2	meth	RILPL2	YES	19
319	meth_MRPL12	meth	MRPL12	YES	14
319	meth_STX11	meth	STX11	YES	16
320	meth_MED16	meth	MED16	YES	21
320	meth_RAD17	meth	RAD17	YES	22
321	meth_PLAGL2	meth	PLAGL2	YES	17
321	meth_SH2B3	meth	SH2B3	YES	11
322	meth_MTR	meth	MTR	YES	20
322	mirna_MIR4691	mirna	MIR4691	NO	0
323	meth_CTD-2231E14.2	meth	CTD-2231E14.2	NO	0
323	meth_FAM124A	meth	FAM124A	YES	1
324	meth_CASC2	meth	CASC2	NO	0
324	mrna_BUB1	mrna	BUB1	YES	31
325	meth_CHRNB2	meth	CHRNB2	YES	69
325	meth_RSAD1	meth	RSAD1	YES	10
326	meth_C14orf1	meth	C14orf1	YES	6
326	meth_CFAP36	meth	CFAP36	YES	3
327	meth_C4orf27	meth	C4orf27	YES	1
328	stv_TPSB2	stv	TPSB2	YES	7
329	meth_SNX1	meth	SNX1	YES	39
329	mrna_AL928768.3	mrna	AL928768.3	NO	0
330	meth_C2orf76	meth	C2orf76	NO	0
330	stv_CPQ	stv	CPQ	YES	18
331	meth_PI4KB	meth	PI4KB	YES	26
331	meth_RPL27A	meth	RPL27A	YES	19
332	meth_RILP	meth	RILP	YES	28
332	meth_SFT2D1	meth	SFT2D1	YES	5
333	meth_DUSP10	meth	DUSP10	YES	40
333	meth_FLRT2	meth	FLRT2	YES	37
334	meth_PCGF1	meth	PCGF1	YES	9
334	meth_PPP1R12C	meth	PPP1R12C	YES	3
335	meth_CTD-2371O3.3	meth	CTD-2371O3.3	NO	0
335	meth_EIF4G2	meth	EIF4G2	YES	23
336	meth_RIF1	meth	RIF1	YES	31
337	meth_ATP5H	meth	ATP5H	YES	22
337	meth_PPP1CB	meth	PPP1CB	YES	33
338	meth_NPC1	meth	NPC1	YES	49
338	meth_USP5	meth	USP5	YES	18
339	meth_ACOX1	meth	ACOX1	YES	34
339	meth_ZNF37A	meth	ZNF37A	YES	8
340	meth_AC002985.3	meth	AC002985.3	NO	0
340	meth_UNC45A	meth	UNC45A	YES	13
341	cnv_CCL16	cnv	CCL16	YES	23

341	meth_BBS10	meth	BBS10	YES	13
342	meth_BAZ2A	meth	BAZ2A	YES	21
342	meth_MAFF	meth	MAFF	YES	16
343	meth_KCNQ3	meth	KCNQ3	YES	21
344	meth_CTB-58E17.3	meth	CTB-58E17.3	NO	0
344	meth_DCAF8	meth	DCAF8	YES	9
345	meth_RHOT2	meth	RHOT2	YES	21
346	meth_MYC	meth	MYC	YES	73
346	meth_TREML2	meth	TREML2	YES	8
347	meth_ENO3	meth	ENO3	YES	16
347	mrna_COQ6	mrna	COQ6	YES	12
348	meth_FHOD1	meth	FHOD1	YES	19
348	meth_YWHAB	meth	YWHAB	YES	42
349	meth_FLOT1	meth	FLOT1	YES	57
350	cnv_OR5I1	cnv	OR5I1	YES	12
350	meth_AC010894.3	meth	AC010894.3	NO	0
351	meth_RP11-770J1.4	meth	RP11-770J1.4	NO	0
352	meth_C6orf203	meth	C6orf203	YES	1
352	meth_GSR	meth	GSR	YES	18
353	meth_FAM19A2	meth	FAM19A2	YES	1
353	meth_IL1B	meth	IL1B	YES	96
354	meth_RP11-138I18.1	meth	RP11-138I18.1	NO	0
354	meth_SUPT5H	meth	SUPT5H	YES	29
355	meth_GDE1	meth	GDE1	YES	15
355	mrna_RP3-455J7.4	mrna	RP3-455J7.4	NO	0
356	meth_KCNC4-AS1	meth	KCNC4-AS1	NO	0
356	mrna_SLC25A51	mrna	SLC25A51	YES	8
357	meth_AKT2	meth	AKT2	YES	60
357	mrna_NUP160	mrna	NUP160	YES	23
358	meth_ING4	meth	ING4	YES	23
358	meth_NHLRC2	meth	NHLRC2	YES	5
359	meth_EHD4	meth	EHD4	YES	23
359	meth_PLXND1	meth	PLXND1	YES	27
360	meth_NDUFS7	meth	NDUFS7	YES	21
360	meth_UGP2	meth	UGP2	YES	19
361	meth_PPIH	meth	PPIH	YES	19
361	mrna_MCU	mrna	MCU	YES	23
362	meth_RP3-486I3.7	meth	RP3-486I3.7	NO	0
362	meth_UBLCP1	meth	UBLCP1	YES	7
363	meth_MDM1	meth	MDM1	YES	11
363	meth_SLC7A1	meth	SLC7A1	YES	12
364	meth_AP2M1	meth	AP2M1	YES	37
364	meth_TMEM230	meth	TMEM230	YES	15
365	meth_BAIAP2	meth	BAIAP2	YES	59
365	meth_RIOK3	meth	RIOK3	YES	28
366	meth_LINC01562	meth	LINC01562	NO	0
366	meth_NEDD1	meth	NEDD1	YES	17
367	meth_PDGFRL	meth	PDGFRL	YES	7
367	mrna_LINC00654	mrna	LINC00654	NO	0
368	meth_ADH5	meth	ADH5	YES	23
368	meth_LINC01573	meth	LINC01573	NO	0
369	meth_DYNLL1-AS1	meth	DYNLL1-AS1	NO	0
369	meth_SRD5A3-AS1	meth	SRD5A3-AS1	NO	0
370	meth_EIF3J	meth	EIF3J	YES	13
370	meth_MAPKAP1	meth	MAPKAP1	YES	26
371	meth_CTD-2288F12.1	meth	CTD-2288F12.1	NO	0
371	meth_NDUFA2	meth	NDUFA2	YES	10
372	meth_GFER	meth	GFER	YES	14
372	meth_PARP1	meth	PARP1	YES	87
373	meth_BAHD1	meth	BAHD1	YES	14

373	meth_RNF182	meth	RNF182	YES	8
374	meth_ETHE1	meth	ETHE1	YES	14
374	meth_SMG6	meth	SMG6	YES	31
375	meth_HIST1H4B	meth	HIST1H4B	YES	36
375	meth_SEPT7	meth	SEPT7	YES	37
376	meth_CLIP1	meth	CLIP1	YES	32
376	meth_KIF1A	meth	KIF1A	YES	14
377	meth_CDC25A	meth	CDC25A	YES	25
377	meth_SKAP2	meth	SKAP2	YES	11
378	meth_AC009961.3	meth	AC009961.3	NO	0
378	meth_PSRC1	meth	PSRC1	YES	21
379	meth_LHX4	meth	LHX4	YES	16
380	cnv_AATF	cnv	AATF	YES	25
380	meth_EIF6	meth	EIF6	YES	27
381	meth_B4GALNT1	meth	B4GALNT1	YES	19
381	meth_SMU1	meth	SMU1	YES	3
382	meth_ERMARD	meth	ERMARD	YES	7
382	mrna_FAM81A	mrna	FAM81A	NO	0
383	meth_EP300	meth	EP300	YES	102
383	stv_FAM169B	stv	FAM169B	NO	0
384	meth_PANK4	meth	PANK4	YES	8
384	meth_UEVLD	meth	UEVLD	YES	11
385	meth_BTBD10	meth	BTBD10	YES	6
385	meth_PPP4R4	meth	PPP4R4	YES	7
386	meth_AC005363.11	meth	AC005363.11	NO	0
386	meth_YPEL5	meth	YPEL5	YES	5
387	meth_ADAM10	meth	ADAM10	YES	53
388	meth_MDN1	meth	MDN1	YES	14
388	meth_MTHFD1L	meth	MTHFD1L	YES	22
389	meth_RP11-143K11.5	meth	RP11-143K11.5	NO	0
389	meth_RP11-574K11.24	meth	RP11-574K11.24	NO	0
390	cnv_AUTS2	cnv	AUTS2	YES	10
390	meth_GABARAPL1	meth	GABARAPL1	YES	27
391	meth_HECTD3	meth	HECTD3	YES	9
391	meth_MYBPC2	meth	MYBPC2	YES	18
392	meth_ZNF365	meth	ZNF365	YES	10
393	meth_LSM12	meth	LSM12	NO	0
393	meth_RHPN1	meth	RHPN1	YES	3
394	meth_GDNF	meth	GDNF	YES	43
394	meth_VAV2	meth	VAV2	YES	30
395	meth_PTCH1	meth	PTCH1	YES	85
395	mrna_U62631.5	mrna	U62631.5	NO	0
396	meth_C6orf89	meth	C6orf89	YES	14
396	meth_GEMIN2	meth	GEMIN2	YES	18
397	meth_DNAJC28	meth	DNAJC28	YES	6
398	meth_IFT20	meth	IFT20	YES	46
398	meth_ZSCAN9	meth	ZSCAN9	YES	8
399	meth_EXPH5	meth	EXPH5	YES	8
399	meth_RP11-572B2.1	meth	RP11-572B2.1	NO	0
400	meth_ATP13A2	meth	ATP13A2	YES	58
400	meth_TOP3B	meth	TOP3B	YES	10
401	meth_MRPL39	meth	MRPL39	YES	10
401	meth_WWTR1	meth	WWTR1	YES	35
402	meth_HECTD2	meth	HECTD2	YES	7
402	meth_TBP	meth	TBP	YES	45
403	cnv_OR5T1	cnv	OR5T1	YES	28
403	cnv_TBC1D3G	cnv	TBC1D3G	YES	9
404	meth_C6orf1	meth	C6orf1	YES	1
404	meth_SNORA14B	meth	SNORA14B	NO	0
405	meth_RCN2	meth	RCN2	YES	6

405	meth_XPA	meth	XPA	YES	35
406	meth_CCDC125	meth	CCDC125	YES	2
406	mrna_MTHFD1	mrna	MTHFD1	YES	38
407	meth_ATP5L	meth	ATP5L	YES	19
407	meth_GPCPD1	meth	GPCPD1	YES	12
408	meth_LRRN4CL	meth	LRRN4CL	YES	2
408	meth_PPP1R12B	meth	PPP1R12B	YES	12
409	meth_CAMSAP2	meth	CAMSAP2	YES	14
409	meth_MFN2	meth	MFN2	YES	28
410	meth_FBXW8	meth	FBXW8	YES	17
410	meth_PHB	meth	PHB	YES	47
411	meth_BAG4	meth	BAG4	YES	28
412	meth_FOXO3	meth	FOXO3	YES	58
412	meth_RP11-762H8.5	meth	RP11-762H8.5	NO	0
413	meth_HADHA	meth	HADHA	YES	30
413	meth_RP4-553F4.2	meth	RP4-553F4.2	NO	0
414	meth_KCNK9	meth	KCNK9	YES	16
414	meth_MCM3	meth	MCM3	YES	22
415	meth_TLK1	meth	TLK1	YES	16
415	mrna_ZNF503-AS2	mrna	ZNF503-AS2	NO	0
416	meth_EIF4H	meth	EIF4H	YES	24
417	meth_AC068499.10	meth	AC068499.10	NO	0
417	meth_ADAMTS6	meth	ADAMTS6	YES	9
418	meth_C1orf123	meth	C1orf123	YES	3
418	meth_DPYSL5	meth	DPYSL5	YES	14
419	meth_PANK2	meth	PANK2	YES	20
419	meth_SOS1	meth	SOS1	YES	47
420	meth_CCNH	meth	CCNH	YES	36
420	meth_KAT5	meth	KAT5	YES	44
421	meth_MED17	meth	MED17	YES	21
421	meth_MIR574	meth	MIR574	YES	1
422	meth_DDR1	meth	DDR1	YES	43
422	mrna_NUDT12	mrna	NUDT12	YES	12
423	meth_KNTC1	meth	KNTC1	YES	21
423	meth_SPICE1	meth	SPICE1	YES	11
424	meth_SUCLA2	meth	SUCLA2	YES	17
424	mrna_HHLA2	mrna	HHLA2	YES	8
425	meth_LIMK2	meth	LIMK2	YES	18
425	meth_PCNP	meth	PCNP	YES	6
426	meth_CCNYL1	meth	CCNYL1	YES	9
426	meth_TTC23	meth	TTC23	YES	1
427	meth_MAP3K9	meth	MAP3K9	YES	28
427	meth_MIR4754	meth	MIR4754	NO	0
428	meth_ANKEF1	meth	ANKEF1	YES	2
428	meth_OSBPL3	meth	OSBPL3	YES	19
429	mrna_PUSL1	mrna	PUSL1	YES	8
429	mrna_RRM2	mrna	RRM2	YES	20
430	meth_CTD-2410N18.5	meth	CTD-2410N18.5	NO	0
430	meth_SLC17A7	meth	SLC17A7	YES	45
432	meth_DHX30	meth	DHX30	YES	18
433	meth_PTENP1	meth	PTENP1	NO	0
433	mrna_RP11-357P18.2	mrna	RP11-357P18.2	NO	0
434	meth_DUSP6	meth	DUSP6	YES	40
434	mrna_RB1	mrna	RB1	YES	84
436	meth_NIPBL	meth	NIPBL	YES	49
436	mrna_CEACAM5	mrna	CEACAM5	YES	17
437	meth_CTC-534A2.2	meth	CTC-534A2.2	NO	0
437	meth_MIR6789	meth	MIR6789	NO	0
438	meth_HIST1H1C	meth	HIST1H1C	YES	15
438	meth_TMEM45B	meth	TMEM45B	YES	2

439	meth_GPRIN1	meth	GPRIN1	YES	6
439	meth_HSD17B12	meth	HSD17B12	YES	24
440	meth_FPGS	meth	FPGS	YES	22
440	meth_OSER1	meth	OSER1	YES	1
441	meth_MAT2A	meth	MAT2A	YES	15
441	mrna_CD79B	mrna	CD79B	YES	22
442	meth_EEF2K	meth	EEF2K	YES	29
442	meth_NSUN4	meth	NSUN4	YES	16
443	meth_DEFA4	meth	DEFA4	YES	18
443	meth_NRL	meth	NRL	YES	20
444	meth_NSL1	meth	NSL1	YES	15
445	meth_NOL11	meth	NOL11	YES	12
445	meth_RPS13	meth	RPS13	YES	26
446	meth_MFSD11	meth	MFSD11	YES	5
446	mrna_MFSD2A	mrna	MFSD2A	YES	20
447	meth_CTD-3065J16.9	meth	CTD-3065J16.9	NO	0
448	meth_EYA3	meth	EYA3	YES	26
448	meth_SEC11C	meth	SEC11C	YES	12
449	cnv_RN7SKP274	cnv	RN7SKP274	NO	0
449	mrna_NUFIP1	mrna	NUFIP1	YES	23
450	meth_CTD-2175A23.1	meth	CTD-2175A23.1	NO	0
451	meth_DAXX	meth	DAXX	YES	46
451	meth_TNPO3	meth	TNPO3	YES	12
452	meth_EPRS	meth	EPRS	YES	30
452	meth_SPDL1	meth	SPDL1	YES	21
453	meth_CDCA7L	meth	CDCA7L	YES	12
453	meth_KIAA1143	meth	KIAA1143	YES	1
454	meth_AC007163.6	meth	AC007163.6	NO	0
454	meth_PLEKHF2	meth	PLEKHF2	YES	9
455	meth_AUTS2	meth	AUTS2	YES	10
455	meth_MRPL57	meth	MRPL57	YES	10
456	meth_UBL7	meth	UBL7	YES	1
457	meth_POP4	meth	POP4	YES	19
457	meth_TK2	meth	TK2	YES	18
458	meth_NCBP2	meth	NCBP2	YES	40
458	mirna_MIR4763	mirna	MIR4763	NO	0
459	meth_HIAT1	meth	HIAT1	YES	4
459	meth_HSPA13	meth	HSPA13	YES	6
460	cnv_TRIM49B	cnv	TRIM49B	YES	3
460	mrna_RP11-505E24.3	mrna	RP11-505E24.3	NO	0
461	meth_EIF3A	meth	EIF3A	YES	23
461	meth_NOVA1	meth	NOVA1	YES	12
462	cnv_NSUN5P2	cnv	NSUN5P2	NO	0
462	meth_TARDBP	meth	TARDBP	YES	30
463	meth_MCFD2	meth	MCFD2	YES	15
463	mrna_TACC1	mrna	TACC1	YES	15
464	meth_RP11-667F14.1	meth	RP11-667F14.1	NO	0
465	meth_ATG4D	meth	ATG4D	YES	19
465	meth_NUP107	meth	NUP107	YES	37
466	meth_ATP5J2-PTCD1	meth	ATP5J2-PTCD1	YES	4
466	meth_RNF111	meth	RNF111	YES	26
467	meth_ATF1	meth	ATF1	YES	33
468	meth_FBXO3	meth	FBXO3	YES	7
468	meth_HERC4	meth	HERC4	YES	9
469	meth_C1orf94	meth	C1orf94	YES	1
469	meth_ILKAP	meth	ILKAP	YES	12
470	meth_ZBTB12	meth	ZBTB12	YES	6
471	meth_HINFP	meth	HINFP	YES	32
471	meth_TTK	meth	TTK	YES	32
472	meth_URI1	meth	URI1	YES	24

472	mrna_RHOQP1	mrna	RHOQP1	NO	0
473	meth_RNLS	meth	RNLS	YES	15
473	meth_RP11-806H10.4	meth	RP11-806H10.4	NO	0
474	meth_SLC2A5	meth	SLC2A5	YES	27
474	mrna_GVQW1	mrna	GVQW1	NO	0
475	meth_OSGIN2	meth	OSGIN2	YES	7
476	meth_PAPPA	meth	PAPPA	YES	14
476	meth_RP11-539G18.3	meth	RP11-539G18.3	NO	0
477	meth_TBX3	meth	TBX3	YES	56
477	mrna_SLC25A20	mrna	SLC25A20	YES	14
478	meth_MTCH1	meth	MTCH1	YES	12
478	meth_TLE2	meth	TLE2	YES	15
479	meth_BLOC1S2	meth	BLOC1S2	YES	24
479	meth_RINT1	meth	RINT1	YES	15
480	meth_MPLKIP	meth	MPLKIP	YES	12
480	meth_STRADB	meth	STRADB	YES	21
481	meth_GTF2I	meth	GTF2I	YES	20
481	meth_RP11-193F5.1	meth	RP11-193F5.1	NO	0
482	meth_C12orf4	meth	C12orf4	YES	2
482	meth_GRB2	meth	GRB2	YES	73
483	cnv_TBC1D3H	cnv	TBC1D3H	YES	9
483	meth_TNFRSF13C	meth	TNFRSF13C	YES	15
484	meth_AC093323.3	meth	AC093323.3	NO	0
484	meth_EPS15	meth	EPS15	YES	39
485	meth_LCE5A	meth	LCE5A	YES	7
486	meth_ADO	meth	ADO	YES	9
486	meth_PHLDB3	meth	PHLDB3	YES	1
487	meth_AMZ2P1	meth	AMZ2P1	NO	0
487	meth_EED	meth	EED	YES	26
488	meth_CKS1B	meth	CKS1B	YES	17
488	stv_KRTAP5-9	stv	KRTAP5-9	YES	6
489	cnv_CCL4	cnv	CCL4	YES	32
489	meth_RP11-727F15.12	meth	RP11-727F15.12	NO	0
490	meth_RP11-571M6.7	meth	RP11-571M6.7	NO	0
490	meth_ZBTB43	meth	ZBTB43	YES	7
491	meth_DARS	meth	DARS	YES	18
492	cnv_TRIM64C	cnv	TRIM64C	YES	3
492	meth_FKBPL	meth	FKBPL	YES	8
493	meth_GPATCH3	meth	GPATCH3	YES	2
493	meth_ZNF747	meth	ZNF747	YES	5
494	meth_CNTN1	meth	CNTN1	YES	16
494	meth_SSX2IP	meth	SSX2IP	YES	21
495	meth_AL021546.6	meth	AL021546.6	NO	0
495	meth_MIR4500HG	meth	MIR4500HG	NO	0
496	meth_SDF2L1	meth	SDF2L1	YES	14
497	meth_AUH	meth	AUH	YES	13
497	mrna_HSPD1P6	mrna	HSPD1P6	NO	0
498	cnv_OR4S1	cnv	OR4S1	YES	13
498	meth_KIAA0513	meth	KIAA0513	YES	1
499	meth_PDIK1L	meth	PDIK1L	YES	11
499	mrna_CDC42SE2	mrna	CDC42SE2	YES	12
500	meth_RAC1	meth	RAC1	YES	87
500	meth_TAF2	meth	TAF2	YES	20
501	meth_PA2G4	meth	PA2G4	YES	23
501	mrna_TBC1D27	mrna	TBC1D27	NO	0
502	meth_PLD5	meth	PLD5	YES	3
502	meth_STARD7	meth	STARD7	YES	5
503	meth_AC104534.3	meth	AC104534.3	NO	0
503	mrna_ESR1	mrna	ESR1	YES	86
504	meth_POLH	meth	POLH	YES	22

504	meth_WDR33	meth	WDR33	YES	15
505	meth_NOL9	meth	NOL9	YES	16
505	meth_ZSWIM1	meth	ZSWIM1	YES	3
506	cnv_OR5T2	cnv	OR5T2	YES	14
506	meth_HINT2	meth	HINT2	YES	10
507	meth_NKX6-3	meth	NKX6-3	YES	10
507	meth_OTUD7B	meth	OTUD7B	YES	28
508	meth_RBM14	meth	RBM14	YES	26
508	meth_RPL13	meth	RPL13	YES	21
509	meth_CASC5	meth	CASC5	YES	15
509	meth_CDC123	meth	CDC123	YES	8
510	meth_SYNCRIP	meth	SYNCRIP	YES	27
510	meth_WNT5A	meth	WNT5A	YES	192
511	meth_DEK	meth	DEK	YES	16
511	mrna_LRPAP1	mrna	LRPAP1	YES	31
512	meth_CLDN7	meth	CLDN7	YES	19
512	meth_ELAC1	meth	ELAC1	YES	13
513	meth_ATP6V1C2	meth	ATP6V1C2	YES	19
513	meth_SV2B	meth	SV2B	YES	15
514	meth_COL13A1	meth	COL13A1	YES	23
515	meth_ETAA1	meth	ETAA1	YES	9
515	meth_LOXL4	meth	LOXL4	YES	13
516	meth_IFT81	meth	IFT81	YES	15
517	meth_B3GAT3	meth	B3GAT3	YES	22
517	mrna_RFC3	mrna	RFC3	YES	24
518	cnv_GGNBP2	cnv	GGNBP2	YES	13
518	meth_IQGAP2	meth	IQGAP2	YES	25
519	meth_C14orf37	meth	C14orf37	YES	2
520	meth_BMI1	meth	BMI1	YES	23
520	mrna_TRMT1L	mrna	TRMT1L	YES	11
521	meth_HPGD	meth	HPGD	YES	32
521	meth_PMS2P3	meth	PMS2P3	NO	0
522	meth_SLMO1	meth	SLMO1	YES	1
522	meth_ZNF490	meth	ZNF490	YES	9
523	meth_UIMC1	meth	UIMC1	YES	20
523	mrna_LAMA1	mrna	LAMA1	YES	28
524	meth_DDIT4	meth	DDIT4	YES	24
524	mrna_DKC1	mrna	DKC1	YES	38
525	meth_EARS2	meth	EARS2	YES	18
525	meth_ERBB4	meth	ERBB4	YES	77
526	mrna_LINC01151	mrna	LINC01151	NO	0
527	meth_NFKBIA	meth	NFKBIA	YES	58
527	mrna_MELK	mrna	MELK	YES	30
528	meth_BTAF1	meth	BTAF1	YES	12
528	meth_FAM78A	meth	FAM78A	NO	0
529	meth_TMEM135	meth	TMEM135	YES	11
529	meth_TMEM168	meth	TMEM168	YES	3
530	meth_CASP10	meth	CASP10	YES	19
530	meth_SLC1A4	meth	SLC1A4	YES	37
531	meth_RBL2	meth	RBL2	YES	18
531	meth_YIPF1	meth	YIPF1	YES	6
532	meth_GNAI1	meth	GNAI1	YES	44
533	meth_CCBL1	meth	CCBL1	YES	23
534	meth_SVIL	meth	SVIL	YES	22
534	mrna_ZDHHC24	mrna	ZDHHC24	YES	6
535	meth_CTD-2616J11.10	meth	CTD-2616J11.10	NO	0
535	meth_TXLNA	meth	TXLNA	YES	10
536	meth_AC024592.12	meth	AC024592.12	NO	0
536	meth_DDX25	meth	DDX25	YES	23
537	meth_BHLHE22	meth	BHLHE22	YES	17

538	meth_PCNX	meth	PCNX	YES	1
538	meth_SUN1	meth	SUN1	YES	26
539	meth_AC062017.1	meth	AC062017.1	NO	0
539	meth_CASP1	meth	CASP1	YES	50
540	meth_GRHPR	meth	GRHPR	YES	23
540	meth_MRPS16	meth	MRPS16	YES	13
541	meth_RNF144A	meth	RNF144A	YES	18
541	mrna_CTCFL	mrna	CTCFL	YES	23
542	meth_C17orf75	meth	C17orf75	YES	3
543	meth_BCL6	meth	BCL6	YES	61
543	meth_EIF4E	meth	EIF4E	YES	34
544	meth_EZH2	meth	EZH2	YES	69
544	meth_HUNK	meth	HUNK	YES	13
545	meth_MIR548AL	meth	MIR548AL	NO	0
546	meth_MIS18A	meth	MIS18A	YES	16
546	meth_PHF1	meth	PHF1	YES	21
547	meth_NOD1	meth	NOD1	YES	52
547	meth_OSBPL6	meth	OSBPL6	YES	17
548	meth_KIF9	meth	KIF9	YES	18
548	mrna_SACM1L	mrna	SACM1L	YES	19
549	meth_FAM69B	meth	FAM69B	YES	5
549	meth_KLHDC1	meth	KLHDC1	YES	2
550	meth_CYB5RL	meth	CYB5RL	YES	5
550	meth_RP11-732A19.9	meth	RP11-732A19.9	NO	0
551	meth_ORC1	meth	ORC1	YES	19
551	meth_RAB7A	meth	RAB7A	YES	61
552	meth_DTNB	meth	DTNB	YES	5
552	meth_SLC10A7	meth	SLC10A7	YES	7
553	meth_GJA1	meth	GJA1	YES	88
554	meth_CTD-3131K8.2	meth	CTD-3131K8.2	NO	0
554	meth_PDGFB	meth	PDGFB	YES	101
555	meth_GABRB1	meth	GABRB1	YES	35
555	meth_RP11-618G20.1	meth	RP11-618G20.1	NO	0
556	cnv_RAPSN	cnv	RAPSN	YES	22
556	meth_FASTKD3	meth	FASTKD3	YES	7
557	meth_DTD1	meth	DTD1	YES	15
557	meth_SNRPB	meth	SNRPB	YES	35
558	meth_RPS6KA4	meth	RPS6KA4	YES	29
559	meth_UBXN1	meth	UBXN1	YES	22
559	mrna_POC1A	mrna	POC1A	YES	15
560	meth_FNTA	meth	FNTA	YES	30
560	meth_IGHMBP2	meth	IGHMBP2	YES	34
561	meth_ANKRD40	meth	ANKRD40	YES	4
561	meth_MRPL50	meth	MRPL50	YES	7
562	meth_CNOT4	meth	CNOT4	YES	15
563	meth_C3orf58	meth	C3orf58	YES	9
563	meth_MAPRE1	meth	MAPRE1	YES	34
564	meth_HSPB1	meth	HSPB1	YES	50
564	meth_ITPR1	meth	ITPR1	YES	50
566	meth_RP11-483I13.5	meth	RP11-483I13.5	NO	0
566	meth_XRN1	meth	XRN1	YES	33
567	meth_TNFRSF21	meth	TNFRSF21	YES	34
567	stv_RBM10	stv	RBM10	YES	19
568	meth_ACSS3	meth	ACSS3	YES	9
568	mrna_SYT17	mrna	SYT17	YES	17
569	meth_C9orf16	meth	C9orf16	YES	4
569	meth_LETMD1	meth	LETMD1	YES	9
570	meth_DOPEY1	meth	DOPEY1	YES	8
570	meth_TRMT1	meth	TRMT1	YES	15
571	meth_ITFG1-AS1	meth	ITFG1-AS1	NO	0

572	meth_DNAJA3	meth	DNAJA3	YES	52
572	mrna_LINC00840	mrna	LINC00840	NO	0
573	meth_ASB8	meth	ASB8	YES	5
573	meth_GLYR1	meth	GLYR1	YES	14
574	meth_MINPP1	meth	MINPP1	YES	18
574	meth_MUS81	meth	MUS81	YES	25
575	meth_AMACR	meth	AMACR	YES	14
575	mirna_MIR505	mirna	MIR505	YES	1
576	meth_KRT18	meth	KRT18	YES	29
576	meth_PFDN4	meth	PFDN4	YES	11
577	meth_SIRT1	meth	SIRT1	YES	166
578	cnv_TADA2A	cnv	TADA2A	YES	25
578	meth_NEK2	meth	NEK2	YES	50
579	meth_AC007255.8	meth	AC007255.8	NO	0
579	meth_AC010884.1	meth	AC010884.1	NO	0
580	meth_BUB1B	meth	BUB1B	YES	40
581	meth_PAIP1	meth	PAIP1	YES	14
581	meth_YIPF4	meth	YIPF4	YES	7
582	meth_CTDP1	meth	CTDP1	YES	30
583	meth_EBPL	meth	EBPL	YES	6
583	meth_GRIK1	meth	GRIK1	YES	30
584	cnv_TBC1D3B	cnv	TBC1D3B	YES	9
584	meth_EMP2	meth	EMP2	YES	42
585	meth_ARPC5L	meth	ARPC5L	YES	14
585	meth_PHKG2	meth	PHKG2	YES	25
586	meth_ATL2	meth	ATL2	YES	13
586	meth_WFDC10A	meth	WFDC10A	YES	5
587	cnv_TRIM74	cnv	TRIM74	YES	4
588	meth_CYP20A1	meth	CYP20A1	YES	9
588	mrna_BEAN1	mrna	BEAN1	YES	3
589	meth_AIF1L	meth	AIF1L	YES	15
589	meth_TESK2	meth	TESK2	YES	22
590	meth_TPI1	meth	TPI1	YES	19
591	meth_CHP2	meth	CHP2	YES	15
591	meth_TRIM27	meth	TRIM27	YES	45
592	meth_ILF2	meth	ILF2	YES	20
593	cnv_OR10AG1	cnv	OR10AG1	YES	11
593	meth_CSRP1	meth	CSRP1	YES	7
594	meth_ADCK4	meth	ADCK4	YES	4
595	meth_ACTR3B	meth	ACTR3B	YES	12
595	meth_DZANK1	meth	DZANK1	YES	1
596	meth_PCDH20	meth	PCDH20	YES	7
596	stv_PAPOLB	stv	PAPOLB	YES	14
597	meth_ADAMTS15	meth	ADAMTS15	YES	14
597	meth_KIF14	meth	KIF14	YES	51
598	meth_PAK7	meth	PAK7	YES	18
598	meth_PCDHB1	meth	PCDHB1	YES	9
599	meth_DPH2	meth	DPH2	YES	5
599	meth_JAM3	meth	JAM3	YES	34
600	meth_C9orf156	meth	C9orf156	YES	2
600	meth_COQ10B	meth	COQ10B	YES	6
601	meth_CBX1	meth	CBX1	YES	18
601	meth_LPPR2	meth	LPPR2	NO	0
602	meth_MAN1B1	meth	MAN1B1	YES	25
602	meth_MCAT	meth	MCAT	YES	11
603	meth_CPNE1	meth	CPNE1	YES	34
603	meth_RP11-126K1.2	meth	RP11-126K1.2	NO	0
604	cnv_PACSIN3	cnv	PACSIN3	YES	17
605	meth_FER	meth	FER	YES	66
606	meth_COQ6	meth	COQ6	YES	12

606	meth_PCIF1	meth	PCIF1	YES	5
607	meth_DCUN1D4	meth	DCUN1D4	YES	10
607	mrna_ZNHIT2	mrna	ZNHIT2	YES	2
608	meth_AGO1	meth	AGO1	YES	40
608	meth_TAF7	meth	TAF7	YES	36
609	meth_WDR86	meth	WDR86	YES	1
609	mrna_AC006273.5	mrna	AC006273.5	NO	0
610	meth_GTPBP2	meth	GTPBP2	YES	9
611	meth_ATP6V0E1	meth	ATP6V0E1	YES	21
611	meth_MTO1	meth	MTO1	YES	9
612	meth_CTC-308K20.1	meth	CTC-308K20.1	NO	0
613	meth_KCNJ6	meth	KCNJ6	YES	14
614	meth_TANGO2	meth	TANGO2	YES	1
614	mrna_RP11-643A5.3	mrna	RP11-643A5.3	NO	0
615	meth_CTD-2323K18.1	meth	CTD-2323K18.1	NO	0
615	meth_LTA4H	meth	LTA4H	YES	27
616	meth_BRI3	meth	BRI3	YES	6
617	meth_CASC4	meth	CASC4	YES	3
617	meth_CIRH1A	meth	CIRH1A	YES	7
618	meth_CTD-2105E13.16	meth	CTD-2105E13.16	NO	0
618	meth_HMCES	meth	HMCES	YES	4
619	meth_CTD-2186M15.3	meth	CTD-2186M15.3	NO	0
619	meth_HELB	meth	HELB	YES	24
620	meth_MGME1	meth	MGME1	YES	12
620	meth_MIR5696	meth	MIR5696	NO	0
621	meth_ITFG3	meth	ITFG3	YES	1
621	meth_SCARB1	meth	SCARB1	YES	60
622	meth_AC103563.8	meth	AC103563.8	NO	0
622	meth_SMAD3	meth	SMAD3	YES	136
623	meth_APBB1	meth	APBB1	YES	47
623	meth_RIPK2	meth	RIPK2	YES	82
624	meth_SAMD12	meth	SAMD12	YES	3
625	meth_NCOA6	meth	NCOA6	YES	31
625	meth_RAPGEF3	meth	RAPGEF3	YES	35
626	meth_LNP1	meth	LNP1	NO	0
626	meth_PKN2	meth	PKN2	YES	43
627	meth_BMP4	meth	BMP4	YES	208
628	meth_PDHB	meth	PDHB	YES	22
629	meth_UHMK1	meth	UHMK1	YES	31
629	meth_ZCCHC9	meth	ZCCHC9	YES	8
630	meth_AJUBA	meth	AJUBA	YES	48
630	meth_NMU	meth	NMU	YES	20
631	meth_KCNIP2	meth	KCNIP2	YES	34
631	meth_TBL2	meth	TBL2	YES	9
632	meth_AP5S1	meth	AP5S1	YES	18
632	meth_RFK	meth	RFK	YES	16
633	meth_GTF2H1	meth	GTF2H1	YES	33
633	meth_TSEN2	meth	TSEN2	YES	17
634	meth_NOS1	meth	NOS1	YES	74
635	meth_DCDC1	meth	DCDC1	YES	2
635	meth_MAP4K4	meth	MAP4K4	YES	22
636	meth_MSI2	meth	MSI2	YES	8
636	mrna_DBF4	mrna	DBF4	YES	11
637	meth_WDR75	meth	WDR75	YES	12
637	mrna_SMU1	mrna	SMU1	YES	3
638	meth_COL9A3	meth	COL9A3	YES	10
639	meth_TFAP2D	meth	TFAP2D	YES	14
640	meth_COASY	meth	COASY	YES	19
640	meth_RP11-296E3.2	meth	RP11-296E3.2	NO	0
641	meth_GPATCH2L	meth	GPATCH2L	YES	1

641	meth_IGSF3	meth	IGSF3	YES	7
642	meth_RP11-730K11.1	meth	RP11-730K11.1	NO	0
642	meth_SLC12A7	meth	SLC12A7	YES	18
643	meth_KRI1	meth	KRI1	YES	4
643	meth_RXRA	meth	RXRA	YES	63
644	meth_DSEL	meth	DSEL	YES	9
644	meth_NUBP1	meth	NUBP1	YES	23
645	meth_AURKA	meth	AURKA	YES	76
645	meth_NXT1	meth	NXT1	YES	14
646	meth_CNPY4	meth	CNPY4	YES	2
646	meth_PPIB	meth	PPIB	YES	27
647	meth_POP5	meth	POP5	YES	16
647	mrna_AURKAIP1	mrna	AURKAIP1	YES	15
648	meth_RFC4	meth	RFC4	YES	25
648	mrna_B3GAT3	mrna	B3GAT3	YES	22
649	meth_AKAP12	meth	AKAP12	YES	16
650	meth_DCAF16	meth	DCAF16	YES	5
651	meth_ALOX5	meth	ALOX5	YES	28
651	mrna_RP11-48B3.4	mrna	RP11-48B3.4	NO	0
652	meth_CTD-2265O21.7	meth	CTD-2265O21.7	NO	0
653	meth_FLAD1	meth	FLAD1	YES	16
653	meth_RP11-710C12.1	meth	RP11-710C12.1	NO	0
654	meth_BIRC2	meth	BIRC2	YES	64
654	meth_UACA	meth	UACA	YES	21
655	meth_NR4A3	meth	NR4A3	YES	70
655	meth_SFT2D2	meth	SFT2D2	YES	8
656	meth_KCNMA1	meth	KCNMA1	YES	49
656	meth_TRIB1	meth	TRIB1	YES	23
657	meth_MARCH8	meth	MARCH8	YES	16
658	cnv_FOLH1	cnv	FOLH1	YES	22
659	meth_RNASET2	meth	RNASET2	YES	19
660	meth_ACIN1	meth	ACIN1	YES	23
660	stv_OR5AC1	stv	OR5AC1	NO	0
661	cnv_SLC35C1	cnv	SLC35C1	YES	10
661	meth_NR1D2	meth	NR1D2	YES	28
663	meth_CD55	meth	CD55	YES	37
663	meth_UBTF	meth	UBTF	YES	18
664	meth_FOXD1	meth	FOXD1	YES	28
664	mrna_RP11-480I12.5	mrna	RP11-480I12.5	NO	0
665	meth_OVOL1	meth	OVOL1	YES	19
665	mrna_RFK	mrna	RFK	YES	16
666	meth_ABI1	meth	ABI1	YES	39
666	meth_CEP85	meth	CEP85	YES	14
667	meth_CYSTM1	meth	CYSTM1	YES	8
667	meth_INTS3	meth	INTS3	YES	13
668	meth_RP3-441A12.1	meth	RP3-441A12.1	NO	0
668	mrna_LINC01296	mrna	LINC01296	NO	0
669	meth_MAGOH	meth	MAGOH	YES	21
669	mrna_SPATA13	mrna	SPATA13	YES	19
670	meth_MLEC	meth	MLEC	YES	11
670	meth_NOL6	meth	NOL6	YES	12
671	meth_ACTN1	meth	ACTN1	YES	44
672	meth_GPR78	meth	GPR78	YES	9
673	meth_RP11-99E15.2	meth	RP11-99E15.2	NO	0
673	mrna_RQCD1	mrna	RQCD1	YES	19
674	meth_ADCK3	meth	ADCK3	YES	6
674	meth_NPR2	meth	NPR2	YES	31
675	meth_RP11-262H14.3	meth	RP11-262H14.3	NO	0
675	mrna_RP11-408O19.5	mrna	RP11-408O19.5	NO	0
676	meth_RPL6	meth	RPL6	YES	22

676	meth_ZFAND1	meth	ZFAND1	YES	2
677	meth_AC004221.2	meth	AC004221.2	NO	0
678	meth_IL6R	meth	IL6R	YES	39
678	meth_PIGP	meth	PIGP	YES	10
679	meth_FAM220A	meth	FAM220A	YES	5
679	mrna_GCA	mrna	GCA	YES	16
680	mrna_LYPLA2	mrna	LYPLA2	YES	11
680	mrna_MAGEA9	mrna	MAGEA9	YES	4
681	meth_RAB1A	meth	RAB1A	YES	40
681	meth_TIMM10	meth	TIMM10	YES	19
682	meth_WNK2	meth	WNK2	YES	18
683	meth_COX6B1	meth	COX6B1	YES	8
683	meth_HNRNPR	meth	HNRNPR	YES	24
684	meth_C1orf27	meth	C1orf27	YES	3
684	mrna_RAB5B	mrna	RAB5B	YES	25
685	meth_GPX1	meth	GPX1	YES	70
685	meth_RPS15A	meth	RPS15A	YES	22
686	meth_GATA3	meth	GATA3	YES	152
686	meth_PHF20L1	meth	PHF20L1	YES	4
687	meth_B4GALT5	meth	B4GALT5	YES	15
687	meth_TAF11	meth	TAF11	YES	19
688	meth_C5	meth	C5	YES	31
689	meth_SRP54	meth	SRP54	YES	25
690	meth_SMAD6	meth	SMAD6	YES	49
690	mrna_PARP2	mrna	PARP2	YES	18
691	meth_STK35	meth	STK35	YES	12
691	mrna_LINC00926	mrna	LINC00926	NO	0
692	meth_ABHD2	meth	ABHD2	YES	21
692	meth_SLC38A1	meth	SLC38A1	YES	24
693	meth_AIDA	meth	AIDA	YES	12
693	meth_F5	meth	F5	YES	25
694	mrna_AIFM1	mrna	AIFM1	YES	34
695	meth_HIST1H3B	meth	HIST1H3B	YES	32
695	meth_NELFA	meth	NELFA	YES	16
696	meth_KLHL26	meth	KLHL26	YES	7
696	meth_MRPS35	meth	MRPS35	YES	10
697	cnv_CREB3L1	cnv	CREB3L1	YES	25
697	meth_NUDT8	meth	NUDT8	YES	3
698	meth_DNAJB12	meth	DNAJB12	YES	13
698	meth_POLR2C	meth	POLR2C	YES	24
699	meth_DCUN1D5	meth	DCUN1D5	YES	12
699	meth_FKBP14	meth	FKBP14	YES	11
700	meth_BTBD11	meth	BTBD11	YES	10
700	meth_RAP2A	meth	RAP2A	YES	27
701	meth_PTP4A2	meth	PTP4A2	YES	17
701	meth_RP11-35N6.1	meth	RP11-35N6.1	NO	0
702	meth_FLYWCH2	meth	FLYWCH2	YES	3
702	mrna_ASB8	mrna	ASB8	YES	5
703	meth_RFXAP	meth	RFXAP	YES	6
703	meth_SSBP2	meth	SSBP2	YES	9
704	meth_FBXO5	meth	FBXO5	YES	26
704	meth_ISCU	meth	ISCU	YES	18
705	meth_GABRA6	meth	GABRA6	YES	21
705	meth_MTA2	meth	MTA2	YES	33
706	meth_C4orf46	meth	C4orf46	YES	2
707	meth_NOC3L	meth	NOC3L	YES	7
707	meth_SOX21	meth	SOX21	YES	16
708	meth_SUSD3	meth	SUSD3	YES	3
709	meth_IFT27	meth	IFT27	YES	22
709	mrna_TRIM31-AS1	mrna	TRIM31-AS1	NO	0

710	meth_FBXO24	meth	FBXO24	YES	4
711	meth_PQLC3	meth	PQLC3	YES	3
711	stv_SLC7A10	stv	SLC7A10	YES	19
712	meth_RBPJ	meth	RBPJ	YES	85
713	meth_G3BP2	meth	G3BP2	YES	14
713	meth_TRIP13	meth	TRIP13	YES	20
714	meth_CRLS1	meth	CRLS1	YES	18
714	meth_TALDO1	meth	TALDO1	YES	18
715	meth_ASNS	meth	ASNS	YES	28
716	meth_ACSL3	meth	ACSL3	YES	35
717	meth_AVL9	meth	AVL9	YES	5
717	meth_ZMYM4	meth	ZMYM4	YES	11
718	meth_GDA	meth	GDA	YES	13
719	meth_MAPK11	meth	MAPK11	YES	41
719	meth_RP11-244H3.4	meth	RP11-244H3.4	NO	0
720	mrna_RP11-519G16.3	mrna	RP11-519G16.3	NO	0
720	mrna_RP11-727F15.11	mrna	RP11-727F15.11	NO	0
721	meth_INO80B-WBP1	meth	INO80B-WBP1	YES	3
721	meth_MAPK10	meth	MAPK10	YES	37
722	meth_FXN	meth	FXN	YES	42
722	meth_TOMM34	meth	TOMM34	YES	11
723	meth_RP3-465N24.6	meth	RP3-465N24.6	NO	0
723	stv_PAQR3	stv	PAQR3	YES	11
724	meth_JAZF1	meth	JAZF1	YES	11
724	mrna_RP11-330O11.3	mrna	RP11-330O11.3	NO	0
725	meth_BAI3	meth	BAI3	YES	10
725	meth_ESRRA	meth	ESRRA	YES	35
726	meth_PAPD4	meth	PAPD4	YES	18
727	meth_GCLM	meth	GCLM	YES	30
727	meth_TEX9	meth	TEX9	YES	2
728	meth_RP11-438J1.1	meth	RP11-438J1.1	NO	0
728	mrna_AP000697.6	mrna	AP000697.6	NO	0
729	meth_CLU	meth	CLU	YES	80
729	meth_TWF1	meth	TWF1	YES	22
730	meth_OSTC	meth	OSTC	YES	8
730	meth_SART3	meth	SART3	YES	27
731	cnv_snoU13|ENSG00000252447.1	cnv	snoU13|ENSG00000252447.1	NO	0
731	meth_HAS2	meth	HAS2	YES	32
732	meth_MRPL4	meth	MRPL4	YES	12
733	meth_CXCR2	meth	CXCR2	YES	38
733	meth_TRNT1	meth	TRNT1	YES	19
734	mrna_OR52N4	mrna	OR52N4	YES	11
735	meth_B3GNTL1	meth	B3GNTL1	YES	2
736	meth_ACTC1	meth	ACTC1	YES	35
736	meth_SNORD22	meth	SNORD22	NO	0
737	meth_ASNSD1	meth	ASNSD1	YES	8
737	meth_KDM4B	meth	KDM4B	YES	17
738	meth_ADRA2A	meth	ADRA2A	YES	67
738	meth_ALG2	meth	ALG2	YES	21
739	meth_SLC5A7	meth	SLC5A7	YES	27
740	meth_AC005592.2	meth	AC005592.2	NO	0
740	meth_DECR2	meth	DECR2	YES	11
741	meth_C3orf18	meth	C3orf18	YES	2
741	mirna_MIR3909	mirna	MIR3909	NO	0
742	meth_IFNLR1	meth	IFNLR1	YES	12
742	meth_NBAS	meth	NBAS	YES	13
743	meth_CSNK1G1	meth	CSNK1G1	YES	18
743	meth_DMRTC2	meth	DMRTC2	YES	14
744	meth_FAH	meth	FAH	YES	12
744	meth_LINC01185	meth	LINC01185	NO	0

745	meth_DAZAP1	meth	DAZAP1	YES	13
745	meth_RP11-297K8.2	meth	RP11-297K8.2	NO	0
746	meth_GMPPB	meth	GMPPB	YES	11
746	meth_PPP3R1	meth	PPP3R1	YES	21
747	meth_CCT4	meth	CCT4	YES	31
747	mrna_OSGEP	mrna	OSGEP	YES	13
748	meth_IGFBP7	meth	IGFBP7	YES	20
748	meth_UBXN4	meth	UBXN4	YES	9
749	meth_TNFRSF1A	meth	TNFRSF1A	YES	53
749	mrna_SNX29P2	mrna	SNX29P2	NO	0
750	meth_SEC23IP	meth	SEC23IP	YES	19
750	meth_SNRPG	meth	SNRPG	YES	30
751	meth_BAX	meth	BAX	YES	135
751	meth_RPUSD4	meth	RPUSD4	YES	8
752	meth_PCGF5	meth	PCGF5	YES	9
752	meth_ZNF540	meth	ZNF540	YES	16
753	meth_C1QTNF9B-AS1	meth	C1QTNF9B-AS1	NO	0
753	mrna_TADA2B	mrna	TADA2B	YES	20
754	meth_ANKS3	meth	ANKS3	YES	1
754	mrna_TESC	mrna	TESC	YES	34
756	meth_ANK3	meth	ANK3	YES	64
756	meth_RIC8B	meth	RIC8B	YES	10
757	meth_CDS1	meth	CDS1	YES	17
757	meth_DIABLO	meth	DIABLO	YES	17
758	meth_LRRC28	meth	LRRC28	YES	1
758	meth_USF2	meth	USF2	YES	23
759	meth_CETN3	meth	CETN3	YES	18
760	meth_C19orf44	meth	C19orf44	YES	1
760	meth_PDXK	meth	PDXK	YES	26
761	meth_RPS27	meth	RPS27	YES	25
762	meth_TCF25	meth	TCF25	YES	10
762	meth_ZNF180	meth	ZNF180	YES	8
763	cnv_SNORD67|ENSG00000212135.1	cnv	SNORD67|ENSG00000212135.1	NO	0
763	meth_CDK5RAP2	meth	CDK5RAP2	YES	39
764	meth_C1QBP	meth	C1QBP	YES	52
764	meth_IMPDH1	meth	IMPDH1	YES	22
765	meth_MRPL9	meth	MRPL9	YES	13
765	meth_RELT	meth	RELT	YES	15
766	meth_GABRG1	meth	GABRG1	YES	20
767	meth_EXT2	meth	EXT2	YES	27
767	meth_RP1-27O5.3	meth	RP1-27O5.3	NO	0
768	meth_KCNV1	meth	KCNV1	YES	19
768	meth_TMEFF2	meth	TMEFF2	YES	8
769	meth_BOC	meth	BOC	YES	14
769	meth_KCNS3	meth	KCNS3	YES	21
770	meth_FOXN3	meth	FOXN3	YES	14
770	meth_UBE2D2	meth	UBE2D2	YES	22
771	meth_BECN1	meth	BECN1	YES	75
772	meth_CLASP2	meth	CLASP2	YES	52
773	meth_MBD2	meth	MBD2	YES	42
773	mrna_RIOK1	mrna	RIOK1	YES	19
774	meth_NOLC1	meth	NOLC1	YES	19
774	meth_TMEM71	meth	TMEM71	YES	3
775	meth_ACBD5	meth	ACBD5	YES	13
775	meth_PCDH9	meth	PCDH9	YES	9
776	meth_ARL6IP6	meth	ARL6IP6	YES	2
776	meth_CTDSP1	meth	CTDSP1	YES	16
777	meth_GOLGA4	meth	GOLGA4	YES	14
778	meth_AL157902.3	meth	AL157902.3	NO	0
778	meth_HLA-DPA1	meth	HLA-DPA1	YES	35

779	meth_RGL2	meth	RGL2	YES	13
779	meth_ZFYVE26	meth	ZFYVE26	YES	16
780	mrna_ARHGEF39	mrna	ARHGEF39	YES	8
781	meth_AC007319.1	meth	AC007319.1	NO	0
781	meth_FMO4	meth	FMO4	YES	13
782	meth_SLC25A3	meth	SLC25A3	YES	14
782	meth_TMED4	meth	TMED4	YES	10
783	meth_INTS10	meth	INTS10	YES	6
783	meth_RNF19B	meth	RNF19B	YES	17
784	meth_MTTP	meth	MTTP	YES	31
784	meth_NPAS1	meth	NPAS1	YES	14
785	meth_CTD-2260A17.2	meth	CTD-2260A17.2	NO	0
785	meth_SNRNP40	meth	SNRNP40	YES	18
786	meth_NFASC	meth	NFASC	YES	31
787	meth_TMC6	meth	TMC6	YES	16
788	meth_USP1	meth	USP1	YES	20
789	meth_BCL2	meth	BCL2	YES	173
789	meth_NELL2	meth	NELL2	YES	5
790	meth_FNDC4	meth	FNDC4	YES	4
791	meth_AC144652.1	meth	AC144652.1	NO	0
791	meth_RP11-156P1.2	meth	RP11-156P1.2	NO	0
792	meth_AC079610.2	meth	AC079610.2	NO	0
792	mrna_SLC43A3	mrna	SLC43A3	YES	6
793	meth_NPAS3	meth	NPAS3	YES	14
793	mrna_ARL10	mrna	ARL10	YES	4
794	meth_HINT1	meth	HINT1	YES	18
794	meth_IFNAR1	meth	IFNAR1	YES	28
795	meth_CDK5	meth	CDK5	YES	121
795	meth_PPFIA1	meth	PPFIA1	YES	14
796	meth_FAM189B	meth	FAM189B	YES	5
797	meth_CHKB-AS1	meth	CHKB-AS1	NO	0
797	meth_UQCR10	meth	UQCR10	YES	12
798	meth_AIMP2	meth	AIMP2	YES	18
798	mrna_RP11-809O17.1	mrna	RP11-809O17.1	NO	0
799	meth_SPRYD7	meth	SPRYD7	YES	1
800	meth_ACTR6	meth	ACTR6	YES	5
800	meth_RANBP6	meth	RANBP6	YES	12
801	meth_KCNQ5	meth	KCNQ5	YES	17
801	meth_SMARCA4	meth	SMARCA4	YES	68
802	meth_NT5C1B-RDH14	meth	NT5C1B-RDH14	YES	7
803	meth_HDGF	meth	HDGF	YES	19
804	meth_CHPF	meth	CHPF	YES	16
804	meth_SKAP1	meth	SKAP1	YES	22
805	meth_KCNG1	meth	KCNG1	YES	17
806	meth_ENC1	meth	ENC1	YES	17
806	meth_WNT7A	meth	WNT7A	YES	78
807	meth_NANS	meth	NANS	YES	10
807	meth_SMPD1	meth	SMPD1	YES	30
808	meth_PLA2G4C	meth	PLA2G4C	YES	23
808	meth_RP11-697E22.1	meth	RP11-697E22.1	NO	0
809	meth_CES2	meth	CES2	YES	8
809	meth_ZFYVE16	meth	ZFYVE16	YES	18
810	meth_ADD1	meth	ADD1	YES	41
810	meth_ARG2	meth	ARG2	YES	12
811	meth_CDC5L	meth	CDC5L	YES	44
811	mrna_IGFL4	mrna	IGFL4	YES	2
812	meth_AF213884.2	meth	AF213884.2	NO	0
812	mrna_PARP14	mrna	PARP14	YES	11
813	meth_APBB2	meth	APBB2	YES	18
813	meth_CTC-444N24.6	meth	CTC-444N24.6	NO	0

814	meth_YWHAQ	meth	YWHAQ	YES	21
815	meth_DEDD	meth	DEDD	YES	14
816	meth_HLA-DMB	meth	HLA-DMB	YES	17
816	meth_SSR3	meth	SSR3	YES	7
817	meth_TM6SF1	meth	TM6SF1	YES	7
817	meth_TMED3	meth	TMED3	YES	17
818	meth_BTBD8	meth	BTBD8	YES	7
820	meth_NEGR1	meth	NEGR1	YES	12
820	meth_PAPOLA	meth	PAPOLA	YES	21
821	meth_PYCARD	meth	PYCARD	YES	76
821	mrna_CDX1	mrna	CDX1	YES	20
822	mrna_BICD1	mrna	BICD1	YES	34
823	meth_ADAMTS1	meth	ADAMTS1	YES	20
823	meth_GIT2	meth	GIT2	YES	9
824	meth_GSTCD	meth	GSTCD	YES	8
824	meth_PALM2	meth	PALM2	YES	3
825	meth_AK7	meth	AK7	YES	19
825	meth_AKR7A2	meth	AKR7A2	YES	16
826	mrna_NR1H2	mrna	NR1H2	YES	49
826	stv_RP4-576H24.4	stv	RP4-576H24.4	NO	0
827	meth_SULF1	meth	SULF1	YES	37
827	meth_UBB	meth	UBB	YES	105
828	mrna_HHLA3	mrna	HHLA3	YES	1
828	mrna_KB-431C1.4	mrna	KB-431C1.4	NO	0
829	cnv_OR4C46	cnv	OR4C46	YES	13
829	meth_NPHP3	meth	NPHP3	YES	27
831	meth_RPL28	meth	RPL28	YES	21
831	meth_TBC1D4	meth	TBC1D4	YES	17
832	meth_C18orf32	meth	C18orf32	YES	3
832	meth_PUS1	meth	PUS1	YES	15
833	meth_HSBP1	meth	HSBP1	YES	10
833	meth_TRAPPC10	meth	TRAPPC10	YES	19
834	meth_BCAS2	meth	BCAS2	YES	15
834	mrna_RP11-148O21.2	mrna	RP11-148O21.2	NO	0
835	meth_KLHL11	meth	KLHL11	YES	9
835	mrna_MIA3	mrna	MIA3	YES	22
836	meth_C14orf166	meth	C14orf166	YES	18
836	meth_GNA15	meth	GNA15	YES	20
837	meth_CCDC115	meth	CCDC115	YES	14
837	meth_DDX6	meth	DDX6	YES	32
838	meth_EEF1E1-BLOC1S5	meth	EEF1E1-BLOC1S5	YES	3
838	meth_FOXJ3	meth	FOXJ3	YES	12
839	meth_PRDX5	meth	PRDX5	YES	32
839	meth_ZNF213	meth	ZNF213	YES	8
840	cnv_C11orf94	cnv	C11orf94	YES	1
840	meth_DDA1	meth	DDA1	YES	4
841	meth_EPHA1	meth	EPHA1	YES	34
841	meth_PIDD1	meth	PIDD1	YES	19
842	meth_C21orf91	meth	C21orf91	NO	0
842	meth_FLJ42393	meth	FLJ42393	NO	0
843	meth_DNAH9	meth	DNAH9	YES	20
843	mrna_CCND3	mrna	CCND3	YES	21
844	meth_DLG1	meth	DLG1	YES	105
844	meth_POLR3E	meth	POLR3E	YES	12
845	meth_PINK1	meth	PINK1	YES	111
845	meth_SLC16A13	meth	SLC16A13	YES	11
846	meth_FAM8A1	meth	FAM8A1	YES	2
846	mrna_NAGPA	mrna	NAGPA	YES	14
847	meth_NDUFB6	meth	NDUFB6	YES	13
847	meth_RIC8A	meth	RIC8A	YES	18

848	meth_RRAGA	meth	RRAGA	YES	30
848	meth_ST6GAL2	meth	ST6GAL2	YES	17
849	meth_GLYAT	meth	GLYAT	YES	13
849	meth_YTHDC2	meth	YTHDC2	YES	16
850	meth_CWC27	meth	CWC27	YES	8
851	meth_AC012314.20	meth	AC012314.20	NO	0
851	meth_DPY30	meth	DPY30	YES	20
852	meth_STAT6	meth	STAT6	YES	36
853	meth_LMTK2	meth	LMTK2	YES	28
853	meth_LYSMD1	meth	LYSMD1	YES	1
854	meth_STIP1	meth	STIP1	YES	12
855	meth_CLHC1	meth	CLHC1	YES	1
855	meth_MTX1	meth	MTX1	YES	7
856	meth_FUCA2	meth	FUCA2	YES	18
856	mrna_ADPRHL2	mrna	ADPRHL2	YES	10
857	meth_P4HTM	meth	P4HTM	YES	14
857	meth_TMEM52	meth	TMEM52	YES	2
858	meth_FH	meth	FH	YES	13
858	mrna_LYN	mrna	LYN	YES	134
859	mrna_MGAT2	mrna	MGAT2	YES	14
860	meth_PRPF19	meth	PRPF19	YES	41
860	meth_ZSCAN25	meth	ZSCAN25	YES	8
861	meth_DGKG	meth	DGKG	YES	21
861	meth_MIR4522	meth	MIR4522	NO	0
862	meth_IGF2BP3	meth	IGF2BP3	YES	17
863	meth_CAMKMT	meth	CAMKMT	YES	14
863	meth_WBP4	meth	WBP4	YES	13
864	meth_ALOXE3	meth	ALOXE3	YES	24
864	meth_COPZ1	meth	COPZ1	YES	19
865	meth_CDC42BPB	meth	CDC42BPB	YES	29
865	meth_FAM73B	meth	FAM73B	YES	2
866	meth_SORBS1	meth	SORBS1	YES	36
866	meth_Z93930.1	meth	Z93930.1	NO	0
867	meth_CTD-2510F5.6	meth	CTD-2510F5.6	NO	0
867	meth_KIF2C	meth	KIF2C	YES	40
868	meth_RBL1	meth	RBL1	YES	18
868	mrna_RP11-330M19.1	mrna	RP11-330M19.1	NO	0
869	meth_C17orf80	meth	C17orf80	YES	5
869	meth_CFL1	meth	CFL1	YES	41
870	meth_CEP162	meth	CEP162	YES	13
870	meth_CLDND1	meth	CLDND1	YES	4
871	meth_ARID5A	meth	ARID5A	YES	22
871	meth_EIF4EBP2	meth	EIF4EBP2	YES	18
872	cnv_ZNHIT3	cnv	ZNHIT3	YES	5
872	meth_ETV5	meth	ETV5	YES	24
873	meth_EBAG9	meth	EBAG9	YES	9
873	meth_PFDN5	meth	PFDN5	YES	13
874	meth_DEGS2	meth	DEGS2	YES	13
874	meth_ZNF333	meth	ZNF333	YES	7
875	meth_FLNB	meth	FLNB	YES	30
875	meth_RNF215	meth	RNF215	YES	4
876	meth_FAM103A1	meth	FAM103A1	YES	12
876	meth_MED22	meth	MED22	YES	8
877	meth_CSTF3	meth	CSTF3	YES	14
878	meth_ACP6	meth	ACP6	YES	12
878	meth_ZNHIT3	meth	ZNHIT3	YES	5
879	meth_AGTRAP	meth	AGTRAP	YES	18
879	mrna_NLGN2	mrna	NLGN2	YES	44
880	meth_CDADC1	meth	CDADC1	YES	4
880	meth_PRKRIR	meth	PRKRIR	YES	8

881	meth_CNOT1	meth	CNOT1	YES	34
881	mrna_CEACAM1	mrna	CEACAM1	YES	69
882	meth_SIX3	meth	SIX3	YES	50
883	cnv_KBTBD4	cnv	KBTBD4	YES	7
883	meth_RCHY1	meth	RCHY1	YES	19
885	meth_E4F1	meth	E4F1	YES	28
885	meth_NAPA	meth	NAPA	YES	33
886	meth_CDK9	meth	CDK9	YES	54
886	meth_NMNAT1	meth	NMNAT1	YES	19
887	meth_RP11-299G20.2	meth	RP11-299G20.2	NO	0
887	meth_SOCS5	meth	SOCS5	YES	25
888	meth_NICN1	meth	NICN1	YES	3
888	mrna_CKAP2	mrna	CKAP2	YES	14
889	meth_BBC3	meth	BBC3	YES	32
890	meth_AC004549.6	meth	AC004549.6	NO	0
891	mirna_MIR29B	mirna	MIR29B	NO	0
892	meth_ADCY5	meth	ADCY5	YES	36
893	cnv_AGBL2	cnv	AGBL2	YES	15
894	meth_SLC6A1	meth	SLC6A1	YES	31
895	meth_POLE	meth	POLE	YES	32
895	meth_TTC8	meth	TTC8	YES	36
896	meth_DPM3	meth	DPM3	YES	18
896	meth_VASP	meth	VASP	YES	27
897	meth_SAR1B	meth	SAR1B	YES	26
897	meth_TMEM67	meth	TMEM67	YES	22
898	meth_HSD17B7	meth	HSD17B7	YES	15
898	meth_RALGDS	meth	RALGDS	YES	13
899	meth_PDS5A	meth	PDS5A	YES	14
899	meth_SGOL1	meth	SGOL1	YES	17
900	meth_SLC2A8	meth	SLC2A8	YES	29
900	meth_STARD5	meth	STARD5	YES	10
901	meth_SRPRB	meth	SRPRB	YES	15
901	mrna_LINC00294	mrna	LINC00294	NO	0
902	meth_C1D	meth	C1D	YES	17
902	meth_PPRC1	meth	PPRC1	YES	14
903	meth_CTH	meth	CTH	YES	33
904	meth_B9D1	meth	B9D1	YES	20
905	meth_RP11-545M17.1	meth	RP11-545M17.1	NO	0
906	meth_TMTC1	meth	TMTC1	YES	5
907	meth_EIF3D	meth	EIF3D	YES	17
907	mrna_ALG1	mrna	ALG1	YES	14
908	meth_COQ4	meth	COQ4	YES	6
909	cnv_OR5W2	cnv	OR5W2	YES	12
909	meth_PSMC3IP	meth	PSMC3IP	YES	12
910	meth_RAB27A	meth	RAB27A	YES	53
910	mrna_MIR8071-1	mrna	MIR8071-1	NO	0
911	meth_JMJD4	meth	JMJD4	YES	1
911	meth_LAMP3	meth	LAMP3	YES	21
912	meth_DIS3	meth	DIS3	YES	23
912	meth_GNAI2	meth	GNAI2	YES	43
913	meth_CNOT2	meth	CNOT2	YES	28
913	meth_NKX6-1	meth	NKX6-1	YES	45
914	meth_ACVR1C	meth	ACVR1C	YES	32
915	meth_ANKMY2	meth	ANKMY2	YES	6
916	meth_ANXA11	meth	ANXA11	YES	27
916	meth_CTB-180A7.8	meth	CTB-180A7.8	NO	0
917	meth_TBC1D8	meth	TBC1D8	YES	10
918	meth_LIG3	meth	LIG3	YES	27
919	meth_ADRB1	meth	ADRB1	YES	59
919	meth_NIPAL1	meth	NIPAL1	YES	7

920	meth_POM121	meth	POM121	YES	29
921	meth_FAM96A	meth	FAM96A	YES	10
921	meth_RP11-290H9.2	meth	RP11-290H9.2	NO	0
922	meth_GLT8D1	meth	GLT8D1	YES	6
922	meth_KIAA1841	meth	KIAA1841	YES	1
923	meth_KATNBL1	meth	KATNBL1	YES	2
923	mrna_CD55	mrna	CD55	YES	37
924	meth_AP1M1	meth	AP1M1	YES	25
924	meth_RAB3GAP2	meth	RAB3GAP2	YES	21
925	meth_MGLL	meth	MGLL	YES	27
925	meth_NUAK2	meth	NUAK2	YES	19
926	meth_AP1B1	meth	AP1B1	YES	25
926	meth_NLRP14	meth	NLRP14	YES	5
927	meth_APAF1	meth	APAF1	YES	42
927	mrna_CTD-2114J12.1	mrna	CTD-2114J12.1	NO	0
928	meth_GCC2	meth	GCC2	YES	20
928	meth_TMCO4	meth	TMCO4	YES	2
929	meth_SNORD105	meth	SNORD105	NO	0
930	meth_AC091878.1	meth	AC091878.1	NO	0
930	meth_EHD1	meth	EHD1	YES	44
931	meth_AC012360.4	meth	AC012360.4	NO	0
931	meth_LINC01137	meth	LINC01137	NO	0
932	meth_MEF2D	meth	MEF2D	YES	32
932	meth_RP11-387M24.5	meth	RP11-387M24.5	NO	0
933	meth_RANBP9	meth	RANBP9	YES	16
933	mirna_MIR6728	mirna	MIR6728	NO	0
934	mrna_C8orf46	mrna	C8orf46	NO	0
935	meth_ANXA5	meth	ANXA5	YES	22
935	meth_WNT3A	meth	WNT3A	YES	101
936	meth_AC009065.2	meth	AC009065.2	NO	0
936	meth_GPSM2	meth	GPSM2	YES	32
937	meth_LINC00471	meth	LINC00471	NO	0
938	meth_FAM163A	meth	FAM163A	YES	2
938	meth_RP1-234P15.4	meth	RP1-234P15.4	NO	0
939	mrna_SLC7A5P1	mrna	SLC7A5P1	NO	0
940	meth_CTD-2154B17.4	meth	CTD-2154B17.4	NO	0
941	mrna_PI4K2B	mrna	PI4K2B	YES	16
941	stv_TALDO1	stv	TALDO1	YES	18
942	mirna_MIR330	mirna	MIR330	NO	0
942	mrna_PDXDC1	mrna	PDXDC1	YES	8
943	meth_AC004854.4	meth	AC004854.4	NO	0
943	meth_MIR7-3HG	meth	MIR7-3HG	NO	0
944	meth_DDX56	meth	DDX56	YES	15
944	mrna_MCCC2	mrna	MCCC2	YES	15
945	meth_ABCB10	meth	ABCB10	YES	14
945	meth_MYOD1	meth	MYOD1	YES	64
946	mrna_GDF5	mrna	GDF5	YES	37
947	meth_AC019181.2	meth	AC019181.2	NO	0
948	meth_RP11-159D12.3	meth	RP11-159D12.3	NO	0
948	mrna_MGAT4A	mrna	MGAT4A	YES	19
949	meth_ABHD5	meth	ABHD5	YES	19
949	meth_RNF25	meth	RNF25	YES	9
950	meth_MED4	meth	MED4	YES	20
951	meth_NAA20	meth	NAA20	YES	10
951	meth_RABIF	meth	RABIF	YES	12
952	meth_RB1CC1	meth	RB1CC1	YES	29
953	meth_ZAR1	meth	ZAR1	YES	2
954	meth_NOP2	meth	NOP2	YES	18
954	meth_SPSB4	meth	SPSB4	YES	6
955	meth_AC004053.1	meth	AC004053.1	NO	0

955	mrna_DVL1	mrna	DVL1	YES	72
956	meth_PSMB3	meth	PSMB3	YES	40
956	meth_ZNF507	meth	ZNF507	YES	6
957	meth_SLC25A29	meth	SLC25A29	YES	22
957	meth_TOB2	meth	TOB2	YES	13
958	meth_DNAJC30	meth	DNAJC30	YES	2
958	meth_PEX1	meth	PEX1	YES	20
959	meth_CTD-2588C8.8	meth	CTD-2588C8.8	NO	0
959	meth_RERE	meth	RERE	YES	25
960	mrna_DNAJA1	mrna	DNAJA1	YES	42
961	meth_CNP	meth	CNP	YES	31
961	meth_EIF4E3	meth	EIF4E3	YES	8
962	meth_AP1S1	meth	AP1S1	YES	25
963	meth_CDKL3	meth	CDKL3	YES	17
964	mrna_CTD-2619J13.13	mrna	CTD-2619J13.13	NO	0
965	meth_ETS2	meth	ETS2	YES	23
965	meth_MAP3K3	meth	MAP3K3	YES	25
966	meth_CHFR	meth	CHFR	YES	19
966	meth_PLK4	meth	PLK4	YES	27
967	meth_TOMM7	meth	TOMM7	YES	18
968	meth_PDGFD	meth	PDGFD	YES	28
968	meth_SMC5	meth	SMC5	YES	25
969	meth_CCNC	meth	CCNC	YES	15
971	meth_CABP7	meth	CABP7	YES	9
971	meth_ZNF561	meth	ZNF561	YES	7
972	meth_BSDC1	meth	BSDC1	NO	0
972	meth_CHAT	meth	CHAT	YES	24
973	meth_GATB	meth	GATB	YES	12
973	meth_UBE2J2	meth	UBE2J2	YES	16
974	meth_KCNH2	meth	KCNH2	YES	52
974	meth_SPRYD3	meth	SPRYD3	YES	1
975	meth_PCED1A	meth	PCED1A	YES	1
975	meth_PRKAB2	meth	PRKAB2	YES	18
976	meth_CTB-55O6.13	meth	CTB-55O6.13	NO	0
977	meth_GEMIN8P4	meth	GEMIN8P4	NO	0
977	mrna_WFDC3	mrna	WFDC3	YES	5
978	meth_PPFIBP1	meth	PPFIBP1	YES	6
978	meth_TIPARP	meth	TIPARP	YES	24
979	meth_ANGEL2	meth	ANGEL2	YES	5
979	meth_PBX3	meth	PBX3	YES	19
980	meth_FAM204A	meth	FAM204A	NO	0
980	mrna_GSAP	mrna	GSAP	YES	5
981	meth_MYO6	meth	MYO6	YES	56
981	mrna_RP11-35G9.3	mrna	RP11-35G9.3	NO	0
982	meth_HDLBP	meth	HDLBP	YES	16
982	meth_SUMF2	meth	SUMF2	YES	7
983	meth_RABL2A	meth	RABL2A	YES	12
983	meth_SMG5	meth	SMG5	YES	21
984	meth_FAM126A	meth	FAM126A	YES	11
984	meth_MBD3L1	meth	MBD3L1	YES	7
986	meth_CDK6	meth	CDK6	YES	61
987	cnv_OR4C3	cnv	OR4C3	YES	13
987	stv_BAG4	stv	BAG4	YES	28
988	meth_PNRC1	meth	PNRC1	YES	7
989	meth_GAPDH	meth	GAPDH	YES	49
989	meth_MARCH10	meth	MARCH10	YES	5
990	meth_EHBP1	meth	EHBP1	YES	8
990	meth_NDUFC1	meth	NDUFC1	YES	10
991	meth_SMARCC1	meth	SMARCC1	YES	32
991	mrna_SIM2	mrna	SIM2	YES	18

992	meth_MGAT4B	meth	MGAT4B	YES	14
993	meth_GMEB1	meth	GMEB1	YES	15
993	meth_SKA1	meth	SKA1	YES	20
994	meth_AC074212.6	meth	AC074212.6	NO	0
994	meth_ACADM	meth	ACADM	YES	33
995	meth_C17orf64	meth	C17orf64	NO	0
996	meth_TRAF5	meth	TRAF5	YES	17
996	meth_UPF2	meth	UPF2	YES	15
997	meth_PSMD12	meth	PSMD12	YES	38
997	meth_RP11-466F5.8	meth	RP11-466F5.8	NO	0
998	meth_EDEM2	meth	EDEM2	YES	16
998	meth_PSMB4	meth	PSMB4	YES	42
999	meth_CALCR	meth	CALCR	YES	39
999	meth_CELF1	meth	CELF1	YES	23
1000	meth_POGK	meth	POGK	YES	7
1000	meth_TUBA3C	meth	TUBA3C	YES	18
1001	meth_NUP37	meth	NUP37	YES	29
1002	meth_CKAP2	meth	CKAP2	YES	14
1002	meth_MPHOSPH8	meth	MPHOSPH8	YES	19
1003	meth_AKTIP	meth	AKTIP	YES	19
1003	meth_PPP2R2A	meth	PPP2R2A	YES	18
1004	meth_COL11A2	meth	COL11A2	YES	23
1004	meth_RP11-47A8.5	meth	RP11-47A8.5	NO	0
1005	meth_ATP5S	meth	ATP5S	YES	12
1005	meth_STAG3L2	meth	STAG3L2	NO	0
1006	meth_EBF3	meth	EBF3	YES	11
1006	mrna_TCIRG1	mrna	TCIRG1	YES	33
1007	meth_PAFAH1B2	meth	PAFAH1B2	YES	22
1008	meth_C12orf5	meth	C12orf5	YES	5
1009	meth_C19orf48	meth	C19orf48	NO	0
1009	meth_SDCBP	meth	SDCBP	YES	63
1010	meth_CTC-551A13.2	meth	CTC-551A13.2	NO	0
1011	meth_AC026401.1	meth	AC026401.1	NO	0
1011	mrna_STAT6	mrna	STAT6	YES	36
1012	meth_S100PBP	meth	S100PBP	YES	4
1013	meth_CBR3	meth	CBR3	YES	13
1013	meth_PRKCA	meth	PRKCA	YES	84
1014	meth_HSPBAP1	meth	HSPBAP1	YES	2
1014	mirna_MIR4659A	mirna	MIR4659A	NO	0
1016	meth_TGS1	meth	TGS1	YES	23
1017	meth_ZDHHC7	meth	ZDHHC7	YES	10
1018	meth_COPB2	meth	COPB2	YES	21
1018	meth_UBL3	meth	UBL3	YES	4
1019	meth_TTLL12	meth	TTLL12	YES	5
1020	meth_ASB13	meth	ASB13	YES	5
1020	meth_DNAJB14	meth	DNAJB14	YES	10
1021	meth_GNPTAB	meth	GNPTAB	YES	15
1022	meth_RP5-908M14.9	meth	RP5-908M14.9	NO	0
1023	meth_CBX3	meth	CBX3	YES	22
1023	mrna_EGR4	mrna	EGR4	YES	12
1024	meth_WEE2-AS1	meth	WEE2-AS1	NO	0
1025	meth_EXOSC1	meth	EXOSC1	YES	12
1025	meth_SMAD1	meth	SMAD1	YES	62
1026	mrna_SNRNP48	mrna	SNRNP48	YES	10
1027	meth_TNIP1	meth	TNIP1	YES	25
1027	meth_ULBP3	meth	ULBP3	YES	10
1028	meth_AL139099.1	meth	AL139099.1	NO	0
1029	meth_PNRC2	meth	PNRC2	YES	11
1029	mrna_SNX21	mrna	SNX21	YES	11
1030	mirna_MIR3617	mirna	MIR3617	NO	0

1031	meth_AC021205.1	meth	AC021205.1	NO	0
1031	meth_C7orf34	meth	C7orf34	YES	1
1032	meth_COL4A3BP	meth	COL4A3BP	YES	32
1032	meth_NDUFA3	meth	NDUFA3	YES	10
1033	meth_CENPU	meth	CENPU	YES	16
1033	meth_PURB	meth	PURB	YES	19
1034	meth_ARHGAP19-SLIT1	meth	ARHGAP19-SLIT1	YES	2
1034	meth_RP11-386I8.6	meth	RP11-386I8.6	NO	0
1035	meth_CD2AP	meth	CD2AP	YES	35
1035	meth_TEF	meth	TEF	YES	15
1036	meth_FAM210A	meth	FAM210A	YES	3
1036	meth_SS18	meth	SS18	YES	17
1037	meth_CDK5RAP1	meth	CDK5RAP1	YES	20
1037	meth_MS4A2	meth	MS4A2	YES	23
1038	meth_ADAMTS3	meth	ADAMTS3	YES	22
1038	meth_MYCBP2	meth	MYCBP2	YES	16
1039	meth_MARCH2	meth	MARCH2	YES	16
1040	meth_AP003068.23	meth	AP003068.23	NO	0
1040	mrna_PAFAH2	mrna	PAFAH2	YES	9
1041	meth_FXR2	meth	FXR2	YES	15
1041	meth_TM7SF3	meth	TM7SF3	YES	6
1042	meth_DCAKD	meth	DCAKD	YES	7
1042	mrna_BCAT2	mrna	BCAT2	YES	23
1043	meth_FENDRR	meth	FENDRR	NO	0
1043	meth_HIF1A	meth	HIF1A	YES	125
1044	mrna_SLC5A5	mrna	SLC5A5	YES	20
1045	meth_ACTR5	meth	ACTR5	YES	13
1046	meth_COX10	meth	COX10	YES	24
1046	meth_FOXP4	meth	FOXP4	YES	14
1047	meth_OTX1	meth	OTX1	YES	18
1047	meth_TBRG4	meth	TBRG4	YES	8
1048	meth_PDXP	meth	PDXP	YES	33
1048	meth_RAP1B	meth	RAP1B	YES	33
1049	meth_MBTD1	meth	MBTD1	YES	8
1049	meth_RAD21	meth	RAD21	YES	33
1050	meth_RPF1	meth	RPF1	YES	12
1050	meth_TMEM102	meth	TMEM102	YES	17
1051	meth_ZNF79	meth	ZNF79	YES	10
1052	meth_B4GALT7	meth	B4GALT7	YES	22
1052	meth_HS1BP3	meth	HS1BP3	YES	4
1053	meth_PSG4	meth	PSG4	YES	4
1054	meth_TSC22D1	meth	TSC22D1	YES	9
1054	meth_ZNF281	meth	ZNF281	YES	22
1055	meth_C14orf80	meth	C14orf80	NO	0
1055	meth_RNF8	meth	RNF8	YES	41
1056	meth_AP000253.1	meth	AP000253.1	NO	0
1056	meth_YBX1	meth	YBX1	YES	37
1057	meth_CATSPER2P1	meth	CATSPER2P1	NO	0
1058	meth_NUP155	meth	NUP155	YES	30
1058	meth_SLC6A20	meth	SLC6A20	YES	16
1059	meth_BCAP29	meth	BCAP29	YES	12
1059	meth_SRM	meth	SRM	YES	11
1060	meth_ADAP2	meth	ADAP2	YES	15
1060	mrna_GAS6-AS1	mrna	GAS6-AS1	NO	0
1061	meth_LINC01356	meth	LINC01356	NO	0
1061	meth_WT1-AS_1	meth	WT1-AS	NO	0
1062	meth_DCXR	meth	DCXR	YES	20
1062	meth_NAPEPLD	meth	NAPEPLD	YES	19
1063	meth_ATOH8	meth	ATOH8	YES	24
1063	meth_RP11-474N24.6	meth	RP11-474N24.6	NO	0

1064	meth_AP000251.3	meth	AP000251.3	NO	0
1064	mrna_CD22	mrna	CD22	YES	7
1065	meth_CSNK2A1	meth	CSNK2A1	YES	48
1065	meth_ITGAV	meth	ITGAV	YES	84
1066	meth_HMHA1	meth	HMHA1	YES	8
1066	meth_RP11-92B11.4	meth	RP11-92B11.4	NO	0
1067	meth_BTBD1	meth	BTBD1	YES	14
1068	cnv_ACP2	cnv	ACP2	YES	11
1068	meth_POLD3	meth	POLD3	YES	21
1070	meth_ADRB2	meth	ADRB2	YES	65
1071	meth_KIRREL2	meth	KIRREL2	YES	9
1072	meth_HOTTIP_2	meth	HOTTIP	NO	0
1073	cnv_AMBRA1	cnv	AMBRA1	YES	29
1073	meth_CEP76	meth	CEP76	YES	12
1074	meth_CYBA	meth	CYBA	YES	73
1074	meth_GTSE1	meth	GTSE1	YES	18
1075	meth_CDKAL1	meth	CDKAL1	YES	19
1075	meth_PARP4	meth	PARP4	YES	24
1076	meth_FAM213A	meth	FAM213A	YES	7
1076	meth_NT5DC1	meth	NT5DC1	YES	4
1077	meth_GINS4	meth	GINS4	YES	14
1077	meth_NSUN6	meth	NSUN6	YES	10
1078	meth_AL139099.2	meth	AL139099.2	NO	0
1079	meth_TMEM183A	meth	TMEM183A	YES	3
1079	mrna_TMCC2	mrna	TMCC2	YES	5
1080	meth_RP11-386G11.10	meth	RP11-386G11.10	NO	0
1080	meth_TXNL1	meth	TXNL1	YES	16
1081	cnv_CALN1	cnv	CALN1	YES	9
1081	meth_SALL1	meth	SALL1	YES	46
1082	meth_C1orf174	meth	C1orf174	YES	2
1083	meth_TBCA	meth	TBCA	YES	13
1084	meth_GPX4	meth	GPX4	YES	23
1084	meth_NRDE2	meth	NRDE2	YES	6
1085	meth_PEX2	meth	PEX2	YES	20
1085	meth_SOCS2	meth	SOCS2	YES	30
1086	cnv_OR5L2	cnv	OR5L2	YES	12
1086	mrna_RP11-191L9.4	mrna	RP11-191L9.4	NO	0
1088	meth_RP11-546B15.1	meth	RP11-546B15.1	NO	0
1088	meth_ZNRD1	meth	ZNRD1	YES	16
1089	meth_AL132780.1	meth	AL132780.1	NO	0
1089	meth_CDKN1B	meth	CDKN1B	YES	68
1090	meth_RRAS2	meth	RRAS2	YES	16
1090	mrna_VPS51	mrna	VPS51	YES	24
1091	meth_ROGDI	meth	ROGDI	YES	8
1091	meth_ZBTB45	meth	ZBTB45	YES	7
1092	meth_DHX8	meth	DHX8	YES	19
1093	meth_TERF1	meth	TERF1	YES	44
1093	meth_WIPI2	meth	WIPI2	YES	19
1094	meth_PTER	meth	PTER	YES	8
1095	meth_CRIP1	meth	CRIP1	YES	16
1095	meth_SCCPDH	meth	SCCPDH	YES	10
1096	stv_SHCBP1	stv	SHCBP1	YES	8
1097	meth_RASD1	meth	RASD1	YES	17
1097	meth_TTC19	meth	TTC19	YES	13
1099	meth_RFC3	meth	RFC3	YES	24
1101	meth_LINC00167	meth	LINC00167	NO	0
1101	meth_RAB3B	meth	RAB3B	YES	23
1102	meth_DUSP18	meth	DUSP18	YES	17
1103	meth_IK	meth	IK	YES	7
1103	meth_ST7	meth	ST7	YES	2

1104	meth_CYTH4	meth	CYTH4	YES	9
1105	mrna_SPINK2	mrna	SPINK2	YES	13
1106	meth_C1orf131	meth	C1orf131	YES	2
1106	meth_HMGB1	meth	HMGB1	YES	124
1107	meth_FLT3	meth	FLT3	YES	51
1107	meth_SLC2A1	meth	SLC2A1	YES	54
1108	meth_CDKN1A	meth	CDKN1A	YES	78
1108	meth_SPEF1	meth	SPEF1	YES	10
1109	meth_CTD-2342J14.6	meth	CTD-2342J14.6	NO	0
1109	meth_METTL20	meth	METTL20	YES	3
1110	meth_B3GNT4	meth	B3GNT4	YES	14
1111	meth_LINC01184	meth	LINC01184	NO	0
1112	meth_CTD-2194D22.3	meth	CTD-2194D22.3	NO	0
1112	mrna_LINC01057	mrna	LINC01057	NO	0
1113	meth_ABHD17B	meth	ABHD17B	YES	4
1113	meth_ANXA2	meth	ANXA2	YES	77
1114	cnv_MADD	cnv	MADD	YES	22
1114	meth_ATP5B	meth	ATP5B	YES	44
1115	meth_ORC5	meth	ORC5	YES	14
1115	meth_RNF181	meth	RNF181	YES	10
1116	meth_PEX19	meth	PEX19	YES	23
1116	meth_SEC61A1	meth	SEC61A1	YES	19
1117	mrna_F8A1	mrna	F8A1	YES	3
1118	meth_CAPN15	meth	CAPN15	YES	10
1118	meth_LZTR1	meth	LZTR1	YES	4
1119	meth_PPP3CC	meth	PPP3CC	YES	11
1120	cnv_OR4A47	cnv	OR4A47	YES	13
1120	meth_ITPKA	meth	ITPKA	YES	19
1121	mirna_MIR1306	mirna	MIR1306	YES	1
1122	meth_AP006621.5	meth	AP006621.5	NO	0
1122	meth_PANX1	meth	PANX1	YES	34
1123	meth_C16orf58	meth	C16orf58	YES	2
1123	meth_ZNF287	meth	ZNF287	YES	14
1124	meth_CEP290	meth	CEP290	YES	37
1124	meth_FKBP8	meth	FKBP8	YES	34
1125	cnv_FKBP6	cnv	FKBP6	YES	22
1125	mrna_FAM86EP	mrna	FAM86EP	NO	0
1127	meth_ALDH16A1	meth	ALDH16A1	YES	6
1127	meth_EME1	meth	EME1	YES	24
1128	meth_IPO9	meth	IPO9	YES	13
1128	mrna_RP11-496I2.5	mrna	RP11-496I2.5	NO	0
1129	cnv_HMGB1P24	cnv	HMGB1P24	NO	0
1129	meth_NUP205	meth	NUP205	YES	25
1130	cnv_CCL23	cnv	CCL23	YES	25
1130	meth_MIR1289-1	meth	MIR1289-1	NO	0
1131	meth_RP11-607P23.1	meth	RP11-607P23.1	NO	0
1132	meth_GGCT	meth	GGCT	YES	8
1133	meth_CYB5R3	meth	CYB5R3	YES	29
1133	meth_KRCC1	meth	KRCC1	YES	4
1134	meth_GYG1	meth	GYG1	YES	16
1134	meth_RP11-44N11.2	meth	RP11-44N11.2	NO	0
1135	meth_LEPR	meth	LEPR	YES	29
1135	meth_OGDHL	meth	OGDHL	YES	13
1136	meth_KCTD16	meth	KCTD16	YES	9
1137	meth_RP11-524O1.4	meth	RP11-524O1.4	NO	0
1138	meth_PIP4K2B	meth	PIP4K2B	YES	29
1139	meth_C20orf27	meth	C20orf27	YES	3
1139	meth_PMPCB	meth	PMPCB	YES	16
1140	meth_RP11-432B6.3	meth	RP11-432B6.3	NO	0
1141	meth_CACNB1	meth	CACNB1	YES	17

1141	meth_TCEB1	meth	TCEB1	YES	17
1142	meth_BRD3	meth	BRD3	YES	8
1142	mrna_MAP7D3	mrna	MAP7D3	YES	10
1143	meth_ECE2	meth	ECE2	YES	23
1143	meth_RFX4	meth	RFX4	YES	19
1144	meth_MIRLET7I	meth	MIRLET7I	YES	7
1145	meth_TESK1	meth	TESK1	YES	18
1146	meth_HIST1H2AG	meth	HIST1H2AG	YES	11
1147	cnv_NSUN5	cnv	NSUN5	YES	10
1147	meth_KDM1A	meth	KDM1A	YES	63
1148	meth_ARL4D	meth	ARL4D	YES	15
1149	cnv_CCL3	cnv	CCL3	YES	71
1150	meth_FBXO32	meth	FBXO32	YES	13
1150	meth_POLR2G	meth	POLR2G	YES	27
1151	meth_CCDC186	meth	CCDC186	NO	0
1151	mrna_LA16c-380H5.1	mrna	LA16c-380H5.1	NO	0
1152	meth_DNAJB2	meth	DNAJB2	YES	21
1152	meth_MGST3	meth	MGST3	YES	19
1153	meth_KRR1	meth	KRR1	YES	14
1154	meth_TIPRL	meth	TIPRL	YES	4
1155	meth_CERS6	meth	CERS6	YES	13
1155	mrna_KDELR1	mrna	KDELR1	YES	24
1156	meth_BRIP1	meth	BRIP1	YES	44
1156	mrna_ABCD1	mrna	ABCD1	YES	35
1157	cnv_OR4A16	cnv	OR4A16	YES	13
1158	meth_ASCC3	meth	ASCC3	YES	21
1158	meth_UCKL1	meth	UCKL1	YES	18
1159	meth_CCHCR1	meth	CCHCR1	YES	8
1160	cnv_OR8K5	cnv	OR8K5	YES	12
1161	meth_MOGS	meth	MOGS	YES	14
1161	meth_PYURF	meth	PYURF	YES	6
1162	meth_ADCK2	meth	ADCK2	YES	10
1162	meth_NAA16	meth	NAA16	YES	15
1163	meth_CTD-2308L22.1	meth	CTD-2308L22.1	NO	0
1163	meth_RP11-415I12.3	meth	RP11-415I12.3	NO	0
1164	meth_DUOX2	meth	DUOX2	YES	31
1164	meth_TACR1	meth	TACR1	YES	67
1165	meth_CTD-3222D19.8	meth	CTD-3222D19.8	NO	0
1165	meth_PEX7	meth	PEX7	YES	16
1166	meth_PAK4	meth	PAK4	YES	34
1166	meth_SECISBP2L	meth	SECISBP2L	YES	7
1167	meth_MOB3C	meth	MOB3C	YES	2
1168	meth_ACTR2	meth	ACTR2	YES	45
1168	meth_RAET1L	meth	RAET1L	YES	7
1169	meth_ELMO1	meth	ELMO1	YES	20
1169	mrna_MFSD10	mrna	MFSD10	YES	11
1170	meth_7SK	meth	7SK	NO	0
1170	mrna_ZNF280A	mrna	ZNF280A	YES	6
1171	meth_CABYR	meth	CABYR	YES	17
1172	meth_DDX58	meth	DDX58	YES	53
1172	meth_TEP1	meth	TEP1	YES	20
1173	meth_SMTN	meth	SMTN	YES	8
1174	meth_ZCCHC10	meth	ZCCHC10	YES	4
1175	meth_ANKRD23	meth	ANKRD23	YES	10
1175	meth_CYP2R1	meth	CYP2R1	YES	20
1176	meth_PIK3CA	meth	PIK3CA	YES	67
1176	meth_TMEM115	meth	TMEM115	YES	18
1177	meth_USP30	meth	USP30	YES	17
1177	mrna_LRRC27	mrna	LRRC27	YES	2
1178	meth_BCAT2	meth	BCAT2	YES	23

1178	meth_KCNC3	meth	KCNC3	YES	27
1179	meth_MIR4479	meth	MIR4479	NO	0
1179	meth_RP11-97N19.2	meth	RP11-97N19.2	NO	0
1180	mrna_TCL1A	mrna	TCL1A	YES	18
1181	meth_CBFB	meth	CBFB	YES	27
1182	meth_EFHD2	meth	EFHD2	YES	5
1182	meth_FBXO30	meth	FBXO30	YES	8
1183	meth_GJB2	meth	GJB2	YES	35
1183	mrna_VRK1	mrna	VRK1	YES	32
1184	meth_ANKRD49	meth	ANKRD49	YES	5
1184	meth_MEDAG	meth	MEDAG	YES	2
1185	cnv_CCL4L2	cnv	CCL4L2	YES	20
1185	mrna_AC018816.3	mrna	AC018816.3	NO	0
1186	cnv_RN7SKP75	cnv	RN7SKP75	NO	0
1186	meth_TMEM248	meth	TMEM248	YES	3
1187	meth_FSD1L	meth	FSD1L	YES	6
1187	meth_PCYOX1	meth	PCYOX1	YES	16
1188	meth_C12orf43	meth	C12orf43	YES	1
1188	meth_MYCBP	meth	MYCBP	YES	9
1189	meth_DMRT2	meth	DMRT2	YES	18
1190	meth_ENSA	meth	ENSA	YES	22
1190	meth_PRDX3	meth	PRDX3	YES	41
1191	meth_ATP5G3	meth	ATP5G3	YES	21
1191	meth_RGS7	meth	RGS7	YES	16
1192	mrna_NETO2	mrna	NETO2	YES	6
1193	meth_C16orf59	meth	C16orf59	YES	1
1193	meth_ZFYVE1	meth	ZFYVE1	YES	19
1194	meth_CALCRL	meth	CALCRL	YES	32
1194	meth_MOB1A	meth	MOB1A	YES	7
1195	meth_RAB4B-EGLN2	meth	RAB4B-EGLN2	YES	13
1196	meth_CTD-2026K11.3	meth	CTD-2026K11.3	NO	0
1196	meth_RPSA	meth	RPSA	YES	38
1197	meth_PUSL1	meth	PUSL1	YES	8
1198	meth_ISM2	meth	ISM2	YES	2
1198	mrna_ARHGAP29	mrna	ARHGAP29	YES	11
1199	meth_DDX17	meth	DDX17	YES	40
1200	meth_ARMC8	meth	ARMC8	YES	5
1201	meth_MIR3656	meth	MIR3656	NO	0
1202	meth_PLEKHA6	meth	PLEKHA6	NO	0
1202	meth_ZNRF2	meth	ZNRF2	YES	21
1203	meth_RDH10	meth	RDH10	YES	30
1203	mrna_DEPDC1	mrna	DEPDC1	YES	10
1204	mrna_POLR2B	mrna	POLR2B	YES	28
1205	meth_OTUD6B	meth	OTUD6B	YES	5
1206	meth_SP4	meth	SP4	YES	14
1206	mrna_OS9	mrna	OS9	YES	17
1207	meth_ARFGEF2	meth	ARFGEF2	YES	37
1207	meth_ERF	meth	ERF	YES	14
1208	meth_NELFCD	meth	NELFCD	YES	10
1209	meth_GMNN	meth	GMNN	YES	19
1210	cnv_RN7SL772P	cnv	RN7SL772P	NO	0
1210	meth_DHPS	meth	DHPS	YES	14
1212	cnv_HARBI1	cnv	HARBI1	YES	9
1213	meth_ACBD3	meth	ACBD3	YES	11
1213	meth_MEIS2	meth	MEIS2	YES	26
1214	meth_ACSL1	meth	ACSL1	YES	37
1215	meth_MCUR1	meth	MCUR1	YES	13
1216	meth_TFDP1	meth	TFDP1	YES	31
1217	meth_IFI6	meth	IFI6	YES	11
1218	meth_KIAA0907	meth	KIAA0907	YES	3

1218	meth_RP11-162A12.2	meth	RP11-162A12.2	NO	0
1219	meth_SLC6A9	meth	SLC6A9	YES	19
1220	meth_ICT1	meth	ICT1	YES	7
1221	meth_PPARD	meth	PPARD	YES	83
1221	meth_TSG101	meth	TSG101	YES	64
1222	meth_FAS	meth	FAS	YES	76
1222	meth_GORASP2	meth	GORASP2	YES	6
1223	meth_HERPUD1	meth	HERPUD1	YES	25
1223	meth_HSPA5	meth	HSPA5	YES	74
1224	meth_CASP8AP2	meth	CASP8AP2	YES	5
1224	meth_SLC26A2	meth	SLC26A2	YES	23
1225	cnv_PTPRJ	cnv	PTPRJ	YES	44
1225	meth_TMEM126A	meth	TMEM126A	YES	6
1226	meth_CCDC28B	meth	CCDC28B	YES	7
1226	meth_RPS18	meth	RPS18	YES	26
1227	meth_PKN3	meth	PKN3	YES	18
1227	meth_PPP1R15B	meth	PPP1R15B	YES	13
1228	meth_STX16	meth	STX16	YES	24
1230	meth_RFFL	meth	RFFL	YES	29
1231	meth_BICD2	meth	BICD2	YES	24
1231	meth_CCDC117	meth	CCDC117	YES	1
1232	meth_KHDRBS3	meth	KHDRBS3	YES	13
1232	meth_NAP1L1	meth	NAP1L1	YES	8
1233	meth_NRBF2	meth	NRBF2	YES	13
1233	meth_RP11-61K9.3	meth	RP11-61K9.3	NO	0
1234	meth_GSC	meth	GSC	YES	23
1236	meth_COPS6	meth	COPS6	YES	12
1236	mrna_TJP3	mrna	TJP3	YES	6
1237	meth_KPNB1	meth	KPNB1	YES	46
1238	meth_KLHL12	meth	KLHL12	YES	21
1239	meth_TMEM206	meth	TMEM206	YES	3
1240	meth_DNAJC14	meth	DNAJC14	YES	7
1241	meth_ERLIN2	meth	ERLIN2	YES	22
1241	meth_MBD3	meth	MBD3	YES	35
1242	meth_PPP6C	meth	PPP6C	YES	12
1243	meth_RDX	meth	RDX	YES	58
1243	mrna_PMEL	mrna	PMEL	YES	16
1244	meth_CYP51A1	meth	CYP51A1	YES	25
1244	meth_RNF139	meth	RNF139	YES	30
1245	meth_LENG1	meth	LENG1	YES	4
1245	meth_RAB8B	meth	RAB8B	YES	36
1246	meth_AC108479.3	meth	AC108479.3	NO	0
1247	meth_B4GAT1	meth	B4GAT1	YES	16
1248	meth_BCL2L12	meth	BCL2L12	YES	9
1248	mrna_NUBP1	mrna	NUBP1	YES	23
1249	meth_AC007192.6	meth	AC007192.6	NO	0
1250	meth_MANBA	meth	MANBA	YES	15
1251	meth_ACTR1B	meth	ACTR1B	YES	17
1252	meth_HAT1	meth	HAT1	YES	23
1252	meth_PPTC7	meth	PPTC7	YES	6
1253	meth_RIN1	meth	RIN1	YES	12
1254	meth_HIST1H4E	meth	HIST1H4E	YES	36
1255	meth_BTN3A1	meth	BTN3A1	YES	10
1255	meth_RANGRF	meth	RANGRF	YES	29
1256	cnv_NCF1B	cnv	NCF1B	NO	0
1256	meth_NAT9	meth	NAT9	YES	5
1257	meth_GART	meth	GART	YES	27
1258	meth_LRRC47	meth	LRRC47	YES	3
1258	mrna_GLTSCR2	mrna	GLTSCR2	YES	5
1259	meth_PHC1	meth	PHC1	YES	11

1259	mrna_LTF	mrna	LTF	YES	68
1260	mrna_XK	mrna	XK	YES	13
1261	meth_RP13-766D20.2	meth	RP13-766D20.2	NO	0
1262	meth_MAFB	meth	MAFB	YES	26
1263	meth_CLK1	meth	CLK1	YES	20
1263	meth_GRIN2D	meth	GRIN2D	YES	26
1264	meth_TBPL1	meth	TBPL1	YES	17
1265	meth_TAF10	meth	TAF10	YES	36
1265	mirna_MIR765	mirna	MIR765	NO	0
1266	cnv_LRP4	cnv	LRP4	YES	53
1267	meth_ELMOD3	meth	ELMOD3	YES	9
1267	meth_FBXO15	meth	FBXO15	YES	6
1268	meth_SLC24A3	meth	SLC24A3	YES	20
1268	mrna_ARHGAP12	mrna	ARHGAP12	YES	7
1269	meth_ELMOD2	meth	ELMOD2	YES	6
1270	meth_MARK4	meth	MARK4	YES	37
1270	mrna_C1orf27	mrna	C1orf27	YES	3
1271	meth_ACTB	meth	ACTB	YES	44
1273	meth_SNAP91	meth	SNAP91	YES	13
1273	meth_STAMBP	meth	STAMBP	YES	25
1274	meth_ZER1	meth	ZER1	YES	6
1274	stv_PIRT	stv	PIRT	YES	11
1275	cnv_RN7SL301P	cnv	RN7SL301P	NO	0
1276	meth_AC005154.6	meth	AC005154.6	NO	0
1277	cnv_CCL4L1	cnv	CCL4L1	YES	6
1277	meth_RTN4RL2	meth	RTN4RL2	YES	25
1278	meth_CTD-2562J15.6	meth	CTD-2562J15.6	NO	0
1278	meth_ZNF764	meth	ZNF764	YES	8
1279	meth_ABCB9	meth	ABCB9	YES	24
1279	meth_HERPUD2	meth	HERPUD2	YES	4
1281	meth_C9orf163	meth	C9orf163	NO	0
1281	meth_DUSP26	meth	DUSP26	YES	22
1282	meth_RP1-197B17.3	meth	RP1-197B17.3	NO	0
1283	meth_WDR34	meth	WDR34	YES	18
1283	mrna_AC241585.2	mrna	AC241585.2	NO	0
1284	meth_JPH3	meth	JPH3	YES	18
1284	meth_TMEM97	meth	TMEM97	YES	12
1285	meth_EEF1B2	meth	EEF1B2	YES	9
1285	meth_RAB26	meth	RAB26	YES	23
1286	meth_PDE3A	meth	PDE3A	YES	27
1287	meth_RP11-458J1.1	meth	RP11-458J1.1	NO	0
1288	mrna_KCNN4	mrna	KCNN4	YES	27
1288	mrna_RP11-336K24.5	mrna	RP11-336K24.5	NO	0
1289	meth_AGBL5	meth	AGBL5	YES	19
1289	meth_HDHD3	meth	HDHD3	YES	4
1290	meth_CTC-360G5.8	meth	CTC-360G5.8	NO	0
1290	meth_TAF12	meth	TAF12	YES	25
1291	meth_COX8A	meth	COX8A	YES	10
1292	meth_MIR17HG	meth	MIR17HG	NO	0
1293	meth_EI24	meth	EI24	YES	13
1293	mrna_KLKB1	mrna	KLKB1	YES	27
1294	meth_PTOV1	meth	PTOV1	YES	7
1294	meth_PTPN4	meth	PTPN4	YES	15
1295	meth_CDC37	meth	CDC37	YES	25
1295	meth_TP53BP2	meth	TP53BP2	YES	21
1296	meth_ADSL	meth	ADSL	YES	23
1296	meth_NENF	meth	NENF	YES	8
1297	meth_RP11-102M11.2	meth	RP11-102M11.2	NO	0
1297	meth_TMEM167A	meth	TMEM167A	YES	7
1298	meth_WDR93	meth	WDR93	YES	3

1299	meth_CHST1	meth	CHST1	YES	15
1299	meth_TMBIM6	meth	TMBIM6	YES	29
1300	meth_LINC01126	meth	LINC01126	NO	0
1301	meth_DCP1A	meth	DCP1A	YES	19
1301	meth_ESYT1	meth	ESYT1	YES	14
1302	meth_EPB41L3	meth	EPB41L3	YES	32
1303	meth_OCIAD1	meth	OCIAD1	YES	4
1303	mrna_PERM1	mrna	PERM1	YES	5
1304	meth_ACADS	meth	ACADS	YES	19
1304	meth_CD83	meth	CD83	YES	15
1305	meth_CTD-2650P22.1	meth	CTD-2650P22.1	NO	0
1305	mrna_WDHD1	mrna	WDHD1	YES	12
1307	mrna_CRELD1	mrna	CRELD1	YES	5
1308	meth_AC026202.3	meth	AC026202.3	NO	0
1309	mrna_WFDC13	mrna	WFDC13	YES	5
1309	mrna_RP11-713M15.2	mrna	RP11-713M15.2	NO	0
1310	meth_RASA2	meth	RASA2	YES	14
1311	meth_C9orf114	meth	C9orf114	YES	3
1311	meth_NDEL1	meth	NDEL1	YES	61
1312	meth_ZNF555	meth	ZNF555	YES	8
1313	meth_CERS4	meth	CERS4	YES	14
1313	meth_FAM214B	meth	FAM214B	YES	2
1314	meth_NEDD9	meth	NEDD9	YES	23
1315	meth_METTL21A	meth	METTL21A	YES	14
1315	meth_TMEM178A	meth	TMEM178A	YES	6
1316	meth_MGAT5B	meth	MGAT5B	YES	11
1316	meth_USP25	meth	USP25	YES	21
1317	meth_MZF1-AS1	meth	MZF1-AS1	NO	0
1317	meth_SATB2	meth	SATB2	YES	30
1318	meth_TYK2	meth	TYK2	YES	30
1318	mirna_MIR7	mirna	MIR7	NO	0
1319	meth_CFAP69	meth	CFAP69	NO	0
1319	meth_SLC36A1	meth	SLC36A1	YES	26
1320	meth_ASB16-AS1	meth	ASB16-AS1	NO	0
1320	meth_GOLGA1	meth	GOLGA1	YES	8
1321	meth_NLK	meth	NLK	YES	33
1321	meth_RRBP1	meth	RRBP1	YES	12
1322	meth_PARP2	meth	PARP2	YES	18
1322	meth_SIGLEC6	meth	SIGLEC6	YES	9
1323	meth_SLC5A6	meth	SLC5A6	YES	17
1323	meth_TACO1	meth	TACO1	YES	4
1324	meth_TRAM2	meth	TRAM2	YES	7
1325	meth_ROR2	meth	ROR2	YES	57
1325	meth_SULF2	meth	SULF2	YES	33
1326	meth_VCPIP1	meth	VCPIP1	YES	19
1327	meth_MTIF2	meth	MTIF2	YES	15
1328	meth_RP11-566K11.7	meth	RP11-566K11.7	NO	0
1329	meth_IGF2R	meth	IGF2R	YES	53
1330	meth_AC007246.3	meth	AC007246.3	NO	0
1331	meth_ASH2L	meth	ASH2L	YES	27
1331	meth_TDRD3	meth	TDRD3	YES	10
1332	meth_CH17-270A2.2	meth	CH17-270A2.2	NO	0
1333	meth_GTF2E1	meth	GTF2E1	YES	15
1333	meth_SUZ12	meth	SUZ12	YES	29
1334	meth_TXN	meth	TXN	YES	42
1335	meth_CTB-55O6.10	meth	CTB-55O6.10	NO	0
1335	meth_GPATCH4	meth	GPATCH4	YES	2
1336	cnv_CCL15	cnv	CCL15	YES	27
1337	meth_ZFP1	meth	ZFP1	YES	8
1338	meth_CDC7	meth	CDC7	YES	28

1338	meth_PACRGL	meth	PACRGL	YES	1
1339	meth_SPATA20	meth	SPATA20	YES	5
1340	meth_C1orf122	meth	C1orf122	NO	0
1340	meth_RXRG	meth	RXRG	YES	22
1341	meth_FSTL1	meth	FSTL1	YES	11
1341	meth_POU6F1	meth	POU6F1	YES	14
1342	meth_PCM1	meth	PCM1	YES	35
1342	meth_ZNF267	meth	ZNF267	YES	9
1343	meth_DNPH1	meth	DNPH1	YES	18
1343	meth_GCSAM	meth	GCSAM	YES	10
1344	meth_BBS7	meth	BBS7	YES	40
1344	meth_DDX20	meth	DDX20	YES	38
1345	meth_NPBWR1	meth	NPBWR1	YES	18
1345	meth_ZNF653	meth	ZNF653	YES	6
1346	meth_UBE2N	meth	UBE2N	YES	46
1347	meth_ACP2	meth	ACP2	YES	11
1347	meth_SH2B1	meth	SH2B1	YES	15
1348	meth_ANKRD32	meth	ANKRD32	YES	3
1348	meth_CTD-2506P8.6	meth	CTD-2506P8.6	NO	0
1349	meth_IMMT	meth	IMMT	YES	11
1350	meth_CTD-2235C13.2	meth	CTD-2235C13.2	NO	0
1350	meth_DCAF10	meth	DCAF10	YES	4
1351	meth_AP2B1	meth	AP2B1	YES	40
1351	meth_PPP1R35	meth	PPP1R35	YES	3
1352	meth_NUDT2	meth	NUDT2	YES	12
1352	meth_PROCA1	meth	PROCA1	YES	3
1353	meth_RPLP1	meth	RPLP1	YES	21
1353	mrna_SUOX	mrna	SUOX	YES	16
1354	meth_TNFRSF11A	meth	TNFRSF11A	YES	39
1355	meth_CTD-2574D22.6	meth	CTD-2574D22.6	NO	0
1355	mrna_SDF4	mrna	SDF4	YES	19
1356	meth_CDK12	meth	CDK12	YES	33
1356	meth_FLT1	meth	FLT1	YES	50
1357	meth_MAD2L1	meth	MAD2L1	YES	32
1357	mirna_MIR6715B	mirna	MIR6715B	NO	0
1358	meth_LHFPL5	meth	LHFPL5	YES	12
1358	meth_NTS	meth	NTS	YES	7
1359	meth_MAN1A2	meth	MAN1A2	YES	18
1359	meth_RRAS	meth	RRAS	YES	19
1360	meth_TEX40	meth	TEX40	YES	4
1361	meth_FARSB	meth	FARSB	YES	16
1362	meth_DNMT1	meth	DNMT1	YES	38
1362	meth_MED7	meth	MED7	YES	16
1363	meth_NT5C	meth	NT5C	YES	18
1363	mrna_MYBPH	mrna	MYBPH	YES	14
1364	meth_GLDC	meth	GLDC	YES	24
1364	meth_RP11-286E11.1	meth	RP11-286E11.1	NO	0
1366	meth_RP11-727F15.9	meth	RP11-727F15.9	NO	0
1366	mrna_HECTD3	mrna	HECTD3	YES	9
1367	meth_PAH	meth	PAH	YES	16
1367	mirna_MIR1301	mirna	MIR1301	YES	1
1368	meth_ARHGAP21	meth	ARHGAP21	YES	20
1368	meth_TAF5	meth	TAF5	YES	22
1369	meth_AVPR1B	meth	AVPR1B	YES	18
1369	meth_CPNE3	meth	CPNE3	YES	27
1370	meth_KIF17	meth	KIF17	YES	29
1370	meth_ZNF282	meth	ZNF282	YES	9
1371	meth_TMEM14C	meth	TMEM14C	YES	6
1372	meth_KCNH5	meth	KCNH5	YES	24
1372	meth_STAT2	meth	STAT2	YES	21

1373	meth_AP5M1	meth	AP5M1	YES	12
1373	meth_SFXN5	meth	SFXN5	YES	13
1374	meth_PRMT2	meth	PRMT2	YES	36
1374	meth_SHH	meth	SHH	YES	200
1375	meth_CHN2	meth	CHN2	YES	14
1376	cnv_DUSP14	cnv	DUSP14	YES	12
1376	meth_RP11-214K3.25	meth	RP11-214K3.25	NO	0
1377	meth_ALDH9A1	meth	ALDH9A1	YES	25
1378	meth_DMXL2	meth	DMXL2	YES	11
1378	meth_KCNF1	meth	KCNF1	YES	15
1379	meth_SLC43A2	meth	SLC43A2	YES	14
1379	meth_TMEM121	meth	TMEM121	YES	5
1380	meth_CTD-2033A16.3	meth	CTD-2033A16.3	NO	0
1380	meth_RP11-563N4.1	meth	RP11-563N4.1	NO	0
1382	meth_E2F2	meth	E2F2	YES	21
1382	mrna_ASS1P12	mrna	ASS1P12	NO	0
1383	meth_LRIG2	meth	LRIG2	YES	18
1383	meth_TADA1	meth	TADA1	YES	13
1384	meth_PDF	meth	PDF	YES	9
1385	meth_CDK2AP2	meth	CDK2AP2	YES	9
1385	meth_TSEN15	meth	TSEN15	YES	11
1386	meth_UQCC1	meth	UQCC1	YES	7
1387	meth_RP4-816N1.6	meth	RP4-816N1.6	NO	0
1388	meth_USP10	meth	USP10	YES	28
1389	meth_NASP	meth	NASP	YES	19
1391	cnv_MDK	cnv	MDK	YES	28
1392	meth_AP2A2	meth	AP2A2	YES	38
1392	meth_MELK	meth	MELK	YES	30
1393	meth_GSPT1	meth	GSPT1	YES	15
1394	meth_NIPSNAP3A	meth	NIPSNAP3A	YES	5
1395	meth_RP11-159D12.6	meth	RP11-159D12.6	NO	0
1396	meth_C9orf43	meth	C9orf43	YES	1
1396	meth_THRB	meth	THRB	YES	33
1397	meth_COX14	meth	COX14	YES	5
1397	mrna_FZD5	mrna	FZD5	YES	60
1398	cnv_MIR2909	cnv	MIR2909	NO	0
1399	meth_ARPC3	meth	ARPC3	YES	24
1399	meth_MEF2C	meth	MEF2C	YES	141
1400	meth_BRAF	meth	BRAF	YES	69
1400	meth_CYB561A3	meth	CYB561A3	YES	10
1401	meth_PNP	meth	PNP	YES	33
1402	meth_SPRYD4	meth	SPRYD4	YES	5
1403	meth_ATG4C	meth	ATG4C	YES	17
1403	meth_RP11-778D9.12	meth	RP11-778D9.12	NO	0
1404	meth_RP11-114F3.4	meth	RP11-114F3.4	NO	0
1405	mrna_CTD-2600O9.1	mrna	CTD-2600O9.1	NO	0
1406	meth_APOM	meth	APOM	YES	25
1406	meth_AXIN2	meth	AXIN2	YES	49
1407	meth_ESAM	meth	ESAM	YES	11
1407	meth_MIR658	meth	MIR658	NO	0
1408	meth_GNAT2	meth	GNAT2	YES	27
1409	meth_ATP5G1	meth	ATP5G1	YES	22
1409	meth_NARFL	meth	NARFL	YES	11
1410	meth_DAD1	meth	DAD1	YES	17
1410	mrna_EEF1A2	mrna	EEF1A2	YES	19
1411	cnv_MAPK8IP1	cnv	MAPK8IP1	YES	35
1411	meth_BMF	meth	BMF	YES	17
1412	meth_TERC	meth	TERC	NO	0
1413	cnv_SNORD67|ENSG00000252427.1	cnv	SNORD67|ENSG00000252427.1	NO	0
1413	meth_EMC6	meth	EMC6	YES	9

1415	meth_PSMC6	meth	PSMC6	YES	51
1416	meth_EFCAB5	meth	EFCAB5	YES	2
1416	meth_SLC17A5	meth	SLC17A5	YES	23
1417	meth_ALKBH6	meth	ALKBH6	YES	10
1417	meth_RPL34	meth	RPL34	YES	19
1418	meth_DNAJC9	meth	DNAJC9	YES	10
1418	meth_MRPS18A	meth	MRPS18A	YES	12
1419	meth_CARS2	meth	CARS2	YES	13
1420	meth_C14orf142	meth	C14orf142	NO	0
1420	mrna_ZNF286A	mrna	ZNF286A	YES	10
1421	meth_POLB	meth	POLB	YES	44
1421	meth_UFL1	meth	UFL1	YES	24
1422	meth_DKFZP434I0714	meth	DKFZP434I0714	NO	0
1424	cnv_RNA5SP231	cnv	RNA5SP231	NO	0
1425	meth_GORASP1	meth	GORASP1	YES	13
1425	meth_NME9	meth	NME9	YES	10
1426	mrna_TMC5	mrna	TMC5	YES	5
1427	meth_RGS2	meth	RGS2	YES	31
1428	meth_ANKRD13A	meth	ANKRD13A	YES	5
1428	meth_LRRC23	meth	LRRC23	YES	4
1429	meth_KBTBD6	meth	KBTBD6	YES	9
1429	mrna_EFR3B	mrna	EFR3B	YES	7
1430	meth_JTB	meth	JTB	YES	19
1431	meth_PSMA4	meth	PSMA4	YES	43
1432	meth_MAP2K5	meth	MAP2K5	YES	43
1432	meth_SLC7A6	meth	SLC7A6	YES	17
1433	meth_GSK3B	meth	GSK3B	YES	98
1434	mrna_PLEKHA2	mrna	PLEKHA2	YES	11
1435	meth_MRPL38	meth	MRPL38	YES	7
1435	meth_RP11-410L14.2	meth	RP11-410L14.2	NO	0
1436	meth_FAM213B	meth	FAM213B	YES	16
1437	meth_CPEB3	meth	CPEB3	YES	40
1437	meth_GPN2	meth	GPN2	YES	10
1438	meth_HOXB9	meth	HOXB9	YES	17
1439	meth_TNRC6A	meth	TNRC6A	YES	20
1440	meth_CERS5	meth	CERS5	YES	14
1440	meth_TMEM14A	meth	TMEM14A	YES	3
1441	meth_MMP15	meth	MMP15	YES	21
1441	meth_SLC22A17	meth	SLC22A17	YES	19
1442	meth_BMP7	meth	BMP7	YES	101
1442	meth_P4HA1	meth	P4HA1	YES	19
1443	meth_DIMT1	meth	DIMT1	YES	15
1444	meth_WNT2B	meth	WNT2B	YES	23
1444	mrna_ACOX3	mrna	ACOX3	YES	19
1445	meth_HMGN2	meth	HMGN2	YES	10
1445	meth_RP11-750H9.5	meth	RP11-750H9.5	NO	0
1446	cnv_CRY2	cnv	CRY2	YES	43
1446	cnv_RN7SL652P	cnv	RN7SL652P	NO	0
1447	meth_GCA	meth	GCA	YES	16
1447	meth_MIR1292	meth	MIR1292	NO	0
1448	meth_MRPL54	meth	MRPL54	YES	8
1449	meth_SSSCA1-AS1	meth	SSSCA1-AS1	NO	0
1450	meth_MYNN	meth	MYNN	YES	9
1450	meth_TINF2	meth	TINF2	YES	19
1451	meth_RP11-356I2.4	meth	RP11-356I2.4	NO	0
1451	mrna_ACOT1	mrna	ACOT1	YES	11
1452	meth_MEX3C	meth	MEX3C	YES	10
1452	meth_NQO2	meth	NQO2	YES	23
1453	meth_TFAP2A	meth	TFAP2A	YES	82
1454	meth_PDX1	meth	PDX1	YES	71

1454	meth_RP11-361D15.2	meth	RP11-361D15.2	NO	0
1455	meth_C1orf86	meth	C1orf86	YES	10
1455	meth_GNPDA2	meth	GNPDA2	YES	9
1456	meth_NOTCH2NL	meth	NOTCH2NL	YES	7
1457	meth_CCDC130	meth	CCDC130	YES	3
1457	mrna_LAPTM4B	mrna	LAPTM4B	YES	5
1458	meth_KPNA3	meth	KPNA3	YES	20
1458	meth_PNPO	meth	PNPO	YES	15
1460	meth_ATP6V1G2	meth	ATP6V1G2	YES	16
1460	meth_HPSE	meth	HPSE	YES	33
1461	meth_GEMIN7	meth	GEMIN7	YES	14
1461	meth_ROCK1	meth	ROCK1	YES	63
1462	meth_SEC14L1	meth	SEC14L1	YES	13
1462	mrna_CHMP4B	mrna	CHMP4B	YES	46
1465	meth_GALE	meth	GALE	YES	19
1465	meth_PALM	meth	PALM	YES	32
1466	meth_OBFC1	meth	OBFC1	YES	13
1466	stv_S100A11	stv	S100A11	YES	21
1468	mrna_SLC27A2	mrna	SLC27A2	YES	38
1469	meth_CHD6	meth	CHD6	YES	15
1469	meth_HS3ST3B1	meth	HS3ST3B1	YES	12
1470	mrna_CHMP2A	mrna	CHMP2A	YES	39
1471	meth_CITED2	meth	CITED2	YES	87
1472	meth_AZI2	meth	AZI2	YES	13
1472	meth_GATA6	meth	GATA6	YES	68
1473	meth_AIM1	meth	AIM1	YES	3
1473	meth_RBM14-RBM4	meth	RBM14-RBM4	YES	2
1474	meth_CEP72	meth	CEP72	YES	15
1475	meth_CLIC1	meth	CLIC1	YES	29
1475	meth_SLC30A1	meth	SLC30A1	YES	30
1476	meth_C11orf58	meth	C11orf58	YES	3
1476	meth_ZNF273	meth	ZNF273	YES	8
1477	meth_KIAA1551	meth	KIAA1551	NO	0
1477	meth_PTN	meth	PTN	YES	67
1478	meth_MAN2B1	meth	MAN2B1	YES	19
1479	meth_EML2	meth	EML2	YES	17
1479	meth_SNRNP200	meth	SNRNP200	YES	24
1480	meth_GLB1L	meth	GLB1L	YES	9
1480	meth_PPM1B	meth	PPM1B	YES	20
1481	meth_BUB1	meth	BUB1	YES	31
1481	meth_COMMD3	meth	COMMD3	YES	11
1482	meth_ARHGDIB	meth	ARHGDIB	YES	21
1482	meth_PPIF	meth	PPIF	YES	33
1483	meth_TGOLN2	meth	TGOLN2	YES	17
1484	meth_SMARCD2	meth	SMARCD2	YES	18
1484	meth_TRIM62	meth	TRIM62	YES	17
1485	meth_OPA3	meth	OPA3	YES	7
1486	meth_AC108142.1	meth	AC108142.1	NO	0
1486	meth_CWC15	meth	CWC15	YES	11
1487	meth_ARID3B	meth	ARID3B	YES	15
1487	mrna_MS4A1	mrna	MS4A1	YES	13
1488	meth_JUND	meth	JUND	YES	44
1490	meth_SMAD7	meth	SMAD7	YES	64
1490	mrna_AGR2	mrna	AGR2	YES	20
1491	meth_ARFIP1	meth	ARFIP1	YES	9
1493	meth_COG6	meth	COG6	YES	11
1493	meth_MCMBP	meth	MCMBP	YES	13
1495	meth_CACNA2D1	meth	CACNA2D1	YES	30
1496	meth_IDH1-AS1	meth	IDH1-AS1	NO	0
1497	meth_RP5-1021I20.8	meth	RP5-1021I20.8	NO	0

1497	mrna_SERPINA9	mrna	SERPINA9	YES	8
1498	meth_PHGDH	meth	PHGDH	YES	27
1499	meth_AC099754.1	meth	AC099754.1	NO	0
1499	meth_AD001527.4	meth	AD001527.4	NO	0
1501	mrna_NLRP12	mrna	NLRP12	YES	27
1501	mrna_CADM2	mrna	CADM2	YES	18
1502	mrna_FANCM	mrna	FANCM	YES	18
1503	meth_MSLN	meth	MSLN	YES	15
1504	meth_COL5A1	meth	COL5A1	YES	31
1504	meth_E2F4	meth	E2F4	YES	33
1505	meth_IQCD	meth	IQCD	YES	1
1505	meth_RAE1	meth	RAE1	YES	31
1506	meth_RCOR2	meth	RCOR2	YES	13
1507	meth_TM9SF3	meth	TM9SF3	YES	2
1507	mrna_EMC10	mrna	EMC10	YES	4
1508	mrna_CTB-50L17.14	mrna	CTB-50L17.14	NO	0
1509	meth_CCM2	meth	CCM2	YES	20
1510	mrna_RNF10	mrna	RNF10	YES	14
1510	mrna_IL17RE	mrna	IL17RE	YES	11
1511	meth_FPGT	meth	FPGT	YES	10
1511	meth_PEX16	meth	PEX16	YES	17
1512	meth_SLC25A51	meth	SLC25A51	YES	8
1513	meth_ADCY2	meth	ADCY2	YES	37
1513	meth_TSFM	meth	TSFM	YES	12
1516	meth_NR1D1	meth	NR1D1	YES	51
1516	meth_PDS5B	meth	PDS5B	YES	17
1517	meth_AC137055.1	meth	AC137055.1	NO	0
1517	meth_RP1-43E13.2	meth	RP1-43E13.2	NO	0
1518	meth_ARHGAP22	meth	ARHGAP22	YES	14
1518	meth_MATR3	meth	MATR3	YES	12
1519	meth_FEM1C	meth	FEM1C	YES	6
1519	meth_LHX4-AS1	meth	LHX4-AS1	NO	0
1520	meth_BTG1	meth	BTG1	YES	15
1521	meth_RNFT1	meth	RNFT1	YES	4
1522	meth_BTF3	meth	BTF3	YES	11
1522	meth_SENP7	meth	SENP7	YES	10
1523	meth_GSTM5	meth	GSTM5	YES	9
1524	meth_AC002066.1	meth	AC002066.1	NO	0
1525	meth_APEH	meth	APEH	YES	17
1525	meth_ITGB1	meth	ITGB1	YES	105
1526	meth_CEP83	meth	CEP83	YES	14
1527	meth_FBN1	meth	FBN1	YES	35
1528	meth_VRK2	meth	VRK2	YES	27
1528	meth_ZNF526	meth	ZNF526	YES	6
1529	meth_NEK4	meth	NEK4	YES	26
1530	meth_RALGAPB	meth	RALGAPB	YES	9
1530	mrna_EN1	mrna	EN1	YES	33
1531	meth_RP11-284M14.1	meth	RP11-284M14.1	NO	0
1532	meth_AP001462.6	meth	AP001462.6	NO	0
1532	meth_KLF9	meth	KLF9	YES	16
1533	meth_ERICH1	meth	ERICH1	NO	0
1534	meth_GGA1	meth	GGA1	YES	22
1534	meth_PEMT	meth	PEMT	YES	34
1535	meth_ANAPC1	meth	ANAPC1	YES	14
1535	meth_RCBTB1	meth	RCBTB1	YES	7
1536	meth_ARL8A	meth	ARL8A	YES	24
1536	meth_DAGLB	meth	DAGLB	YES	14
1537	meth_MICU2	meth	MICU2	YES	14
1538	meth_DCAF6	meth	DCAF6	YES	10
1538	meth_KLHL7	meth	KLHL7	YES	13

1539	meth_MCM8	meth	MCM8	YES	19
1539	meth_MED18	meth	MED18	YES	12
1541	meth_RASSF8	meth	RASSF8	YES	2
1542	meth_GABBR1	meth	GABBR1	YES	24
1542	meth_MTRF1	meth	MTRF1	YES	6
1543	meth_CDC14A	meth	CDC14A	YES	30
1543	meth_PML	meth	PML	YES	86
1544	meth_MED19	meth	MED19	YES	10
1545	meth_PSMD3	meth	PSMD3	YES	42
1545	meth_TCIRG1	meth	TCIRG1	YES	33
1546	meth_TRIM14	meth	TRIM14	YES	8
1547	meth_METTL17	meth	METTL17	YES	8
1547	meth_MRPL19	meth	MRPL19	YES	12
1549	meth_TLE3	meth	TLE3	YES	9
1550	meth_CNIH4	meth	CNIH4	YES	10
1550	meth_GCAT	meth	GCAT	YES	15
1551	meth_LY6D	meth	LY6D	YES	9
1551	meth_PIGW	meth	PIGW	YES	11
1554	meth_BCAS4	meth	BCAS4	YES	3
1554	meth_ZBED3	meth	ZBED3	YES	12
1555	meth_DNAJC1	meth	DNAJC1	YES	18
1555	meth_KCNIP2-AS1	meth	KCNIP2-AS1	NO	0
1556	meth_ETV6	meth	ETV6	YES	25
1556	meth_ZNF562	meth	ZNF562	YES	7
1558	meth_MRPS30	meth	MRPS30	YES	10
1558	mrna_TMEM222	mrna	TMEM222	YES	2
1559	meth_PGRMC2	meth	PGRMC2	YES	9
1559	meth_TMEM51-AS1	meth	TMEM51-AS1	NO	0
1561	meth_IPO13	meth	IPO13	YES	11
1562	meth_CTNS	meth	CTNS	YES	29
1563	meth_ATN1	meth	ATN1	YES	16
1564	meth_CDK13	meth	CDK13	YES	42
1564	meth_ITSN2	meth	ITSN2	YES	14
1567	meth_ASAH1	meth	ASAH1	YES	16
1567	meth_SRSF5	meth	SRSF5	YES	23
1568	meth_C6orf118	meth	C6orf118	YES	2
1569	meth_NSMAF	meth	NSMAF	YES	10
1570	meth_TTC39B	meth	TTC39B	YES	1
1570	mrna_RP11-177J6.1	mrna	RP11-177J6.1	NO	0
1571	meth_CHMP2A	meth	CHMP2A	YES	39
1571	meth_DIS3L	meth	DIS3L	YES	16
1573	meth_STEAP3	meth	STEAP3	YES	24
1573	meth_ZC3HAV1	meth	ZC3HAV1	YES	19
1574	meth_ISG20L2	meth	ISG20L2	YES	14
1575	meth_BNIP1	meth	BNIP1	YES	21
1576	cnv_BAZ1B	cnv	BAZ1B	YES	33
1577	meth_PODXL2	meth	PODXL2	YES	9
1577	meth_RPL18A	meth	RPL18A	YES	18
1578	meth_CALCOCO1	meth	CALCOCO1	YES	24
1578	meth_VRK1	meth	VRK1	YES	32
1579	meth_LHFP	meth	LHFP	YES	2
1580	meth_GOT1	meth	GOT1	YES	35
1580	meth_RBFA	meth	RBFA	YES	6
1581	meth_CLPP	meth	CLPP	YES	12
1582	meth_C5orf22	meth	C5orf22	YES	1
1582	meth_GALNS	meth	GALNS	YES	14
1583	meth_GRWD1	meth	GRWD1	YES	13
1584	meth_GLRX5	meth	GLRX5	YES	16
1585	meth_DDX24	meth	DDX24	YES	13
1585	mrna_UNC93B1	mrna	UNC93B1	YES	20

1586	meth_RP11-15A1.7	meth	RP11-15A1.7	NO	0
1587	meth_VWA7	meth	VWA7	YES	4
1588	meth_CGRRF1	meth	CGRRF1	YES	10
1589	meth_COMTD1	meth	COMTD1	YES	8
1589	meth_RP4-682C21.5	meth	RP4-682C21.5	NO	0
1590	meth_SMNDC1	meth	SMNDC1	YES	13
1591	meth_ITGA9	meth	ITGA9	YES	15
1591	meth_TIMP2	meth	TIMP2	YES	39
1592	meth_PPP6R3	meth	PPP6R3	YES	11
1594	meth_DOK4	meth	DOK4	YES	9
1595	meth_DRG2	meth	DRG2	YES	10
1596	meth_FAM13B	meth	FAM13B	YES	6
1597	meth_MRPS24	meth	MRPS24	YES	13
1599	mrna_RBM47	mrna	RBM47	YES	5
1600	cnv_SYT13	cnv	SYT13	YES	15
1600	meth_KLF5	meth	KLF5	YES	30
1601	meth_BOP1	meth	BOP1	YES	18
1601	meth_SLC15A4	meth	SLC15A4	YES	16
1603	meth_ESRRG	meth	ESRRG	YES	21
1603	meth_VPS72	meth	VPS72	YES	14
1604	meth_AC017116.11	meth	AC017116.11	NO	0
1605	meth_CTSO	meth	CTSO	YES	8
1606	meth_IRGQ	meth	IRGQ	YES	1
1607	meth_MYB	meth	MYB	YES	36
1607	meth_RP4-575N6.4	meth	RP4-575N6.4	NO	0
1608	meth_MX1	meth	MX1	YES	28
1608	meth_RP5-858L17.1	meth	RP5-858L17.1	NO	0
1609	meth_GBE1	meth	GBE1	YES	14
1609	meth_NSD1	meth	NSD1	YES	32
1610	meth_KMT2A	meth	KMT2A	YES	63
1610	meth_UBQLN4	meth	UBQLN4	YES	16
1611	meth_PHYH	meth	PHYH	YES	19
1611	meth_RYK	meth	RYK	YES	29
1612	meth_ID4	meth	ID4	YES	33
1612	meth_ZNF396	meth	ZNF396	YES	8
1613	cnv_OR4C16	cnv	OR4C16	YES	13
1613	meth_CD81	meth	CD81	YES	33
1614	meth_BLVRA	meth	BLVRA	YES	10
1614	meth_CLTCL1	meth	CLTCL1	YES	30
1615	meth_PTGER2	meth	PTGER2	YES	14
1616	meth_FBXL19-AS1	meth	FBXL19-AS1	NO	0
1617	meth_KLC2	meth	KLC2	YES	15
1618	meth_AP001471.1	meth	AP001471.1	NO	0
1618	meth_PHTF2	meth	PHTF2	YES	5
1619	meth_FOPNL	meth	FOPNL	YES	14
1619	meth_TMED7	meth	TMED7	YES	19
1620	meth_TNFSF9	meth	TNFSF9	YES	21
1620	meth_VPS13A	meth	VPS13A	YES	12
1621	meth_PAWR	meth	PAWR	YES	26
1621	meth_TMEM184B	meth	TMEM184B	YES	4
1623	meth_PGAP1	meth	PGAP1	YES	20
1624	stv_TRAPPC2L	stv	TRAPPC2L	YES	18
1625	meth_B3GALNT2	meth	B3GALNT2	YES	13
1625	meth_C22orf39	meth	C22orf39	YES	1
1626	meth_ABHD16A	meth	ABHD16A	YES	7
1627	meth_LINC00449	meth	LINC00449	NO	0
1628	meth_YIF1A	meth	YIF1A	YES	15
1629	mrna_MAP1LC3A	mrna	MAP1LC3A	YES	30
1630	cnv_OR4C11	cnv	OR4C11	YES	13
1630	meth_CBX8	meth	CBX8	YES	21

1631	meth_NAP1L4	meth	NAP1L4	YES	7
1631	meth_PAFAH1B1	meth	PAFAH1B1	YES	101
1632	meth_DNAJA2	meth	DNAJA2	YES	15
1633	meth_CCDC6	meth	CCDC6	YES	8
1633	meth_ZFHX3	meth	ZFHX3	YES	30
1635	meth_KDM8	meth	KDM8	YES	17
1636	meth_C14orf177	meth	C14orf177	NO	0
1637	meth_CENPM	meth	CENPM	YES	10
1638	meth_NOMO2	meth	NOMO2	YES	7
1639	meth_DDX23	meth	DDX23	YES	22
1639	meth_ITM2B	meth	ITM2B	YES	19
1640	meth_MYL12B	meth	MYL12B	YES	15
1641	meth_AC011290.4	meth	AC011290.4	NO	0
1642	meth_EPHB4	meth	EPHB4	YES	27
1642	meth_RAB5B	meth	RAB5B	YES	25
1643	meth_ARHGEF12	meth	ARHGEF12	YES	17
1643	meth_CDH8	meth	CDH8	YES	14
1644	meth_PABPC4	meth	PABPC4	YES	14
1645	meth_MESDC1	meth	MESDC1	YES	1
1645	meth_PPT1	meth	PPT1	YES	53
1646	meth_RP11-196G11.1	meth	RP11-196G11.1	NO	0
1647	meth_NUP153	meth	NUP153	YES	37
1647	meth_RP11-770J1.3	meth	RP11-770J1.3	NO	0
1648	mrna_PTP4A2P1	mrna	PTP4A2P1	NO	0
1649	meth_ID3	meth	ID3	YES	33
1650	meth_TTC28-AS1_1	meth	TTC28-AS1	NO	0
1652	meth_C5orf24	meth	C5orf24	YES	1
1653	meth_RP11-761B3.1	meth	RP11-761B3.1	NO	0
1653	meth_SPAG1	meth	SPAG1	YES	7
1654	meth_IER3IP1	meth	IER3IP1	YES	9
1655	meth_ZNF227	meth	ZNF227	YES	9
1656	meth_LBX1	meth	LBX1	YES	19
1656	mrna_BLK	mrna	BLK	YES	26
1657	meth_KANK4	meth	KANK4	YES	3
1657	mrna_CCS	mrna	CCS	YES	18
1658	meth_ALAD	meth	ALAD	YES	58
1658	meth_DNTTIP2	meth	DNTTIP2	YES	5
1659	meth_CAT	meth	CAT	YES	75
1659	meth_ZC3H15	meth	ZC3H15	YES	9
1660	meth_ING1	meth	ING1	YES	10
1661	meth_EGLN3	meth	EGLN3	YES	23
1661	meth_GAA	meth	GAA	YES	38
1662	meth_CYB5D2	meth	CYB5D2	YES	6
1662	meth_HABP4	meth	HABP4	YES	13
1663	meth_ASTE1	meth	ASTE1	YES	4
1664	cnv_SPI1	cnv	SPI1	YES	50
1664	meth_NDUFC2	meth	NDUFC2	YES	14
1665	mrna_MIDN	mrna	MIDN	YES	9
1666	meth_ZNF362	meth	ZNF362	YES	6
1668	meth_HEXA	meth	HEXA	YES	30
1668	meth_RP11-166B2.8	meth	RP11-166B2.8	NO	0
1669	meth_RNF44	meth	RNF44	YES	4
1671	meth_CPNE2	meth	CPNE2	YES	7
1671	mrna_KPNA7	mrna	KPNA7	YES	15
1672	meth_FAM45A	meth	FAM45A	NO	0
1673	meth_COX18	meth	COX18	YES	10
1673	meth_FADD	meth	FADD	YES	70
1674	meth_CTD-2619J13.23	meth	CTD-2619J13.23	NO	0
1674	meth_FXYD5	meth	FXYD5	YES	14
1675	mrna_RP11-700H6.4	mrna	RP11-700H6.4	NO	0

1676	meth_KLHL24	meth	KLHL24	YES	14
1678	meth_CCDC9	meth	CCDC9	YES	2
1678	meth_OSTM1	meth	OSTM1	YES	7
1679	meth_MCU	meth	MCU	YES	23
1679	mrna_USP1	mrna	USP1	YES	20
1680	meth_AC132812.1	meth	AC132812.1	NO	0
1680	meth_ACACA	meth	ACACA	YES	30
1682	meth_LBHD1	meth	LBHD1	NO	0
1682	mrna_STT3B	mrna	STT3B	YES	17
1683	meth_BAI2	meth	BAI2	YES	11
1684	meth_ZBTB11	meth	ZBTB11	YES	9
1685	meth_ANP32E	meth	ANP32E	YES	12
1685	meth_CLN3	meth	CLN3	YES	55
1686	meth_AC074212.5	meth	AC074212.5	NO	0
1688	meth_LINC01011	meth	LINC01011	NO	0
1688	meth_NDUFA12	meth	NDUFA12	YES	14
1689	meth_LRRC16A	meth	LRRC16A	YES	10
1690	meth_RAD18	meth	RAD18	YES	33
1691	meth_HUS1	meth	HUS1	YES	25
1691	meth_TET2	meth	TET2	YES	18
1692	meth_RET	meth	RET	YES	66
1693	meth_FUT10	meth	FUT10	YES	23
1693	meth_MIR3166	meth	MIR3166	NO	0
1694	meth_ARL14EP	meth	ARL14EP	YES	8
1695	meth_SMARCA2	meth	SMARCA2	YES	34
1696	meth_PLA2G15	meth	PLA2G15	YES	25
1697	meth_DNM2	meth	DNM2	YES	90
1698	meth_DPH5	meth	DPH5	YES	8
1698	meth_PLEKHB2	meth	PLEKHB2	YES	7
1699	meth_LRRC1	meth	LRRC1	YES	5
1699	meth_METTL8	meth	METTL8	YES	9
1700	meth_SLC27A4	meth	SLC27A4	YES	27
1700	meth_SMARCA5	meth	SMARCA5	YES	34
1701	mrna_TOX3	mrna	TOX3	YES	13
1702	meth_RBM8A	meth	RBM8A	YES	27
1703	meth_ARMC9	meth	ARMC9	YES	2
1704	meth_GRK5	meth	GRK5	YES	32
1705	meth_PSG7	meth	PSG7	NO	0
1706	meth_MGAT2	meth	MGAT2	YES	14
1707	meth_POLA2	meth	POLA2	YES	18
1708	meth_CDHR1	meth	CDHR1	YES	10
1709	meth_RARG	meth	RARG	YES	62
1710	meth_DDX27	meth	DDX27	YES	15
1711	cnv_C17orf78	cnv	C17orf78	YES	2
1712	meth_HNRNPH3	meth	HNRNPH3	YES	13
1713	meth_EDEM3	meth	EDEM3	YES	17
1713	meth_H6PD	meth	H6PD	YES	20
1715	meth_SERPINB6	meth	SERPINB6	YES	17
1716	meth_THBS3	meth	THBS3	YES	10
1716	mrna_L2HGDH	mrna	L2HGDH	YES	11
1718	meth_RP5-1073O3.2	meth	RP5-1073O3.2	NO	0
1719	meth_KPNA2	meth	KPNA2	YES	21
1719	meth_WWC1	meth	WWC1	YES	25
1720	meth_CSDE1	meth	CSDE1	YES	13
1721	meth_ASAP3	meth	ASAP3	YES	12
1722	meth_ANKRD10	meth	ANKRD10	YES	2
1722	mrna_PON2	mrna	PON2	YES	17
1723	meth_CTD-2292P10.2	meth	CTD-2292P10.2	NO	0
1723	meth_ILK	meth	ILK	YES	81
1724	meth_ARID1B	meth	ARID1B	YES	19

1725	meth_ATXN1	meth	ATXN1	YES	26
1726	meth_GADD45A	meth	GADD45A	YES	30
1727	meth_NUP43	meth	NUP43	YES	28
1727	meth_RPS24	meth	RPS24	YES	28
1728	mrna_RP11-876N24.1	mrna	RP11-876N24.1	NO	0
1729	meth_PSD2	meth	PSD2	YES	12
1729	meth_SIM2	meth	SIM2	YES	18
1730	meth_AKAP1	meth	AKAP1	YES	11
1730	meth_GALK1	meth	GALK1	YES	19
1731	cnv_MRM1	cnv	MRM1	YES	14
1731	meth_ERCC1	meth	ERCC1	YES	63
1732	meth_PDLIM7	meth	PDLIM7	YES	18
1732	meth_PODXL	meth	PODXL	YES	32
1733	meth_HSD17B6	meth	HSD17B6	YES	18
1734	meth_KLF14	meth	KLF14	YES	5
1735	meth_PIK3R4	meth	PIK3R4	YES	36
1736	meth_ZNF517	meth	ZNF517	YES	7
1737	meth_CTD-3203P2.3	meth	CTD-3203P2.3	NO	0
1738	meth_OLA1	meth	OLA1	YES	21
1739	meth_NAA50	meth	NAA50	YES	14
1740	meth_SH3GL3	meth	SH3GL3	YES	12
1740	meth_SLC26A4	meth	SLC26A4	YES	32
1741	meth_POLDIP3	meth	POLDIP3	YES	21
1742	meth_C1QTNF1	meth	C1QTNF1	YES	18
1742	meth_CEACAM8	meth	CEACAM8	YES	13
1743	meth_CCDC65	meth	CCDC65	NO	0
1743	meth_CHD8	meth	CHD8	YES	38
1745	stv_RP11-598P20.5	stv	RP11-598P20.5	NO	0
1747	meth_CNPY2	meth	CNPY2	YES	8
1748	mrna_MAN2B2	mrna	MAN2B2	YES	16
1749	cnv_POM121	cnv	POM121	YES	29
1751	meth_MMS22L	meth	MMS22L	YES	11
1751	meth_SLCO2A1	meth	SLCO2A1	YES	13
1752	meth_AMD1	meth	AMD1	YES	11
1752	meth_SNX10	meth	SNX10	YES	25
1754	meth_PON2	meth	PON2	YES	17
1754	mrna_CD19	mrna	CD19	YES	21
1755	meth_SYT9	meth	SYT9	YES	26
1756	meth_FERMT2	meth	FERMT2	YES	31
1756	meth_PDCD11	meth	PDCD11	YES	14
1758	meth_HEBP2	meth	HEBP2	YES	10
1760	meth_ADRA1D	meth	ADRA1D	YES	24
1760	meth_CYP2S1	meth	CYP2S1	YES	20
1761	meth_DNAJC3	meth	DNAJC3	YES	28
1761	meth_PQLC1	meth	PQLC1	YES	2
1762	meth_KIF18A	meth	KIF18A	YES	35
1763	meth_FLOT2	meth	FLOT2	YES	33
1763	meth_TFEC	meth	TFEC	YES	16
1764	meth_ARRB2	meth	ARRB2	YES	86
1765	meth_FIBP	meth	FIBP	YES	9
1766	meth_TERF2	meth	TERF2	YES	45
1768	meth_LMBR1L	meth	LMBR1L	YES	4
1769	meth_EIF3H	meth	EIF3H	YES	15
1769	meth_PREP	meth	PREP	YES	11
1770	meth_LINC01140	meth	LINC01140	NO	0
1771	meth_C1orf43	meth	C1orf43	YES	4
1771	meth_ZNF140	meth	ZNF140	YES	11
1772	meth_CUL4A	meth	CUL4A	YES	38
1772	meth_PLA2G6	meth	PLA2G6	YES	39
1773	meth_TRAIP	meth	TRAIP	YES	16

1774	mrna_GGT8P	mrna	GGT8P	NO	0
1775	meth_TMEM260	meth	TMEM260	YES	2
1776	mirna_MIR4728	mirna	MIR4728	NO	0
1777	meth_MIR4453	meth	MIR4453	NO	0
1777	mrna_NUDC	mrna	NUDC	YES	17
1778	meth_AC105760.2	meth	AC105760.2	NO	0
1778	meth_PAN2	meth	PAN2	YES	17
1779	meth_EYA1	meth	EYA1	YES	61
1779	meth_PAPOLG	meth	PAPOLG	YES	16
1780	meth_C1orf228	meth	C1orf228	YES	1
1780	meth_COPS3	meth	COPS3	YES	14
1781	meth_CDC42EP2	meth	CDC42EP2	YES	19
1781	meth_KLF7	meth	KLF7	YES	18
1782	meth_TPST2	meth	TPST2	YES	10
1783	meth_TUT1	meth	TUT1	YES	21
1784	meth_SIGMAR1	meth	SIGMAR1	YES	27
1785	meth_SIRT5	meth	SIRT5	YES	29
1786	meth_CBFA2T2	meth	CBFA2T2	YES	14
1787	cnv_NUP160	cnv	NUP160	YES	23
1787	meth_CD44	meth	CD44	YES	42
1788	meth_EME2	meth	EME2	YES	16
1788	meth_PNMA1	meth	PNMA1	YES	8
1789	meth_RAB40C	meth	RAB40C	YES	15
1790	meth_ATPAF2	meth	ATPAF2	YES	5
1791	meth_STRAP	meth	STRAP	YES	19
1793	meth_GSTZ1	meth	GSTZ1	YES	19
1793	meth_HIST1H2BH	meth	HIST1H2BH	YES	10
1794	meth_DSCC1	meth	DSCC1	YES	16
1794	meth_RSU1	meth	RSU1	YES	7
1796	meth_CALB1	meth	CALB1	YES	35
1796	mirna_MIR4758	mirna	MIR4758	NO	0
1797	meth_USHBP1	meth	USHBP1	YES	2
1798	meth_CAMK1D	meth	CAMK1D	YES	28
1798	meth_SAP18	meth	SAP18	YES	23
1799	meth_H2AFY2	meth	H2AFY2	YES	25
1799	meth_MED1	meth	MED1	YES	100
1800	meth_ANAPC16	meth	ANAPC16	YES	18
1800	meth_ARPC1A	meth	ARPC1A	YES	15
1801	meth_BCKDHB	meth	BCKDHB	YES	16
1802	meth_COA5	meth	COA5	YES	3
1802	meth_COL4A1	meth	COL4A1	YES	25
1803	meth_TP53I3	meth	TP53I3	YES	11
1804	meth_PTGR2	meth	PTGR2	YES	7
1805	meth_AP000640.10	meth	AP000640.10	NO	0
1805	meth_RPN1	meth	RPN1	YES	17
1806	meth_ADPRHL2	meth	ADPRHL2	YES	10
1808	meth_RCC2	meth	RCC2	YES	38
1809	meth_CLSTN3	meth	CLSTN3	YES	22
1810	meth_AGPAT3	meth	AGPAT3	YES	17
1810	meth_C1orf159	meth	C1orf159	YES	2
1811	mrna_UBE2G1	mrna	UBE2G1	YES	15
1812	meth_CKAP2L	meth	CKAP2L	YES	6
1812	meth_HDDC3	meth	HDDC3	YES	4
1813	meth_CNBP	meth	CNBP	YES	22
1814	meth_UMPS	meth	UMPS	YES	20
1816	meth_XPR1	meth	XPR1	YES	17
1817	meth_CCDC12	meth	CCDC12	YES	6
1817	meth_EAF2	meth	EAF2	YES	17
1818	meth_DYNC1LI1	meth	DYNC1LI1	YES	35
1819	meth_PHIP	meth	PHIP	YES	20

1819	meth_SPG21	meth	SPG21	YES	11
1820	meth_MPC1	meth	MPC1	YES	14
1821	meth_COMMD4	meth	COMMD4	YES	5
1822	meth_SYNDIG1	meth	SYNDIG1	YES	25
1823	meth_MRPL46	meth	MRPL46	YES	14
1823	meth_SLC2A4	meth	SLC2A4	YES	46
1824	meth_FTH1	meth	FTH1	YES	25
1826	meth_FEN1	meth	FEN1	YES	37
1826	meth_MCM4	meth	MCM4	YES	19
1828	meth_HAS3	meth	HAS3	YES	16
1828	meth_MCOLN3	meth	MCOLN3	YES	10
1829	meth_PLEKHH3	meth	PLEKHH3	YES	3
1830	mrna_CX3CL1	mrna	CX3CL1	YES	42
1831	meth_CDC27	meth	CDC27	YES	23
1832	meth_AC013472.4	meth	AC013472.4	NO	0
1832	meth_MAP2K4	meth	MAP2K4	YES	43
1833	meth_AP4B1	meth	AP4B1	YES	15
1834	meth_RBM43	meth	RBM43	YES	3
1835	meth_ZNF146	meth	ZNF146	YES	10
1836	meth_MAPK14	meth	MAPK14	YES	92
1837	meth_CAPS2	meth	CAPS2	YES	5
1838	meth_CTD-2574D22.7	meth	CTD-2574D22.7	NO	0
1838	meth_TMEM180	meth	TMEM180	YES	1
1839	meth_CHRD	meth	CHRD	YES	22
1841	mrna_GOLM1	mrna	GOLM1	YES	12
1842	cnv_OR4C6	cnv	OR4C6	YES	13
1842	meth_HSPBP1	meth	HSPBP1	YES	7
1843	meth_AC002064.7	meth	AC002064.7	NO	0
1844	meth_DCTN5	meth	DCTN5	YES	16
1845	stv_CRLF3	stv	CRLF3	YES	13
1845	stv_ORM2	stv	ORM2	YES	15
1846	meth_AHCYL1	meth	AHCYL1	YES	27
1846	meth_AK3	meth	AK3	YES	18
1848	cnv_WBSCR17	cnv	WBSCR17	YES	5
1849	meth_C2orf42	meth	C2orf42	YES	3
1850	meth_SAPCD2	meth	SAPCD2	YES	4
1851	meth_CASP7	meth	CASP7	YES	23
1851	meth_TXNL4A	meth	TXNL4A	YES	16
1852	meth_PMVK	meth	PMVK	YES	21
1853	meth_TEKT1	meth	TEKT1	YES	12
1855	meth_MAGI1	meth	MAGI1	YES	20
1855	meth_SLX4	meth	SLX4	YES	32
1856	meth_SCAF8	meth	SCAF8	YES	10
1856	meth_SLC22A4	meth	SLC22A4	YES	32
1857	meth_LRRC20	meth	LRRC20	YES	1
1857	meth_RNF11	meth	RNF11	YES	17
1858	meth_SNX18	meth	SNX18	YES	24
1859	meth_AP000708.1	meth	AP000708.1	NO	0
1859	meth_PIGZ	meth	PIGZ	YES	10
1860	meth_CTD-2033C11.1	meth	CTD-2033C11.1	NO	0
1861	meth_NFIC	meth	NFIC	YES	17
1861	meth_STX18	meth	STX18	YES	21
1862	meth_TAF1C	meth	TAF1C	YES	17
1863	meth_RBM19	meth	RBM19	YES	10
1864	meth_LIPT1	meth	LIPT1	YES	9
1865	meth_PRKCI	meth	PRKCI	YES	57
1865	meth_VPS36	meth	VPS36	YES	23
1866	meth_RUFY1	meth	RUFY1	YES	16
1867	meth_KLHL5	meth	KLHL5	YES	10
1867	meth_RP3-508I15.9	meth	RP3-508I15.9	NO	0

1868	meth_CCDC24	meth	CCDC24	YES	1
1868	meth_FNTB	meth	FNTB	YES	27
1869	meth_GCH1	meth	GCH1	YES	47
1869	meth_NUDT16	meth	NUDT16	YES	38
1870	meth_RP11-463D19.2	meth	RP11-463D19.2	NO	0
1871	meth_CCAR1	meth	CCAR1	YES	17
1871	meth_CXCR4	meth	CXCR4	YES	51
1873	meth_EN1	meth	EN1	YES	33
1873	meth_RP11-654A16.3	meth	RP11-654A16.3	NO	0
1874	meth_IQGAP1	meth	IQGAP1	YES	66
1875	meth_PRAP1	meth	PRAP1	YES	2
1875	meth_RP11-51F16.8	meth	RP11-51F16.8	NO	0
1876	mrna_ARFGAP2	mrna	ARFGAP2	YES	14
1877	meth_CYB5A	meth	CYB5A	YES	20
1877	meth_IL1RAP	meth	IL1RAP	YES	26
1878	meth_NDUFAB1	meth	NDUFAB1	YES	25
1880	meth_PTRF	meth	PTRF	YES	14
1880	mrna_MDFIC	mrna	MDFIC	YES	20
1882	cnv_CELF1	cnv	CELF1	YES	23
1883	cnv_TRIM51	cnv	TRIM51	YES	4
1883	meth_KBTBD4	meth	KBTBD4	YES	7
1884	meth_KIF3B	meth	KIF3B	YES	37
1885	meth_CRELD1	meth	CRELD1	YES	5
1886	meth_TSPAN13	meth	TSPAN13	YES	8
1886	meth_TUBB2B	meth	TUBB2B	YES	16
1887	mrna_MID1IP1	mrna	MID1IP1	YES	15
1888	mrna_SLC22A18AS	mrna	SLC22A18AS	YES	3
1889	meth_RP11-380O24.1	meth	RP11-380O24.1	NO	0
1890	meth_NGRN	meth	NGRN	YES	7
1890	meth_SH3RF2	meth	SH3RF2	YES	9
1892	meth_PVT1	meth	PVT1	NO	0
1893	meth_ATP6V1H	meth	ATP6V1H	YES	24
1894	meth_TCEB3	meth	TCEB3	YES	13
1894	mrna_GINS1	mrna	GINS1	YES	10
1896	meth_ANK2	meth	ANK2	YES	73
1896	meth_GRIN3A	meth	GRIN3A	YES	31
1897	meth_SBDS	meth	SBDS	YES	22
1902	meth_CAPZA1	meth	CAPZA1	YES	20
1902	meth_SDC2	meth	SDC2	YES	25
1903	meth_FAM229B	meth	FAM229B	NO	0
1903	meth_HSPA8	meth	HSPA8	YES	77
1904	mrna_DECR1	mrna	DECR1	YES	15
1905	meth_LRRC6	meth	LRRC6	YES	14
1905	meth_SPTB	meth	SPTB	YES	22
1907	meth_CUTA	meth	CUTA	YES	8
1907	meth_ZNF644	meth	ZNF644	YES	6
1908	meth_ATR	meth	ATR	YES	39
1908	meth_SLC16A11	meth	SLC16A11	YES	12
1909	meth_CNNM1	meth	CNNM1	YES	6
1910	meth_RP1-191J18.66	meth	RP1-191J18.66	NO	0
1911	meth_MAP3K12	meth	MAP3K12	YES	29
1912	meth_ARMC1	meth	ARMC1	YES	6
1912	meth_NEUROD4	meth	NEUROD4	YES	18
1913	meth_GLRX3	meth	GLRX3	YES	20
1914	mrna_FARSB	mrna	FARSB	YES	16
1915	meth_C15orf39	meth	C15orf39	YES	1
1915	meth_FAM32A	meth	FAM32A	YES	7
1916	meth_GFM2	meth	GFM2	YES	12
1917	meth_NAA35	meth	NAA35	YES	8
1917	mrna_AC016708.2	mrna	AC016708.2	NO	0

1918	meth_LDLRAD4	meth	LDLRAD4	YES	13
1918	meth_MDC1	meth	MDC1	YES	13
1919	meth_LSM4	meth	LSM4	YES	24
1920	meth_EVI5L	meth	EVI5L	YES	12
1920	mrna_AC006273.4	mrna	AC006273.4	NO	0
1921	meth_NEIL2	meth	NEIL2	YES	26
1923	meth_SCAMP2	meth	SCAMP2	YES	13
1923	mrna_ARHGEF16	mrna	ARHGEF16	YES	16
1924	meth_GDF11	meth	GDF11	YES	29
1924	meth_SPCS2	meth	SPCS2	YES	12
1925	meth_DPF2	meth	DPF2	YES	15
1926	meth_FOXF1	meth	FOXF1	YES	65
1927	meth_RP11-798M19.6	meth	RP11-798M19.6	NO	0
1929	meth_SYNJ2	meth	SYNJ2	YES	23
1930	meth_SET	meth	SET	YES	24
1930	mrna_MAL2	mrna	MAL2	YES	15
1931	meth_POC1A	meth	POC1A	YES	15
1932	meth_PSG9	meth	PSG9	YES	4
1933	meth_FGFR4	meth	FGFR4	YES	50
1934	meth_MORC2	meth	MORC2	YES	7
1934	meth_SLC29A3	meth	SLC29A3	YES	13
1936	meth_PITPNB	meth	PITPNB	YES	12
1937	meth_HMGN2P46	meth	HMGN2P46	NO	0
1937	mrna_TEC	mrna	TEC	YES	34
1938	meth_C9orf3	meth	C9orf3	YES	14
1938	meth_CENPN	meth	CENPN	YES	12
1939	meth_PASK	meth	PASK	YES	20
1939	stv_GPR156	stv	GPR156	YES	8
1941	meth_CTTNBP2NL	meth	CTTNBP2NL	YES	8
1941	meth_SPSB1	meth	SPSB1	YES	9
1943	meth_ABCC1	meth	ABCC1	YES	28
1943	mirna_MIR3176	mirna	MIR3176	NO	0
1945	cnv_CCL3L1	cnv	CCL3L1	YES	19
1945	meth_CLPX	meth	CLPX	YES	20
1946	meth_RPL5	meth	RPL5	YES	37
1947	meth_CTD-2292M16.7	meth	CTD-2292M16.7	NO	0
1948	meth_ZC3H18	meth	ZC3H18	YES	6
1949	meth_MAP3K7	meth	MAP3K7	YES	56
1950	mrna_MBL1P	mrna	MBL1P	NO	0
1951	meth_ADAM11	meth	ADAM11	YES	11
1951	meth_C11orf71	meth	C11orf71	NO	0
1952	meth_CCDC151	meth	CCDC151	YES	14
1952	meth_RP11-613C6.2	meth	RP11-613C6.2	NO	0
1953	meth_COL8A1	meth	COL8A1	YES	18
1953	meth_MATK	meth	MATK	YES	24
1954	meth_MON1A	meth	MON1A	YES	8
1955	meth_C11orf80	meth	C11orf80	YES	4
1955	meth_COX5B	meth	COX5B	YES	12
1956	meth_CCDC126	meth	CCDC126	YES	5
1956	meth_MAPK1	meth	MAPK1	YES	125
1957	meth_CTC-429P9.4	meth	CTC-429P9.4	NO	0
1957	meth_RP11-486O13.2	meth	RP11-486O13.2	NO	0
1958	meth_TXNRD1	meth	TXNRD1	YES	44
1959	meth_ASUN	meth	ASUN	YES	7
1961	stv_NTN1	stv	NTN1	YES	23
1962	meth_SUMO2	meth	SUMO2	YES	13
1963	mrna_AC027612.4	mrna	AC027612.4	NO	0
1965	meth_RNPEP	meth	RNPEP	YES	18
1966	meth_ANKRD42	meth	ANKRD42	YES	9
1966	meth_WDR18	meth	WDR18	YES	6

1967	meth_ASF1B	meth	ASF1B	YES	17
1967	meth_CCT2	meth	CCT2	YES	30
1968	mrna_RAD18	mrna	RAD18	YES	33
1968	mrna_RP11-345J18.2	mrna	RP11-345J18.2	NO	0
1969	meth_GAS5	meth	GAS5	NO	0
1969	meth_MYO19	meth	MYO19	YES	15
1971	meth_AC002398.11	meth	AC002398.11	NO	0
1971	meth_RP5-902P8.10	meth	RP5-902P8.10	NO	0
1973	meth_RP11-486O12.2	meth	RP11-486O12.2	NO	0
1974	meth_RBM15	meth	RBM15	YES	16
1975	meth_MMAB	meth	MMAB	YES	10
1975	meth_TAPBP	meth	TAPBP	YES	30
1976	meth_KLHDC10	meth	KLHDC10	YES	4
1978	meth_RP11-603J24.5	meth	RP11-603J24.5	NO	0
1979	meth_NRN1	meth	NRN1	YES	14
1979	meth_ZNF502	meth	ZNF502	YES	9
1980	meth_PXT1	meth	PXT1	YES	5
1981	meth_COTL1	meth	COTL1	YES	14
1981	meth_GZF1	meth	GZF1	YES	16
1982	cnv_MYO19	cnv	MYO19	YES	15
1983	meth_ATP8A1	meth	ATP8A1	YES	32
1983	meth_SNRPE	meth	SNRPE	YES	32
1986	meth_UQCRC2	meth	UQCRC2	YES	21
1987	meth_TBRG1	meth	TBRG1	YES	8
1987	stv_MIA3	stv	MIA3	YES	22
1988	meth_CLCN2	meth	CLCN2	YES	18
1989	meth_CRYZ	meth	CRYZ	YES	14
1989	meth_TTL	meth	TTL	YES	7
1990	meth_RAB21	meth	RAB21	YES	34
1990	mrna_RP11-146E13.5	mrna	RP11-146E13.5	NO	0
1991	meth_C11orf39	meth	C11orf39	NO	0
1991	meth_CNNM3	meth	CNNM3	YES	8
1992	meth_MIR3652	meth	MIR3652	NO	0
1993	meth_CCDC88A	meth	CCDC88A	YES	37
1994	meth_EPB41	meth	EPB41	YES	36
1995	meth_FAM177A1	meth	FAM177A1	NO	0
1995	meth_PTK2B	meth	PTK2B	YES	146
1996	meth_LAMC1	meth	LAMC1	YES	24
1997	meth_LUC7L3	meth	LUC7L3	YES	12
1998	meth_AL512506.1	meth	AL512506.1	NO	0
1998	mrna_BMS1P10	mrna	BMS1P10	NO	0
1999	meth_MRPL42	meth	MRPL42	YES	14
1999	meth_PEAK1	meth	PEAK1	YES	19
2001	meth_ENTPD7	meth	ENTPD7	YES	9
2001	meth_GTF2B	meth	GTF2B	YES	23
2002	meth_ACOT12	meth	ACOT12	YES	13
2004	meth_NMI	meth	NMI	YES	16
2004	meth_UBE2J1	meth	UBE2J1	YES	17
2007	meth_GRN	meth	GRN	YES	13
2007	meth_LINC00441	meth	LINC00441	NO	0
2008	meth_CEBPD	meth	CEBPD	YES	21
2009	meth_FOXP1	meth	FOXP1	YES	74
2010	meth_PRKG1	meth	PRKG1	YES	28
2011	meth_ATP5A1	meth	ATP5A1	YES	35
2011	meth_PCYT1A	meth	PCYT1A	YES	22
2012	meth_SRGAP1	meth	SRGAP1	YES	12
2014	meth_HELLS	meth	HELLS	YES	24
2014	meth_ZZZ3	meth	ZZZ3	YES	9
2015	meth_MRPL20	meth	MRPL20	YES	15
2015	meth_RP11-269F19.2	meth	RP11-269F19.2	NO	0

2016	cnv_SYNRG	cnv	SYNRG	YES	9
2016	meth_RAB4B	meth	RAB4B	YES	16
2017	meth_ECD	meth	ECD	YES	17
2018	meth_MTCH2	meth	MTCH2	YES	9
2019	meth_RP11-21L23.3	meth	RP11-21L23.3	NO	0
2020	stv_ME1	stv	ME1	YES	24
2021	meth_FUT11	meth	FUT11	YES	13
2022	meth_RP11-343C2.11	meth	RP11-343C2.11	NO	0
2022	meth_TMEM55B	meth	TMEM55B	YES	11
2023	meth_CACTIN-AS1	meth	CACTIN-AS1	NO	0
2023	meth_TSPO	meth	TSPO	YES	59
2024	meth_RP1-37E16.12	meth	RP1-37E16.12	NO	0
2024	mrna_MACROD1	mrna	MACROD1	YES	10
2025	meth_FBXO7	meth	FBXO7	YES	34
2028	meth_OPRK1	meth	OPRK1	YES	53
2029	cnv_OR4S2	cnv	OR4S2	YES	13
2029	meth_AGA	meth	AGA	YES	14
2032	stv_STK3	stv	STK3	YES	44
2034	meth_INTS5	meth	INTS5	YES	10
2034	meth_SEC11A	meth	SEC11A	YES	13
2035	meth_MB21D2	meth	MB21D2	YES	2
2035	mrna_SUPT16H	mrna	SUPT16H	YES	20
2037	meth_FBXO9	meth	FBXO9	YES	13
2038	meth_TOPBP1	meth	TOPBP1	YES	25
2039	meth_RP11-74C1.4	meth	RP11-74C1.4	NO	0
2040	mrna_TMEM187	mrna	TMEM187	YES	5
2041	meth_C4orf32	meth	C4orf32	YES	2
2041	meth_PRSS12	meth	PRSS12	YES	18
2042	meth_CYP39A1	meth	CYP39A1	YES	22
2044	meth_AKIRIN2	meth	AKIRIN2	YES	19
2044	mrna_SOWAHB	mrna	SOWAHB	YES	1
2045	meth_C11orf65	meth	C11orf65	YES	1
2045	meth_IP6K2	meth	IP6K2	YES	24
2046	meth_GNB2	meth	GNB2	YES	24
2047	meth_IFI30	meth	IFI30	YES	14
2047	meth_SIAH2	meth	SIAH2	YES	32
2048	meth_EPB41L4A	meth	EPB41L4A	YES	8
2049	meth_CIB1	meth	CIB1	YES	81
2050	meth_ARL6IP5	meth	ARL6IP5	YES	17
2051	meth_NMRK1	meth	NMRK1	YES	13
2052	meth_C6orf106	meth	C6orf106	YES	7
2053	meth_OMA1	meth	OMA1	YES	22
2054	meth_MPV17	meth	MPV17	YES	12
2054	mrna_AC019117.2	mrna	AC019117.2	NO	0
2055	meth_ARL5A	meth	ARL5A	YES	11
2055	meth_RAF1	meth	RAF1	YES	67
2056	meth_FLJ31356	meth	FLJ31356	NO	0
2056	meth_SIN3A	meth	SIN3A	YES	53
2058	meth_SLC39A11	meth	SLC39A11	YES	14
2059	meth_HS2ST1	meth	HS2ST1	YES	10
2060	meth_CAPNS1	meth	CAPNS1	YES	15
2060	meth_PSME1	meth	PSME1	YES	36
2061	meth_DHRS11	meth	DHRS11	YES	6
2061	mrna_LMO7DN	mrna	LMO7DN	NO	0
2062	meth_CHMP2B	meth	CHMP2B	YES	34
2062	meth_FAM84A	meth	FAM84A	NO	0
2063	meth_C14orf159	meth	C14orf159	YES	9
2063	meth_KIF16B	meth	KIF16B	YES	32
2065	mirna_MIR1275	mirna	MIR1275	NO	0
2066	meth_MIR6084	meth	MIR6084	NO	0

2066	meth_NUP35	meth	NUP35	YES	33
2067	meth_SUCLG1	meth	SUCLG1	YES	21
2068	meth_COL27A1	meth	COL27A1	YES	9
2068	meth_SGMS1	meth	SGMS1	YES	26
2069	meth_AC135048.13	meth	AC135048.13	NO	0
2069	mrna_RP11-159H10.3	mrna	RP11-159H10.3	NO	0
2070	mrna_RP11-359I18.5	mrna	RP11-359I18.5	NO	0
2071	meth_IDH3B	meth	IDH3B	YES	15
2072	meth_RSL24D1	meth	RSL24D1	YES	12
2073	meth_CTNNB1	meth	CTNNB1	YES	260
2074	meth_CTA-293F17.1	meth	CTA-293F17.1	NO	0
2074	meth_CTD-3193O13.8	meth	CTD-3193O13.8	NO	0
2075	meth_POMK	meth	POMK	YES	20
2075	meth_TGM3	meth	TGM3	YES	18
2076	meth_CIPC	meth	CIPC	YES	9
2077	meth_HOXD11	meth	HOXD11	YES	23
2077	meth_PPIA	meth	PPIA	YES	36
2078	meth_TPK1	meth	TPK1	YES	11
2079	meth_NOL7	meth	NOL7	YES	4
2080	meth_AMER2	meth	AMER2	YES	10
2081	meth_EMX1	meth	EMX1	YES	23
2081	mrna_E2F8	mrna	E2F8	YES	29
2082	meth_FLCN	meth	FLCN	YES	41
2083	meth_CBX6	meth	CBX6	YES	10
2083	meth_SV2A	meth	SV2A	YES	26
2084	meth_COX11	meth	COX11	YES	11
2084	meth_HOXB5	meth	HOXB5	YES	19
2085	meth_FGFR3	meth	FGFR3	YES	82
2087	mrna_HKDC1	mrna	HKDC1	YES	19
2088	meth_EMILIN2	meth	EMILIN2	YES	9
2088	meth_MTFR1	meth	MTFR1	YES	6
2089	meth_RASAL2	meth	RASAL2	YES	11
2089	mirna_MIR5708	mirna	MIR5708	NO	0
2090	meth_ANAPC5	meth	ANAPC5	YES	18
2090	meth_MIB1	meth	MIB1	YES	25
2091	meth_RP11-89H19.2	meth	RP11-89H19.2	NO	0
2091	meth_TIAL1	meth	TIAL1	YES	18
2092	cnv_OR8J3	cnv	OR8J3	YES	12
2092	mrna_SIPA1	mrna	SIPA1	YES	23
2093	meth_CLSTN2	meth	CLSTN2	YES	15
2093	meth_DCHS1	meth	DCHS1	YES	29
2094	meth_HOTTIP	meth	HOTTIP	NO	0
2095	meth_ZNF592	meth	ZNF592	YES	7
2096	meth_AC005076.5	meth	AC005076.5	NO	0
2097	meth_ATXN2L	meth	ATXN2L	YES	12
2098	meth_MRFAP1L1	meth	MRFAP1L1	YES	2
2099	meth_LPPR3	meth	LPPR3	NO	0
2100	meth_MSTO1	meth	MSTO1	YES	8
2100	meth_STX4	meth	STX4	YES	54
2102	meth_CTD-2588J6.2	meth	CTD-2588J6.2	NO	0
2102	mrna_FAM107B	mrna	FAM107B	NO	0
2103	meth_ZNRD1-AS1_3	meth	ZNRD1-AS1	NO	0
2104	meth_MAPK13	meth	MAPK13	YES	26
2104	meth_MDM2	meth	MDM2	YES	101
2106	meth_CENPE	meth	CENPE	YES	43
2107	meth_MEF2BNB	meth	MEF2BNB	YES	2
2108	meth_KDM1B	meth	KDM1B	YES	24
2109	meth_POLE4	meth	POLE4	YES	15
2109	meth_TOP2A	meth	TOP2A	YES	50
2110	meth_DEDD2	meth	DEDD2	YES	17

2110	meth_PLIN3	meth	PLIN3	YES	12
2111	meth_MFI2	meth	MFI2	YES	8
2111	meth_OASL	meth	OASL	YES	20
2112	meth_AC006486.10	meth	AC006486.10	NO	0
2112	meth_HOOK3	meth	HOOK3	YES	29
2113	meth_METTL7B	meth	METTL7B	YES	4
2113	meth_MYH9	meth	MYH9	YES	72
2115	meth_AC068580.1	meth	AC068580.1	NO	0
2115	meth_BNIP3L	meth	BNIP3L	YES	31
2117	meth_NEMF	meth	NEMF	YES	4
2118	meth_ATP5J2	meth	ATP5J2	YES	19
2118	meth_RP11-332H18.5	meth	RP11-332H18.5	NO	0
2119	meth_SCN3B	meth	SCN3B	YES	36
2120	meth_ZNF394	meth	ZNF394	YES	9
2121	meth_RGS6	meth	RGS6	YES	15
2122	meth_SLC6A2	meth	SLC6A2	YES	24
2124	meth_LINC01465	meth	LINC01465	NO	0
2125	mrna_DLL1	mrna	DLL1	YES	78
2126	meth_ZCCHC24	meth	ZCCHC24	YES	4
2127	cnv_SLC39A13	cnv	SLC39A13	YES	20
2130	mrna_CCDC138	mrna	CCDC138	NO	0
2131	meth_CCNG2	meth	CCNG2	YES	5
2131	meth_CLDN1	meth	CLDN1	YES	39
2133	meth_HIST1H2AD	meth	HIST1H2AD	YES	10
2134	meth_HIPK1	meth	HIPK1	YES	37
2134	meth_TMEM33	meth	TMEM33	YES	19
2135	mrna_DMBX1	mrna	DMBX1	YES	19
2135	mrna_RP3-340N1.2	mrna	RP3-340N1.2	NO	0
2136	cnv_MYBPC3	cnv	MYBPC3	YES	33
2136	meth_CAPN10	meth	CAPN10	YES	19
2137	meth_ASPSCR1	meth	ASPSCR1	YES	21
2138	meth_FAM188A	meth	FAM188A	YES	5
2139	meth_POMP	meth	POMP	YES	10
2140	meth_RRS1	meth	RRS1	YES	18
2141	meth_MCOLN1	meth	MCOLN1	YES	24
2141	mrna_UBE2C	mrna	UBE2C	YES	32
2142	meth_ATP6V1G2-DDX39B	meth	ATP6V1G2-DDX39B	YES	6
2143	meth_FLJ44511	meth	FLJ44511	NO	0
2144	meth_GS1-279B7.2	meth	GS1-279B7.2	NO	0
2145	meth_NUTF2	meth	NUTF2	YES	24
2146	meth_NDUFA9	meth	NDUFA9	YES	18
2146	meth_VEPH1	meth	VEPH1	YES	2
2147	cnv_MIR4688	cnv	MIR4688	NO	0
2148	meth_AC142528.1	meth	AC142528.1	NO	0
2148	meth_DLD	meth	DLD	YES	38
2149	meth_SRSF6	meth	SRSF6	YES	26
2150	mrna_LINC00898	mrna	LINC00898	NO	0
2151	meth_CRYZL1	meth	CRYZL1	YES	8
2151	mrna_FCRL1	mrna	FCRL1	YES	3
2152	meth_DEPDC4	meth	DEPDC4	YES	3
2152	meth_PPA1	meth	PPA1	YES	11
2153	cnv_OR8H1	cnv	OR8H1	YES	12
2153	meth_ZBED4	meth	ZBED4	YES	11
2155	meth_FAM98A	meth	FAM98A	YES	7
2155	mrna_SUCLG2P2	mrna	SUCLG2P2	NO	0
2156	meth_MCF2L2	meth	MCF2L2	YES	4
2156	meth_NLN	meth	NLN	YES	15
2157	meth_RP11-40H20.4	meth	RP11-40H20.4	NO	0
2157	mrna_RP13-314C10.5	mrna	RP13-314C10.5	NO	0
2159	meth_CLUHP3	meth	CLUHP3	NO	0

2159	mrna_RP11-48B3.5	mrna	RP11-48B3.5	NO	0
2160	meth_SOX12	meth	SOX12	YES	16
2161	meth_IDH1	meth	IDH1	YES	36
2162	meth_FRS3	meth	FRS3	YES	12
2162	meth_PMM2	meth	PMM2	YES	13
2164	mirna_MIR7112	mirna	MIR7112	NO	0
2165	meth_TRUB1	meth	TRUB1	YES	10
2165	meth_UBE2K	meth	UBE2K	YES	22
2166	meth_CGGBP1	meth	CGGBP1	YES	12
2166	meth_ROPN1L	meth	ROPN1L	YES	4
2168	meth_GOLGA2	meth	GOLGA2	YES	38
2168	meth_VCL	meth	VCL	YES	53
2169	cnv_ARHGAP1	cnv	ARHGAP1	YES	24
2169	meth_SCAMP3	meth	SCAMP3	YES	8
2170	meth_CHIC2	meth	CHIC2	YES	10
2170	meth_OXR1	meth	OXR1	YES	14
2171	meth_HS6ST3	meth	HS6ST3	YES	6
2171	meth_VPS26A	meth	VPS26A	YES	21
2172	meth_FASTKD2	meth	FASTKD2	YES	12
2173	meth_MXD4	meth	MXD4	YES	9
2174	meth_CTB-66B24.1	meth	CTB-66B24.1	NO	0
2174	meth_ELL3	meth	ELL3	YES	21
2175	meth_MXRA7	meth	MXRA7	YES	2
2175	meth_PROSER2	meth	PROSER2	YES	1
2176	meth_RFC5	meth	RFC5	YES	24
2176	meth_SCRIB	meth	SCRIB	YES	58
2177	meth_ART5	meth	ART5	YES	8
2177	meth_CALCOCO2	meth	CALCOCO2	YES	17
2178	mrna_RP1-101A2.1	mrna	RP1-101A2.1	NO	0
2179	meth_ELOVL4	meth	ELOVL4	YES	21
2180	meth_FAM118A	meth	FAM118A	YES	4
2180	meth_LYRM2	meth	LYRM2	YES	2
2181	meth_TRAF3	meth	TRAF3	YES	34
2182	meth_LSM3	meth	LSM3	YES	19
2182	meth_SWAP70	meth	SWAP70	YES	23
2183	meth_MDH1	meth	MDH1	YES	24
2183	meth_PLEKHG2	meth	PLEKHG2	YES	8
2184	meth_DEPDC1B	meth	DEPDC1B	YES	8
2184	meth_SCAMP1	meth	SCAMP1	YES	18
2185	meth_STXBP5	meth	STXBP5	YES	25
2185	mrna_LL21NC02-1C16.2	mrna	LL21NC02-1C16.2	NO	0
2186	meth_CTC-479C5.12	meth	CTC-479C5.12	NO	0
2189	meth_MRPL23	meth	MRPL23	YES	14
2189	mrna_SIGMAR1	mrna	SIGMAR1	YES	27
2191	meth_AIFM2	meth	AIFM2	YES	17
2192	meth_FAM105A	meth	FAM105A	NO	0
2193	meth_BANF1	meth	BANF1	YES	22
2193	meth_ING2	meth	ING2	YES	35
2194	meth_E2F3	meth	E2F3	YES	21
2194	mrna_FAM89B	mrna	FAM89B	YES	6
2196	meth_ARL1	meth	ARL1	YES	25
2197	meth_ANKRD16	meth	ANKRD16	YES	1
2197	meth_GDPD1	meth	GDPD1	YES	11
2198	meth_DGKH	meth	DGKH	YES	19
2199	meth_HNRNPH1	meth	HNRNPH1	YES	18
2200	cnv_OR4C13	cnv	OR4C13	YES	13
2201	meth_HSPH1	meth	HSPH1	YES	26
2202	meth_NCAM1	meth	NCAM1	YES	23
2203	meth_ACAD8	meth	ACAD8	YES	15
2203	mrna_KIF24	mrna	KIF24	YES	19

2204	cnv_TBC1D3C	cnv	TBC1D3C	YES	9
2204	meth_GLOD4	meth	GLOD4	YES	3
2205	meth_EXO1	meth	EXO1	YES	35
2206	meth_MRPL35	meth	MRPL35	YES	11
2207	meth_CREG1	meth	CREG1	YES	15
2207	meth_PIK3R3	meth	PIK3R3	YES	12
2209	meth_RP11-638I2.4	meth	RP11-638I2.4	NO	0
2210	meth_USB1	meth	USB1	YES	10
2211	meth_ZKSCAN4	meth	ZKSCAN4	YES	11
2212	meth_MACROD2	meth	MACROD2	YES	10
2212	mrna_MOB3C	mrna	MOB3C	YES	2
2213	meth_ERC2	meth	ERC2	YES	9
2214	meth_LSM5	meth	LSM5	YES	15
2215	meth_PDLIM1	meth	PDLIM1	YES	12
2215	mrna_SLC46A2	mrna	SLC46A2	YES	12
2216	meth_MRPS15	meth	MRPS15	YES	15
2217	meth_KIAA1407	meth	KIAA1407	NO	0
2217	meth_TPRKB	meth	TPRKB	YES	7
2218	meth_LAMTOR3	meth	LAMTOR3	YES	26
2219	meth_PAPD7	meth	PAPD7	YES	17
2220	meth_MIR5188	meth	MIR5188	NO	0
2221	meth_NLE1	meth	NLE1	YES	14
2222	meth_ABHD4	meth	ABHD4	YES	5
2222	meth_SNX27	meth	SNX27	YES	22
2223	mrna_ATP5S	mrna	ATP5S	YES	12
2223	mrna_SLC37A1	mrna	SLC37A1	YES	13
2224	meth_FADS3	meth	FADS3	YES	11
2225	meth_ARHGEF7	meth	ARHGEF7	YES	37
2225	meth_CHEK1	meth	CHEK1	YES	53
2226	meth_PRNP	meth	PRNP	YES	86
2226	meth_TOB1-AS1	meth	TOB1-AS1	NO	0
2227	meth_CARKD	meth	CARKD	YES	6
2227	meth_MICALL1	meth	MICALL1	YES	26
2228	meth_EXOC4	meth	EXOC4	YES	24
2229	meth_NTNG1	meth	NTNG1	YES	11
2229	mrna_RAB2A	mrna	RAB2A	YES	22
2230	meth_AMFR	meth	AMFR	YES	44
2231	meth_SYS1	meth	SYS1	YES	13
2232	meth_CTB-179K24.3	meth	CTB-179K24.3	NO	0
2233	meth_MICU3	meth	MICU3	YES	7
2233	meth_PHF12	meth	PHF12	YES	16
2234	meth_PRDM1	meth	PRDM1	YES	48
2235	mrna_C1orf86	mrna	C1orf86	YES	10
2236	meth_SRP72	meth	SRP72	YES	16
2237	meth_ZNF266	meth	ZNF266	YES	8
2238	meth_EGR2	meth	EGR2	YES	42
2238	meth_MTHFD2	meth	MTHFD2	YES	16
2239	meth_RPAP1	meth	RPAP1	YES	7
2240	meth_SNX24	meth	SNX24	YES	10
2242	meth_MRPL44	meth	MRPL44	YES	20
2242	meth_NR3C2	meth	NR3C2	YES	22
2243	meth_SEMA5A	meth	SEMA5A	YES	32
2244	meth_RP11-545D22.1	meth	RP11-545D22.1	NO	0
2244	meth_VILL	meth	VILL	YES	6
2246	meth_AIG1	meth	AIG1	YES	4
2246	meth_PAX5	meth	PAX5	YES	29
2248	meth_CTC-332L22.1	meth	CTC-332L22.1	NO	0
2249	meth_NADK2	meth	NADK2	YES	12
2250	meth_DTX1	meth	DTX1	YES	24
2252	meth_AC011551.3	meth	AC011551.3	NO	0

2252	meth_RBX1	meth	RBX1	YES	55
2253	cnv_OR8H3	cnv	OR8H3	YES	12
2253	meth_LRCH3	meth	LRCH3	YES	7
2254	meth_KIF6	meth	KIF6	YES	12
2254	meth_MRPS21	meth	MRPS21	YES	5
2255	meth_AAR2	meth	AAR2	YES	1
2256	meth_TASP1	meth	TASP1	YES	5
2257	meth_AC009065.1	meth	AC009065.1	NO	0
2257	meth_PARL	meth	PARL	YES	18
2258	meth_LY6E	meth	LY6E	YES	9
2258	meth_RAB20	meth	RAB20	YES	16
2259	meth_FAM114A2	meth	FAM114A2	YES	3
2259	mrna_PTGR2	mrna	PTGR2	YES	7
2260	mrna_CARD14	mrna	CARD14	YES	13
2261	meth_PKM	meth	PKM	YES	50
2261	mrna_UTP14A	mrna	UTP14A	YES	10
2263	meth_FAM122A	meth	FAM122A	YES	1
2263	meth_TSHZ3	meth	TSHZ3	YES	25
2264	meth_EPS8	meth	EPS8	YES	38
2265	meth_C11orf73	meth	C11orf73	YES	11
2265	meth_KIAA1919	meth	KIAA1919	YES	6
2267	meth_CTD-2203K17.1	meth	CTD-2203K17.1	NO	0
2268	meth_DUSP4	meth	DUSP4	YES	27
2268	meth_RPIA	meth	RPIA	YES	12
2269	meth_MFSD3	meth	MFSD3	YES	7
2270	meth_COQ5	meth	COQ5	YES	13
2270	meth_TCP11L2	meth	TCP11L2	NO	0
2271	meth_ZFAND6	meth	ZFAND6	YES	15
2271	mirna_MIR1256	mirna	MIR1256	NO	0
2272	meth_FOXM1	meth	FOXM1	YES	38
2272	meth_MFHAS1	meth	MFHAS1	YES	5
2273	meth_MRPL53	meth	MRPL53	YES	8
2273	mrna_RP11-67L3.4	mrna	RP11-67L3.4	NO	0
2274	mrna_RP11-164H13.1	mrna	RP11-164H13.1	NO	0
2275	meth_RP11-57H14.2	meth	RP11-57H14.2	NO	0
2275	meth_VDAC2	meth	VDAC2	YES	23
2276	meth_SLC12A9	meth	SLC12A9	YES	14
2277	meth_CNRIP1	meth	CNRIP1	YES	1
2277	meth_ZFAND2B	meth	ZFAND2B	YES	5
2278	cnv_OR4P4	cnv	OR4P4	YES	13
2279	meth_AKAP9	meth	AKAP9	YES	43
2280	meth_LYPLA1	meth	LYPLA1	YES	16
2281	meth_NIPSNAP1	meth	NIPSNAP1	YES	7
2283	meth_NOS1AP	meth	NOS1AP	YES	30
2283	meth_PIAS3	meth	PIAS3	YES	24
2284	mrna_AMDHD2	mrna	AMDHD2	YES	12
2286	meth_ABCB1	meth	ABCB1	YES	29
2286	meth_HIST1H4K	meth	HIST1H4K	YES	36
2288	meth_ATAD5	meth	ATAD5	YES	8
2289	meth_EDC4	meth	EDC4	YES	12
2289	mrna_ZWINT	mrna	ZWINT	YES	20
2290	meth_GATC	meth	GATC	YES	11
2292	meth_ENY2	meth	ENY2	YES	23
2292	mrna_OSBP2	mrna	OSBP2	YES	8
2293	meth_HTR1E	meth	HTR1E	YES	17
2293	meth_TSC22D2	meth	TSC22D2	YES	5
2295	meth_VCP	meth	VCP	YES	90
2296	meth_ZFP36L1	meth	ZFP36L1	YES	69
2296	stv_GPR150	stv	GPR150	YES	7
2297	meth_HIST3H2A	meth	HIST3H2A	YES	10

2298	meth_ACOX3	meth	ACOX3	YES	19
2298	meth_RPL38	meth	RPL38	YES	27
2299	meth_PPP1R21	meth	PPP1R21	YES	2
2299	meth_SGPP2	meth	SGPP2	YES	10
2300	meth_YEATS4	meth	YEATS4	YES	20
2301	meth_C22orf24	meth	C22orf24	YES	1
2302	meth_UBE2E2	meth	UBE2E2	YES	14
2302	mrna_CHDH	mrna	CHDH	YES	11
2303	meth_IRF2BP1	meth	IRF2BP1	YES	7
2304	mirna_MIR4745	mirna	MIR4745	NO	0
2305	meth_SCRT1	meth	SCRT1	YES	13
2306	meth_ATG3	meth	ATG3	YES	22
2306	meth_PLXDC2	meth	PLXDC2	YES	5
2307	meth_VPS45	meth	VPS45	YES	15
2308	meth_KMT2B	meth	KMT2B	YES	27
2309	meth_ZSCAN22	meth	ZSCAN22	YES	10
2310	meth_LRRC41	meth	LRRC41	YES	7
2310	mrna_FCRLA	mrna	FCRLA	YES	4
2311	meth_IGFBP2	meth	IGFBP2	YES	31
2312	meth_MKLN1	meth	MKLN1	YES	9
2312	meth_PSMD4	meth	PSMD4	YES	38
2313	meth_TARSL2	meth	TARSL2	YES	15
2313	meth_ZMAT3	meth	ZMAT3	YES	17
2314	meth_KB-431C1.4	meth	KB-431C1.4	NO	0
2314	meth_KLHL25	meth	KLHL25	YES	8
2315	mrna_FCRL3	mrna	FCRL3	YES	3
2316	meth_DDX11	meth	DDX11	YES	60
2316	mrna_DUSP22	mrna	DUSP22	YES	21
2317	meth_SASH1	meth	SASH1	YES	14
2318	meth_ZNF672	meth	ZNF672	YES	8
2319	meth_ATG101	meth	ATG101	YES	11
2319	mrna_SGOL2	mrna	SGOL2	YES	9
2320	meth_G2E3	meth	G2E3	YES	12
2320	meth_ITCH	meth	ITCH	YES	45
2321	meth_BDNF-AS	meth	BDNF-AS	NO	0
2322	meth_FGGY	meth	FGGY	YES	12
2322	meth_RP11-342I1.2	meth	RP11-342I1.2	NO	0
2323	meth_CAMK2N1	meth	CAMK2N1	YES	13
2323	meth_KRT18P55	meth	KRT18P55	NO	0
2324	meth_VRK3	meth	VRK3	YES	17
2325	meth_ZNF354C	meth	ZNF354C	YES	10
2326	meth_DHRS3	meth	DHRS3	YES	19
2328	meth_PIGQ	meth	PIGQ	YES	10
2329	meth_LIAS	meth	LIAS	YES	16
2329	mrna_RAB27B	mrna	RAB27B	YES	25
2332	meth_IGFBP3	meth	IGFBP3	YES	36
2333	meth_CLPTM1	meth	CLPTM1	YES	8
2334	cnv_OR5AS1	cnv	OR5AS1	YES	12
2334	meth_NRBP1	meth	NRBP1	YES	17
2335	meth_NAA25	meth	NAA25	YES	6
2335	meth_S100A6	meth	S100A6	YES	23
2337	meth_ELL	meth	ELL	YES	20
2337	mrna_FAM129C	mrna	FAM129C	NO	0
2338	meth_GNL2	meth	GNL2	YES	10
2338	meth_RP11-804A23.4	meth	RP11-804A23.4	NO	0
2339	meth_ABCF3	meth	ABCF3	YES	7
2341	meth_AL133410.1	meth	AL133410.1	NO	0
2341	meth_UNC5A	meth	UNC5A	YES	15
2342	meth_MTERF3	meth	MTERF3	YES	17
2343	meth_GABPB1	meth	GABPB1	YES	12

2344	meth_CMTR1	meth	CMTR1	YES	12
2344	mrna_RP11-539L10.2	mrna	RP11-539L10.2	NO	0
2345	meth_SEMA3E	meth	SEMA3E	YES	18
2346	meth_SOCS6	meth	SOCS6	YES	18
2346	mrna_DHX33	mrna	DHX33	YES	15
2347	meth_KAT8	meth	KAT8	YES	31
2347	meth_SLC50A1	meth	SLC50A1	YES	15
2349	meth_RPL10P15	meth	RPL10P15	NO	0
2349	meth_SEMA3F	meth	SEMA3F	YES	20
2350	meth_ELOVL2	meth	ELOVL2	YES	25
2351	meth_DYNLRB1	meth	DYNLRB1	YES	18
2352	mrna_GLB1	mrna	GLB1	YES	29
2353	cnv_PHF21A	cnv	PHF21A	YES	17
2356	meth_ZNF638	meth	ZNF638	YES	14
2356	mirna_MIR2110	mirna	MIR2110	NO	0
2357	meth_DUT	meth	DUT	YES	16
2357	mrna_LINC01460	mrna	LINC01460	NO	0
2358	meth_MAD2L2	meth	MAD2L2	YES	35
2359	meth_NUP160	meth	NUP160	YES	23
2360	mrna_NUF2	mrna	NUF2	YES	15
2361	meth_FGFRL1	meth	FGFRL1	YES	17
2362	meth_BRWD1	meth	BRWD1	YES	13
2363	meth_COG1	meth	COG1	YES	11
2364	mrna_TSR1	mrna	TSR1	YES	14
2365	cnv_OR5D13	cnv	OR5D13	YES	12
2366	cnv_MTCH2	cnv	MTCH2	YES	9
2367	meth_AC010761.14	meth	AC010761.14	NO	0
2368	meth_GANAB	meth	GANAB	YES	18
2369	meth_ARHGAP19	meth	ARHGAP19	YES	7
2369	meth_GNG8	meth	GNG8	YES	13
2370	meth_KLHDC3	meth	KLHDC3	YES	9
2370	mirna_MIR1914	mirna	MIR1914	NO	0
2371	meth_DYNC1I1	meth	DYNC1I1	YES	31
2372	meth_SHD	meth	SHD	YES	4
2373	meth_AC079305.8	meth	AC079305.8	NO	0
2373	meth_METTL18	meth	METTL18	YES	7
2374	meth_LETM1	meth	LETM1	YES	20
2375	meth_WEE1	meth	WEE1	YES	26
2376	meth_ARMC2	meth	ARMC2	YES	2
2376	mrna_ITPKA	mrna	ITPKA	YES	19
2377	meth_PMAIP1	meth	PMAIP1	YES	35
2377	meth_RP5-864K19.4	meth	RP5-864K19.4	NO	0
2378	meth_ANKRD29	meth	ANKRD29	YES	2
2378	mrna_SUCLG2	mrna	SUCLG2	YES	20
2379	meth_EDRF1	meth	EDRF1	YES	5
2379	meth_JADE2	meth	JADE2	YES	18
2380	meth_CTD-2270P14.2	meth	CTD-2270P14.2	NO	0
2383	meth_ATP1B1	meth	ATP1B1	YES	60
2383	meth_SLC26A7	meth	SLC26A7	YES	30
2384	meth_PARM1	meth	PARM1	YES	13
2385	meth_SPATA2L	meth	SPATA2L	NO	0
2386	mrna_SSU72	mrna	SSU72	YES	13
2387	meth_BDNF	meth	BDNF	YES	48
2388	cnv_OR5L1	cnv	OR5L1	YES	12
2388	meth_MIR4258	meth	MIR4258	NO	0
2389	mrna_POLR1E	mrna	POLR1E	YES	16
2389	mrna_LINC00862	mrna	LINC00862	NO	0
2390	meth_ONECUT1	meth	ONECUT1	YES	27
2390	meth_RECK	meth	RECK	YES	17
2391	meth_AC139149.1	meth	AC139149.1	NO	0

2392	meth_PKNOX1	meth	PKNOX1	YES	20
2393	cnv_OR8J1	cnv	OR8J1	YES	12
2395	mrna_SLC36A4	mrna	SLC36A4	YES	15
2397	meth_DESI2	meth	DESI2	YES	4
2397	meth_VKORC1L1	meth	VKORC1L1	YES	11
2399	meth_PCOLCE2	meth	PCOLCE2	YES	7
2400	mrna_TPCN1	mrna	TPCN1	YES	24
2401	meth_AC007009.1	meth	AC007009.1	NO	0
2401	meth_AGO2	meth	AGO2	YES	65
2402	meth_FDX1	meth	FDX1	YES	18
2402	meth_PDE5A	meth	PDE5A	YES	22
2403	meth_BMPR1A	meth	BMPR1A	YES	95
2403	meth_MTERF2	meth	MTERF2	YES	9
2404	meth_FLJ37453	meth	FLJ37453	NO	0
2406	meth_GADD45B	meth	GADD45B	YES	14
2406	meth_REEP4	meth	REEP4	YES	10
2409	meth_GPD1L	meth	GPD1L	YES	31
2409	stv_COMMD3	stv	COMMD3	YES	11
2410	meth_CPEB2	meth	CPEB2	YES	25
2411	meth_MAEA	meth	MAEA	YES	26
2411	mrna_RALY	mrna	RALY	YES	15
2412	meth_AC003956.1	meth	AC003956.1	NO	0
2412	meth_LMF2	meth	LMF2	YES	6
2413	meth_C21orf58	meth	C21orf58	NO	0
2414	meth_C19orf40	meth	C19orf40	YES	8
2417	meth_NUDT16L1	meth	NUDT16L1	YES	6
2418	cnv_C11orf49	cnv	C11orf49	YES	1
2418	meth_CLTC	meth	CLTC	YES	61
2419	meth_CENPB	meth	CENPB	YES	12
2419	mrna_NDUFA3	mrna	NDUFA3	YES	10
2420	meth_NAGLU	meth	NAGLU	YES	15
2421	meth_AC093724.2	meth	AC093724.2	NO	0
2423	meth_DLX2	meth	DLX2	YES	36
2424	meth_DDRGK1	meth	DDRGK1	YES	24
2424	meth_MAML2	meth	MAML2	YES	10
2425	mrna_TSPAN13	mrna	TSPAN13	YES	8
2426	meth_MDK	meth	MDK	YES	28
2428	meth_HMGN3	meth	HMGN3	YES	14
2428	meth_RP11-68I3.7	meth	RP11-68I3.7	NO	0
2429	mrna_FAM3A	mrna	FAM3A	YES	9
2431	meth_PDLIM3	meth	PDLIM3	YES	10
2433	meth_PUM1	meth	PUM1	YES	24
2433	mrna_SESN2	mrna	SESN2	YES	44
2434	meth_CCDC174	meth	CCDC174	YES	3
2434	meth_PURA	meth	PURA	YES	29
2435	meth_DCUN1D3	meth	DCUN1D3	YES	16
2435	meth_SRPK2	meth	SRPK2	YES	32
2436	meth_ADAT2	meth	ADAT2	YES	12
2437	meth_ZDHHC8	meth	ZDHHC8	YES	16
2438	mrna_FIP1L1	mrna	FIP1L1	YES	13
2439	meth_ST6GAL1	meth	ST6GAL1	YES	19
2440	meth_CASKIN2	meth	CASKIN2	YES	5
2440	meth_HRASLS	meth	HRASLS	YES	9
2441	meth_TM2D3	meth	TM2D3	YES	2
2442	meth_ZNF184	meth	ZNF184	YES	8
2444	meth_PIGT	meth	PIGT	YES	14
2444	meth_RP11-34D15.2	meth	RP11-34D15.2	NO	0
2445	mrna_PQLC2	mrna	PQLC2	YES	18
2446	meth_RP11-96D1.6	meth	RP11-96D1.6	NO	0
2447	meth_CKS2	meth	CKS2	YES	18

2447	meth_PLCXD2	meth	PLCXD2	YES	7
2448	meth_DERL2	meth	DERL2	YES	22
2448	meth_SUPV3L1	meth	SUPV3L1	YES	31
2449	meth_APPBP2	meth	APPBP2	YES	13
2449	meth_CCNE2	meth	CCNE2	YES	19
2450	meth_S100A11	meth	S100A11	YES	21
2450	meth_SLC37A3	meth	SLC37A3	YES	10
2451	meth_C15orf65	meth	C15orf65	NO	0
2451	meth_SYVN1	meth	SYVN1	YES	32
2452	meth_AC010761.6	meth	AC010761.6	NO	0
2453	mrna_PRAME	mrna	PRAME	YES	15
2454	meth_RAP1GDS1	meth	RAP1GDS1	YES	12
2455	meth_MED29	meth	MED29	YES	6
2456	meth_PTTG1IP	meth	PTTG1IP	YES	14
2457	meth_MAGOHB	meth	MAGOHB	YES	17
2457	meth_RN7SKP114	meth	RN7SKP114	NO	0
2458	meth_KIF23	meth	KIF23	YES	35
2459	meth_ASB7	meth	ASB7	YES	6
2459	meth_BIN1	meth	BIN1	YES	33
2460	meth_SDF2	meth	SDF2	YES	8
2461	meth_PIGS	meth	PIGS	YES	9
2462	meth_LINC01521	meth	LINC01521	NO	0
2462	meth_RPL29	meth	RPL29	YES	21
2464	meth_OSBPL2	meth	OSBPL2	YES	9
2464	mrna_FANCL	mrna	FANCL	YES	20
2465	meth_JAGN1	meth	JAGN1	YES	18
2466	meth_DHRS1	meth	DHRS1	YES	6
2466	mrna_STAP1	mrna	STAP1	YES	29
2467	meth_CACNA1A	meth	CACNA1A	YES	68
2467	mrna_POLE2	mrna	POLE2	YES	18
2468	meth_CCSAP	meth	CCSAP	YES	24
2469	meth_TMEM189-UBE2V1	meth	TMEM189-UBE2V1	YES	9
2470	meth_NAB2	meth	NAB2	YES	16
2470	meth_ZNF580	meth	ZNF580	YES	15
2471	meth_TAB2	meth	TAB2	YES	32
2472	mrna_RP11-499E18.1	mrna	RP11-499E18.1	NO	0
2473	meth_FOXD3	meth	FOXD3	YES	32
2474	meth_ARHGEF17	meth	ARHGEF17	YES	14
2475	meth_PAOX	meth	PAOX	YES	21
2478	meth_CTD-2083E4.6	meth	CTD-2083E4.6	NO	0
2478	meth_RP11-399K21.11	meth	RP11-399K21.11	NO	0
2479	meth_FLI1	meth	FLI1	YES	23
2479	meth_PSMD6	meth	PSMD6	YES	39
2480	meth_RBMS1	meth	RBMS1	YES	9
2481	meth_PDE4C	meth	PDE4C	YES	11
2482	meth_BPGM	meth	BPGM	YES	16
2483	meth_C2CD3	meth	C2CD3	YES	26
2484	cnv_MIR4487	cnv	MIR4487	NO	0
2484	meth_C3orf38	meth	C3orf38	YES	4
2485	meth_MRPS27	meth	MRPS27	YES	7
2488	meth_TMUB1	meth	TMUB1	YES	17
2489	stv_MED28	stv	MED28	YES	13
2490	meth_AC005775.2	meth	AC005775.2	NO	0
2491	meth_RNASEH1	meth	RNASEH1	YES	16
2492	meth_RP11-712B9.2	meth	RP11-712B9.2	NO	0
2493	meth_CBX5	meth	CBX5	YES	27
2493	meth_POP7	meth	POP7	YES	16
2494	meth_ETV4	meth	ETV4	YES	15
2495	mrna_VCP	mrna	VCP	YES	90
2496	meth_RPS4XP16	meth	RPS4XP16	NO	0

2497	meth_ADAM9	meth	ADAM9	YES	46
2498	mrna_UBE2R2	mrna	UBE2R2	YES	14
2499	meth_ODC1	meth	ODC1	YES	19
2500	meth_SLK	meth	SLK	YES	26
2502	meth_SMAD5	meth	SMAD5	YES	43
2503	meth_PSMD8	meth	PSMD8	YES	36
2504	meth_MED27	meth	MED27	YES	16
2504	meth_SFSWAP	meth	SFSWAP	YES	11
2505	meth_FAM134C	meth	FAM134C	YES	1
2508	mrna_FCER2	mrna	FCER2	YES	17
2509	meth_ANO10	meth	ANO10	YES	11
2509	meth_RTN3	meth	RTN3	YES	16
2511	meth_PRKCH	meth	PRKCH	YES	34
2513	meth_ADPRH	meth	ADPRH	YES	8
2513	meth_FUBP1	meth	FUBP1	YES	11
2514	meth_AC073934.6	meth	AC073934.6	NO	0
2515	meth_ANTXR1	meth	ANTXR1	YES	23
2515	meth_FDXR	meth	FDXR	YES	18
2516	meth_NAAA	meth	NAAA	YES	11
2516	meth_WDR17	meth	WDR17	YES	3
2517	meth_LYPLA2	meth	LYPLA2	YES	11
2518	meth_ATRN	meth	ATRN	YES	16
2519	meth_FUS	meth	FUS	YES	25
2521	meth_BTN2A2	meth	BTN2A2	YES	8
2522	meth_AURKB	meth	AURKB	YES	61
2523	meth_CNOT10	meth	CNOT10	YES	13
2524	meth_COG7	meth	COG7	YES	17
2525	meth_CCNT2	meth	CCNT2	YES	30
2527	meth_AC008060.8	meth	AC008060.8	NO	0
2528	meth_PITX3	meth	PITX3	YES	32
2529	meth_CHMP4B	meth	CHMP4B	YES	46
2529	meth_RP11-363J17.1	meth	RP11-363J17.1	NO	0
2530	meth_RREB1	meth	RREB1	YES	27
2530	meth_ZNF784	meth	ZNF784	YES	7
2533	meth_CALM1	meth	CALM1	YES	61
2534	meth_ZBTB1	meth	ZBTB1	YES	31
2535	mrna_RELT	mrna	RELT	YES	15
2536	meth_ATF4	meth	ATF4	YES	66
2537	meth_RP11-973D8.4	meth	RP11-973D8.4	NO	0
2538	meth_REPS1	meth	REPS1	YES	10
2539	meth_ZNF346	meth	ZNF346	YES	13
2540	meth_DGKD	meth	DGKD	YES	34
2541	meth_RP11-395A13.2	meth	RP11-395A13.2	NO	0
2542	meth_RP11-629O1.2	meth	RP11-629O1.2	NO	0
2544	cnv_OR8I2	cnv	OR8I2	YES	12
2544	meth_LRRC59	meth	LRRC59	YES	11
2545	meth_ARL8B	meth	ARL8B	YES	25
2545	meth_SEC24D	meth	SEC24D	YES	24
2546	meth_SAT2	meth	SAT2	YES	13
2547	meth_AGTPBP1	meth	AGTPBP1	YES	27
2547	meth_PPP4R1	meth	PPP4R1	YES	8
2548	meth_BFAR	meth	BFAR	YES	20
2548	meth_MASTL	meth	MASTL	YES	27
2550	cnv_ACACA	cnv	ACACA	YES	30
2550	meth_SPEF2	meth	SPEF2	YES	17
2551	meth_CST8	meth	CST8	YES	10
2551	meth_DDX39A	meth	DDX39A	YES	27
2552	meth_IARS2	meth	IARS2	YES	15
2552	meth_TRIM28	meth	TRIM28	YES	55
2554	meth_LHX6	meth	LHX6	YES	15

2554	meth_LIMA1	meth	LIMA1	YES	17
2555	meth_TDRD5	meth	TDRD5	YES	9
2555	mrna_CTC-575D19.1	mrna	CTC-575D19.1	NO	0
2556	meth_BHLHE40	meth	BHLHE40	YES	30
2557	meth_E2F8	meth	E2F8	YES	29
2557	meth_HOOK1	meth	HOOK1	YES	25
2558	meth_ATP2A2	meth	ATP2A2	YES	55
2559	meth_CSTB	meth	CSTB	YES	21
2562	meth_RP11-264B17.3	meth	RP11-264B17.3	NO	0
2562	meth_STK4	meth	STK4	YES	52
2563	meth_DYNC2LI1	meth	DYNC2LI1	YES	28
2563	meth_SS18L2	meth	SS18L2	YES	2
2565	meth_MFSD10	meth	MFSD10	YES	11
2565	meth_ZNF33B	meth	ZNF33B	YES	8
2566	meth_CEBPB	meth	CEBPB	YES	65
2566	mrna_KLHDC2	mrna	KLHDC2	YES	3
2567	meth_ITPA	meth	ITPA	YES	17
2567	meth_PBX2	meth	PBX2	YES	16
2568	meth_NFX1	meth	NFX1	YES	20
2569	meth_CSNK2A2	meth	CSNK2A2	YES	34
2569	meth_CTNNBIP1	meth	CTNNBIP1	YES	23
2571	meth_GUSB	meth	GUSB	YES	20
2571	meth_SQRDL	meth	SQRDL	YES	10
2573	mrna_BRCA2	mrna	BRCA2	YES	58
2574	meth_HTR7	meth	HTR7	YES	18
2574	meth_MYEOV2	meth	MYEOV2	NO	0
2575	meth_RHOB	meth	RHOB	YES	41
2576	meth_AHCYL2	meth	AHCYL2	YES	10
2577	meth_SGTA	meth	SGTA	YES	13
2578	mrna_S100P	mrna	S100P	YES	21
2579	meth_NKIRAS1	meth	NKIRAS1	YES	11
2579	meth_USP48	meth	USP48	YES	13
2580	meth_HLX	meth	HLX	YES	19
2580	meth_TYMP	meth	TYMP	YES	22
2582	stv_LPCAT4	stv	LPCAT4	YES	21
2583	meth_FSCN1	meth	FSCN1	YES	43
2584	meth_AL356020.1	meth	AL356020.1	NO	0
2584	meth_CCDC84	meth	CCDC84	NO	0
2585	meth_CTD-2349B8.1	meth	CTD-2349B8.1	NO	0
2586	meth_HOMER1	meth	HOMER1	YES	44
2586	meth_NALCN	meth	NALCN	YES	22
2587	cnv_RN7SL371P	cnv	RN7SL371P	NO	0
2587	meth_CCNT1	meth	CCNT1	YES	30
2588	meth_KCNH1	meth	KCNH1	YES	44
2588	meth_PLA2G16	meth	PLA2G16	YES	29
2589	meth_FA2H	meth	FA2H	YES	23
2590	meth_RP11-351I24.1	meth	RP11-351I24.1	NO	0
2591	cnv_TRIM50	cnv	TRIM50	YES	8
2592	meth_SEPW1	meth	SEPW1	YES	4
2592	meth_SFRP5	meth	SFRP5	YES	30
2595	meth_ARHGAP33	meth	ARHGAP33	YES	16
2597	meth_RBBP9	meth	RBBP9	YES	7
2598	meth_EXOG	meth	EXOG	YES	14
2600	meth_FAM60A	meth	FAM60A	YES	4
2602	mrna_LA16c-60H5.7	mrna	LA16c-60H5.7	NO	0
2604	meth_RUNX3	meth	RUNX3	YES	28
2606	meth_CCDC171	meth	CCDC171	YES	4
2608	mrna_LINC01315	mrna	LINC01315	NO	0
2608	stv_THUMPD3	stv	THUMPD3	YES	8
2609	meth_R3HDM1	meth	R3HDM1	YES	2

2611	meth_ELAC2	meth	ELAC2	YES	16
2611	mrna_SLC11A2	mrna	SLC11A2	YES	84
2612	meth_DDX10	meth	DDX10	YES	11
2613	meth_H3F3B	meth	H3F3B	YES	45
2614	meth_NPPC	meth	NPPC	YES	33
2615	meth_STARD3NL	meth	STARD3NL	YES	14
2616	meth_AIMP1	meth	AIMP1	YES	35
2618	meth_ALDH3A2	meth	ALDH3A2	YES	23
2619	mrna_EPHA10	mrna	EPHA10	YES	21
2621	meth_HSD11B2	meth	HSD11B2	YES	21
2622	mrna_C1orf112	mrna	C1orf112	NO	0
2623	meth_C15orf48	meth	C15orf48	YES	7
2623	meth_EIF4G1	meth	EIF4G1	YES	47
2624	meth_KCNK12	meth	KCNK12	YES	12
2624	meth_PLEKHN1	meth	PLEKHN1	YES	3
2625	meth_C16orf87	meth	C16orf87	YES	1
2626	meth_FKTN	meth	FKTN	YES	16
2627	meth_KCTD3	meth	KCTD3	YES	2
2627	meth_RBM26	meth	RBM26	YES	7
2628	meth_POLR2E	meth	POLR2E	YES	32
2629	meth_ARL16	meth	ARL16	YES	5
2629	meth_FSTL5	meth	FSTL5	YES	4
2630	cnv_PIGW	cnv	PIGW	YES	11
2631	meth_NR2C1	meth	NR2C1	YES	22
2631	meth_SERHL2	meth	SERHL2	YES	9
2633	meth_ZCCHC11	meth	ZCCHC11	YES	26
2634	meth_TTC1	meth	TTC1	YES	5
2635	meth_RAB40B	meth	RAB40B	YES	15
2636	meth_RHOA	meth	RHOA	YES	78
2638	meth_HECA	meth	HECA	YES	7
2638	meth_RNF125	meth	RNF125	YES	21
2639	meth_GPS2	meth	GPS2	YES	12
2640	meth_PNPLA7	meth	PNPLA7	YES	17
2641	meth_KNDC1	meth	KNDC1	YES	18
2641	meth_MIR6125	meth	MIR6125	NO	0
2642	meth_AOAH	meth	AOAH	YES	10
2644	meth_RPL11	meth	RPL11	YES	40
2645	meth_DEXI	meth	DEXI	NO	0
2645	meth_GABARAPL2	meth	GABARAPL2	YES	27
2647	meth_HMBS	meth	HMBS	YES	9
2647	meth_SF3B1	meth	SF3B1	YES	18
2648	cnv_RNA5SP340	cnv	RNA5SP340	NO	0
2648	meth_ITM2C	meth	ITM2C	YES	15
2649	meth_SMG7-AS1	meth	SMG7-AS1	NO	0
2650	meth_RP11-383H13.1	meth	RP11-383H13.1	NO	0
2652	meth_SNIP1	meth	SNIP1	YES	11
2653	meth_LHX1	meth	LHX1	YES	82
2655	meth_INO80	meth	INO80	YES	37
2656	meth_MRPL24	meth	MRPL24	YES	10
2659	cnv_ARFGAP2	cnv	ARFGAP2	YES	14
2660	meth_HSD17B3	meth	HSD17B3	YES	12
2661	meth_LPIN2	meth	LPIN2	YES	19
2661	meth_SNX22	meth	SNX22	YES	7
2663	meth_AC007384.1	meth	AC007384.1	NO	0
2663	meth_SF3A3	meth	SF3A3	YES	15
2665	meth_ING3	meth	ING3	YES	16
2666	mirna_MIR6810	mirna	MIR6810	NO	0
2668	meth_ADRM1	meth	ADRM1	YES	19
2669	meth_RCOR1	meth	RCOR1	YES	20
2669	mrna_CTD-3060P21.1	mrna	CTD-3060P21.1	NO	0

2670	meth_HEY1	meth	HEY1	YES	47
2670	meth_RN7SL521P	meth	RN7SL521P	NO	0
2671	meth_HIST4H4	meth	HIST4H4	YES	36
2672	meth_ATP6V0B	meth	ATP6V0B	YES	23
2675	meth_ATP6V1D	meth	ATP6V1D	YES	24
2675	meth_HTT	meth	HTT	YES	77
2676	meth_AFTPH	meth	AFTPH	YES	10
2676	meth_FBXO28	meth	FBXO28	YES	5
2677	meth_DNAJB11	meth	DNAJB11	YES	12
2679	meth_TMPO	meth	TMPO	YES	14
2682	meth_FASTKD5	meth	FASTKD5	YES	11
2682	meth_LINC01424	meth	LINC01424	NO	0
2683	meth_ELF1	meth	ELF1	YES	18
2683	meth_IFT122	meth	IFT122	YES	37
2685	meth_ARHGAP1	meth	ARHGAP1	YES	24
2686	meth_PDZD7	meth	PDZD7	YES	13
2687	meth_CLEC2B	meth	CLEC2B	YES	6
2687	meth_KIAA1328	meth	KIAA1328	YES	1
2688	meth_SIAH1	meth	SIAH1	YES	33
2688	meth_UNC5B	meth	UNC5B	YES	13
2689	meth_AP000350.10	meth	AP000350.10	NO	0
2690	meth_NIPSNAP3B	meth	NIPSNAP3B	YES	1
2690	meth_OLFM2	meth	OLFM2	YES	14
2691	meth_RTEL1-TNFRSF6B	meth	RTEL1-TNFRSF6B	YES	21
2692	meth_DYNLT1	meth	DYNLT1	YES	32
2693	meth_PSG6	meth	PSG6	YES	4
2694	meth_EHMT2	meth	EHMT2	YES	50
2696	meth_CD2BP2	meth	CD2BP2	YES	14
2696	meth_TSPAN12	meth	TSPAN12	YES	9
2697	meth_DPH7	meth	DPH7	YES	3
2698	meth_CHCHD2	meth	CHCHD2	YES	10
2699	meth_IMPA2	meth	IMPA2	YES	17
2699	meth_LNX2	meth	LNX2	YES	5
2702	meth_AP4S1	meth	AP4S1	YES	9
2702	meth_RP1-198K11.5	meth	RP1-198K11.5	NO	0
2703	meth_FOS	meth	FOS	YES	64
2703	meth_WNT6	meth	WNT6	YES	26
2704	meth_CCDC51	meth	CCDC51	YES	3
2706	meth_CCNI	meth	CCNI	YES	2
2707	meth_AC007405.8	meth	AC007405.8	NO	0
2707	meth_CYP46A1	meth	CYP46A1	YES	23
2708	meth_ABCA1	meth	ABCA1	YES	76
2708	meth_RP11-977B10.2	meth	RP11-977B10.2	NO	0
2709	meth_IFT74	meth	IFT74	YES	23
2710	meth_NDOR1	meth	NDOR1	YES	17
2713	meth_N6AMT2	meth	N6AMT2	YES	2
2714	meth_HNRNPAB	meth	HNRNPAB	YES	13
2714	meth_RP11-572O17.1	meth	RP11-572O17.1	NO	0
2715	meth_SNAP25-AS1	meth	SNAP25-AS1	NO	0
2717	meth_XXbac-B476C20.9	meth	XXbac-B476C20.9	NO	0
2718	meth_ZNF639	meth	ZNF639	YES	20
2719	cnv_DDX52	cnv	DDX52	YES	14
2719	meth_NDUFB2	meth	NDUFB2	YES	9
2720	meth_KAT6A	meth	KAT6A	YES	33
2721	meth_DSN1	meth	DSN1	YES	20
2723	meth_NDE1	meth	NDE1	YES	44
2726	meth_CCDC40	meth	CCDC40	YES	19
2730	mrna_ABHD12	mrna	ABHD12	YES	13
2733	meth_MAN2C1	meth	MAN2C1	YES	15
2734	mrna_APOBEC3C	mrna	APOBEC3C	YES	17

2735	meth_SLCO3A1	meth	SLCO3A1	YES	10
2736	meth_WASF2	meth	WASF2	YES	32
2737	meth_ATP6V1G1	meth	ATP6V1G1	YES	23
2741	meth_CLNS1A	meth	CLNS1A	YES	14
2742	meth_IPO7	meth	IPO7	YES	22
2742	meth_TMEM254	meth	TMEM254	YES	2
2744	meth_RAD51	meth	RAD51	YES	72
2744	mrna_XCL1	mrna	XCL1	YES	53
2745	meth_SRP68	meth	SRP68	YES	20
2746	meth_RQCD1	meth	RQCD1	YES	19
2747	meth_CR2	meth	CR2	YES	22
2747	meth_LRRC45	meth	LRRC45	YES	8
2748	meth_RP11-418J17.1	meth	RP11-418J17.1	NO	0
2753	meth_NCOR1	meth	NCOR1	YES	47
2753	meth_RCL1	meth	RCL1	YES	12
2755	meth_CTB-96E2.3	meth	CTB-96E2.3	NO	0
2755	meth_ZNF367	meth	ZNF367	YES	9
2756	meth_PGM2	meth	PGM2	YES	22
2756	meth_RAD51L3-RFFL	meth	RAD51L3-RFFL	NO	0
2757	meth_WLS	meth	WLS	YES	34
2758	meth_SURF6	meth	SURF6	YES	11
2760	meth_TOPORS	meth	TOPORS	YES	41
2761	meth_PPP5C	meth	PPP5C	YES	46
2762	meth_SMO	meth	SMO	YES	101
2763	meth_KLHL32	meth	KLHL32	YES	8
2764	meth_ERAP1	meth	ERAP1	YES	39
2764	meth_TUBA4A	meth	TUBA4A	YES	24
2765	meth_ZNF280B	meth	ZNF280B	YES	6
2766	meth_AGFG1	meth	AGFG1	YES	23
2767	meth_AL031777.1	meth	AL031777.1	NO	0
2767	meth_MPPE1	meth	MPPE1	YES	20
2768	meth_CTA-445C9.14	meth	CTA-445C9.14	NO	0
2769	meth_LPPR4	meth	LPPR4	NO	0
2771	meth_SPTLC1	meth	SPTLC1	YES	21
2773	meth_COA1	meth	COA1	YES	12
2773	meth_UBA52	meth	UBA52	YES	106
2774	meth_MALSU1	meth	MALSU1	YES	8
2775	meth_AC001226.7	meth	AC001226.7	NO	0
2776	cnv_C1QTNF4	cnv	C1QTNF4	YES	3
2776	meth_TRMT11	meth	TRMT11	YES	9
2777	cnv_OR4C15	cnv	OR4C15	YES	13
2777	meth_EIF3F	meth	EIF3F	YES	18
2779	meth_PREX2	meth	PREX2	YES	16
2781	meth_NDUFA7	meth	NDUFA7	YES	13
2782	cnv_NR1H3	cnv	NR1H3	YES	58
2784	meth_RP11-27K13.3	meth	RP11-27K13.3	NO	0
2787	meth_RP11-696P8.2	meth	RP11-696P8.2	NO	0
2788	meth_PRPSAP2	meth	PRPSAP2	YES	11
2788	mrna_RNF175	mrna	RNF175	YES	10
2789	meth_TC2N	meth	TC2N	YES	6
2790	meth_AP001625.4	meth	AP001625.4	NO	0
2791	meth_REV1	meth	REV1	YES	16
2792	meth_BRAT1	meth	BRAT1	YES	14
2792	meth_NRGN	meth	NRGN	YES	20
2794	meth_C10orf88	meth	C10orf88	YES	1
2795	meth_AP001062.9	meth	AP001062.9	NO	0
2796	meth_CHCHD4	meth	CHCHD4	YES	11
2797	meth_GLIPR1L2	meth	GLIPR1L2	YES	2
2800	meth_CGN	meth	CGN	YES	10
2801	meth_GTF2H5	meth	GTF2H5	YES	29

2802	meth_NUP133	meth	NUP133	YES	40
2805	meth_MND1	meth	MND1	YES	7
2806	meth_CTD-2555K7.2	meth	CTD-2555K7.2	NO	0
2806	meth_NUCB2	meth	NUCB2	YES	12
2807	meth_FZD5	meth	FZD5	YES	60
2812	meth_SETX	meth	SETX	YES	49
2813	mrna_RP11-488I20.8	mrna	RP11-488I20.8	NO	0
2814	meth_AK2	meth	AK2	YES	22
2817	meth_SQSTM1	meth	SQSTM1	YES	61
2818	meth_AC093673.5	meth	AC093673.5	NO	0
2818	meth_TCEA1	meth	TCEA1	YES	23
2819	meth_CCDC113	meth	CCDC113	YES	8
2819	meth_ZNF200	meth	ZNF200	YES	7
2823	meth_GBP3	meth	GBP3	YES	12
2823	meth_SDC1	meth	SDC1	YES	39
2824	meth_INIP	meth	INIP	YES	7
2825	meth_MAPK1IP1L	meth	MAPK1IP1L	YES	1
2827	mrna_CHPT1	mrna	CHPT1	YES	18
2828	meth_CACNA1H	meth	CACNA1H	YES	35
2830	meth_KIAA0040	meth	KIAA0040	YES	3
2831	meth_ASL	meth	ASL	YES	16
2831	meth_CNNM2	meth	CNNM2	YES	12
2834	meth_DGCR8	meth	DGCR8	YES	18
2835	meth_CDR2	meth	CDR2	YES	4
2835	meth_CHST2	meth	CHST2	YES	15
2838	meth_ADAMTS17	meth	ADAMTS17	YES	10
2838	meth_USP21	meth	USP21	YES	24
2839	meth_SLAMF6	meth	SLAMF6	YES	15
2839	meth_TSC22D4	meth	TSC22D4	YES	8
2841	meth_ITGA3	meth	ITGA3	YES	59
2844	meth_AC016747.1	meth	AC016747.1	NO	0
2845	meth_KIAA1279	meth	KIAA1279	YES	7
2847	meth_GBA2	meth	GBA2	YES	22
2850	meth_ARHGDIA	meth	ARHGDIA	YES	33
2850	meth_DYRK1A	meth	DYRK1A	YES	30
2851	meth_RP11-496B10.3	meth	RP11-496B10.3	NO	0
2853	mrna_CCDC125	mrna	CCDC125	YES	2
2854	meth_TMEM86A	meth	TMEM86A	YES	2
2854	mrna_RP13-977J11.2	mrna	RP13-977J11.2	NO	0
2855	mrna_CCPG1	mrna	CCPG1	YES	9
2856	meth_FBXO6	meth	FBXO6	YES	19
2856	meth_WDFY2	meth	WDFY2	YES	8
2857	meth_SPAG5	meth	SPAG5	YES	29
2858	mrna_SDCCAG8	mrna	SDCCAG8	YES	17
2862	cnv_DHRS11	cnv	DHRS11	YES	6
2862	meth_VCAN	meth	VCAN	YES	27
2864	meth_RP11-295G20.2	meth	RP11-295G20.2	NO	0
2864	meth_RP4-616B8.4	meth	RP4-616B8.4	NO	0
2865	meth_RPUSD2	meth	RPUSD2	YES	8
2867	meth_RP5-1066H13.4	meth	RP5-1066H13.4	NO	0
2869	cnv_OR4A5	cnv	OR4A5	YES	13
2869	meth_GRPEL1	meth	GRPEL1	YES	11
2870	meth_PIM1	meth	PIM1	YES	32
2871	meth_LRP2BP	meth	LRP2BP	YES	2
2872	meth_CENPF	meth	CENPF	YES	49
2873	mrna_SNTB1	mrna	SNTB1	YES	16
2873	mrna_PSMD1	mrna	PSMD1	YES	41
2874	meth_PIF1	meth	PIF1	YES	27
2876	meth_KIAA0895	meth	KIAA0895	NO	0
2880	meth_BPTF	meth	BPTF	YES	28

2880	meth_IPPK	meth	IPPK	YES	14
2881	meth_RHEBL1	meth	RHEBL1	YES	12
2881	meth_RP11-123K3.9	meth	RP11-123K3.9	NO	0
2882	meth_DFFA	meth	DFFA	YES	20
2884	meth_ZNF619	meth	ZNF619	YES	7
2885	meth_COX16	meth	COX16	YES	7
2886	meth_LZTS2	meth	LZTS2	YES	17
2888	meth_CTC-378H22.1	meth	CTC-378H22.1	NO	0
2890	meth_RPS6KB1	meth	RPS6KB1	YES	77
2891	meth_SCAP	meth	SCAP	YES	26
2893	meth_NDUFV2	meth	NDUFV2	YES	19
2894	meth_ZNF250	meth	ZNF250	YES	8
2895	mrna_CNGA1	mrna	CNGA1	YES	22
2896	meth_KLHDC2	meth	KLHDC2	YES	3
2900	meth_CCBL2	meth	CCBL2	YES	13
2902	meth_GNPNAT1	meth	GNPNAT1	YES	19
2903	meth_LINC00933	meth	LINC00933	NO	0
2904	meth_SOX4	meth	SOX4	YES	60
2905	meth_BLOC1S6	meth	BLOC1S6	YES	29
2906	cnv_CHRM4	cnv	CHRM4	YES	19
2906	meth_RNF138	meth	RNF138	YES	20
2908	meth_OSBPL8	meth	OSBPL8	YES	24
2908	meth_SDHC	meth	SDHC	YES	17
2909	meth_CDK17	meth	CDK17	YES	11
2913	meth_ACTR3	meth	ACTR3	YES	32
2916	mirna_MIR452	mirna	MIR452	NO	0
2917	meth_LAMA1	meth	LAMA1	YES	28
2917	mrna_IL27RA	mrna	IL27RA	YES	15
2918	meth_RP5-1042K10.14	meth	RP5-1042K10.14	NO	0
2919	meth_TRIO	meth	TRIO	YES	22
2921	meth_GSE1	meth	GSE1	YES	1
2923	mrna_RP11-164J13.1	mrna	RP11-164J13.1	NO	0
2925	cnv_OR4A15	cnv	OR4A15	YES	13
2925	meth_RANBP2	meth	RANBP2	YES	53
2926	mrna_CECR5	mrna	CECR5	YES	1
2928	meth_MIXL1	meth	MIXL1	YES	31
2929	meth_UBAP1	meth	UBAP1	YES	16
2930	meth_ELK4	meth	ELK4	YES	20
2931	meth_C18orf21	meth	C18orf21	NO	0
2932	meth_SFRP1	meth	SFRP1	YES	115
2934	meth_FBXW5	meth	FBXW5	YES	14
2935	meth_ACAD9	meth	ACAD9	YES	12
2936	mrna_IL17RC	mrna	IL17RC	YES	13
2938	meth_DNM3	meth	DNM3	YES	36
2938	meth_RAB3GAP1	meth	RAB3GAP1	YES	31
2939	meth_EPHX4	meth	EPHX4	YES	4
2941	mrna_TDP1	mrna	TDP1	YES	17
2943	meth_ACYP1	meth	ACYP1	YES	4
2943	meth_CCDC71	meth	CCDC71	NO	0
2944	meth_PIGV	meth	PIGV	YES	13
2945	meth_UPK3B	meth	UPK3B	YES	5
2947	meth_KIAA0196	meth	KIAA0196	YES	4
2947	meth_RAB3IP	meth	RAB3IP	YES	15
2949	meth_CCDC142	meth	CCDC142	NO	0
2949	meth_TPM1	meth	TPM1	YES	45
2951	meth_GPR107	meth	GPR107	YES	8
2952	cnv_CCL3L3	cnv	CCL3L3	YES	19
2953	meth_AC091053.1	meth	AC091053.1	NO	0
2955	meth_FAM221B	meth	FAM221B	NO	0
2956	meth_HMGB2	meth	HMGB2	YES	72

2957	cnv_TYW1B	cnv	TYW1B	YES	8
2957	meth_HMGN4	meth	HMGN4	YES	5
2958	meth_ATP5E	meth	ATP5E	YES	19
2959	meth_LPAR1	meth	LPAR1	YES	50
2960	meth_EFNA4	meth	EFNA4	YES	13
2960	mirna_MIR335	mirna	MIR335	YES	1
2961	mrna_KIF15	mrna	KIF15	YES	21
2962	meth_RP11-398C13.6	meth	RP11-398C13.6	NO	0
2963	meth_CCDC34	meth	CCDC34	NO	0
2963	meth_LGI4	meth	LGI4	YES	10
2966	meth_GUCD1	meth	GUCD1	YES	1
2966	meth_RCAN3	meth	RCAN3	YES	11
2968	meth_C11orf24	meth	C11orf24	YES	4
2969	meth_DNAJC21	meth	DNAJC21	YES	10
2971	meth_TTLL1	meth	TTLL1	YES	13
2971	mrna_PRSS21	mrna	PRSS21	YES	13
2973	meth_FYN	meth	FYN	YES	109
2974	meth_ZBTB5	meth	ZBTB5	YES	10
2975	meth_TFAM	meth	TFAM	YES	27
2977	meth_PCMT1	meth	PCMT1	YES	15
2978	meth_TUBB4B	meth	TUBB4B	YES	27
2979	meth_AGBL4	meth	AGBL4	YES	20
2980	meth_EWSR1	meth	EWSR1	YES	13
2982	meth_LASP1	meth	LASP1	YES	17
2982	meth_THSD1	meth	THSD1	YES	6
2983	mrna_RP11-700H6.1	mrna	RP11-700H6.1	NO	0
2985	meth_RFC2	meth	RFC2	YES	24
2985	meth_RPL35	meth	RPL35	YES	21
2986	meth_S1PR2	meth	S1PR2	YES	20
2986	mrna_AL928761.1	mrna	AL928761.1	NO	0
2987	meth_GRASP	meth	GRASP	YES	12
2987	meth_PBK	meth	PBK	YES	17
2989	meth_MFGE8	meth	MFGE8	YES	22
2990	meth_GLIPR2	meth	GLIPR2	YES	9
2990	meth_MZT2B	meth	MZT2B	YES	9
2991	meth_NTHL1	meth	NTHL1	YES	25
2992	meth_PPP2R5D	meth	PPP2R5D	YES	30
2994	meth_PPP1R12A	meth	PPP1R12A	YES	29
2995	meth_RP11-74J13.8	meth	RP11-74J13.8	NO	0
2996	mrna_AP003068.9	mrna	AP003068.9	NO	0
2999	mirna_MIR4661	mirna	MIR4661	NO	0
3000	meth_TAF5L	meth	TAF5L	YES	13
3001	meth_DLX1	meth	DLX1	YES	32
3001	meth_FUCA1	meth	FUCA1	YES	16
3003	meth_PSMC4	meth	PSMC4	YES	49
3004	meth_TCFL5	meth	TCFL5	YES	16
3006	cnv_F2	cnv	F2	YES	58
3007	meth_DDX21	meth	DDX21	YES	25
3007	meth_KCNC4	meth	KCNC4	YES	19
3008	cnv_OR5D14	cnv	OR5D14	YES	12
3008	meth_RP11-554J4.1	meth	RP11-554J4.1	NO	0
3011	mrna_USP3	mrna	USP3	YES	26
3012	meth_HIRIP3	meth	HIRIP3	YES	4
3015	meth_CTD-2302E22.6	meth	CTD-2302E22.6	NO	0
3016	meth_HZGJ	meth	HZGJ	NO	0
3017	meth_MIR4999	meth	MIR4999	NO	0
3018	meth_AC096649.2	meth	AC096649.2	NO	0
3019	meth_C6orf47	meth	C6orf47	YES	1
3019	meth_UBR1	meth	UBR1	YES	16
3020	meth_BICD1	meth	BICD1	YES	34

3021	meth_BMPER	meth	BMPER	YES	11
3021	meth_CRKL	meth	CRKL	YES	23
3022	mrna_NAT1	mrna	NAT1	YES	8
3023	mrna_TNFRSF13C	mrna	TNFRSF13C	YES	15
3025	meth_NXF1	meth	NXF1	YES	21
3026	mrna_CD46	mrna	CD46	YES	42
3028	meth_RNF103	meth	RNF103	YES	14
3029	cnv_OR8H2	cnv	OR8H2	YES	12
3030	meth_RMDN3	meth	RMDN3	YES	15
3031	meth_PYGO1	meth	PYGO1	YES	13
3031	meth_RP11-299J3.8	meth	RP11-299J3.8	NO	0
3032	meth_EIF5	meth	EIF5	YES	17
3033	meth_AC005523.3	meth	AC005523.3	NO	0
3035	meth_FBXL14	meth	FBXL14	YES	7
3037	meth_COLEC12	meth	COLEC12	YES	23
3037	meth_SNX29	meth	SNX29	YES	5
3038	meth_RNF167	meth	RNF167	YES	12
3039	meth_FAM19A4	meth	FAM19A4	YES	4
3040	meth_CYB5B	meth	CYB5B	YES	13
3041	meth_C9orf172	meth	C9orf172	NO	0
3041	mrna_SUMF1	mrna	SUMF1	YES	11
3046	meth_GAP43	meth	GAP43	YES	29
3048	meth_GADD45G	meth	GADD45G	YES	14
3049	meth_SRPK1	meth	SRPK1	YES	31
3050	meth_HENMT1	meth	HENMT1	YES	13
3053	meth_TRIM33	meth	TRIM33	YES	19
3055	meth_MAP1B	meth	MAP1B	YES	26
3056	meth_JKAMP	meth	JKAMP	YES	7
3058	meth_COQ7	meth	COQ7	YES	17
3058	meth_RAI1	meth	RAI1	YES	15
3059	meth_FAM212A	meth	FAM212A	YES	7
3060	meth_DNAJB6	meth	DNAJB6	YES	27
3061	mrna_SYF2	mrna	SYF2	YES	17
3064	meth_NCOA3	meth	NCOA3	YES	34
3065	meth_MEMO1	meth	MEMO1	YES	7
3066	meth_NUDT22	meth	NUDT22	YES	3
3067	meth_CLSPN	meth	CLSPN	YES	17
3069	meth_CUL1	meth	CUL1	YES	36
3069	mrna_AC004066.3	mrna	AC004066.3	NO	0
3072	stv_NCKAP5	stv	NCKAP5	YES	2
3073	cnv_PSMC3	cnv	PSMC3	YES	55
3073	meth_PLGRKT	meth	PLGRKT	YES	9
3074	meth_SLC25A25	meth	SLC25A25	YES	23
3075	meth_SCYL1	meth	SCYL1	YES	22
3075	mrna_AL122127.2	mrna	AL122127.2	NO	0
3077	meth_CIT	meth	CIT	YES	36
3079	meth_NDRG4	meth	NDRG4	YES	26
3081	meth_ENDOG	meth	ENDOG	YES	27
3085	meth_ATP5O	meth	ATP5O	YES	22
3086	meth_CRABP1	meth	CRABP1	YES	13
3088	meth_TGFBR2	meth	TGFBR2	YES	115
3089	meth_IRF2	meth	IRF2	YES	20
3089	meth_MAP3K11	meth	MAP3K11	YES	37
3090	meth_UBXN2A	meth	UBXN2A	YES	18
3091	meth_C4orf33	meth	C4orf33	YES	1
3092	meth_CTU2	meth	CTU2	YES	13
3095	meth_DPP7	meth	DPP7	YES	16
3096	meth_AVPI1	meth	AVPI1	YES	3
3096	stv_KRT74	stv	KRT74	YES	10
3097	meth_HS3ST3A1	meth	HS3ST3A1	YES	9

3098	meth_PDZD9	meth	PDZD9	YES	1
3098	meth_SSBP4	meth	SSBP4	YES	10
3099	meth_SPTLC2	meth	SPTLC2	YES	21
3100	meth_STPG1	meth	STPG1	YES	9
3101	meth_BRSK2	meth	BRSK2	YES	38
3103	meth_RAB10	meth	RAB10	YES	54
3105	meth_CEP350	meth	CEP350	YES	10
3105	meth_PCDH17	meth	PCDH17	YES	14
3106	meth_CTD-2270P14.5	meth	CTD-2270P14.5	NO	0
3107	meth_SCGB3A1	meth	SCGB3A1	YES	7
3107	mrna_CAPN3	mrna	CAPN3	YES	52
3108	meth_ALG5	meth	ALG5	YES	12
3108	mrna_SAGE1	mrna	SAGE1	YES	1
3110	meth_CHCHD7	meth	CHCHD7	YES	3
3111	meth_C17orf59	meth	C17orf59	YES	1
3112	meth_STYK1	meth	STYK1	YES	24
3113	meth_HYAL3	meth	HYAL3	YES	19
3114	meth_LAPTM4B	meth	LAPTM4B	YES	5
3114	meth_SFPQ	meth	SFPQ	YES	40
3115	mirna_MIR1908	mirna	MIR1908	NO	0
3116	cnv_PTPMT1	cnv	PTPMT1	YES	19
3118	meth_MTMR4	meth	MTMR4	YES	21
3119	meth_CADM4	meth	CADM4	YES	13
3119	stv_ZNF774	stv	ZNF774	YES	8
3120	meth_AC061961.2	meth	AC061961.2	NO	0
3121	meth_INO80B	meth	INO80B	YES	15
3121	meth_YAF2	meth	YAF2	YES	11
3122	meth_AC074338.5	meth	AC074338.5	NO	0
3125	mrna_KCTD6	mrna	KCTD6	YES	7
3126	mrna_PAICS	mrna	PAICS	YES	20
3127	mrna_HSP90AA1	mrna	HSP90AA1	YES	65
3128	meth_EXOSC5	meth	EXOSC5	YES	25
3128	meth_USP33	meth	USP33	YES	38
3129	mrna_RP11-66B24.4	mrna	RP11-66B24.4	NO	0
3132	meth_SEC13	meth	SEC13	YES	32
3132	mrna_RP11-539L10.3	mrna	RP11-539L10.3	NO	0
3133	meth_ATP6V1F	meth	ATP6V1F	YES	19
3133	meth_TMEM65	meth	TMEM65	YES	8
3134	meth_ZNF428	meth	ZNF428	YES	2
3135	meth_SNCA	meth	SNCA	YES	140
3136	meth_DLX5	meth	DLX5	YES	41
3137	meth_STAM2	meth	STAM2	YES	18
3137	meth_ZNF212	meth	ZNF212	YES	10
3139	meth_CCDC107	meth	CCDC107	YES	2
3141	meth_ZNF385D	meth	ZNF385D	YES	7
3142	meth_PCMTD2	meth	PCMTD2	YES	5
3143	meth_NMNAT3	meth	NMNAT3	YES	15
3145	meth_LCE2B	meth	LCE2B	YES	9
3146	meth_CRTAP	meth	CRTAP	YES	12
3147	meth_AC144449.1	meth	AC144449.1	NO	0
3147	meth_CAPZA2	meth	CAPZA2	YES	18
3149	meth_TUBB	meth	TUBB	YES	37
3153	meth_RBM39	meth	RBM39	YES	14
3155	meth_TRIM26	meth	TRIM26	YES	13
3156	meth_DCUN1D1	meth	DCUN1D1	YES	11
3157	mrna_SOAT1	mrna	SOAT1	YES	23
3158	meth_AP1S3	meth	AP1S3	YES	21
3159	meth_PTPRM	meth	PTPRM	YES	30
3161	meth_CTD-2554C21.1	meth	CTD-2554C21.1	NO	0
3162	meth_SPTSSA	meth	SPTSSA	YES	11

3164	meth_RPS16	meth	RPS16	YES	23
3165	meth_SRD5A3	meth	SRD5A3	YES	19
3166	meth_TMCO1	meth	TMCO1	YES	14
3168	meth_WFDC2	meth	WFDC2	YES	12
3169	meth_CHMP6	meth	CHMP6	YES	25
3170	meth_SRSF3	meth	SRSF3	YES	18
3171	meth_USH1C	meth	USH1C	YES	30
3173	meth_OSBPL11	meth	OSBPL11	YES	10
3173	meth_OXSR1	meth	OXSR1	YES	29
3174	meth_SMARCB1	meth	SMARCB1	YES	48
3176	meth_CA2	meth	CA2	YES	39
3176	meth_CENPJ	meth	CENPJ	YES	24
3178	meth_TMEM222	meth	TMEM222	YES	2
3179	meth_AKAP11	meth	AKAP11	YES	11
3180	meth_CTA-29F11.1	meth	CTA-29F11.1	NO	0
3180	meth_PIGU	meth	PIGU	YES	13
3182	meth_PRIMA1	meth	PRIMA1	YES	8
3182	meth_ZADH2	meth	ZADH2	YES	11
3183	meth_PVRL3	meth	PVRL3	YES	17
3183	meth_REST	meth	REST	YES	48
3185	meth_CTD-2319I12.2	meth	CTD-2319I12.2	NO	0
3187	meth_AC091729.9	meth	AC091729.9	NO	0
3187	meth_NME6	meth	NME6	YES	18
3188	meth_GLO1	meth	GLO1	YES	16
3189	meth_GLTP	meth	GLTP	YES	14
3189	mrna_CFHR4	mrna	CFHR4	YES	4
3190	meth_QPCTL	meth	QPCTL	YES	10
3193	mrna_CSNK2A2	mrna	CSNK2A2	YES	34
3194	meth_B2M	meth	B2M	YES	58
3195	mrna_PRRG2	mrna	PRRG2	YES	8
3196	cnv_CKAP5	cnv	CKAP5	YES	31
3198	meth_CCNF	meth	CCNF	YES	20
3201	meth_PCBP1-AS1	meth	PCBP1-AS1	NO	0
3202	mirna_MIR5582	mirna	MIR5582	NO	0
3203	meth_CMAS	meth	CMAS	YES	7
3204	meth_SERBP1	meth	SERBP1	YES	13
3206	mrna_MKNK1	mrna	MKNK1	YES	21
3207	meth_PIAS4	meth	PIAS4	YES	28
3208	meth_SFXN4	meth	SFXN4	YES	10
3211	meth_CTD-3148I10.15	meth	CTD-3148I10.15	NO	0
3213	meth_IDI1	meth	IDI1	YES	16
3214	mrna_CCDC149	mrna	CCDC149	NO	0
3216	meth_SSRP1	meth	SSRP1	YES	16
3217	meth_CCDC25	meth	CCDC25	YES	2
3218	mrna_UBXN1	mrna	UBXN1	YES	22
3221	meth_MIR4515	meth	MIR4515	NO	0
3223	meth_DLAT	meth	DLAT	YES	19
3224	meth_CTD-2215E18.1	meth	CTD-2215E18.1	NO	0
3224	mrna_RP11-789C17.1	mrna	RP11-789C17.1	NO	0
3229	meth_C7orf31	meth	C7orf31	YES	5
3229	mrna_MROH6	mrna	MROH6	YES	1
3233	meth_MXD1	meth	MXD1	YES	18
3233	meth_TFAP4	meth	TFAP4	YES	33
3234	meth_KCNH8	meth	KCNH8	YES	19
3235	meth_HEY2	meth	HEY2	YES	78
3236	meth_DZIP3	meth	DZIP3	YES	20
3237	meth_PRDM5	meth	PRDM5	YES	24
3239	meth_FGFR1OP	meth	FGFR1OP	YES	22
3240	meth_DFNB59	meth	DFNB59	YES	2
3242	meth_RP11-366L5.1	meth	RP11-366L5.1	NO	0

3243	meth_ZNF335	meth	ZNF335	YES	25
3244	meth_MFSD5	meth	MFSD5	YES	8
3244	meth_NCK1	meth	NCK1	YES	49
3246	meth_KIAA0195	meth	KIAA0195	YES	1
3246	meth_SLC47A1	meth	SLC47A1	YES	15
3248	meth_PCNXL3	meth	PCNXL3	YES	1
3249	meth_BBS12	meth	BBS12	YES	14
3249	meth_TOP1	meth	TOP1	YES	40
3250	mrna_MIIP	mrna	MIIP	YES	3
3254	meth_POMGNT1	meth	POMGNT1	YES	11
3255	meth_NDUFB9	meth	NDUFB9	YES	12
3256	meth_TBC1D22B	meth	TBC1D22B	YES	9
3257	meth_CRABP2	meth	CRABP2	YES	22
3258	meth_MIR4638	meth	MIR4638	NO	0
3259	meth_LMAN2	meth	LMAN2	YES	20
3262	cnv_LHX1	cnv	LHX1	YES	82
3262	meth_SEC22A	meth	SEC22A	YES	14
3263	meth_CD63	meth	CD63	YES	38
3263	meth_SPATA13	meth	SPATA13	YES	19
3264	meth_GFI1	meth	GFI1	YES	26
3265	meth_PEG10	meth	PEG10	YES	13
3266	meth_RPL7L1	meth	RPL7L1	YES	9
3267	meth_DMRT3	meth	DMRT3	YES	17
3268	meth_C17orf100	meth	C17orf100	NO	0
3269	meth_ZNF706	meth	ZNF706	YES	6
3269	mrna_CLDN4	mrna	CLDN4	YES	19
3270	mrna_RP11-345N11.1	mrna	RP11-345N11.1	NO	0
3271	meth_SKIL	meth	SKIL	YES	34
3273	meth_FBXO4	meth	FBXO4	YES	25
3273	meth_STAU1	meth	STAU1	YES	22
3277	mrna_CDK1	mrna	CDK1	YES	99
3280	meth_NOP58	meth	NOP58	YES	22
3281	meth_FDFT1	meth	FDFT1	YES	27
3282	meth_SEC24B	meth	SEC24B	YES	35
3285	mrna_FCAMR	mrna	FCAMR	YES	10
3286	meth_CCNG1	meth	CCNG1	YES	14
3288	meth_GABPB2	meth	GABPB2	YES	9
3291	meth_GATAD1	meth	GATAD1	YES	8
3293	meth_AFF1	meth	AFF1	YES	5
3294	meth_HADH	meth	HADH	YES	21
3295	meth_ARID1A	meth	ARID1A	YES	40
3297	meth_ANKIB1	meth	ANKIB1	YES	12
3298	meth_OSBPL9	meth	OSBPL9	YES	12
3298	meth_SEC22C	meth	SEC22C	YES	13
3300	meth_MYL12A	meth	MYL12A	YES	9
3302	meth_FAM3C	meth	FAM3C	YES	10
3303	meth_L34079.4	meth	L34079.4	NO	0
3304	meth_RCBTB2	meth	RCBTB2	YES	4
3305	meth_LSM8	meth	LSM8	YES	13
3307	cnv_ZNF408	cnv	ZNF408	YES	8
3308	meth_SMARCD1	meth	SMARCD1	YES	19
3309	meth_RP11-283G6.3	meth	RP11-283G6.3	NO	0
3309	stv_DIAPH1	stv	DIAPH1	YES	33
3310	meth_GMPPA	meth	GMPPA	YES	8
3311	meth_RP11-158H5.7	meth	RP11-158H5.7	NO	0
3313	meth_RP11-814H16.2	meth	RP11-814H16.2	NO	0
3316	meth_PRKAR2A	meth	PRKAR2A	YES	31
3317	meth_PXN-AS1	meth	PXN-AS1	NO	0
3318	mrna_CGN	mrna	CGN	YES	10
3319	meth_LACE1	meth	LACE1	YES	2

3320	meth_MBIP	meth	MBIP	YES	12
3321	meth_SNAPC3	meth	SNAPC3	YES	12
3322	mrna_FANCG	mrna	FANCG	YES	18
3323	meth_DNAJC11	meth	DNAJC11	YES	4
3325	meth_PDCD4	meth	PDCD4	YES	23
3328	meth_ZNF330	meth	ZNF330	YES	9
3330	meth_LMF1	meth	LMF1	YES	15
3330	meth_SNAPC4	meth	SNAPC4	YES	18
3331	meth_NLRX1	meth	NLRX1	YES	18
3333	meth_LPL	meth	LPL	YES	42
3333	meth_RP11-35J10.5	meth	RP11-35J10.5	NO	0
3334	meth_BHLHE41	meth	BHLHE41	YES	29
3339	meth_PSMB7	meth	PSMB7	YES	45
3339	meth_ZNF202	meth	ZNF202	YES	17
3340	meth_CREM	meth	CREM	YES	23
3341	meth_ABCD3	meth	ABCD3	YES	26
3341	meth_LIF	meth	LIF	YES	47
3342	meth_ITFG1	meth	ITFG1	YES	4
3342	meth_TCOF1	meth	TCOF1	YES	14
3343	meth_UPP1	meth	UPP1	YES	17
3344	mrna_E2F5	mrna	E2F5	YES	19
3345	meth_HNRNPM	meth	HNRNPM	YES	22
3346	meth_MIR3188	meth	MIR3188	NO	0
3347	meth_MCM3AP	meth	MCM3AP	YES	16
3348	meth_GGCX	meth	GGCX	YES	9
3348	meth_SGK3	meth	SGK3	YES	29
3350	meth_NEIL3	meth	NEIL3	YES	22
3353	meth_PLEC	meth	PLEC	YES	23
3353	meth_RP11-549L6.3	meth	RP11-549L6.3	NO	0
3354	mrna_IDH3G	mrna	IDH3G	YES	16
3356	meth_EEF1A1	meth	EEF1A1	YES	32
3357	mrna_SNCA	mrna	SNCA	YES	140
3359	meth_P4HB	meth	P4HB	YES	38
3361	meth_CDC6	meth	CDC6	YES	30
3362	meth_KLK10	meth	KLK10	YES	7
3363	meth_HELZ	meth	HELZ	YES	9
3363	meth_MYBBP1A	meth	MYBBP1A	YES	29
3364	meth_PIGB	meth	PIGB	YES	11
3365	meth_EMC2	meth	EMC2	YES	7
3366	meth_DUSP19	meth	DUSP19	YES	22
3366	meth_RNF19A	meth	RNF19A	YES	19
3367	meth_SH3GL2	meth	SH3GL2	YES	26
3371	meth_TMEM151A	meth	TMEM151A	YES	2
3371	meth_TMEM56	meth	TMEM56	YES	5
3374	cnv_FNBP4	cnv	FNBP4	YES	2
3375	meth_DDIT3	meth	DDIT3	YES	67
3378	meth_C18orf54	meth	C18orf54	YES	3
3380	meth_TIMP3	meth	TIMP3	YES	24
3381	meth_CCDC77	meth	CCDC77	YES	2
3383	cnv_DDB2	cnv	DDB2	YES	31
3383	meth_OGFR	meth	OGFR	YES	10
3386	meth_EPHA5	meth	EPHA5	YES	39
3387	meth_SEC23B	meth	SEC23B	YES	16
3388	meth_ABCF2	meth	ABCF2	YES	9
3389	meth_PKIB	meth	PKIB	YES	10
3395	meth_FAM195A	meth	FAM195A	YES	1
3395	meth_TCHP	meth	TCHP	YES	18
3398	meth_CNIH1	meth	CNIH1	YES	14
3399	mirna_MIR6807	mirna	MIR6807	NO	0
3402	meth_CAP1	meth	CAP1	YES	21

3406	meth_RNU4-39P	meth	RNU4-39P	NO	0
3411	meth_PIGG	meth	PIGG	YES	14
3412	meth_PAFAH2	meth	PAFAH2	YES	9
3412	meth_ZNF622	meth	ZNF622	YES	18
3414	meth_KCNA4	meth	KCNA4	YES	20
3414	meth_SLC30A7	meth	SLC30A7	YES	20
3415	meth_TMEM243	meth	TMEM243	YES	2
3417	meth_STOML2	meth	STOML2	YES	32
3418	meth_BCL9	meth	BCL9	YES	15
3420	mrna_CRLF2	mrna	CRLF2	YES	4
3421	meth_GCDH	meth	GCDH	YES	18
3423	meth_KHK	meth	KHK	YES	19
3424	meth_NOL4L	meth	NOL4L	YES	3
3425	meth_ANKRD27	meth	ANKRD27	YES	29
3428	meth_CNTFR	meth	CNTFR	YES	22
3428	meth_RP11-424N24.2	meth	RP11-424N24.2	NO	0
3431	cnv_FZD9	cnv	FZD9	YES	43
3432	meth_C2CD2L	meth	C2CD2L	YES	16
3434	meth_NHLRC3	meth	NHLRC3	YES	4
3436	meth_CA11	meth	CA11	YES	2
3436	meth_CHTF8	meth	CHTF8	YES	11
3437	meth_ERGIC3	meth	ERGIC3	YES	8
3439	meth_KCND3	meth	KCND3	YES	32
3440	meth_KIAA0922	meth	KIAA0922	YES	1
3440	meth_SCUBE1	meth	SCUBE1	YES	20
3441	meth_CREBL2	meth	CREBL2	YES	15
3443	meth_AASDH	meth	AASDH	YES	10
3445	mrna_RNF39	mrna	RNF39	YES	6
3447	mrna_CC2D1B	mrna	CC2D1B	YES	10
3450	meth_CCRN4L	meth	CCRN4L	YES	13
3455	meth_SEZ6L	meth	SEZ6L	YES	9
3455	meth_TMEM9B	meth	TMEM9B	YES	9
3456	mrna_CENPL	mrna	CENPL	YES	8
3459	meth_PARS2	meth	PARS2	YES	11
3460	meth_DICER1	meth	DICER1	YES	71
3461	meth_CTD-2523D13.2	meth	CTD-2523D13.2	NO	0
3461	meth_YWHAZ	meth	YWHAZ	YES	35
3462	cnv_OR8K3	cnv	OR8K3	YES	12
3462	mrna_CNKSR1	mrna	CNKSR1	YES	12
3463	meth_S1PR5	meth	S1PR5	YES	10
3464	meth_NELL1	meth	NELL1	YES	14
3465	meth_ZWINT	meth	ZWINT	YES	20
3466	meth_MRO	meth	MRO	YES	3
3467	meth_AP000442.1	meth	AP000442.1	NO	0
3468	meth_ATP11B	meth	ATP11B	YES	27
3472	meth_UBALD2	meth	UBALD2	YES	1
3474	meth_ZNF689	meth	ZNF689	YES	8
3476	meth_GBF1	meth	GBF1	YES	44
3478	meth_RBMS3	meth	RBMS3	YES	5
3480	meth_MCM6	meth	MCM6	YES	19
3482	mrna_PNKD	mrna	PNKD	YES	13
3484	meth_NEU1	meth	NEU1	YES	27
3485	meth_GTF3C6	meth	GTF3C6	YES	10
3486	meth_PAX2	meth	PAX2	YES	96
3488	cnv_OR5D18	cnv	OR5D18	YES	12
3489	meth_RP11-519G16.2	meth	RP11-519G16.2	NO	0
3490	cnv_OR4X2	cnv	OR4X2	YES	13
3491	meth_RIMKLA	meth	RIMKLA	YES	10
3492	meth_ACOT13	meth	ACOT13	YES	11
3494	meth_CEP44	meth	CEP44	YES	7

3494	meth_NABP1	meth	NABP1	YES	15
3495	mrna_EXOSC3	mrna	EXOSC3	YES	26
3496	meth_RBM28	meth	RBM28	YES	8
3499	meth_PDPK1	meth	PDPK1	YES	62
3500	mrna_SGOL1	mrna	SGOL1	YES	17
3504	mrna_BLOC1S4	mrna	BLOC1S4	YES	12
3506	meth_KCNK10	meth	KCNK10	YES	15
3510	meth_UBAC2	meth	UBAC2	YES	10
3511	meth_SCNN1G	meth	SCNN1G	YES	25
3514	meth_FOXK2	meth	FOXK2	YES	18
3515	meth_CTD-3222D19.2	meth	CTD-3222D19.2	NO	0
3516	meth_PFKFB3	meth	PFKFB3	YES	18
3517	meth_BIRC6	meth	BIRC6	YES	31
3518	meth_STAM	meth	STAM	YES	22
3520	meth_ARV1	meth	ARV1	YES	19
3523	meth_STARD13	meth	STARD13	YES	15
3524	cnv_OR5T3	cnv	OR5T3	YES	31
3526	meth_C18orf8	meth	C18orf8	YES	2
3527	meth_RP11-514O12.4	meth	RP11-514O12.4	NO	0
3528	meth_ASB6	meth	ASB6	YES	7
3533	meth_FAM222A	meth	FAM222A	NO	0
3535	cnv_CCL18	cnv	CCL18	YES	23
3538	meth_CTD-2269F5.1	meth	CTD-2269F5.1	NO	0
3539	meth_TMEM63A	meth	TMEM63A	YES	14
3540	meth_ADIPOR1	meth	ADIPOR1	YES	29
3544	meth_ACYP2	meth	ACYP2	YES	4
3544	meth_TMEM8A	meth	TMEM8A	YES	10
3545	meth_BIRC5	meth	BIRC5	YES	50
3546	meth_CARM1	meth	CARM1	YES	51
3556	meth_PSME2	meth	PSME2	YES	38
3558	meth_AC093668.2	meth	AC093668.2	NO	0
3561	meth_TMEM2	meth	TMEM2	YES	15
3563	meth_NRD1	meth	NRD1	YES	14
3563	meth_PICK1	meth	PICK1	YES	45
3566	meth_AC003991.3	meth	AC003991.3	NO	0
3566	mrna_MLLT3	mrna	MLLT3	YES	13
3567	meth_ZBTB17	meth	ZBTB17	YES	29
3568	meth_RBBP6	meth	RBBP6	YES	29
3569	meth_NEDD4	meth	NEDD4	YES	63
3570	meth_CCZ1B	meth	CCZ1B	YES	8
3570	mrna_WFDC10B	mrna	WFDC10B	YES	3
3572	meth_PRICKLE1	meth	PRICKLE1	YES	18
3573	meth_SYT2	meth	SYT2	YES	25
3574	meth_HPS6	meth	HPS6	YES	20
3576	mrna_TMEM62	mrna	TMEM62	YES	3
3578	meth_WBSCR16	meth	WBSCR16	YES	3
3579	meth_PTDSS2	meth	PTDSS2	YES	10
3579	mrna_AC007228.9	mrna	AC007228.9	NO	0
3583	meth_RNF41	meth	RNF41	YES	36
3585	meth_GCSH	meth	GCSH	YES	10
3586	meth_GADD45GIP1	meth	GADD45GIP1	YES	14
3587	meth_RTCA	meth	RTCA	YES	9
3588	meth_TRPV5	meth	TRPV5	YES	22
3589	meth_NARS2	meth	NARS2	YES	14
3591	meth_MPZL3	meth	MPZL3	YES	6
3592	meth_RBM42	meth	RBM42	YES	6
3594	mrna_SHCBP1	mrna	SHCBP1	YES	8
3596	meth_AC022201.5	meth	AC022201.5	NO	0
3599	meth_DEF6	meth	DEF6	YES	11
3601	meth_AASDHPPT	meth	AASDHPPT	YES	11

3601	meth_C1orf56	meth	C1orf56	YES	1
3603	stv_CTD-3105H18.18	stv	CTD-3105H18.18	NO	0
3608	mrna_ZNF200	mrna	ZNF200	YES	7
3610	meth_PPP6R2	meth	PPP6R2	YES	4
3612	meth_PIGM	meth	PIGM	YES	9
3619	meth_LSM10	meth	LSM10	YES	15
3620	meth_HR	meth	HR	YES	17
3620	meth_TRIB2	meth	TRIB2	YES	17
3621	meth_MGAT1	meth	MGAT1	YES	15
3624	meth_CFAP20	meth	CFAP20	YES	17
3626	mrna_CTA-280A3.2	mrna	CTA-280A3.2	NO	0
3627	meth_CCDC63	meth	CCDC63	YES	6
3629	meth_NUDCD3	meth	NUDCD3	YES	8
3629	mrna_GTF2H2C	mrna	GTF2H2C	YES	14
3630	meth_NDUFA10	meth	NDUFA10	YES	13
3633	meth_AC034198.1	meth	AC034198.1	NO	0
3634	meth_PISD	meth	PISD	YES	13
3636	meth_MCL1	meth	MCL1	YES	33
3636	meth_RP11-347C18.3	meth	RP11-347C18.3	NO	0
3638	meth_KIAA0391	meth	KIAA0391	YES	10
3638	meth_KLF6	meth	KLF6	YES	17
3640	meth_RASA1	meth	RASA1	YES	30
3643	meth_PIAS1	meth	PIAS1	YES	37
3644	meth_CISD2	meth	CISD2	YES	18
3645	meth_PSMA3	meth	PSMA3	YES	43
3648	meth_EPB41L4B	meth	EPB41L4B	YES	14
3653	meth_FUK	meth	FUK	YES	10
3657	meth_TMEM145	meth	TMEM145	YES	4
3659	meth_RP4-612B15.3	meth	RP4-612B15.3	NO	0
3660	meth_PSMD2	meth	PSMD2	YES	43
3662	mrna_SPATA32	mrna	SPATA32	YES	3
3663	meth_CDNF	meth	CDNF	YES	6
3667	meth_RNF141	meth	RNF141	YES	6
3668	meth_TLE4	meth	TLE4	YES	16
3669	meth_BBS5	meth	BBS5	YES	26
3672	meth_AP000295.9	meth	AP000295.9	NO	0
3673	meth_GJC1	meth	GJC1	YES	27
3675	meth_CTC-232P5.1	meth	CTC-232P5.1	NO	0
3675	meth_SLC18B1	meth	SLC18B1	YES	6
3676	meth_CRLF1	meth	CRLF1	YES	16
3676	meth_WNT11	meth	WNT11	YES	65
3678	meth_LDLR	meth	LDLR	YES	75
3679	cnv_CCL14	cnv	CCL14	YES	22
3680	meth_GYS1	meth	GYS1	YES	16
3680	meth_NACA	meth	NACA	YES	22
3682	meth_EPHB1	meth	EPHB1	YES	58
3684	meth_BCL3	meth	BCL3	YES	50
3688	meth_UNG	meth	UNG	YES	19
3689	meth_RP11-24C3.2	meth	RP11-24C3.2	NO	0
3690	meth_BAP1	meth	BAP1	YES	29
3691	meth_TMEM160	meth	TMEM160	YES	3
3692	meth_ALK	meth	ALK	YES	37
3693	meth_SNHG19	meth	SNHG19	NO	0
3693	mrna_AMBRA1	mrna	AMBRA1	YES	29
3696	mrna_LINC01547	mrna	LINC01547	NO	0
3697	meth_DDX18	meth	DDX18	YES	15
3699	meth_ADARB2	meth	ADARB2	YES	10
3700	meth_NDUFAF4	meth	NDUFAF4	YES	8
3701	cnv_LYZL6	cnv	LYZL6	YES	19
3702	meth_KXD1	meth	KXD1	YES	8

3703	meth_IREB2	meth	IREB2	YES	22
3704	meth_STK17A	meth	STK17A	YES	16
3707	meth_CPSF2	meth	CPSF2	YES	15
3709	mrna_SNW1	mrna	SNW1	YES	49
3710	meth_RP11-149I2.4	meth	RP11-149I2.4	NO	0
3711	mrna_CRYBA4	mrna	CRYBA4	YES	6
3713	meth_LINC00472	meth	LINC00472	NO	0
3713	meth_RP11-182J1.17	meth	RP11-182J1.17	NO	0
3715	cnv_RNA5SP232	cnv	RNA5SP232	NO	0
3716	meth_AKR1A1	meth	AKR1A1	YES	19
3719	meth_CITED4	meth	CITED4	YES	12
3722	meth_RAB33B	meth	RAB33B	YES	20
3723	meth_FANCL	meth	FANCL	YES	20
3724	meth_ERICH6	meth	ERICH6	NO	0
3726	meth_FARSA	meth	FARSA	YES	17
3727	meth_SNRNP70	meth	SNRNP70	YES	28
3728	meth_ST3GAL5	meth	ST3GAL5	YES	18
3730	cnv_GYLTL1B	cnv	GYLTL1B	YES	4
3731	meth_JAG1	meth	JAG1	YES	58
3733	meth_PTBP1	meth	PTBP1	YES	20
3734	meth_SAP30L	meth	SAP30L	YES	18
3735	meth_CSNK2B	meth	CSNK2B	YES	46
3737	meth_PNPT1	meth	PNPT1	YES	53
3740	meth_PPM1J	meth	PPM1J	YES	5
3741	meth_DHX9	meth	DHX9	YES	73
3742	meth_CHERP	meth	CHERP	YES	17
3743	meth_C19orf12	meth	C19orf12	YES	11
3743	mrna_MANEAL	mrna	MANEAL	YES	6
3744	meth_HRAS	meth	HRAS	YES	74
3745	meth_E2F6	meth	E2F6	YES	17
3746	meth_OARD1	meth	OARD1	YES	5
3746	meth_ZFPM1	meth	ZFPM1	YES	46
3747	meth_POLDIP2	meth	POLDIP2	YES	8
3760	meth_AF111168.2	meth	AF111168.2	NO	0
3760	meth_RP11-379F4.9	meth	RP11-379F4.9	NO	0
3763	meth_SAFB	meth	SAFB	YES	19
3765	mrna_CPTP	mrna	CPTP	YES	20
3767	meth_KIF20B	meth	KIF20B	YES	48
3767	meth_KLF10	meth	KLF10	YES	28
3768	meth_ATAD1	meth	ATAD1	YES	18
3769	meth_SMAD4	meth	SMAD4	YES	116
3770	meth_TAF1B	meth	TAF1B	YES	22
3774	meth_PDPN	meth	PDPN	YES	53
3776	meth_ANKRD46	meth	ANKRD46	YES	2
3777	meth_MKNK1	meth	MKNK1	YES	21
3778	mrna_TUT1	mrna	TUT1	YES	21
3779	meth_SEPT11	meth	SEPT11	YES	15
3781	meth_GNB2L1	meth	GNB2L1	YES	50
3788	mrna_MSL3P1	mrna	MSL3P1	NO	0
3791	meth_BMPR2	meth	BMPR2	YES	86
3793	meth_ASCL2	meth	ASCL2	YES	25
3794	meth_EFNA1	meth	EFNA1	YES	40
3795	meth_ELP6	meth	ELP6	YES	8
3796	meth_APBA3	meth	APBA3	YES	13
3797	meth_AKAP13	meth	AKAP13	YES	40
3798	meth_E2F7	meth	E2F7	YES	30
3799	meth_RPS6	meth	RPS6	YES	41
3802	meth_EIF4B	meth	EIF4B	YES	19
3803	meth_CDC42EP4	meth	CDC42EP4	YES	17
3804	meth_ABL1	meth	ABL1	YES	142

3806	meth_ABCA7	meth	ABCA7	YES	41
3807	meth_DAP3	meth	DAP3	YES	17
3810	meth_PSKH1	meth	PSKH1	YES	27
3811	mrna_CTD-2139B15.5	mrna	CTD-2139B15.5	NO	0
3814	meth_CDC23	meth	CDC23	YES	22
3816	meth_KCNA7	meth	KCNA7	YES	15
3819	mrna_ERBB3	mrna	ERBB3	YES	62
3821	meth_PDCD2	meth	PDCD2	YES	13
3822	meth_ATP5F1	meth	ATP5F1	YES	26
3823	meth_RBSN	meth	RBSN	YES	25
3825	meth_MIR320A	meth	MIR320A	YES	3
3826	meth_POLI	meth	POLI	YES	18
3834	meth_OPTN	meth	OPTN	YES	41
3835	meth_HEMGN	meth	HEMGN	YES	6
3838	meth_KLHL22	meth	KLHL22	YES	18
3839	mrna_RP11-428G5.5	mrna	RP11-428G5.5	NO	0
3843	meth_NUDT15	meth	NUDT15	YES	18
3846	meth_CMBL	meth	CMBL	YES	5
3847	meth_STOML1	meth	STOML1	YES	7
3851	meth_TAF1A	meth	TAF1A	YES	15
3856	mrna_SLC41A2	mrna	SLC41A2	YES	14
3857	meth_CSTF2T	meth	CSTF2T	YES	13
3858	meth_NADSYN1	meth	NADSYN1	YES	12
3858	meth_RP11-425M5.7	meth	RP11-425M5.7	NO	0
3860	meth_ARHGEF2	meth	ARHGEF2	YES	59
3862	meth_PI4KA	meth	PI4KA	YES	25
3866	meth_C4orf29	meth	C4orf29	YES	1
3866	meth_MIF4GD	meth	MIF4GD	YES	8
3870	meth_CHKA	meth	CHKA	YES	25
3872	meth_ST6GALNAC3	meth	ST6GALNAC3	YES	16
3873	meth_CCNK	meth	CCNK	YES	25
3874	meth_NCOA5	meth	NCOA5	YES	10
3876	meth_C12orf65	meth	C12orf65	YES	9
3879	meth_ERP44	meth	ERP44	YES	16
3883	meth_SIKE1	meth	SIKE1	YES	5
3884	meth_UBR2	meth	UBR2	YES	23
3886	meth_ARHGEF37	meth	ARHGEF37	YES	6
3887	meth_BTN2A3P	meth	BTN2A3P	NO	0
3887	meth_CIR1	meth	CIR1	YES	19
3888	meth_AC079305.10	meth	AC079305.10	NO	0
3890	meth_MYO1E	meth	MYO1E	YES	35
3891	meth_RP11-501J20.5	meth	RP11-501J20.5	NO	0
3892	cnv_RNA5SP439	cnv	RNA5SP439	NO	0
3893	meth_ACTR1A	meth	ACTR1A	YES	25
3895	mrna_FLJ36000	mrna	FLJ36000	NO	0
3897	meth_SMDT1	meth	SMDT1	YES	15
3898	meth_CEP41	meth	CEP41	YES	19
3898	meth_TNC	meth	TNC	YES	34
3904	meth_IL17RD	meth	IL17RD	YES	12
3906	meth_INPP5F	meth	INPP5F	YES	36
3907	meth_MIR1908	meth	MIR1908	NO	0
3909	meth_CFDP1	meth	CFDP1	YES	13
3911	meth_ALS2CL	meth	ALS2CL	YES	10
3913	meth_UHRF2	meth	UHRF2	YES	19
3916	meth_NVL	meth	NVL	YES	12
3920	meth_YBX3	meth	YBX3	YES	35
3923	meth_GFOD2	meth	GFOD2	YES	5
3924	meth_TPX2	meth	TPX2	YES	26
3925	meth_AC009121.2	meth	AC009121.2	NO	0
3927	meth_EMB	meth	EMB	YES	8

3931	mrna_LINGO3	mrna	LINGO3	YES	4
3933	meth_ZNF436-AS1	meth	ZNF436-AS1	NO	0
3935	meth_SLC25A19	meth	SLC25A19	YES	16
3937	meth_CENPBD1P1	meth	CENPBD1P1	NO	0
3938	meth_ACTL6A	meth	ACTL6A	YES	35
3939	meth_NFS1	meth	NFS1	YES	21
3945	meth_AQP11	meth	AQP11	YES	18
3945	meth_PRRC2A	meth	PRRC2A	YES	7
3948	meth_NUBP2	meth	NUBP2	YES	16
3949	meth_SENP1	meth	SENP1	YES	20
3951	meth_ZMYND19	meth	ZMYND19	YES	7
3952	meth_MIR6834	meth	MIR6834	NO	0
3954	meth_FBXO48	meth	FBXO48	YES	1
3954	meth_Telomerase-vert	meth	Telomerase-vert	NO	0
3960	meth_IFT80	meth	IFT80	YES	13
3961	meth_LIMD1	meth	LIMD1	YES	34
3964	meth_EXOSC9	meth	EXOSC9	YES	32
3966	meth_BX322557.10	meth	BX322557.10	NO	0
3968	mrna_C1orf122	mrna	C1orf122	NO	0
3969	meth_AC106782.20	meth	AC106782.20	NO	0
3969	mrna_LINC01220	mrna	LINC01220	NO	0
3971	meth_NIPA1	meth	NIPA1	YES	11
3975	meth_C9orf72	meth	C9orf72	YES	20
3980	meth_SLC38A7	meth	SLC38A7	YES	30
3982	meth_TMEM141	meth	TMEM141	YES	5
3983	meth_RNF7	meth	RNF7	YES	25
3985	meth_RP11-77P6.2	meth	RP11-77P6.2	NO	0
3987	meth_NRF1	meth	NRF1	YES	19
3989	meth_BUD31	meth	BUD31	YES	11
3989	meth_MET	meth	MET	YES	50
3990	meth_QARS	meth	QARS	YES	25
3991	meth_ZBTB7A	meth	ZBTB7A	YES	14
3994	meth_PLK3	meth	PLK3	YES	44
3997	meth_ITGB3BP	meth	ITGB3BP	YES	22
3998	meth_SSB	meth	SSB	YES	21
3999	meth_RCC1	meth	RCC1	YES	28
4000	meth_BRD2	meth	BRD2	YES	12
4000	meth_DCTN6	meth	DCTN6	YES	11
4001	meth_TM9SF1	meth	TM9SF1	YES	7
4002	meth_TRPM4	meth	TRPM4	YES	51
4008	meth_JUNB	meth	JUNB	YES	43
4009	meth_FAM216A	meth	FAM216A	NO	0
4014	meth_TNKS2	meth	TNKS2	YES	30
4017	meth_FKBP7	meth	FKBP7	YES	11
4017	meth_ZBTB21	meth	ZBTB21	YES	9
4021	meth_PPP2R5B	meth	PPP2R5B	YES	21
4022	meth_RP11-505K9.1	meth	RP11-505K9.1	NO	0
4027	meth_TMTC2	meth	TMTC2	YES	6
4031	meth_SEMA4F	meth	SEMA4F	YES	16
4035	meth_DPYD	meth	DPYD	YES	26
4036	meth_EGR1	meth	EGR1	YES	69
4037	meth_ERCC4	meth	ERCC4	YES	44
4038	meth_H1FX	meth	H1FX	YES	8
4040	meth_SLC35F5	meth	SLC35F5	YES	3
4042	meth_RP11-22C11.2	meth	RP11-22C11.2	NO	0
4044	meth_ATPIF1	meth	ATPIF1	YES	26
4044	meth_CTC-444N24.13	meth	CTC-444N24.13	NO	0
4046	meth_RP11-460I13.2	meth	RP11-460I13.2	NO	0
4050	meth_SASS6	meth	SASS6	YES	11
4052	meth_ABHD6	meth	ABHD6	YES	16

4052	meth_BBX	meth	BBX	YES	7
4058	meth_CTC-398G3.6	meth	CTC-398G3.6	NO	0
4059	meth_SRSF4	meth	SRSF4	YES	17
4061	meth_NFIL3	meth	NFIL3	YES	17
4062	meth_MYO9A	meth	MYO9A	YES	18
4064	meth_DEPTOR	meth	DEPTOR	YES	8
4065	meth_GORAB	meth	GORAB	YES	10
4079	meth_ELP2	meth	ELP2	YES	13
4081	mrna_MEST	mrna	MEST	YES	8
4084	meth_CEP104	meth	CEP104	YES	11
4086	meth_EZH1	meth	EZH1	YES	15
4091	mrna_RP11-459I19.1	mrna	RP11-459I19.1	NO	0
4093	mrna_TRAIP	mrna	TRAIP	YES	16
4094	meth_ME2	meth	ME2	YES	16
4095	meth_FAM167A	meth	FAM167A	YES	2
4097	meth_CCDC90B	meth	CCDC90B	YES	5
4097	meth_SF3B2	meth	SF3B2	YES	15
4101	meth_DHX34	meth	DHX34	YES	11
4103	cnv_FAM180B	cnv	FAM180B	YES	2
4105	meth_SPAG9	meth	SPAG9	YES	26
4106	meth_HIP1	meth	HIP1	YES	53
4108	meth_SLC33A1	meth	SLC33A1	YES	14
4110	meth_IARS	meth	IARS	YES	19
4111	meth_PSME4	meth	PSME4	YES	43
4114	meth_FGF19	meth	FGF19	YES	26
4118	meth_TAGLN2	meth	TAGLN2	YES	8
4118	mrna_HOXB9	mrna	HOXB9	YES	17
4119	mirna_MIR636	mirna	MIR636	NO	0
4120	meth_CCDC97	meth	CCDC97	YES	1
4121	meth_EPB41L5	meth	EPB41L5	YES	43
4122	cnv_OR5D16	cnv	OR5D16	YES	12
4122	mrna_HJURP	mrna	HJURP	YES	17
4123	meth_TMEM126B	meth	TMEM126B	YES	10
4125	meth_DGKI	meth	DGKI	YES	41
4128	meth_RP11-603J24.4	meth	RP11-603J24.4	NO	0
4131	meth_C6orf136	meth	C6orf136	YES	2
4133	meth_ELL2	meth	ELL2	YES	8
4134	cnv_NDUFS3	cnv	NDUFS3	YES	23
4137	meth_LMAN1	meth	LMAN1	YES	29
4139	meth_RTFDC1	meth	RTFDC1	YES	6
4142	meth_TGDS	meth	TGDS	YES	12
4144	meth_EIF3G	meth	EIF3G	YES	17
4154	mrna_VPREB3	mrna	VPREB3	YES	6
4158	cnv_OR4X1	cnv	OR4X1	YES	13
4159	meth_CTD-2292P10.4	meth	CTD-2292P10.4	NO	0
4161	meth_ADAMTS5	meth	ADAMTS5	YES	19
4164	meth_SNORD110	meth	SNORD110	NO	0
4165	meth_RP11-6D1.3	meth	RP11-6D1.3	NO	0
4166	meth_C8orf37	meth	C8orf37	YES	6
4167	meth_RP11-474P2.2	meth	RP11-474P2.2	NO	0
4169	meth_CARD14	meth	CARD14	YES	13
4171	meth_LAP3	meth	LAP3	YES	18
4172	meth_GBAS	meth	GBAS	YES	7
4173	meth_PCSK5	meth	PCSK5	YES	38
4174	meth_TP53RK	meth	TP53RK	YES	20
4176	meth_POU2F1	meth	POU2F1	YES	17
4176	mirna_MIR4802	mirna	MIR4802	NO	0
4178	cnv_OR4C5	cnv	OR4C5	YES	13
4180	meth_MTF1	meth	MTF1	YES	22
4182	mrna_DIAPH3	mrna	DIAPH3	YES	9

4184	meth_OCIAD2	meth	OCIAD2	YES	3
4186	meth_TP53	meth	TP53	YES	144
4190	mrna_HMHA1	mrna	HMHA1	YES	8
4193	meth_NUDT3	meth	NUDT3	YES	28
4197	meth_UBE2R2-AS1	meth	UBE2R2-AS1	NO	0
4198	meth_AKT1	meth	AKT1	YES	182
4198	mrna_CNOT10	mrna	CNOT10	YES	13
4202	meth_LAMTOR2	meth	LAMTOR2	YES	25
4205	meth_CNGA4	meth	CNGA4	YES	18
4206	meth_TMX1	meth	TMX1	YES	14
4207	meth_COPB1	meth	COPB1	YES	30
4210	meth_ERCC8	meth	ERCC8	YES	21
4212	meth_HCN2	meth	HCN2	YES	32
4213	meth_SIVA1	meth	SIVA1	YES	16
4216	meth_BRPF1	meth	BRPF1	YES	18
4218	meth_TMEM246	meth	TMEM246	YES	2
4219	mrna_PIGO	mrna	PIGO	YES	14
4223	meth_CKAP5	meth	CKAP5	YES	31
4225	meth_USP15	meth	USP15	YES	25
4227	meth_REV3L	meth	REV3L	YES	21
4227	meth_STK40	meth	STK40	YES	22
4228	meth_C19orf38	meth	C19orf38	YES	2
4230	meth_TRPM3	meth	TRPM3	YES	20
4233	meth_ZBTB20	meth	ZBTB20	YES	13
4236	meth_TEX2	meth	TEX2	YES	7
4240	meth_MTDH	meth	MTDH	YES	30
4243	meth_EIF2A	meth	EIF2A	YES	19
4250	meth_CSE1L	meth	CSE1L	YES	17
4251	meth_LOX	meth	LOX	YES	25
4255	meth_MYL6	meth	MYL6	YES	16
4256	stv_MICALCL	stv	MICALCL	YES	6
4261	meth_NIPA2	meth	NIPA2	YES	10
4263	meth_MTUS1	meth	MTUS1	YES	13
4264	meth_LHB	meth	LHB	YES	15
4265	meth_TSPAN2	meth	TSPAN2	YES	14
4266	meth_FHL3	meth	FHL3	YES	9
4270	meth_ARMC7	meth	ARMC7	YES	7
4270	meth_BID	meth	BID	YES	46
4272	meth_LOH12CR1	meth	LOH12CR1	NO	0
4274	meth_CTDSPL2	meth	CTDSPL2	YES	8
4276	meth_LYAR	meth	LYAR	YES	6
4280	meth_RASSF2	meth	RASSF2	YES	31
4281	meth_VAX2	meth	VAX2	YES	22
4282	meth_ZW10	meth	ZW10	YES	37
4287	meth_ARF4	meth	ARF4	YES	29
4288	meth_C2orf49	meth	C2orf49	YES	6
4289	meth_MRPL1	meth	MRPL1	YES	17
4292	meth_RP11-35O15.1	meth	RP11-35O15.1	NO	0
4294	meth_RP5-821D11.7	meth	RP5-821D11.7	NO	0
4295	meth_ARFGAP1	meth	ARFGAP1	YES	20
4296	meth_FTSJ2	meth	FTSJ2	YES	9
4298	meth_CHCHD3	meth	CHCHD3	YES	18
4301	mrna_SRMS	mrna	SRMS	YES	20
4305	meth_SUCO	meth	SUCO	YES	10
4308	meth_DPYSL4	meth	DPYSL4	YES	10
4315	meth_ITGA5	meth	ITGA5	YES	49
4319	meth_MRPS28	meth	MRPS28	YES	9
4320	meth_AC109925.1	meth	AC109925.1	NO	0
4320	mrna_RP3-342P20.2	mrna	RP3-342P20.2	NO	0
4323	meth_MPP5	meth	MPP5	YES	21

4324	meth_PAQR7	meth	PAQR7	YES	11
4325	meth_KCNU1	meth	KCNU1	YES	17
4326	meth_CEP70	meth	CEP70	YES	10
4326	meth_SCYL3	meth	SCYL3	YES	10
4327	meth_KCNK13	meth	KCNK13	YES	13
4330	meth_ARL6	meth	ARL6	YES	37
4335	meth_AMZ2	meth	AMZ2	YES	7
4339	meth_MLLT1	meth	MLLT1	YES	12
4339	mrna_SMURF2	mrna	SMURF2	YES	31
4345	meth_MIR6872	meth	MIR6872	NO	0
4345	meth_PIK3C3	meth	PIK3C3	YES	50
4347	meth_ASPH	meth	ASPH	YES	45
4352	meth_CORO1B	meth	CORO1B	YES	31
4353	meth_CD46	meth	CD46	YES	42
4358	meth_CYP26B1	meth	CYP26B1	YES	39
4363	meth_PDE10A	meth	PDE10A	YES	24
4369	meth_NUF2	meth	NUF2	YES	15
4369	mirna_MIR33A	mirna	MIR33A	YES	1
4372	meth_RAB23	meth	RAB23	YES	26
4373	meth_COPS2	meth	COPS2	YES	21
4376	meth_MEIS1	meth	MEIS1	YES	25
4377	meth_ABHD10	meth	ABHD10	YES	8
4382	meth_C1orf105	meth	C1orf105	YES	1
4385	meth_BRINP2	meth	BRINP2	YES	9
4387	meth_ASTN1	meth	ASTN1	YES	15
4387	meth_JARID2	meth	JARID2	YES	30
4393	meth_TAOK3	meth	TAOK3	YES	27
4394	meth_KLF16	meth	KLF16	YES	12
4394	stv_AIFM2	stv	AIFM2	YES	17
4395	meth_DCHS2	meth	DCHS2	YES	11
4396	meth_PTS	meth	PTS	YES	14
4398	meth_CUX1	meth	CUX1	YES	24
4401	meth_BOD1L1	meth	BOD1L1	YES	5
4404	mrna_PPAT	mrna	PPAT	YES	26
4408	meth_H3F3A	meth	H3F3A	YES	47
4418	meth_AL132768.1	meth	AL132768.1	NO	0
4418	meth_LRP1	meth	LRP1	YES	75
4422	meth_MGST2	meth	MGST2	YES	24
4423	meth_DCK	meth	DCK	YES	17
4425	meth_RAB28	meth	RAB28	YES	16
4427	meth_PPHLN1	meth	PPHLN1	YES	11
4429	meth_CTC-273B12.5	meth	CTC-273B12.5	NO	0
4437	meth_AL662800.1	meth	AL662800.1	NO	0
4437	meth_DR1	meth	DR1	YES	13
4440	meth_CSAD	meth	CSAD	YES	12
4443	meth_HSPA9	meth	HSPA9	YES	20
4444	meth_PDCL	meth	PDCL	YES	14
4451	mrna_MKLN1-AS	mrna	MKLN1-AS	NO	0
4454	meth_NME3	meth	NME3	YES	20
4456	mrna_RP11-731F5.2	mrna	RP11-731F5.2	NO	0
4457	meth_APMAP	meth	APMAP	YES	9
4460	meth_PTBP3	meth	PTBP3	YES	10
4462	meth_SHB	meth	SHB	YES	26
4462	meth_SMUG1	meth	SMUG1	YES	14
4463	cnv_BCL7B	cnv	BCL7B	YES	7
4467	cnv_RN7SL625P	cnv	RN7SL625P	NO	0
4468	meth_PREB	meth	PREB	YES	26
4470	meth_LDHA	meth	LDHA	YES	33
4471	meth_RP11-599B13.7	meth	RP11-599B13.7	NO	0
4471	meth_RPS10-NUDT3	meth	RPS10-NUDT3	YES	6

4475	cnv_OR5F1	cnv	OR5F1	YES	12
4476	meth_ANKRD34A	meth	ANKRD34A	YES	2
4480	meth_CHID1	meth	CHID1	YES	19
4482	mrna_RASGRP2	mrna	RASGRP2	YES	22
4483	mrna_PLIN5	mrna	PLIN5	YES	20
4485	meth_FECH	meth	FECH	YES	34
4486	meth_IMPDH2	meth	IMPDH2	YES	27
4488	meth_AC005785.2	meth	AC005785.2	NO	0
4489	meth_IQCC	meth	IQCC	YES	1
4494	meth_CRIPT	meth	CRIPT	YES	20
4495	meth_MTRF1L	meth	MTRF1L	YES	6
4496	meth_POLR2J2	meth	POLR2J2	YES	8
4496	meth_PPCDC	meth	PPCDC	YES	9
4506	meth_LAPTM4A	meth	LAPTM4A	YES	5
4520	meth_PROK2	meth	PROK2	YES	19
4524	meth_RNF121	meth	RNF121	YES	9
4525	meth_ZC3H13	meth	ZC3H13	YES	6
4526	meth_AGPAT1	meth	AGPAT1	YES	19
4532	meth_SYNE1	meth	SYNE1	YES	30
4532	meth_TOP2B	meth	TOP2B	YES	27
4534	meth_CREG2	meth	CREG2	YES	6
4535	meth_SPAST	meth	SPAST	YES	57
4540	meth_RP11-428O18.6	meth	RP11-428O18.6	NO	0
4541	meth_SMOC1	meth	SMOC1	YES	12
4544	meth_MATN2	meth	MATN2	YES	15
4545	meth_PLD2	meth	PLD2	YES	22
4546	cnv_OR5J2	cnv	OR5J2	YES	12
4549	mrna_TMEM82	mrna	TMEM82	YES	2
4551	meth_PKP1	meth	PKP1	YES	26
4554	meth_CTD-2026K11.4	meth	CTD-2026K11.4	NO	0
4557	meth_LY86	meth	LY86	YES	10
4557	mrna_INTS5	mrna	INTS5	YES	10
4572	meth_PYCRL	meth	PYCRL	YES	6
4575	meth_PARP8	meth	PARP8	YES	4
4577	meth_PPP1R8	meth	PPP1R8	YES	27
4582	meth_ERG	meth	ERG	YES	25
4587	meth_ZNF197-AS1	meth	ZNF197-AS1	NO	0
4589	meth_ACHE	meth	ACHE	YES	58
4600	meth_RACGAP1	meth	RACGAP1	YES	50
4601	mrna_MMP24-AS1	mrna	MMP24-AS1	NO	0
4604	meth_SCRN2	meth	SCRN2	YES	7
4607	meth_RNF219-AS1	meth	RNF219-AS1	NO	0
4608	meth_FAM160B2	meth	FAM160B2	NO	0
4615	meth_SAYSD1	meth	SAYSD1	YES	5
4618	meth_CHRAC1	meth	CHRAC1	YES	11
4626	meth_RNF6	meth	RNF6	YES	24
4628	meth_HIST1H3G	meth	HIST1H3G	YES	32
4635	meth_C1QL1	meth	C1QL1	YES	14
4637	mrna_MKRN3	mrna	MKRN3	YES	6
4642	meth_ZNF134	meth	ZNF134	YES	7
4643	meth_BAZ1B	meth	BAZ1B	YES	33
4644	meth_HEXDC	meth	HEXDC	YES	10
4649	meth_MRPL3	meth	MRPL3	YES	11
4650	meth_WNT4	meth	WNT4	YES	87
4654	meth_STK32B	meth	STK32B	YES	12
4657	mrna_SLC22A15	mrna	SLC22A15	YES	8
4658	meth_RUVBL1	meth	RUVBL1	YES	50
4662	meth_LRTOMT	meth	LRTOMT	YES	17
4670	meth_FOXN4	meth	FOXN4	YES	20
4672	meth_ZIC2	meth	ZIC2	YES	19

4683	meth_HIST1H2BO	meth	HIST1H2BO	YES	9
4686	meth_ZNF322	meth	ZNF322	YES	10
4689	meth_PROS1	meth	PROS1	YES	24
4690	meth_NAT14	meth	NAT14	YES	11
4692	meth_FAM86C1	meth	FAM86C1	YES	5
4697	meth_UGCG	meth	UGCG	YES	14
4707	meth_MRPL52	meth	MRPL52	YES	10
4711	meth_LARP1B	meth	LARP1B	YES	5
4716	meth_ADAMTS2	meth	ADAMTS2	YES	16
4723	cnv_RN7SL377P	cnv	RN7SL377P	NO	0
4728	cnv_CHST1	cnv	CHST1	YES	15
4736	meth_CCDC121	meth	CCDC121	YES	1
4738	meth_PCCB	meth	PCCB	YES	16
4740	meth_MALT1	meth	MALT1	YES	42
4740	meth_SLIT3	meth	SLIT3	YES	20
4743	mrna_ZNF670	mrna	ZNF670	YES	8
4749	mrna_MPP7	mrna	MPP7	YES	17
4760	meth_MYO3A	meth	MYO3A	YES	29
4764	mrna_RP11-295K3.1	mrna	RP11-295K3.1	NO	0
4765	mrna_RP11-244M2.1	mrna	RP11-244M2.1	NO	0
4766	meth_LGALS3	meth	LGALS3	YES	43
4768	meth_SCO2	meth	SCO2	YES	14
4771	meth_FHOD3	meth	FHOD3	YES	14
4772	meth_NEO1	meth	NEO1	YES	15
4774	meth_CASZ1	meth	CASZ1	YES	12
4775	meth_PPARG	meth	PPARG	YES	116
4785	meth_THRAP3	meth	THRAP3	YES	35
4804	meth_GSTK1	meth	GSTK1	YES	18
4809	mirna_MIR2277	mirna	MIR2277	NO	0
4821	meth_SPATA2	meth	SPATA2	YES	8
4824	meth_DYRK1B	meth	DYRK1B	YES	17
4824	meth_MRFAP1	meth	MRFAP1	YES	5
4827	meth_SLC30A5	meth	SLC30A5	YES	24
4830	meth_CFAP70	meth	CFAP70	YES	5
4833	meth_FAM126B	meth	FAM126B	YES	6
4837	meth_KAT7	meth	KAT7	YES	32
4842	meth_HM13	meth	HM13	YES	23
4848	meth_LAMP1	meth	LAMP1	YES	46
4855	meth_HIVEP1	meth	HIVEP1	YES	19
4856	meth_EDN1	meth	EDN1	YES	116
4861	meth_ARSA	meth	ARSA	YES	33
4864	meth_TNK2	meth	TNK2	YES	44
4874	meth_PLCG1	meth	PLCG1	YES	44
4875	meth_PANK3	meth	PANK3	YES	8
4883	mrna_RP11-1100L3.8	mrna	RP11-1100L3.8	NO	0
4886	meth_MYLIP	meth	MYLIP	YES	23
4888	meth_SRP9	meth	SRP9	YES	14
4895	meth_QRICH1	meth	QRICH1	YES	13
4901	meth_ATP6V1E1	meth	ATP6V1E1	YES	24
4905	meth_PRRG4	meth	PRRG4	YES	6
4906	meth_CTD-2571L23.8	meth	CTD-2571L23.8	NO	0
4909	meth_PPP1R26	meth	PPP1R26	YES	6
4921	meth_ATP6V0D1	meth	ATP6V0D1	YES	36
4941	meth_ATMIN	meth	ATMIN	YES	14
4945	mrna_HSD11B1L	mrna	HSD11B1L	YES	5
4960	meth_MAX	meth	MAX	YES	39
4965	meth_DDX59	meth	DDX59	YES	15
4984	meth_GPT2	meth	GPT2	YES	12
4993	mrna_NRAP	mrna	NRAP	YES	10
4998	meth_ELMSAN1	meth	ELMSAN1	YES	12

5004	meth_DOHH	meth	DOHH	YES	9
5004	meth_ZMYND11	meth	ZMYND11	YES	28
5006	meth_LPCAT2	meth	LPCAT2	YES	23
5010	meth_C9orf117	meth	C9orf117	NO	0
5032	meth_UFM1	meth	UFM1	YES	10
5036	meth_AMPH	meth	AMPH	YES	16
5040	meth_ALYREF	meth	ALYREF	YES	23
5072	meth_TUBGCP5	meth	TUBGCP5	YES	20
5083	meth_MAU2	meth	MAU2	YES	13
5088	meth_ZNF444	meth	ZNF444	YES	9
5102	cnv_OR8K1	cnv	OR8K1	YES	12
5112	meth_YWHAG	meth	YWHAG	YES	28
5121	meth_CNIH3	meth	CNIH3	YES	19
5123	meth_PGD	meth	PGD	YES	11
5143	meth_CAMK2G	meth	CAMK2G	YES	43
5155	meth_SHMT1	meth	SHMT1	YES	36
5164	meth_CRTC1	meth	CRTC1	YES	24
5181	meth_C14orf2	meth	C14orf2	YES	8
5196	meth_MED23	meth	MED23	YES	9
5201	meth_RP11-533E19.7	meth	RP11-533E19.7	NO	0

APPENDIX H

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	meth_AKTIP	meth	AKTIP	YES	19
1	meth_BFAR	meth	BFAR	YES	20
2	meth_CCAR1	meth	CCAR1	YES	17
2	meth_NR2C1	meth	NR2C1	YES	22
3	cnv_NCK1	cnv	NCK1	YES	49
3	mrna_B4GALT4	mrna	B4GALT4	YES	16
4	cnv_ACOX2	cnv	ACOX2	YES	24
4	cnv_GHSR	cnv	GHSR	YES	60
5	meth_BLM	meth	BLM	YES	71
5	meth_SGK3	meth	SGK3	YES	29
6	cnv_ACTRT3	cnv	ACTRT3	YES	4
6	cnv_PLSCR1	cnv	PLSCR1	YES	35
7	meth_ITM2B	meth	ITM2B	YES	19
7	mrna_MAGI3	mrna	MAGI3	YES	20
8	meth_SDC1	meth	SDC1	YES	39
8	meth_TRMT61B	meth	TRMT61B	YES	14
9	meth_SIVA1	meth	SIVA1	YES	16
9	meth_TBRG1	meth	TBRG1	YES	8
10	cnv_MAP3K13	cnv	MAP3K13	YES	22
10	mrna_TBPL1	mrna	TBPL1	YES	17
11	meth_MARCH8	meth	MARCH8	YES	16
11	meth_TOMM7	meth	TOMM7	YES	18
12	cnv_BCHE	cnv	BCHE	YES	28
12	meth_PPIA	meth	PPIA	YES	36
13	cnv_DPPA4	cnv	DPPA4	YES	8
13	cnv_SLITRK3	cnv	SLITRK3	YES	5
14	cnv_GRM2	cnv	GRM2	YES	26
14	meth_TMEM115	meth	TMEM115	YES	18
15	cnv_PPP4R2	cnv	PPP4R2	YES	15
15	meth_MCM6	meth	MCM6	YES	19
16	meth_DCP1A	meth	DCP1A	YES	19
16	meth_MRPL38	meth	MRPL38	YES	7
17	cnv_ATP11B	cnv	ATP11B	YES	27
17	mrna_MRPS22	mrna	MRPS22	YES	10
18	cnv_SHQ1	cnv	SHQ1	YES	11
18	meth_PIGG	meth	PIGG	YES	14
19	meth_H3F3A	meth	H3F3A	YES	47
19	meth_PRKAR2A	meth	PRKAR2A	YES	31
20	meth_GSTK1	meth	GSTK1	YES	18
20	meth_JTB	meth	JTB	YES	19
21	meth_PSMC4	meth	PSMC4	YES	49
21	meth_TAF5	meth	TAF5	YES	22
22	cnv_NDUFB5	cnv	NDUFB5	YES	11
22	meth_CDC23	meth	CDC23	YES	22
23	meth_CPSF2	meth	CPSF2	YES	15
23	meth_RPLP1	meth	RPLP1	YES	21

24	meth_EIF4A1	meth	EIF4A1	YES	25
24	meth_NAB2	meth	NAB2	YES	16
25	cnv_P2RY13	cnv	P2RY13	YES	14
25	meth_CLTC	meth	CLTC	YES	61
26	meth_BBC3	meth	BBC3	YES	32
26	mirna_MIR139	mirna	MIR139	YES	2
27	cnv_PLD1	cnv	PLD1	YES	30
27	meth_PARP1	meth	PARP1	YES	87
28	meth_BCL6	meth	BCL6	YES	61
28	meth_RNF19B	meth	RNF19B	YES	17
29	cnv_MST1R	cnv	MST1R	YES	33
29	meth_STIL	meth	STIL	YES	24
30	meth_PRKCI	meth	PRKCI	YES	57
30	stv_RNF8	stv	RNF8	YES	41
31	cnv_CADPS	cnv	CADPS	YES	20
31	cnv_GYG1	cnv	GYG1	YES	16
32	cnv_ADPRH	cnv	ADPRH	YES	8
33	cnv_UQCRC1	cnv	UQCRC1	YES	23
33	meth_ATP5E	meth	ATP5E	YES	19
34	cnv_CHST2	cnv	CHST2	YES	15
34	meth_PDLIM7	meth	PDLIM7	YES	18
35	stv_DHX36	stv	DHX36	YES	38
35	stv_DTX3L	stv	DTX3L	YES	17
36	meth_E2F8	meth	E2F8	YES	29
36	mrna_DVL3	mrna	DVL3	YES	27
37	meth_USP5	meth	USP5	YES	18
37	mrna_CSTA	mrna	CSTA	YES	21
38	meth_EIF3M	meth	EIF3M	YES	10
38	meth_PSME1	meth	PSME1	YES	36
39	cnv_PRKCD	cnv	PRKCD	YES	91
39	meth_NSUN4	meth	NSUN4	YES	16
40	cnv_RASA2	cnv	RASA2	YES	14
40	meth_PTBP1	meth	PTBP1	YES	20
41	meth_DAGLB	meth	DAGLB	YES	14
41	meth_USP1	meth	USP1	YES	20
42	meth_COG1	meth	COG1	YES	11
42	meth_MYDGF	meth	MYDGF	YES	17
43	meth_CD63	meth	CD63	YES	38
43	meth_RABIF	meth	RABIF	YES	12
44	meth_NFIL3	meth	NFIL3	YES	17
44	meth_PSMA5	meth	PSMA5	YES	44
45	meth_CHMP4B	meth	CHMP4B	YES	46
45	meth_RBPJ	meth	RBPJ	YES	85
46	cnv_RAP2B	cnv	RAP2B	YES	26
46	stv_RAC1	stv	RAC1	YES	87
47	cnv_MUC4	cnv	MUC4	YES	17
47	meth_HRSP12	meth	HRSP12	YES	6

48	**cnv_POLR2H**	**cnv**	**POLR2H**	**YES**	**35**
48	**meth_TAF1B**	**meth**	**TAF1B**	**YES**	**22**
49	**cnv_SIAH2**	**cnv**	**SIAH2**	**YES**	**32**
49	**meth_SPTLC2**	**meth**	**SPTLC2**	**YES**	**21**
50	**meth_CREBL2**	**meth**	**CREBL2**	**YES**	**15**
50	**meth_MTIF2**	**meth**	**MTIF2**	**YES**	**15**
51	meth_FARSB	meth	FARSB	YES	16
51	meth_TBC1D4	meth	TBC1D4	YES	17
52	meth_SMAD6	meth	SMAD6	YES	49
52	meth_TRIM26	meth	TRIM26	YES	13
53	meth_GBF1	meth	GBF1	YES	44
54	meth_RNF125	meth	RNF125	YES	21
55	meth_NDUFB6	meth	NDUFB6	YES	13
55	mrna_P2RY1	mrna	P2RY1	YES	57
56	meth_JAG1	meth	JAG1	YES	58
56	mrna_POGLUT1	mrna	POGLUT1	YES	23
57	cnv_SERPINI2	cnv	SERPINI2	YES	10
57	meth_TP53	meth	TP53	YES	144
58	cnv_ABCC5	cnv	ABCC5	YES	18
58	cnv_XRN1	cnv	XRN1	YES	33
59	meth_BTAF1	meth	BTAF1	YES	12
59	meth_HMGB1	meth	HMGB1	YES	124
60	meth_TIMELESS	meth	TIMELESS	YES	28
60	stv_AP2B1	stv	AP2B1	YES	40
61	cnv_YEATS2	cnv	YEATS2	YES	9
61	meth_TSG101	meth	TSG101	YES	64
62	cnv_ARL6IP5	cnv	ARL6IP5	YES	17
62	cnv_HEG1	cnv	HEG1	YES	32
63	meth_LSM4	meth	LSM4	YES	24
63	meth_TINF2	meth	TINF2	YES	19
64	cnv_ATG3	cnv	ATG3	YES	22
64	cnv_DNAJC19	cnv	DNAJC19	YES	12
65	meth_IMPDH2	meth	IMPDH2	YES	27
66	meth_ZNF346	meth	ZNF346	YES	13
67	meth_BANF1	meth	BANF1	YES	22
67	meth_TAOK3	meth	TAOK3	YES	27
68	cnv_PTX3	cnv	PTX3	YES	21
68	meth_SLC30A1	meth	SLC30A1	YES	30
69	cnv_PLA1A	cnv	PLA1A	YES	12
69	meth_EIF2AK2	meth	EIF2AK2	YES	53
70	meth_TIPARP	meth	TIPARP	YES	24
70	mirna_MIR21	mirna	MIR21	YES	84
71	meth_ARF4	meth	ARF4	YES	29
71	meth_FKTN	meth	FKTN	YES	16
72	cnv_ZBTB38	cnv	ZBTB38	YES	17
72	meth_REST	meth	REST	YES	48
73	cnv_ALG1L	cnv	ALG1L	YES	6

73	meth_SYVN1	meth	SYVN1	YES	32
74	cnv_CACNA2D2	cnv	CACNA2D2	YES	20
74	meth_POP4	meth	POP4	YES	19
75	meth_RAP1B	meth	RAP1B	YES	33
75	mrna_ZNF639	mrna	ZNF639	YES	20
76	meth_RFC5	meth	RFC5	YES	24
76	mrna_PSMD2	mrna	PSMD2	YES	43
77	cnv_SPCS1	cnv	SPCS1	YES	16
77	meth_DCUN1D4	meth	DCUN1D4	YES	10
78	meth_MAPK14	meth	MAPK14	YES	92
79	meth_RNF41	meth	RNF41	YES	36
80	cnv_ARF4	cnv	ARF4	YES	29
80	meth_PAFAH1B3	meth	PAFAH1B3	YES	16
81	cnv_FBXO45	cnv	FBXO45	YES	21
82	cnv_ATR	cnv	ATR	YES	39
82	cnv_EIF2B5	cnv	EIF2B5	YES	28
83	cnv_TAGLN3	cnv	TAGLN3	YES	5
83	meth_GOT1	meth	GOT1	YES	35
84	meth_RAC1	meth	RAC1	YES	87
84	mrna_CISH	mrna	CISH	YES	18
85	meth_ITGB3BP	meth	ITGB3BP	YES	22
85	meth_SCAMP1	meth	SCAMP1	YES	18
86	meth_ATP6V1G2	meth	ATP6V1G2	YES	16
87	cnv_ECT2	cnv	ECT2	YES	45
87	cnv_HLTF	cnv	HLTF	YES	33
88	cnv_TNNC1	cnv	TNNC1	YES	22
88	meth_HMBS	meth	HMBS	YES	9
89	cnv_COL7A1	cnv	COL7A1	YES	24
89	cnv_SSR3	cnv	SSR3	YES	7
90	cnv_TREX1	cnv	TREX1	YES	28
90	meth_CCNE2	meth	CCNE2	YES	19
91	meth_PPFIA1	meth	PPFIA1	YES	14
91	meth_PRPSAP1	meth	PRPSAP1	YES	10
92	meth_IFT20	meth	IFT20	YES	46
92	mrna_DNAJC19	mrna	DNAJC19	YES	12
93	meth_EMC6	meth	EMC6	YES	9
94	cnv_GMPPB	cnv	GMPPB	YES	11
94	meth_ZFYVE1	meth	ZFYVE1	YES	19
95	cnv_SOX2	cnv	SOX2	YES	70
95	mrna_TBL1XR1	mrna	TBL1XR1	YES	32
96	meth_PHF20L1	meth	PHF20L1	YES	4
96	meth_TASP1	meth	TASP1	YES	5
97	cnv_ACY1	cnv	ACY1	YES	13
97	cnv_SI	cnv	SI	YES	18
98	meth_HACE1	meth	HACE1	YES	23
98	meth_STAT1	meth	STAT1	YES	68
99	meth_MRPL46	meth	MRPL46	YES	14

99	meth_RAP2A	meth	RAP2A	YES	27
100	cnv_PBRM1	cnv	PBRM1	YES	13
100	meth_IFT122	meth	IFT122	YES	37
101	meth_FOXP1	meth	FOXP1	YES	74
102	cnv_KIAA2018	cnv	KIAA2018	YES	6
102	meth_TMUB1	meth	TMUB1	YES	17
103	meth_GYS1	meth	GYS1	YES	16
103	meth_MMAB	meth	MMAB	YES	10
104	cnv_BAP1	cnv	BAP1	YES	29
105	cnv_MUC20	cnv	MUC20	YES	14
105	meth_ILK	meth	ILK	YES	81
106	cnv_SFMBT1	cnv	SFMBT1	YES	12
107	cnv_DUSP7	cnv	DUSP7	YES	27
107	cnv_ZNF148	cnv	ZNF148	YES	23
108	meth_CCNK	meth	CCNK	YES	25
109	cnv_FSTL1	cnv	FSTL1	YES	11
109	meth_RPN1	meth	RPN1	YES	17
110	cnv_PTPRG	cnv	PTPRG	YES	19
110	meth_LSM6	meth	LSM6	YES	22
111	cnv_CLRN1	cnv	CLRN1	YES	14
111	mrna_ESYT3	mrna	ESYT3	YES	15
112	meth_STAU1	meth	STAU1	YES	22
112	meth_TBPL1	meth	TBPL1	YES	17
113	meth_ARL3	meth	ARL3	YES	36
113	meth_CNDP2	meth	CNDP2	YES	16
114	meth_OXSR1	meth	OXSR1	YES	29
114	meth_PLGRKT	meth	PLGRKT	YES	9
115	mrna_EIF4A2	mrna	EIF4A2	YES	22
116	cnv_CNBP	cnv	CNBP	YES	22
116	meth_EZH1	meth	EZH1	YES	15
117	meth_DEPTOR	meth	DEPTOR	YES	8
117	meth_FKBP14	meth	FKBP14	YES	11
118	cnv_DOCK3	cnv	DOCK3	YES	7
118	cnv_PDCD10	cnv	PDCD10	YES	33
119	cnv_NEK4	cnv	NEK4	YES	26
119	meth_INPP5F	meth	INPP5F	YES	36
120	cnv_APPL1	cnv	APPL1	YES	21
120	cnv_SHOX2	cnv	SHOX2	YES	29
121	cnv_POLQ	cnv	POLQ	YES	28
121	meth_DSCC1	meth	DSCC1	YES	16
122	meth_NCOA3	meth	NCOA3	YES	34
123	meth_FARSA	meth	FARSA	YES	17
123	meth_TERF1	meth	TERF1	YES	44
124	cnv_GSK3B	cnv	GSK3B	YES	98
124	meth_VCL	meth	VCL	YES	53
125	cnv_RNF168	cnv	RNF168	YES	32
125	meth_WASF2	meth	WASF2	YES	32

126	cnv_SELT	cnv	SELT	NO	0
126	mrna_COL7A1	mrna	COL7A1	YES	24
127	cnv_ARHGAP31	cnv	ARHGAP31	YES	11
128	meth_DNPH1	meth	DNPH1	YES	18
128	meth_SPAG9	meth	SPAG9	YES	26
129	meth_PPP1R8	meth	PPP1R8	YES	27
129	stv_RIPK2	stv	RIPK2	YES	82
130	meth_CENPF	meth	CENPF	YES	49
130	meth_SWAP70	meth	SWAP70	YES	23
131	meth_EED	meth	EED	YES	26
131	meth_USP30	meth	USP30	YES	17
132	meth_CLK1	meth	CLK1	YES	20
133	cnv_GPX1	cnv	GPX1	YES	70
133	cnv_PPP1R2	cnv	PPP1R2	YES	12
134	meth_CENPJ	meth	CENPJ	YES	24
134	meth_POP5	meth	POP5	YES	16
135	cnv_PIK3R4	cnv	PIK3R4	YES	36
135	meth_DDIT3	meth	DDIT3	YES	67
136	cnv_RHOA	cnv	RHOA	YES	78
136	stv_HYAL2	stv	HYAL2	YES	67
137	meth_ALAD	meth	ALAD	YES	58
137	meth_GSTZ1	meth	GSTZ1	YES	19
138	meth_MYO9A	meth	MYO9A	YES	18
138	meth_PEMT	meth	PEMT	YES	34
139	cnv_RBM5	cnv	RBM5	YES	20
139	cnv_UMPS	cnv	UMPS	YES	20
140	cnv_ACAD9	cnv	ACAD9	YES	12
141	meth_CKAP2	meth	CKAP2	YES	14
141	meth_MCM8	meth	MCM8	YES	19
142	cnv_DNASE1L3	cnv	DNASE1L3	YES	17
142	stv_KIAA0226	stv	KIAA0226	YES	9
143	meth_KCTD16	meth	KCTD16	YES	9
143	meth_POU2F1	meth	POU2F1	YES	17
144	meth_RCC2	meth	RCC2	YES	38
144	mrna_GFM1	mrna	GFM1	YES	12
145	cnv_GNAI2	cnv	GNAI2	YES	43
145	mrna_CIT	mrna	CIT	YES	36
146	meth_ABHD5	meth	ABHD5	YES	19
146	mrna_PHLDB2	mrna	PHLDB2	YES	20
147	meth_LASP1	meth	LASP1	YES	17
147	mrna_MGME1	mrna	MGME1	YES	12
148	cnv_SERP1	cnv	SERP1	YES	25
148	meth_SMPD1	meth	SMPD1	YES	30
150	meth_JUN	meth	JUN	YES	102
150	meth_ZBTB21	meth	ZBTB21	YES	9
151	cnv_RNF13	cnv	RNF13	YES	22
151	meth_RIC8A	meth	RIC8A	YES	18

152	meth_NRD1	meth	NRD1	YES	14
152	meth_TCHP	meth	TCHP	YES	18
153	meth_FEM1B	meth	FEM1B	YES	16
153	mrna_RAP2B	mrna	RAP2B	YES	26
154	cnv_PLXND1	cnv	PLXND1	YES	27
154	stv_TACO1	stv	TACO1	YES	4
155	cnv_HES1	cnv	HES1	YES	103
155	meth_COPB1	meth	COPB1	YES	30
156	cnv_CEP63	cnv	CEP63	YES	19
156	mirna_MIR520B	mirna	MIR520B	NO	0
157	meth_IDE	meth	IDE	YES	52
157	mrna_PDCD10	mrna	PDCD10	YES	33
158	meth_ATP2A2	meth	ATP2A2	YES	55
158	meth_EDEM2	meth	EDEM2	YES	16
159	meth_LSM10	meth	LSM10	YES	15
159	meth_POLR3B	meth	POLR3B	YES	19
160	meth_KAT7	meth	KAT7	YES	32
160	meth_TNFRSF21	meth	TNFRSF21	YES	34
161	meth_RBX1	meth	RBX1	YES	55
162	meth_FAS	meth	FAS	YES	76
162	mrna_FXR1	mrna	FXR1	YES	27
163	meth_GALNT18	meth	GALNT18	YES	10
163	meth_HINT1	meth	HINT1	YES	18
164	meth_MEF2D	meth	MEF2D	YES	32
165	cnv_STXBP5L	cnv	STXBP5L	YES	17
165	stv_PAK2	stv	PAK2	YES	52
166	stv_CCNYL1	stv	CCNYL1	YES	9
167	meth_NEO1	meth	NEO1	YES	15
167	mrna_TMF1	mrna	TMF1	YES	27
168	cnv_TBL1XR1	cnv	TBL1XR1	YES	32
168	meth_RAB5B	meth	RAB5B	YES	25
169	meth_ATMIN	meth	ATMIN	YES	14
169	meth_RBL1	meth	RBL1	YES	18
170	cnv_DTX3L	cnv	DTX3L	YES	17
170	meth_HOOK3	meth	HOOK3	YES	29
171	cnv_ATP2C1	cnv	ATP2C1	YES	27
171	meth_POM121	meth	POM121	YES	29
172	cnv_SPICE1	cnv	SPICE1	YES	11
173	meth_HSPA8	meth	HSPA8	YES	77
173	meth_IFT81	meth	IFT81	YES	15
174	cnv_ACPP	cnv	ACPP	YES	31
174	cnv_MITF	cnv	MITF	YES	26
175	meth_RNF8	meth	RNF8	YES	41
176	cnv_ACTL6A	cnv	ACTL6A	YES	35
177	cnv_PCCB	cnv	PCCB	YES	16
177	meth_EIF2A	meth	EIF2A	YES	19
178	mrna_NCBP2	mrna	NCBP2	YES	40

179	meth_OSBPL8	meth	OSBPL8	YES	24
179	meth_SRD5A3	meth	SRD5A3	YES	19
180	cnv_PHF7	cnv	PHF7	YES	8
181	meth_LIG3	meth	LIG3	YES	27
182	cnv_APEH	cnv	APEH	YES	17
182	stv_MAP3K3	stv	MAP3K3	YES	25
183	meth_MALT1	meth	MALT1	YES	42
183	meth_MELK	meth	MELK	YES	30
184	cnv_GNL3	cnv	GNL3	YES	21
184	meth_MRPL44	meth	MRPL44	YES	20
185	meth_AURKA	meth	AURKA	YES	76
185	meth_CD46	meth	CD46	YES	42
186	cnv_OPA1	cnv	OPA1	YES	49
186	meth_ITPA	meth	ITPA	YES	17
187	cnv_BCL6	cnv	BCL6	YES	61
187	meth_CHD6	meth	CHD6	YES	15
188	cnv_FXR1	cnv	FXR1	YES	27
189	meth_APAF1	meth	APAF1	YES	42
189	meth_PSMD12	meth	PSMD12	YES	38
190	cnv_GBE1	cnv	GBE1	YES	14
191	cnv_LXN	cnv	LXN	YES	11
191	mrna_ATP2C1	mrna	ATP2C1	YES	27
192	meth_SYS1	meth	SYS1	YES	13
193	cnv_NLGN1	cnv	NLGN1	YES	77
193	meth_PPP2R5D	meth	PPP2R5D	YES	30
194	meth_ERCC1	meth	ERCC1	YES	63
195	cnv_DCP1A	cnv	DCP1A	YES	19
195	mirna_MIR224	mirna	MIR224	YES	3
196	cnv_CCNL1	cnv	CCNL1	YES	14
196	meth_MRPS18A	meth	MRPS18A	YES	12
197	cnv_GFM1	cnv	GFM1	YES	12
199	meth_RRS1	meth	RRS1	YES	18
199	mrna_EIF5A2	mrna	EIF5A2	YES	24
200	cnv_ATP13A5	cnv	ATP13A5	YES	17
200	mrna_RSRC1	mrna	RSRC1	YES	11
201	cnv_ATXN7	cnv	ATXN7	YES	21
201	meth_ETV4	meth	ETV4	YES	15
202	meth_UIMC1	meth	UIMC1	YES	20
203	cnv_PSMD2	cnv	PSMD2	YES	43
203	meth_PPP3CC	meth	PPP3CC	YES	11
204	cnv_ZBTB20	cnv	ZBTB20	YES	13
204	meth_SEC24D	meth	SEC24D	YES	24
205	meth_ALG2	meth	ALG2	YES	21
206	meth_HSPA9	meth	HSPA9	YES	20
207	cnv_MECOM	cnv	MECOM	YES	31
207	meth_GNB2	meth	GNB2	YES	24
208	mrna_WNT5A	mrna	WNT5A	YES	192

208	mrna_PAK2	mrna	PAK2	YES	52
209	cnv_USP13	cnv	USP13	YES	32
210	meth_CCT2	meth	CCT2	YES	30
210	meth_DNM2	meth	DNM2	YES	90
211	cnv_ETV5	cnv	ETV5	YES	24
212	cnv_RAB43	cnv	RAB43	YES	17
212	meth_OPTN	meth	OPTN	YES	41
213	meth_EARS2	meth	EARS2	YES	18
213	mrna_CACNA2D2	mrna	CACNA2D2	YES	20
215	meth_SNX18	meth	SNX18	YES	24
216	mrna_ABCC5	mrna	ABCC5	YES	18
217	cnv_GTF2E1	cnv	GTF2E1	YES	15
217	meth_SERTAD3	meth	SERTAD3	YES	7
218	cnv_PLS1	cnv	PLS1	YES	19
218	meth_PCGF5	meth	PCGF5	YES	9
219	cnv_STAG1	cnv	STAG1	YES	19
219	meth_CHMP6	meth	CHMP6	YES	25
220	meth_PPP1R15A	meth	PPP1R15A	YES	39
221	cnv_ITIH1	cnv	ITIH1	YES	9
221	stv_PPP4R1	stv	PPP4R1	YES	8
222	cnv_HYAL1	cnv	HYAL1	YES	41
222	meth_MAGI3	meth	MAGI3	YES	20
223	mrna_MAP6D1	mrna	MAP6D1	YES	13
223	stv_ALAS1	stv	ALAS1	YES	19
224	meth_LYPLA1	meth	LYPLA1	YES	16
224	meth_SOS1	meth	SOS1	YES	47
225	meth_CASC5	meth	CASC5	YES	15
226	meth_ADRM1	meth	ADRM1	YES	19
226	meth_CHPF	meth	CHPF	YES	16
227	meth_TPX2	meth	TPX2	YES	26
227	meth_VPS13A	meth	VPS13A	YES	12
228	cnv_GMNC	cnv	GMNC	YES	7
228	cnv_TLR9	cnv	TLR9	YES	68
229	cnv_EEFSEC	cnv	EEFSEC	YES	14
229	meth_MAD2L1	meth	MAD2L1	YES	32
230	meth_VPS54	meth	VPS54	YES	18
231	meth_KAT6A	meth	KAT6A	YES	33
232	cnv_IGF2BP2	cnv	IGF2BP2	YES	18
233	cnv_PRKCI	cnv	PRKCI	YES	57
233	meth_RBL2	meth	RBL2	YES	18
234	meth_SGMS1	meth	SGMS1	YES	26
234	mrna_IGF2BP2	mrna	IGF2BP2	YES	18
235	cnv_EIF4A2	cnv	EIF4A2	YES	22
236	cnv_IQCB1	cnv	IQCB1	YES	17
236	meth_SUCLA2	meth	SUCLA2	YES	17
237	cnv_MRPS22	cnv	MRPS22	YES	10
237	mrna_SEMA3F	mrna	SEMA3F	YES	20

238	meth_PCBP2	meth	PCBP2	YES	25
238	mrna_FHOD1	mrna	FHOD1	YES	19
239	cnv_ATP6V1A	cnv	ATP6V1A	YES	27
240	meth_ATP6V1D	meth	ATP6V1D	YES	24
241	cnv_GUCA1C	cnv	GUCA1C	YES	9
241	cnv_ITGB5	cnv	ITGB5	YES	25
242	meth_NDUFAB1	meth	NDUFAB1	YES	25
242	meth_SRPK1	meth	SRPK1	YES	31
243	cnv_MFI2	cnv	MFI2	YES	8
245	cnv_TRIM42	cnv	TRIM42	YES	4
246	meth_MYCBP2	meth	MYCBP2	YES	16
247	cnv_EIF4E3	cnv	EIF4E3	YES	8
247	meth_MAP3K10	meth	MAP3K10	YES	34
248	meth_PHF12	meth	PHF12	YES	16
248	meth_WBP4	meth	WBP4	YES	13
249	cnv_TIPARP	cnv	TIPARP	YES	24
249	meth_RAE1	meth	RAE1	YES	31
250	cnv_EPHB1	cnv	EPHB1	YES	58
250	stv_ALG2	stv	ALG2	YES	21
251	meth_FRS3	meth	FRS3	YES	12
251	stv_IFT80	stv	IFT80	YES	13
252	mrna_ARL6IP5	mrna	ARL6IP5	YES	17
252	stv_MAGI3	stv	MAGI3	YES	20
253	cnv_SEC62	cnv	SEC62	YES	16
254	cnv_SLC33A1	cnv	SLC33A1	YES	14
254	meth_SMARCA5	meth	SMARCA5	YES	34
255	cnv_SLC7A14	cnv	SLC7A14	YES	9
256	cnv_MAP6D1	cnv	MAP6D1	YES	13
256	meth_RAD52	meth	RAD52	YES	19
257	cnv_PHLDB2	cnv	PHLDB2	YES	20
257	stv_ZNF706	stv	ZNF706	YES	6
259	cnv_ROBO2	cnv	ROBO2	YES	31
259	meth_GMFB	meth	GMFB	YES	15
260	cnv_THPO	cnv	THPO	YES	14
260	meth_HERC4	meth	HERC4	YES	9
261	cnv_HRG	cnv	HRG	YES	49
261	meth_PSME4	meth	PSME4	YES	43
262	cnv_DNAJB8	cnv	DNAJB8	YES	7
262	cnv_H1FOO	cnv	H1FOO	YES	13
263	meth_ECD	meth	ECD	YES	17
264	cnv_KNG1	cnv	KNG1	YES	29
266	cnv_ARHGEF3	cnv	ARHGEF3	YES	12
266	meth_CORO1B	meth	CORO1B	YES	31
267	cnv_MASP1	cnv	MASP1	YES	19
267	meth_TMED7	meth	TMED7	YES	19
268	cnv_DHX36	cnv	DHX36	YES	38
268	cnv_HYAL2	cnv	HYAL2	YES	67

269	meth_POLR1B	meth	POLR1B	YES	21
270	meth_ARHGAP21	meth	ARHGAP21	YES	20
270	meth_ATP6V0A1	meth	ATP6V0A1	YES	38
271	cnv_B3GALNT1	cnv	B3GALNT1	YES	12
272	cnv_IL1RAP	cnv	IL1RAP	YES	26
272	meth_ATP5O	meth	ATP5O	YES	22
273	cnv_MAGI1	cnv	MAGI1	YES	20
273	meth_COX7A2L	meth	COX7A2L	YES	10
274	cnv_EOGT	cnv	EOGT	YES	9
274	cnv_TFRC	cnv	TFRC	YES	45
275	cnv_GNB4	cnv	GNB4	YES	10
276	cnv_GCSAM	cnv	GCSAM	YES	10
276	meth_CSNK2A1	meth	CSNK2A1	YES	48
278	cnv_ADIPOQ	cnv	ADIPOQ	YES	92
278	meth_MRPL23	meth	MRPL23	YES	14
279	meth_PUM1	meth	PUM1	YES	24
279	mrna_POLR2H	mrna	POLR2H	YES	35
280	cnv_SNX4	cnv	SNX4	YES	22
281	meth_CIT	meth	CIT	YES	36
281	meth_CTSC	meth	CTSC	YES	39
282	cnv_NDUFB4	cnv	NDUFB4	YES	13
284	cnv_COPB2	cnv	COPB2	YES	21
284	cnv_DAG1	cnv	DAG1	YES	84
285	cnv_MRPL47	cnv	MRPL47	YES	14
286	mrna_ACOX2	mrna	ACOX2	YES	24
287	cnv_DZIP3	cnv	DZIP3	YES	20
287	meth_USP10	meth	USP10	YES	28
288	cnv_PLXNB1	cnv	PLXNB1	YES	30
288	cnv_TRAT1	cnv	TRAT1	YES	22
289	cnv_PIGZ	cnv	PIGZ	YES	10
289	meth_RAB1A	meth	RAB1A	YES	40
290	cnv_RPL39L	cnv	RPL39L	YES	9
290	meth_CAPN15	meth	CAPN15	YES	10
291	meth_MRPS5	meth	MRPS5	YES	10
291	meth_UGGT1	meth	UGGT1	YES	18
292	cnv_CLSTN2	cnv	CLSTN2	YES	15
292	meth_PAPD4	meth	PAPD4	YES	18
293	meth_RBBP6	meth	RBBP6	YES	29
294	meth_UBE2N	meth	UBE2N	YES	46
294	mirna_MIR1296	mirna	MIR1296	YES	1
296	meth_BCL2L12	meth	BCL2L12	YES	9
296	meth_ITCH	meth	ITCH	YES	45
297	meth_PLK1	meth	PLK1	YES	79
298	cnv_TF	cnv	TF	YES	45
298	mrna_FBXO45	mrna	FBXO45	YES	21
299	meth_ALDH6A1	meth	ALDH6A1	YES	17
299	meth_POLDIP2	meth	POLDIP2	YES	8

300	meth_ENC1	meth	ENC1	YES	17
300	meth_NUP107	meth	NUP107	YES	37
301	meth_ARHGEF17	meth	ARHGEF17	YES	14
301	mrna_RFC4	mrna	RFC4	YES	25
303	cnv_CISH	cnv	CISH	YES	18
303	meth_KLF5	meth	KLF5	YES	30
304	meth_KPNB1	meth	KPNB1	YES	46
305	meth_S1PR2	meth	S1PR2	YES	20
307	cnv_FBXO40	cnv	FBXO40	YES	10
307	mrna_PIGX	mrna	PIGX	YES	7
308	meth_CDKN1A	meth	CDKN1A	YES	78
309	meth_FOXO3	meth	FOXO3	YES	58
309	meth_TBCE	meth	TBCE	YES	18
310	meth_ABI1	meth	ABI1	YES	39
310	meth_SLC27A4	meth	SLC27A4	YES	27
311	mrna_POLQ	mrna	POLQ	YES	28
312	meth_HUS1	meth	HUS1	YES	25
313	cnv_RUVBL1	cnv	RUVBL1	YES	50
316	meth_ATP5H	meth	ATP5H	YES	22
317	meth_ARFGAP1	meth	ARFGAP1	YES	20
317	mrna_PGM2	mrna	PGM2	YES	22
318	cnv_ATP13A3	cnv	ATP13A3	YES	14
318	mrna_CD63	mrna	CD63	YES	38
319	cnv_DRD3	cnv	DRD3	YES	66
320	meth_AVPI1	meth	AVPI1	YES	3
321	meth_KLC2	meth	KLC2	YES	15
321	meth_ZFAND6	meth	ZFAND6	YES	15
323	meth_SLC44A1	meth	SLC44A1	YES	13
323	mrna_RNF7	mrna	RNF7	YES	25
324	cnv_GNAT1	cnv	GNAT1	YES	44
324	cnv_TUSC2	cnv	TUSC2	YES	18
325	meth_OTUD7B	meth	OTUD7B	YES	28
326	meth_PCCB	meth	PCCB	YES	16
327	mrna_C3orf58	mrna	C3orf58	YES	9
327	stv_CKAP2	stv	CKAP2	YES	14
328	cnv_SLC15A2	cnv	SLC15A2	YES	19
329	meth_PPP2R2A	meth	PPP2R2A	YES	18
330	meth_KAT8	meth	KAT8	YES	31
330	meth_PSMD8	meth	PSMD8	YES	36
331	cnv_PSMD6	cnv	PSMD6	YES	39
332	cnv_RFC4	cnv	RFC4	YES	25
332	stv_SCCPDH	stv	SCCPDH	YES	10
333	cnv_OSTN	cnv	OSTN	YES	12
333	meth_FBXW8	meth	FBXW8	YES	17
334	meth_FXN	meth	FXN	YES	42
335	cnv_KIAA0226	cnv	KIAA0226	YES	9
335	cnv_MCM2	cnv	MCM2	YES	30

336	meth_FUS	meth	FUS	YES	25
336	meth_NUP153	meth	NUP153	YES	37
337	meth_MDC1	meth	MDC1	YES	13
337	meth_SCCPDH	meth	SCCPDH	YES	10
338	cnv_MCF2L2	cnv	MCF2L2	YES	4
338	meth_RAB7A	meth	RAB7A	YES	61
339	meth_TNRC6A	meth	TNRC6A	YES	20
340	mrna_TP63	mrna	TP63	YES	103
340	mrna_PARL	mrna	PARL	YES	18
341	cnv_PFKFB4	cnv	PFKFB4	YES	16
341	meth_LSM14A	meth	LSM14A	YES	15
342	meth_ACAD9	meth	ACAD9	YES	12
342	meth_NFATC2IP	meth	NFATC2IP	YES	6
343	cnv_PPM1L	cnv	PPM1L	YES	14
344	meth_GPSM2	meth	GPSM2	YES	32
344	meth_NOD1	meth	NOD1	YES	52
345	cnv_CACNA1D	cnv	CACNA1D	YES	35
346	meth_NAGLU	meth	NAGLU	YES	15
346	meth_UBXN4	meth	UBXN4	YES	9
347	cnv_ZDHHC19	cnv	ZDHHC19	YES	6
348	cnv_MBNL1	cnv	MBNL1	YES	18
349	meth_HSF2	meth	HSF2	YES	19
349	mrna_PLD1	mrna	PLD1	YES	30
350	cnv_TFDP2	cnv	TFDP2	YES	27
350	meth_BMPR2	meth	BMPR2	YES	86
351	cnv_NCKIPSD	cnv	NCKIPSD	YES	12
351	mrna_TTL	mrna	TTL	YES	7
352	meth_ADH5	meth	ADH5	YES	23
352	meth_BAG3	meth	BAG3	YES	27
353	meth_GMPPA	meth	GMPPA	YES	8
354	meth_AFTPH	meth	AFTPH	YES	10
354	meth_MAFF	meth	MAFF	YES	16
355	meth_SETDB1	meth	SETDB1	YES	24
356	cnv_A4GNT	cnv	A4GNT	YES	13
356	stv_PHC3	stv	PHC3	YES	9
357	cnv_ABHD6	cnv	ABHD6	YES	16
358	meth_B4GALT5	meth	B4GALT5	YES	15
360	mrna_DCUN1D1	mrna	DCUN1D1	YES	11
361	cnv_BTLA	cnv	BTLA	YES	11
361	meth_SUCLG1	meth	SUCLG1	YES	21
362	meth_TFAM	meth	TFAM	YES	27
362	mirna_MIR340	mirna	MIR340	YES	1
363	cnv_RAB6B	cnv	RAB6B	YES	17
364	cnv_NCBP2	cnv	NCBP2	YES	40
365	mirna_MIR143	mirna	MIR143	YES	16
367	cnv_TRPC1	cnv	TRPC1	YES	25
367	meth_ATP6V0D1	meth	ATP6V0D1	YES	36

368	meth_ORC6	meth	ORC6	YES	13
369	stv_SHISA5	stv	SHISA5	YES	17
370	meth_LRRC59	meth	LRRC59	YES	11
370	meth_MBD2	meth	MBD2	YES	42
371	cnv_PARL	cnv	PARL	YES	18
372	cnv_ALG3	cnv	ALG3	YES	13
372	cnv_RPL35A	cnv	RPL35A	YES	21
373	cnv_FEZF2	cnv	FEZF2	YES	18
373	cnv_TWF2	cnv	TWF2	YES	30
374	cnv_C3orf58	cnv	C3orf58	YES	9
375	cnv_PHC3	cnv	PHC3	YES	9
376	cnv_TKT	cnv	TKT	YES	21
376	mrna_ECE2	mrna	ECE2	YES	23
377	stv_ABHD5	stv	ABHD5	YES	19
378	mirna_MIR203A	mirna	MIR203A	NO	0
379	cnv_UBA7	cnv	UBA7	YES	19
380	meth_CISD2	meth	CISD2	YES	18
381	meth_CBY1	meth	CBY1	YES	25
381	meth_TRIM62	meth	TRIM62	YES	17
382	meth_B2M	meth	B2M	YES	58
382	mirna_MIR210	mirna	MIR210	YES	3
385	stv_PARP9	stv	PARP9	YES	17
386	cnv_COPG1	cnv	COPG1	YES	21
386	meth_NCOA5	meth	NCOA5	YES	10
387	cnv_RPN1	cnv	RPN1	YES	17
387	cnv_TMF1	cnv	TMF1	YES	27
388	meth_TMEM8A	meth	TMEM8A	YES	10
388	stv_ITIH3	stv	ITIH3	YES	10
389	cnv_TRAIP	cnv	TRAIP	YES	16
390	meth_DHPS	meth	DHPS	YES	14
390	mrna_CACNA2D3	mrna	CACNA2D3	YES	12
391	meth_KDM3A	meth	KDM3A	YES	35
393	meth_RERE	meth	RERE	YES	25
393	mrna_PIK3CA	mrna	PIK3CA	YES	67
394	mrna_SENP5	mrna	SENP5	YES	15
395	meth_BMF	meth	BMF	YES	17
396	cnv_TMEM115	cnv	TMEM115	YES	18
396	meth_NDOR1	meth	NDOR1	YES	17
397	meth_P4HB	meth	P4HB	YES	38
398	meth_CCT4	meth	CCT4	YES	31
398	stv_TP53	stv	TP53	YES	144
399	meth_CCNYL1	meth	CCNYL1	YES	9
401	meth_NDEL1	meth	NDEL1	YES	61
403	stv_FBXO45	stv	FBXO45	YES	21
404	cnv_KPNA1	cnv	KPNA1	YES	22
404	meth_BBS12	meth	BBS12	YES	14
406	meth_KLF10	meth	KLF10	YES	28

408	stv_SNX18	stv	SNX18	YES	24
409	cnv_UBA5	cnv	UBA5	YES	14
410	meth_ANAPC1	meth	ANAPC1	YES	14
410	mrna_SIAH2	mrna	SIAH2	YES	32
411	cnv_RAD54L2	cnv	RAD54L2	YES	8
411	meth_ERLIN2	meth	ERLIN2	YES	22
412	cnv_APOD	cnv	APOD	YES	36
413	meth_STAT2	meth	STAT2	YES	21
413	meth_TAF12	meth	TAF12	YES	25
415	cnv_TPRA1	cnv	TPRA1	YES	8
415	mrna_CD46	mrna	CD46	YES	42
417	meth_FADD	meth	FADD	YES	70
417	meth_HIVEP1	meth	HIVEP1	YES	19
418	mrna_SENP2	mrna	SENP2	YES	29
419	cnv_EIF2A	cnv	EIF2A	YES	19
420	meth_CLIP1	meth	CLIP1	YES	32
420	meth_REV1	meth	REV1	YES	16
421	meth_PSMB3	meth	PSMB3	YES	40
421	meth_RANGRF	meth	RANGRF	YES	29
424	meth_DCAF6	meth	DCAF6	YES	10
426	meth_LSM3	meth	LSM3	YES	19
426	meth_VASP	meth	VASP	YES	27
427	meth_CTDSP1	meth	CTDSP1	YES	16
428	cnv_FETUB	cnv	FETUB	YES	13
428	meth_ABI2	meth	ABI2	YES	26
429	cnv_CD86	cnv	CD86	YES	48
429	mrna_RAE1	mrna	RAE1	YES	31
430	cnv_PIK3CA	cnv	PIK3CA	YES	67
431	meth_MRPL50	meth	MRPL50	YES	7
432	cnv_BOC	cnv	BOC	YES	14
432	cnv_PEX5L	cnv	PEX5L	YES	13
433	cnv_UBA3	cnv	UBA3	YES	24
434	meth_MGST3	meth	MGST3	YES	19
436	meth_EIF4G2	meth	EIF4G2	YES	23
438	cnv_LMOD3	cnv	LMOD3	YES	16
438	meth_SPICE1	meth	SPICE1	YES	11
440	cnv_ITIH3	cnv	ITIH3	YES	10
441	cnv_RFT1	cnv	RFT1	YES	8
442	mrna_B3GNT5	mrna	B3GNT5	YES	17
443	meth_ACTR2	meth	ACTR2	YES	45
443	meth_SUPV3L1	meth	SUPV3L1	YES	31
444	cnv_AMIGO3	cnv	AMIGO3	YES	5
445	cnv_IFT122	cnv	IFT122	YES	37
446	cnv_ZNF639	cnv	ZNF639	YES	20
446	stv_DPPA2	stv	DPPA2	YES	9
447	cnv_WNT5A	cnv	WNT5A	YES	192
447	meth_NAPEPLD	meth	NAPEPLD	YES	19

448	meth_PLK4	meth	PLK4	YES	27
449	meth_ZNF706	meth	ZNF706	YES	6
449	stv_KIAA2018	stv	KIAA2018	YES	6
450	mirna_MIR375	mirna	MIR375	YES	2
450	stv_SGK3	stv	SGK3	YES	29
451	meth_PPA1	meth	PPA1	YES	11
452	cnv_B3GNT5	cnv	B3GNT5	YES	17
452	meth_RAB33B	meth	RAB33B	YES	20
456	stv_PIK3CA	stv	PIK3CA	YES	67
457	cnv_AP2M1	cnv	AP2M1	YES	37
458	cnv_ZDHHC23	cnv	ZDHHC23	YES	7
458	mrna_DNAJB11	mrna	DNAJB11	YES	12
459	cnv_ZIC1	cnv	ZIC1	YES	26
460	cnv_GAP43	cnv	GAP43	YES	29
460	meth_CENPN	meth	CENPN	YES	12
461	cnv_SEMA3F	cnv	SEMA3F	YES	20
461	meth_SAP130	meth	SAP130	YES	7
462	cnv_ESYT3	cnv	ESYT3	YES	15
462	meth_LMAN1	meth	LMAN1	YES	29
463	mirna_MIR31	mirna	MIR31	YES	6
463	mrna_ACTL6A	mrna	ACTL6A	YES	35
464	cnv_NPHP3	cnv	NPHP3	YES	27
464	stv_A4GNT	stv	A4GNT	YES	13
465	cnv_CP	cnv	CP	YES	19
466	meth_SBDS	meth	SBDS	YES	22
467	stv_TNIK	stv	TNIK	YES	33
468	cnv_RPP14	cnv	RPP14	YES	12
468	cnv_TRH	cnv	TRH	YES	24
469	meth_AP2B1	meth	AP2B1	YES	40
469	stv_ESYT3	stv	ESYT3	YES	15
470	meth_KIF16B	meth	KIF16B	YES	32
470	meth_LIMA1	meth	LIMA1	YES	17
472	cnv_DNAJB11	cnv	DNAJB11	YES	12
473	meth_MTCH1	meth	MTCH1	YES	12
474	cnv_IFT80	cnv	IFT80	YES	13
474	mrna_ATP11B	mrna	ATP11B	YES	27
476	cnv_AHSG	cnv	AHSG	YES	28
477	mrna_RNF168	mrna	RNF168	YES	32
478	cnv_CD80	cnv	CD80	YES	30
478	meth_RPL6	meth	RPL6	YES	22
479	cnv_MCCC1	cnv	MCCC1	YES	21
482	cnv_PARP9	cnv	PARP9	YES	17
483	meth_GCH1	meth	GCH1	YES	47
484	cnv_ATP13A4	cnv	ATP13A4	YES	17
484	stv_ARHGEF26	stv	ARHGEF26	YES	11
485	cnv_HCLS1	cnv	HCLS1	YES	33
485	cnv_MYLK	cnv	MYLK	YES	30

486	meth_AIDA	meth	AIDA	YES	12
486	meth_TACO1	meth	TACO1	YES	4
487	meth_MKNK1	meth	MKNK1	YES	21
487	mrna_DHX36	mrna	DHX36	YES	38
488	meth_SIRT5	meth	SIRT5	YES	29
489	cnv_DPPA2	cnv	DPPA2	YES	9
489	mrna_TFRC	mrna	TFRC	YES	45
490	meth_SLC7A6	meth	SLC7A6	YES	17
491	meth_EFNA1	meth	EFNA1	YES	40
492	cnv_C3orf33	cnv	C3orf33	YES	6
493	cnv_SRPRB	cnv	SRPRB	YES	15
493	meth_CBLB	meth	CBLB	YES	25
494	cnv_ARHGEF26	cnv	ARHGEF26	YES	11
495	meth_B3GALNT2	meth	B3GALNT2	YES	13
495	meth_CHCHD3	meth	CHCHD3	YES	18
496	cnv_RASSF1	cnv	RASSF1	YES	19
497	cnv_SENP2	cnv	SENP2	YES	29
497	meth_PGM2	meth	PGM2	YES	22
498	cnv_DLG1	cnv	DLG1	YES	105
498	mrna_EIF2B5	mrna	EIF2B5	YES	28
499	meth_MEIS2	meth	MEIS2	YES	26
500	stv_GPR87	stv	GPR87	YES	12
503	cnv_GATA2	cnv	GATA2	YES	68
503	cnv_USP4	cnv	USP4	YES	21
505	meth_AZIN1	meth	AZIN1	YES	12
508	cnv_ACTR8	cnv	ACTR8	YES	17
510	meth_WWOX	meth	WWOX	YES	29
511	cnv_CBLB	cnv	CBLB	YES	25
512	meth_BPGM	meth	BPGM	YES	16
513	meth_CDK9	meth	CDK9	YES	54
513	meth_RCOR1	meth	RCOR1	YES	20
514	cnv_CACNA2D3	cnv	CACNA2D3	YES	12
515	cnv_DBR1	cnv	DBR1	YES	10
516	meth_INIP	meth	INIP	YES	7
516	stv_ITCH	stv	ITCH	YES	45
518	meth_ETV6	meth	ETV6	YES	25
519	cnv_MLF1	cnv	MLF1	YES	11
519	meth_ACTB	meth	ACTB	YES	44
520	meth_DNAJC1	meth	DNAJC1	YES	18
521	stv_C3orf33	stv	C3orf33	YES	6
522	meth_LEPR	meth	LEPR	YES	29
523	meth_NCOA6	meth	NCOA6	YES	31
524	cnv_PRKAR2A	cnv	PRKAR2A	YES	31
524	meth_NUP35	meth	NUP35	YES	33
525	meth_ANKRD27	meth	ANKRD27	YES	29
528	meth_TKT	meth	TKT	YES	21
529	meth_EIF3J	meth	EIF3J	YES	13

530	meth_MRPL39	meth	MRPL39	YES	10
531	mrna_FAM162A	mrna	FAM162A	YES	12
532	cnv_EAF2	cnv	EAF2	YES	17
535	meth_NR1D1	meth	NR1D1	YES	51
537	meth_FUT10	meth	FUT10	YES	23
538	cnv_B4GALT4	cnv	B4GALT4	YES	16
539	meth_ANAPC5	meth	ANAPC5	YES	18
539	meth_MGME1	meth	MGME1	YES	12
542	meth_CNOT2	meth	CNOT2	YES	28
544	meth_ETF1	meth	ETF1	YES	17
544	stv_ECE2	stv	ECE2	YES	23
545	meth_CENPE	meth	CENPE	YES	43
546	cnv_LRTM1	cnv	LRTM1	YES	8
546	cnv_RAB7A	cnv	RAB7A	YES	61
547	meth_EML2	meth	EML2	YES	17
548	cnv_TNFSF10	cnv	TNFSF10	YES	30
548	meth_FBXO5	meth	FBXO5	YES	26
551	cnv_AADAC	cnv	AADAC	YES	17
551	cnv_PLXNA1	cnv	PLXNA1	YES	16
554	cnv_CAMK2N2	cnv	CAMK2N2	YES	8
554	meth_MRPS16	meth	MRPS16	YES	13
555	cnv_SKIL	cnv	SKIL	YES	34
555	cnv_UPK1B	cnv	UPK1B	YES	8
556	cnv_NEK11	cnv	NEK11	YES	20
557	meth_C6orf89	meth	C6orf89	YES	14
557	meth_RQCD1	meth	RQCD1	YES	19
559	meth_IFT80	meth	IFT80	YES	13
559	meth_UBA52	meth	UBA52	YES	106
560	meth_KIF11	meth	KIF11	YES	29
560	mrna_OPA1	mrna	OPA1	YES	49
561	cnv_PIGX	cnv	PIGX	YES	7
562	cnv_TNK2	cnv	TNK2	YES	44
564	cnv_MUC13	cnv	MUC13	YES	13
565	stv_DMXL2	stv	DMXL2	YES	11
568	meth_ITGAV	meth	ITGAV	YES	84
568	mrna_DLG1	mrna	DLG1	YES	105
569	meth_SSX2IP	meth	SSX2IP	YES	21
569	meth_TERF2	meth	TERF2	YES	45
570	meth_FHOD1	meth	FHOD1	YES	19
571	meth_EHMT2	meth	EHMT2	YES	50
572	meth_NAPA	meth	NAPA	YES	33
572	meth_NUAK2	meth	NUAK2	YES	19
573	meth_PIGW	meth	PIGW	YES	11
575	cnv_PLSCR4	cnv	PLSCR4	YES	12
577	cnv_CHST13	cnv	CHST13	YES	11
578	meth_BRWD1	meth	BRWD1	YES	13
579	meth_PAFAH1B2	meth	PAFAH1B2	YES	22

580	meth_PPP2R5B	meth	PPP2R5B	YES	21
582	cnv_BBX	cnv	BBX	YES	7
584	meth_ING2	meth	ING2	YES	35
585	meth_ARHGAP19	meth	ARHGAP19	YES	7
585	mirna_MIR29C	mirna	MIR29C	YES	17
586	meth_ATG5	meth	ATG5	YES	49
588	cnv_GPR87	cnv	GPR87	YES	12
589	stv_RABIF	stv	RABIF	YES	12
591	cnv_PYDC2	cnv	PYDC2	YES	13
592	cnv_UCN2	cnv	UCN2	YES	17
592	meth_TCOF1	meth	TCOF1	YES	14
595	stv_TAF1B	stv	TAF1B	YES	22
597	cnv_PDHB	cnv	PDHB	YES	22
599	meth_KIF14	meth	KIF14	YES	51
600	meth_C1D	meth	C1D	YES	17
601	meth_MALSU1	meth	MALSU1	YES	8
602	cnv_EIF5A2	cnv	EIF5A2	YES	24
602	meth_ING3	meth	ING3	YES	16
604	mrna_JAG1	mrna	JAG1	YES	58
606	cnv_PAK2	cnv	PAK2	YES	52
608	meth_MEX3C	meth	MEX3C	YES	10
609	meth_VPS26A	meth	VPS26A	YES	21
610	meth_MAP2K4	meth	MAP2K4	YES	43
612	cnv_SOX14	cnv	SOX14	YES	17
613	meth_BAZ2A	meth	BAZ2A	YES	21
613	meth_LSM5	meth	LSM5	YES	15
616	meth_NEDD9	meth	NEDD9	YES	23
617	meth_TTL	meth	TTL	YES	7
619	meth_PIGM	meth	PIGM	YES	9
620	meth_CMAS	meth	CMAS	YES	7
620	mrna_UMPS	mrna	UMPS	YES	20
621	meth_TRIM33	meth	TRIM33	YES	19
621	mirna_MIR34A	mirna	MIR34A	YES	13
622	cnv_POGLUT1	cnv	POGLUT1	YES	23
622	meth_RNF141	meth	RNF141	YES	6
624	meth_RPL27A	meth	RPL27A	YES	19
625	cnv_PROK2	cnv	PROK2	YES	19
626	meth_CASP7	meth	CASP7	YES	23
627	meth_ZNF622	meth	ZNF622	YES	18
628	meth_AP4S1	meth	AP4S1	YES	9
631	meth_KDM1A	meth	KDM1A	YES	63
631	mrna_AP2M1	mrna	AP2M1	YES	37
633	cnv_NUDT16	cnv	NUDT16	YES	38
633	cnv_PXK	cnv	PXK	YES	16
634	meth_CUX1	meth	CUX1	YES	24
635	meth_INO80	meth	INO80	YES	37
636	cnv_AGTR1	cnv	AGTR1	YES	40

636	cnv_P2RY12	cnv	P2RY12	YES	40
637	mirna_MIR148B	mirna	MIR148B	YES	3
638	meth_SRRM1	meth	SRRM1	YES	18
641	cnv_PPP2R3A	cnv	PPP2R3A	YES	13
641	meth_GIT2	meth	GIT2	YES	9
642	cnv_TP63	cnv	TP63	YES	103
644	meth_NUTF2	meth	NUTF2	YES	24
646	cnv_IL12A	cnv	IL12A	YES	41
646	cnv_SELK	cnv	SELK	NO	0
647	cnv_PCOLCE2	cnv	PCOLCE2	YES	7
648	meth_RCAN3	meth	RCAN3	YES	11
650	meth_PDHB	meth	PDHB	YES	22
651	meth_PHLDA1	meth	PHLDA1	YES	9
652	stv_PARP1	stv	PARP1	YES	87
653	meth_TMED9	meth	TMED9	YES	20
653	mrna_SOX2	mrna	SOX2	YES	70
657	cnv_ATP1B3	cnv	ATP1B3	YES	32
658	meth_ZNF202	meth	ZNF202	YES	17
659	mrna_ALG3	mrna	ALG3	YES	13
660	cnv_WWTR1	cnv	WWTR1	YES	35
663	mrna_YEATS2	mrna	YEATS2	YES	9
663	stv_CLIP1	stv	CLIP1	YES	32
664	cnv_ECE2	cnv	ECE2	YES	23
664	stv_DEPTOR	stv	DEPTOR	YES	8
666	meth_BIN1	meth	BIN1	YES	33
667	cnv_DENND6A	cnv	DENND6A	YES	10
667	cnv_DNAH1	cnv	DNAH1	YES	25
668	cnv_EPHB3	cnv	EPHB3	YES	43
668	meth_SPATA13	meth	SPATA13	YES	19
670	meth_BYSL	meth	BYSL	YES	19
671	cnv_CELSR3	cnv	CELSR3	YES	23
672	cnv_TNIK	cnv	TNIK	YES	33
673	meth_AK7	meth	AK7	YES	19
675	meth_PARP16	meth	PARP16	YES	22
677	cnv_IL17RD	cnv	IL17RD	YES	12
677	meth_ISCU	meth	ISCU	YES	18
681	cnv_CSTA	cnv	CSTA	YES	21
682	meth_ATG101	meth	ATG101	YES	11
685	meth_POLR3E	meth	POLR3E	YES	12
687	meth_ZCCHC10	meth	ZCCHC10	YES	4
691	cnv_CLDN1	cnv	CLDN1	YES	39
691	cnv_TRIM59	cnv	TRIM59	YES	17
693	cnv_GLT8D1	cnv	GLT8D1	YES	6
693	meth_UBXN1	meth	UBXN1	YES	22
694	cnv_CCDC39	cnv	CCDC39	YES	20
694	meth_DNAJA3	meth	DNAJA3	YES	52
695	cnv_TOPBP1	cnv	TOPBP1	YES	25

697	stv_TFRC	stv	TFRC	YES	45
699	meth_DCUN1D5	meth	DCUN1D5	YES	12
703	cnv_PIK3CB	cnv	PIK3CB	YES	58
703	mrna_CNBP	mrna	CNBP	YES	22
706	stv_CCAR1	stv	CCAR1	YES	17
708	stv_BMF	stv	BMF	YES	17
710	meth_EZH2	meth	EZH2	YES	69
711	cnv_MRPL3	cnv	MRPL3	YES	11
713	cnv_PFN2	cnv	PFN2	YES	23
713	stv_HESX1	stv	HESX1	YES	19
716	cnv_DVL3	cnv	DVL3	YES	27
717	cnv_LPP	cnv	LPP	YES	11
718	cnv_PLOD2	cnv	PLOD2	YES	17
719	cnv_ADAMTS9	cnv	ADAMTS9	YES	21
721	mrna_VPS8	mrna	VPS8	YES	8
723	cnv_VPS8	cnv	VPS8	YES	8
724	meth_GLT8D1	meth	GLT8D1	YES	6
727	stv_SSX2IP	stv	SSX2IP	YES	21
733	cnv_RYBP	cnv	RYBP	YES	14
733	stv_ATP6V0D1	stv	ATP6V0D1	YES	36
735	cnv_HYAL3	cnv	HYAL3	YES	19
735	meth_RUFY1	meth	RUFY1	YES	16
736	meth_ZNF267	meth	ZNF267	YES	9
739	cnv_ROBO1	cnv	ROBO1	YES	31
740	cnv_RPL29	cnv	RPL29	YES	21
741	meth_FBXO45	meth	FBXO45	YES	21
743	meth_ABCB9	meth	ABCB9	YES	24
744	meth_COX10	meth	COX10	YES	24
747	mrna_CACNA1D	mrna	CACNA1D	YES	35
749	meth_IFT74	meth	IFT74	YES	23
750	meth_MAP3K3	meth	MAP3K3	YES	25
752	meth_KDM4A	meth	KDM4A	YES	34
754	cnv_FOXL2	cnv	FOXL2	YES	37
754	cnv_GXYLT2	cnv	GXYLT2	YES	6
756	cnv_FOXP1	cnv	FOXP1	YES	74
758	mrna_TOPBP1	mrna	TOPBP1	YES	25
759	meth_KLHL12	meth	KLHL12	YES	21
760	mrna_MCM2	mrna	MCM2	YES	30
761	mrna_EIF4G1	mrna	EIF4G1	YES	47
765	meth_TUBB	meth	TUBB	YES	37
769	cnv_SERPINI1	cnv	SERPINI1	YES	16
773	meth_EAF2	meth	EAF2	YES	17
774	meth_HS2ST1	meth	HS2ST1	YES	10
776	cnv_RHO	cnv	RHO	YES	38
778	cnv_FAM162A	cnv	FAM162A	YES	12
779	mrna_MRPL47	mrna	MRPL47	YES	14
780	cnv_ST6GAL1	cnv	ST6GAL1	YES	19

780	meth_ARHGAP1	meth	ARHGAP1	YES	24
781	cnv_CPA3	cnv	CPA3	YES	15
783	cnv_PDIA5	cnv	PDIA5	YES	15
785	meth_RIPK2	meth	RIPK2	YES	82
787	meth_ITGA3	meth	ITGA3	YES	59
791	meth_HIF1A	meth	HIF1A	YES	125
793	meth_RFC2	meth	RFC2	YES	24
794	meth_MANBA	meth	MANBA	YES	15
796	meth_IPO7	meth	IPO7	YES	22
801	cnv_ATRIP	cnv	ATRIP	YES	12
802	cnv_ALAS1	cnv	ALAS1	YES	19
802	meth_ERF	meth	ERF	YES	14
804	meth_ZNF689	meth	ZNF689	YES	8
807	meth_PSMD9	meth	PSMD9	YES	38
809	cnv_CHRD	cnv	CHRD	YES	22
811	cnv_KALRN	cnv	KALRN	YES	51
813	cnv_MAPKAPK3	cnv	MAPKAPK3	YES	37
828	cnv_HESX1	cnv	HESX1	YES	19
832	cnv_KLF15	cnv	KLF15	YES	20
833	meth_COPS3	meth	COPS3	YES	14
833	meth_NLE1	meth	NLE1	YES	14
834	cnv_DNAJC13	cnv	DNAJC13	YES	23
838	cnv_PARP3	cnv	PARP3	YES	22
841	meth_RAB23	meth	RAB23	YES	26
844	cnv_SLC38A3	cnv	SLC38A3	YES	28
846	meth_SPAG5	meth	SPAG5	YES	29
849	meth_WDR75	meth	WDR75	YES	12
850	cnv_ZMAT3	cnv	ZMAT3	YES	17
853	cnv_EIF4G1	cnv	EIF4G1	YES	47
858	cnv_RSRC1	cnv	RSRC1	YES	11
860	meth_ACP2	meth	ACP2	YES	11
876	mrna_KPNA1	mrna	KPNA1	YES	22
877	cnv_RNF7	cnv	RNF7	YES	25
882	cnv_ITIH4	cnv	ITIH4	YES	16
888	cnv_SEC61A1	cnv	SEC61A1	YES	19
889	mrna_CLDN1	mrna	CLDN1	YES	39
890	cnv_MME	cnv	MME	YES	36
890	stv_TERF2	stv	TERF2	YES	45
893	cnv_DCUN1D1	cnv	DCUN1D1	YES	11
894	cnv_FHIT	cnv	FHIT	YES	21
895	meth_RREB1	meth	RREB1	YES	27
903	cnv_SHISA5	cnv	SHISA5	YES	17
904	meth_ITPR1	meth	ITPR1	YES	50
905	meth_PFKFB3	meth	PFKFB3	YES	18
908	meth_DMXL2	meth	DMXL2	YES	11
910	cnv_ADCY5	cnv	ADCY5	YES	36
912	cnv_P2RY1	cnv	P2RY1	YES	57

912	meth_SEC11C	meth	SEC11C	YES	12
917	meth_POLA2	meth	POLA2	YES	18
927	meth_PKN2	meth	PKN2	YES	43
929	cnv_NR1I2	cnv	NR1I2	YES	32
930	stv_EML2	stv	EML2	YES	17
933	meth_ARL1	meth	ARL1	YES	25
934	cnv_IP6K2	cnv	IP6K2	YES	24
934	meth_PPP4R1	meth	PPP4R1	YES	8
936	cnv_NPRL2	cnv	NPRL2	YES	15
945	meth_MRPL57	meth	MRPL57	YES	10
949	meth_E2F4	meth	E2F4	YES	33
949	meth_PUS1	meth	PUS1	YES	15
953	cnv_SENP5	cnv	SENP5	YES	15
956	cnv_FGF12	cnv	FGF12	YES	22
960	meth_ASH2L	meth	ASH2L	YES	27
965	meth_EGR1	meth	EGR1	YES	69
971	stv_FGF12	stv	FGF12	YES	22
974	cnv_MBD4	cnv	MBD4	YES	19
979	cnv_VPRBP	cnv	VPRBP	YES	7
983	meth_PRKCA	meth	PRKCA	YES	84
998	cnv_SLC26A6	cnv	SLC26A6	YES	56
1004	meth_CCDC151	meth	CCDC151	YES	14
1024	meth_MAN1B1	meth	MAN1B1	YES	25
1026	meth_SEC11A	meth	SEC11A	YES	13

APPENDIX I

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	meth_AC091729.9	meth	AC091729.9	NO	0
1	mrna_DPY19L3	mrna	DPY19L3	YES	7
2	cnv_C10orf55	cnv	C10orf55	NO	0
2	mrna_ANXA8L1	mrna	ANXA8L1	YES	4
3	cnv_ZNF91	cnv	ZNF91	YES	11
3	meth_POT1	meth	POT1	YES	33
4	cnv_LGALS16	cnv	LGALS16	YES	7
4	mrna_LAD1	mrna	LAD1	YES	6
5	meth_DUS2	meth	DUS2	YES	17
5	meth_SAMD12	meth	SAMD12	YES	3
6	cnv_EPS8L3	cnv	EPS8L3	YES	2
6	cnv_MRPS12	cnv	MRPS12	YES	15
7	mrna_GYLTL1B	mrna	GYLTL1B	YES	4
7	mrna_RGMA	mrna	RGMA	YES	24
8	cnv_ZNF644	cnv	ZNF644	YES	6
8	mrna_HBP1	mrna	HBP1	YES	10
9	cnv_LINC00845	cnv	LINC00845	NO	0
9	mrna_DLG1	mrna	DLG1	YES	105
10	cnv_DNAJC9	cnv	DNAJC9	YES	10
10	cnv_NPFFR1	cnv	NPFFR1	YES	14
11	mrna_CCNA2	mrna	CCNA2	YES	37
11	mrna_TCF7L1	mrna	TCF7L1	YES	26
12	cnv_FAM86HP	cnv	FAM86HP	NO	0
12	meth_THEM4	meth	THEM4	YES	20
13	meth_SUCLA2	meth	SUCLA2	YES	17
13	mrna_TMEM209	mrna	TMEM209	YES	2
14	cnv_MYBPHL	cnv	MYBPHL	YES	15
14	cnv_RNASSP470	cnv	RNASSP470	NO	0
15	mrna_NEURL3	mrna	NEURL3	YES	4
15	mrna_ARMCX2	mrna	ARMCX2	YES	3
16	meth_AF235103.1	meth	AF235103.1	NO	0
16	mrna_SLC7A10	mrna	SLC7A10	YES	19
17	cnv_SARS2	cnv	SARS2	YES	13
17	meth_PAEP	meth	PAEP	YES	11
18	mrna_LEPR	mrna	LEPR	YES	29
18	mrna_FABP5	mrna	FABP5	YES	20
19	mrna_URI1	mrna	URI1	YES	24
19	mrna_ZNF724P	mrna	ZNF724P	YES	7
20	cnv_TGFBR3	cnv	TGFBR3	YES	63
20	mrna_COL25A1	mrna	COL25A1	YES	12
21	mrna_ACO1	mrna	ACO1	YES	24
21	mrna_KTI12	mrna	KTI12	YES	3
22	cnv_SLC44A3	cnv	SLC44A3	YES	8
22	mrna_PSME4	mrna	PSME4	YES	43
23	meth_CCNE2	meth	CCNE2	YES	19
23	mrna_ZNF285	mrna	ZNF285	YES	7
24	cnv_RBM42	cnv	RBM42	YES	6
24	mrna_UBE2M	mrna	UBE2M	YES	18
25	mrna_ELF5	mrna	ELF5	YES	20
25	mrna_RP11-58E21.3	mrna	RP11-58E21.3	NO	0
26	cnv_SHKBP1	cnv	SHKBP1	YES	4
26	mrna_SMO	mrna	SMO	YES	101
27	cnv_LRRC39	cnv	LRRC39	YES	1
27	stv_OR1L4	stv	OR1L4	YES	11
28	cnv_WDR62	cnv	WDR62	YES	18
28	mrna_FAM60A	mrna	FAM60A	YES	4
29	cnv_SNORD74|ENSG00000200897.1	cnv	SNORD74|ENSG00000200897.1	NO	0
29	mrna_ITIH5	mrna	ITIH5	YES	3
30	mrna_CRYBG3	mrna	CRYBG3	YES	1
30	mrna_SERPINB5	mrna	SERPINB5	YES	12
31	mrna_DEPDC4	mrna	DEPDC4	YES	3
32	cnv_RAB31	cnv	RAB31	YES	24
32	cnv_ZNF260	cnv	ZNF260	YES	11

33	mrna_ESF1	mrna	ESF1	YES	7
33	mrna_MLXIP	mrna	MLXIP	YES	16
34	cnv_MSSS1	cnv	MSSS1	YES	2
34	mrna_SSBP3	mrna	SSBP3	YES	20
35	meth_GPR22	meth	GPR22	YES	11
35	mrna_RP11-266K4.9	mrna	RP11-266K4.9	NO	0
36	cnv_KIAA1257	cnv	KIAA1257	NO	0
36	cnv_ZNF566	cnv	ZNF566	YES	9
37	cnv_LYPD4	cnv	LYPD4	YES	5
37	mrna_KLF11	mrna	KLF11	YES	22
38	cnv_LRFN3	cnv	LRFN3	YES	15
38	meth_AGO2	meth	AGO2	YES	65
39	cnv_SART3	cnv	SART3	YES	27
39	mrna_MON2	mrna	MON2	YES	8
40	cnv_SNORA48|ENSG00000212626.1	cnv	SNORA48|ENSG00000212626.1	NO	0
40	meth_CMBL	meth	CMBL	YES	5
41	cnv_UOX	cnv	UOX	NO	0
41	mrna_TMEM123	mrna	TMEM123	YES	7
42	cnv_HAMP	cnv	HAMP	YES	30
42	cnv_PBLD	cnv	PBLD	YES	15
43	cnv_CEACAM21	cnv	CEACAM21	YES	2
44	cnv_snoU13|ENSG00000238983.1	cnv	snoU13|ENSG00000238983.1	NO	0
44	mrna_GYG2	mrna	GYG2	YES	8
45	cnv_LINC00662	cnv	LINC00662	NO	0
45	meth_MXRA7	meth	MXRA7	YES	2
46	cnv_EFCAB12	cnv	EFCAB12	YES	3
46	cnv_RPL32P3	cnv	RPL32P3	NO	0
47	cnv_RNA5SP53	cnv	RNA5SP53	NO	0
47	mrna_CTC-459F4.1	mrna	CTC-459F4.1	NO	0
48	cnv_HPN	cnv	HPN	YES	36
48	cnv_MTF2	cnv	MTF2	YES	18
49	mrna_AMER1	mrna	AMER1	YES	26
49	stv_RPL28	stv	RPL28	YES	21
50	mrna_PISD	mrna	PISD	YES	13
51	mrna_GLCE	mrna	GLCE	YES	12
51	stv_TRIM6	stv	TRIM6	YES	32
52	meth_EIF3H	meth	EIF3H	YES	15
52	meth_ZC3H15	meth	ZC3H15	YES	9
53	cnv_TFAM	cnv	TFAM	YES	27
53	meth_EIF2S2	meth	EIF2S2	YES	14
54	meth_MAFG	meth	MAFG	YES	19
54	mrna_CCDC6	mrna	CCDC6	YES	8
55	meth_RPS12	meth	RPS12	YES	17
55	mrna_TNMD	mrna	TNMD	YES	11
56	cnv_DNAJB8	cnv	DNAJB8	YES	7
56	mrna_THBS4	mrna	THBS4	YES	26
57	cnv_F3	cnv	F3	YES	29
57	cnv_SLC7A9	cnv	SLC7A9	YES	19
58	cnv_NBPF5P	cnv	NBPF5P	NO	0
58	cnv_SYNPO2L	cnv	SYNPO2L	YES	9
59	cnv_C19orf12	cnv	C19orf12	YES	11
59	cnv_DR1	cnv	DR1	YES	13
60	cnv_C3orf27	cnv	C3orf27	NO	0
60	cnv_GSTM4	cnv	GSTM4	YES	13
61	cnv_PRF1	cnv	PRF1	YES	23
61	cnv_ZFP36	cnv	ZFP36	YES	36
62	cnv_AIFM2	cnv	AIFM2	YES	17
62	cnv_COL6A6	cnv	COL6A6	YES	7
63	cnv_C19orf47	cnv	C19orf47	YES	2
63	mrna_CTH	mrna	CTH	YES	33
64	cnv_FFAR1	cnv	FFAR1	YES	17
64	cnv_FOXN4	cnv	FOXN4	YES	20
65	cnv_CCDC6	cnv	CCDC6	YES	8
65	cnv_MOV10	cnv	MOV10	YES	19

66	cnv_CEACAM6	cnv	CEACAM6	YES	13
66	mrna_MCM8	mrna	MCM8	YES	19
67	cnv_NPHS1	cnv	NPHS1	YES	25
67	mrna_SLC19A3	mrna	SLC19A3	YES	11
68	cnv_FAM13C	cnv	FAM13C	YES	1
68	cnv_RPH3A	cnv	RPH3A	YES	35
69	cnv_LAMA1	cnv	LAMA1	YES	28
69	mrna_CEACAM19	mrna	CEACAM19	YES	3
70	cnv_GBP1P1	cnv	GBP1P1	NO	0
70	meth_CDC42EP2	meth	CDC42EP2	YES	19
71	cnv_LPPR5	cnv	LPPR5	NO	0
71	mrna_PPP1R1A	mrna	PPP1R1A	YES	11
72	cnv_ABCA4	cnv	ABCA4	YES	24
72	cnv_OLFM3	cnv	OLFM3	YES	8
73	cnv_COX6B1	cnv	COX6B1	YES	8
73	cnv_RN7SKP196	cnv	RN7SKP196	NO	0
74	mrna_CPSF6	mrna	CPSF6	YES	14
74	mrna_SPTBN1	mrna	SPTBN1	YES	43
75	mirna_MIR519A	mirna	MIR519A	NO	0
75	mrna_FAM101A	mrna	FAM101A	NO	0
76	mrna_RASD2	mrna	RASD2	YES	21
76	mrna_LPL	mrna	LPL	YES	42
77	mrna_EPN1	mrna	EPN1	YES	15
77	stv_ISG20	stv	ISG20	YES	29
78	mrna_TIGD2	mrna	TIGD2	YES	3
79	cnv_ALKBH6	cnv	ALKBH6	YES	10
79	mrna_GPD1	mrna	GPD1	YES	25
80	cnv_NUAK1	cnv	NUAK1	YES	24
81	mrna_E2F3	mrna	E2F3	YES	21
81	mrna_VGLL4	mrna	VGLL4	YES	4
82	cnv_FAM69A	cnv	FAM69A	YES	4
82	cnv_SYCN	cnv	SYCN	YES	5
83	cnv_DYRK1B	cnv	DYRK1B	YES	17
83	cnv_GPR88	cnv	GPR88	YES	18
84	cnv_ZNF728	cnv	ZNF728	YES	5
84	mrna_LRRC34	mrna	LRRC34	YES	4
85	mrna_PLCH1	mrna	PLCH1	YES	19
85	mrna_SCN7A	mrna	SCN7A	YES	21
86	cnv_CLC	cnv	CLC	YES	11
86	mrna_PARD6G	mrna	PARD6G	YES	12
87	cnv_MIR553	cnv	MIR553	NO	0
87	mrna_CIDEA	mrna	CIDEA	YES	26
88	mrna_FERMT1	mrna	FERMT1	YES	25
88	mrna_KCNK5	mrna	KCNK5	YES	15
89	mrna_TBC1D4	mrna	TBC1D4	YES	17
89	mrna_TMEM168	mrna	TMEM168	YES	3
90	meth_SCARB1	meth	SCARB1	YES	60
90	mrna_PQLC1	mrna	PQLC1	YES	2
91	mrna_TSPAN9	mrna	TSPAN9	YES	9
91	mrna_ANAPC15	mrna	ANAPC15	YES	13
92	cnv_PRPF38B	cnv	PRPF38B	YES	6
92	meth_ZKSCAN8	meth	ZKSCAN8	YES	10
93	mrna_CWH43	mrna	CWH43	YES	3
94	mrna_GALNT3	mrna	GALNT3	YES	20
94	mrna_APBB2	mrna	APBB2	YES	18
95	cnv_CCDC63	cnv	CCDC63	YES	6
95	mrna_PDE4B	mrna	PDE4B	YES	33
96	cnv_ZNF738	cnv	ZNF738	YES	8
96	mrna_SLC38A3	mrna	SLC38A3	YES	28
97	mrna_AMDHD1	mrna	AMDHD1	YES	13
97	mrna_UBXN7	mrna	UBXN7	YES	10
98	cnv_CSF1	cnv	CSF1	YES	52
98	cnv_ZFP14	cnv	ZFP14	YES	8
99	cnv_ACTN4	cnv	ACTN4	YES	58

99	mrna_CDC6	mrna	CDC6	YES	30
100	cnv_RAB12	cnv	RAB12	YES	22
100	mrna_C19orf12	mrna	C19orf12	YES	11
101	cnv_TCTN1	cnv	TCTN1	YES	21
101	mirna_MIR5090	mirna	MIR5090	NO	0
102	cnv_ASTE1	cnv	ASTE1	YES	4
102	mrna_UQCRH	mrna	UQCRH	YES	14
103	meth_RP11-71L14.4	meth	RP11-71L14.4	NO	0
103	mrna_CENPI	mrna	CENPI	YES	12
104	cnv_RWDD3	cnv	RWDD3	YES	6
104	mrna_SNX33	mrna	SNX33	YES	28
105	cnv_LRRC8D	cnv	LRRC8D	YES	16
105	cnv_SELV	cnv	SELV	NO	0
106	cnv_KCNC4	cnv	KCNC4	YES	19
106	mrna_TNFRSF21	mrna	TNFRSF21	YES	34
107	cnv_C12orf75	cnv	C12orf75	NO	0
107	mrna_FADS3	mrna	FADS3	YES	11
108	cnv_ATP1A3	cnv	ATP1A3	YES	54
108	cnv_GRAMD1A	cnv	GRAMD1A	YES	3
109	cnv_HECTD4	cnv	HECTD4	YES	5
109	meth_VPS51	meth	VPS51	YES	24
110	cnv_CAPNS1	cnv	CAPNS1	YES	15
111	mrna_CAD	mrna	CAD	YES	49
111	mrna_RP11-551L14.1	mrna	RP11-551L14.1	NO	0
112	cnv_ERP29	cnv	ERP29	YES	20
112	mrna_PHKB	mrna	PHKB	YES	15
113	cnv_ZNF792	cnv	ZNF792	YES	9
113	meth_DCAF13	meth	DCAF13	YES	16
114	cnv_RASGRP4	cnv	RASGRP4	YES	24
114	meth_CYP2J2	meth	CYP2J2	YES	24
115	cnv_MIR4530	cnv	MIR4530	NO	0
116	cnv_RTCA	cnv	RTCA	YES	9
116	cnv_SNORA36|ENSG00000200294.1	cnv	SNORA36|ENSG00000200294.1	NO	0
117	mrna_ARHGAP21	mrna	ARHGAP21	YES	20
117	mrna_C15orf41	mrna	C15orf41	NO	0
118	mrna_MOCOS	mrna	MOCOS	YES	14
118	stv_ROBO4	stv	ROBO4	YES	8
119	mrna_CTGLF12P	mrna	CTGLF12P	NO	0
120	mrna_ABCB9	mrna	ABCB9	YES	24
122	cnv_BCAR3	cnv	BCAR3	YES	11
122	mrna_FBXL13	mrna	FBXL13	YES	4
123	cnv_PRX	cnv	PRX	YES	8
123	mirna_MIR5193	mirna	MIR5193	NO	0
124	cnv_PSMA5	cnv	PSMA5	YES	44
124	mrna_ELAC1	mrna	ELAC1	YES	13
125	cnv_IFT122	cnv	IFT122	YES	37
125	meth_RAB6B	meth	RAB6B	YES	17
126	cnv_LINC00857	cnv	LINC00857	NO	0
126	stv_XPO6	stv	XPO6	YES	12
127	cnv_LRIT1	cnv	LRIT1	YES	7
127	cnv_MYO1H	cnv	MYO1H	YES	5
128	cnv_C10orf99	cnv	C10orf99	YES	8
128	cnv_H1FOO	cnv	H1FOO	YES	13
129	cnv_RNA5SP139	cnv	RNA5SP139	NO	0
129	mrna_DDX51	mrna	DDX51	YES	14
130	cnv_GBP2	cnv	GBP2	YES	16
130	cnv_SPOCK2	cnv	SPOCK2	YES	15
131	cnv_RUVBL1	cnv	RUVBL1	YES	50
131	mrna_EIF2B1	mrna	EIF2B1	YES	25
132	cnv_RN7SL698P	cnv	RN7SL698P	NO	0
132	meth_POLR3C	meth	POLR3C	YES	17
133	mrna_STAT5A	mrna	STAT5A	YES	66
134	mrna_C16orf87	mrna	C16orf87	YES	1
134	stv_CRYL1	stv	CRYL1	YES	11

135	cnv_MVK	cnv	MVK	YES	21
135	meth_VAMP2	meth	VAMP2	YES	60
136	cnv_MIA	cnv	MIA	YES	4
136	mrna_KLHDC10	mrna	KLHDC10	YES	4
137	cnv_LSR	cnv	LSR	YES	13
137	mrna_PLIN1	mrna	PLIN1	YES	8
138	meth_LINC01301	meth	LINC01301	NO	0
139	cnv_SOGA2	cnv	SOGA2	YES	2
139	mrna_ATP11A	mrna	ATP11A	YES	23
140	mrna_TP53BP2	mrna	TP53BP2	YES	21
141	meth_CTD-2529P6.3	meth	CTD-2529P6.3	NO	0
141	mrna_ZNF580	mrna	ZNF580	YES	15
142	cnv_C19orf40	cnv	C19orf40	YES	8
142	cnv_SLC25A24	cnv	SLC25A24	YES	16
143	cnv_THEG5	cnv	THEG5	NO	0
143	meth_ASPSCR1	meth	ASPSCR1	YES	21
144	cnv_ZBTB32	cnv	ZBTB32	YES	15
144	mrna_PCK1	mrna	PCK1	YES	39
145	cnv_TMEM116	cnv	TMEM116	YES	5
145	mrna_PDE3B	mrna	PDE3B	YES	26
146	mrna_NAT14	mrna	NAT14	YES	11
146	mrna_IMPA2	mrna	IMPA2	YES	17
147	mrna_CASC10	mrna	CASC10	NO	0
147	mrna_RP3-512B11.3	mrna	RP3-512B11.3	NO	0
148	mrna_USP13	mrna	USP13	YES	32
149	cnv_TSPAN15	cnv	TSPAN15	YES	14
149	mrna_DHX37	mrna	DHX37	YES	12
150	cnv_C1orf162	cnv	C1orf162	YES	2
150	mrna_ATL2	mrna	ATL2	YES	13
151	cnv_MCOLN3	cnv	MCOLN3	YES	10
151	cnv_SNORD111|ENSG00000252230.1	cnv	SNORD111|ENSG00000252230.1	NO	0
152	cnv_ZNF780A	cnv	ZNF780A	YES	8
152	mrna_CTSV	mrna	CTSV	YES	42
153	cnv_PAK4	cnv	PAK4	YES	34
154	meth_RASD1	meth	RASD1	YES	17
154	mrna_TRHDE-AS1	mrna	TRHDE-AS1	NO	0
155	cnv_IPMK	cnv	IPMK	YES	14
156	cnv_LINC00844	cnv	LINC00844	NO	0
156	mrna_U2AF2	mrna	U2AF2	YES	27
157	cnv_GCLM	cnv	GCLM	YES	30
157	cnv_SFTPD	cnv	SFTPD	YES	31
158	cnv_DLG5	cnv	DLG5	YES	38
158	meth_A4GALT	meth	A4GALT	YES	16
159	cnv_KIAA1279	cnv	KIAA1279	YES	7
159	cnv_MIR606	cnv	MIR606	NO	0
160	cnv_VPS26A	cnv	VPS26A	YES	21
160	stv_CALCA	stv	CALCA	YES	64
161	cnv_C10orf54	cnv	C10orf54	YES	2
161	cnv_U3|ENSG00000199856.1	cnv	U3|ENSG00000199856.1	NO	0
162	cnv_EGR2	cnv	EGR2	YES	42
162	mrna_WDR3	mrna	WDR3	YES	10
163	cnv_SCGB1B2P	cnv	SCGB1B2P	NO	0
163	cnv_snoU13|ENSG00000238918.1	cnv	snoU13|ENSG00000238918.1	NO	0
164	mirna_MIR1270	mirna	MIR1270	NO	0
164	mrna_SLC5A6	mrna	SLC5A6	YES	17
165	cnv_CXCL17	cnv	CXCL17	YES	11
165	mrna_ADH1B	mrna	ADH1B	YES	11
166	cnv_RN7SL583P	cnv	RN7SL583P	NO	0
167	cnv_MAP4K1	cnv	MAP4K1	YES	23
167	meth_SYS1	meth	SYS1	YES	13
168	mrna_DDX12P	mrna	DDX12P	NO	0
169	meth_LEMD3	meth	LEMD3	YES	18
169	mrna_SGK2	mrna	SGK2	YES	26
170	meth_INHBB	meth	INHBB	YES	33

170	mrna_NDUFA3	mrna	NDUFA3	YES	10
171	cnv_TMEM254	cnv	TMEM254	YES	2
171	mrna_DDX50	mrna	DDX50	YES	13
172	mrna_ZBTB8A	mrna	ZBTB8A	YES	10
173	cnv_OIT3	cnv	OIT3	YES	5
173	cnv_SSH1	cnv	SSH1	YES	35
174	cnv_C1orf146	cnv	C1orf146	NO	0
174	cnv_KAT6B	cnv	KAT6B	YES	24
175	cnv_LGI4	cnv	LGI4	YES	10
175	cnv_RNA5SP319	cnv	RNA5SP319	NO	0
176	meth_HLA-DMB	meth	HLA-DMB	YES	17
176	mrna_STK38L	mrna	STK38L	YES	20
177	cnv_snoU13|ENSG00000238389.1	cnv	snoU13|ENSG00000238389.1	NO	0
177	meth_CHST10	meth	CHST10	YES	10
178	cnv_RN7SKP212	cnv	RN7SKP212	NO	0
178	mrna_TFCP2L1	mrna	TFCP2L1	YES	22
179	cnv_FAM102B	cnv	FAM102B	NO	0
180	cnv_PSENEN	cnv	PSENEN	YES	21
180	mrna_BCL2A1	mrna	BCL2A1	YES	18
181	mrna_TRIT1	mrna	TRIT1	YES	16
182	meth_SF3B1	meth	SF3B1	YES	18
182	mrna_RP11-154D6.1	mrna	RP11-154D6.1	NO	0
183	cnv_ADO	cnv	ADO	YES	9
183	cnv_TXNDC2	cnv	TXNDC2	YES	15
184	cnv_TW5G1	cnv	TW5G1	YES	23
184	mrna_UBE2E3	mrna	UBE2E3	YES	15
185	cnv_SEC61A1	cnv	SEC61A1	YES	19
185	mrna_RCOR2	mrna	RCOR2	YES	13
186	cnv_FAM212B	cnv	FAM212B	YES	4
186	cnv_VSTM2B	cnv	VSTM2B	YES	3
187	cnv_TRMT13	cnv	TRMT13	YES	7
188	cnv_PWP1	cnv	PWP1	YES	8
189	cnv_CD79A	cnv	CD79A	YES	20
189	meth_RP11-399J13.2	meth	RP11-399J13.2	NO	0
190	cnv_HSPB6	cnv	HSPB6	YES	12
190	cnv_TCHP	cnv	TCHP	YES	18
191	cnv_AKNAD1	cnv	AKNAD1	YES	1
191	mrna_C2orf70	mrna	C2orf70	YES	1
192	cnv_MRPL3	cnv	MRPL3	YES	11
192	mrna_SPC25	mrna	SPC25	YES	13
193	meth_MB21D2	meth	MB21D2	YES	2
193	mrna_TRPV3	mrna	TRPV3	YES	18
194	cnv_GSTM3	cnv	GSTM3	YES	20
194	cnv_KMT2B	cnv	KMT2B	YES	27
195	cnv_RAB7A	cnv	RAB7A	YES	61
195	cnv_RN7SL340P	cnv	RN7SL340P	NO	0
196	cnv_PLD3	cnv	PLD3	YES	12
196	mirna_MIR4683	mirna	MIR4683	NO	0
197	meth_HIPK1	meth	HIPK1	YES	37
197	mrna_LINC00960	mrna	LINC00960	NO	0
198	cnv_CDH23	cnv	CDH23	YES	20
198	cnv_RN7SL831P	cnv	RN7SL831P	NO	0
199	cnv_TYROBP	cnv	TYROBP	YES	20
199	mrna_TTC3	mrna	TTC3	YES	11
200	cnv_NAA25	cnv	NAA25	YES	6
200	mrna_ZNF670	mrna	ZNF670	YES	8
201	cnv_ANAPC7	cnv	ANAPC7	YES	15
201	cnv_LINC00664	cnv	LINC00664	NO	0
202	mrna_LDHB	mrna	LDHB	YES	22
202	mrna_DMRT2	mrna	DMRT2	YES	18
203	cnv_CDHR1	cnv	CDHR1	YES	10
203	mrna_LGALS12	mrna	LGALS12	YES	8
204	cnv_CKAP4	cnv	CKAP4	YES	23
204	meth_AC108479.3	meth	AC108479.3	NO	0

205	mrna_PVRL1	mrna	PVRL1	YES	38
206	meth_LMO1	meth	LMO1	YES	8
206	mrna_CALB2	mrna	CALB2	YES	10
207	cnv_RN7SL765P	cnv	RN7SL765P	NO	0
207	stv_PPEF1	stv	PPEF1	YES	13
208	meth_MAMDC4	meth	MAMDC4	YES	4
208	mrna_FAM71E1	mrna	FAM71E1	YES	1
209	cnv_BCKDHA	cnv	BCKDHA	YES	14
209	cnv_USF2	cnv	USF2	YES	23
210	cnv_SBSN	cnv	SBSN	YES	5
210	meth_ERLIN1	meth	ERLIN1	YES	17
211	cnv_ATXN2	cnv	ATXN2	YES	24
211	mrna_TCHP	mrna	TCHP	YES	18
212	cnv_SPINT2	cnv	SPINT2	YES	19
212	mrna_TMED2	mrna	TMED2	YES	42
213	meth_SCNN1G	meth	SCNN1G	YES	25
213	stv_RILP	stv	RILP	YES	28
214	cnv_AMIGO1	cnv	AMIGO1	YES	24
214	cnv_PPP1CC	cnv	PPP1CC	YES	46
215	meth_SLC22A17	meth	SLC22A17	YES	19
215	mrna_SHCBP1	mrna	SHCBP1	YES	8
216	mrna_SMAP1	mrna	SMAP1	YES	9
217	meth_GALNT11	meth	GALNT11	YES	19
217	stv_ARID3B	stv	ARID3B	YES	15
218	cnv_NDUFV2	cnv	NDUFV2	YES	19
218	stv_FLYWCH2	stv	FLYWCH2	YES	3
219	meth_E2F2	meth	E2F2	YES	21
220	mrna_CD99P1	mrna	CD99P1	NO	0
221	cnv_RNA5SP372	cnv	RNA5SP372	NO	0
222	cnv_POP4	cnv	POP4	YES	19
222	mrna_CDK1	mrna	CDK1	YES	99
223	mrna_GSTP1	mrna	GSTP1	YES	73
224	mrna_CENPN	mrna	CENPN	YES	12
224	mrna_CH17-189H20.1	mrna	CH17-189H20.1	NO	0
225	cnv_HFM1	cnv	HFM1	YES	11
225	mrna_KANK4	mrna	KANK4	YES	3
226	cnv_PAFAH1B3	cnv	PAFAH1B3	YES	16
227	mrna_L3MBTL4	mrna	L3MBTL4	YES	8
228	mrna_ADAMTS10	mrna	ADAMTS10	YES	14
228	mrna_UTP11L	mrna	UTP11L	YES	9
229	cnv_C1orf194	cnv	C1orf194	NO	0
229	cnv_RN7SL154P	cnv	RN7SL154P	NO	0
230	mrna_HIST1H2AC	mrna	HIST1H2AC	YES	10
230	stv_KRTAP4-8	stv	KRTAP4-8	YES	6
231	cnv_SNORA25|ENSG00000200536.1	cnv	SNORA25|ENSG00000200536.1	NO	0
231	mrna_GDF10	mrna	GDF10	YES	17
232	mrna_ST14	mrna	ST14	YES	19
233	cnv_TBCB	cnv	TBCB	YES	9
233	mrna_LRRFIP1P1	mrna	LRRFIP1P1	NO	0
234	cnv_LRIF1	cnv	LRIF1	YES	8
234	stv_WDR59	stv	WDR59	YES	10
235	cnv_AGL	cnv	AGL	YES	30
235	meth_POU2F1	meth	POU2F1	YES	17
236	mrna_MOCS1	mrna	MOCS1	YES	14
236	stv_KMT2C	stv	KMT2C	YES	20
237	mrna_IL23A	mrna	IL23A	YES	44
237	mrna_PRKCI	mrna	PRKCI	YES	57
238	cnv_snoU13|ENSG00000238514.1	cnv	snoU13|ENSG00000238514.1	NO	0
238	stv_CBFA2T3	stv	CBFA2T3	YES	21
239	cnv_AP3M1	cnv	AP3M1	YES	17
239	mrna_CSRP2	mrna	CSRP2	YES	7
240	cnv_CCNE1	cnv	CCNE1	YES	27
240	mrna_GPR139	mrna	GPR139	YES	11
241	cnv_FXYD3	cnv	FXYD3	YES	16

241	cnv_GBP4	cnv	GBP4	YES	10
242	mrna_THSD7B	mrna	THSD7B	YES	2
242	stv_ZNF512	stv	ZNF512	YES	6
243	cnv_RN7SL394P	cnv	RN7SL394P	NO	0
244	cnv_ARHGEF1	cnv	ARHGEF1	YES	16
244	mrna_AC092835.2	mrna	AC092835.2	NO	0
245	mrna_ZNF843	mrna	ZNF843	YES	3
245	mrna_PCDHGB5	mrna	PCDHGB5	YES	12
246	cnv_RNPC3	cnv	RNPC3	YES	12
248	cnv_SERTAD1	cnv	SERTAD1	YES	10
249	cnv_FNBP1L	cnv	FNBP1L	YES	23
249	mrna_ACVR1C	mrna	ACVR1C	YES	32
250	meth_APEH	meth	APEH	YES	17
251	cnv_CYP2A6	cnv	CYP2A6	YES	25
251	mrna_ACTRT3	mrna	ACTRT3	YES	4
252	cnv_snoU13|ENSG00000238761.1	cnv	snoU13|ENSG00000238761.1	NO	0
252	mrna_EIF4G1	mrna	EIF4G1	YES	47
253	cnv_PLA2G12B	cnv	PLA2G12B	YES	7
253	mrna_ETFB	mrna	ETFB	YES	10
254	cnv_FAM187B	cnv	FAM187B	YES	2
254	cnv_RN7SL34P	cnv	RN7SL34P	NO	0
255	cnv_NODAL	cnv	NODAL	YES	81
255	cnv_ZNF585B	cnv	ZNF585B	YES	7
256	mrna_LRTOMT	mrna	LRTOMT	YES	17
256	mrna_FUT4	mrna	FUT4	YES	15
257	cnv_snoU13|ENSG00000239111.1	cnv	snoU13|ENSG00000239111.1	NO	0
257	mrna_C2CD2	mrna	C2CD2	YES	4
258	cnv_EFCC1	cnv	EFCC1	YES	1
258	cnv_snoU13|ENSG00000251709.1	cnv	snoU13|ENSG00000251709.1	NO	0
259	cnv_OAS2	cnv	OAS2	YES	29
260	cnv_DMRTC2	cnv	DMRTC2	YES	14
260	cnv_TSHZ3	cnv	TSHZ3	YES	25
261	cnv_SLC29A3	cnv	SLC29A3	YES	13
262	cnv_NUDT13	cnv	NUDT13	YES	6
262	cnv_ZNF569	cnv	ZNF569	YES	8
263	stv_RTP1	stv	RTP1	YES	9
264	cnv_ZNF382	cnv	ZNF382	YES	11
265	cnv_PPIF	cnv	PPIF	YES	33
265	mrna_PDE7A	mrna	PDE7A	YES	9
266	cnv_ISCU	cnv	ISCU	YES	18
266	mrna_KRT19P1	mrna	KRT19P1	NO	0
267	cnv_KCNK6	cnv	KCNK6	YES	18
268	cnv_CYP2S1	cnv	CYP2S1	YES	20
268	mrna_TRIM24	mrna	TRIM24	YES	42
269	cnv_DDAH1	cnv	DDAH1	YES	19
269	cnv_RNA5SP371	cnv	RNA5SP371	NO	0
270	cnv_RPL6	cnv	RPL6	YES	22
270	cnv_UNG	cnv	UNG	YES	19
271	stv_RPN1	stv	RPN1	YES	17
272	cnv_DNTTIP2	cnv	DNTTIP2	YES	5
272	meth_SULT1A2	meth	SULT1A2	YES	16
273	mrna_ZNF738	mrna	ZNF738	YES	8
273	stv_PSRC1	stv	PSRC1	YES	21
274	cnv_FAM109A	cnv	FAM109A	YES	13
275	cnv_COL6A5	cnv	COL6A5	YES	7
276	stv_FAM53C	stv	FAM53C	YES	1
277	mrna_CDYL	mrna	CDYL	YES	20
277	mrna_VANGL2	mrna	VANGL2	YES	57
278	cnv_MIR378G	cnv	MIR378G	NO	0
279	cnv_ATP5SL	cnv	ATP5SL	YES	1
279	meth_SLC26A7	meth	SLC26A7	YES	30
280	cnv_PEPD	cnv	PEPD	YES	14
280	mrna_STARD4	mrna	STARD4	YES	12
281	cnv_SNORA71|ENSG00000201393.1	cnv	SNORA71|ENSG00000201393.1	NO	0

281	mrna_ZNF524	mrna	ZNF524	YES	7
282	cnv_snoU13|ENSG00000238701.1	cnv	snoU13|ENSG00000238701.1	NO	0
283	cnv_CHIAP2	cnv	CHIAP2	NO	0
283	mrna_NCAPD2	mrna	NCAPD2	YES	22
284	cnv_C19orf54	cnv	C19orf54	NO	0
284	cnv_TCP11L2	cnv	TCP11L2	NO	0
285	mrna_BHMT2	mrna	BHMT2	YES	15
285	mrna_PNPLA8	mrna	PNPLA8	YES	29
286	cnv_TMCC1	cnv	TMCC1	YES	12
287	mrna_ELF4	mrna	ELF4	YES	20
287	mrna_RNF220	mrna	RNF220	YES	9
288	cnv_MAG	cnv	MAG	YES	32
288	mrna_MAPK8	mrna	MAPK8	YES	61
290	cnv_RN7SKP285	cnv	RN7SKP285	NO	0
291	cnv_ZFP30	cnv	ZFP30	YES	8
291	meth_NDRG1	meth	NDRG1	YES	29
293	cnv_CLCC1	cnv	CLCC1	YES	12
294	cnv_RN7SL824P	cnv	RN7SL824P	NO	0
294	mrna_PAK2	mrna	PAK2	YES	52
295	cnv_MIR619	cnv	MIR619	NO	0
295	mrna_SP2-AS1	mrna	SP2-AS1	NO	0
296	cnv_SEC24C	cnv	SEC24C	YES	24
297	cnv_SYNE4	cnv	SYNE4	YES	7
297	mrna_A2ML1	mrna	A2ML1	YES	9
298	mrna_GNA12	mrna	GNA12	YES	33
298	stv_FANCD2OS	stv	FANCD2OS	NO	0
299	stv_OR9G1	stv	OR9G1	YES	11
300	cnv_RN7SL663P	cnv	RN7SL663P	NO	0
300	mrna_PRCP	mrna	PRCP	YES	24
301	mrna_HCAR2	mrna	HCAR2	YES	14
301	stv_PIP4K2C	stv	PIP4K2C	YES	19
302	stv_TMEM65	stv	TMEM65	YES	8
303	cnv_ANKRD12	cnv	ANKRD12	YES	3
303	mrna_ZC3HAV1L	mrna	ZC3HAV1L	YES	2
304	cnv_CCSER2	cnv	CCSER2	YES	3
305	mrna_LMLN	mrna	LMLN	YES	15
306	cnv_DEDD2	cnv	DEDD2	YES	17
307	cnv_MIR197	cnv	MIR197	YES	1
308	cnv_NUTM2B	cnv	NUTM2B	NO	0
308	mrna_TAF4B	mrna	TAF4B	YES	24
309	cnv_CEACAM3	cnv	CEACAM3	YES	6
309	cnv_SORT1	cnv	SORT1	YES	52
310	cnv_SIRT1	cnv	SIRT1	YES	166
310	mrna_ADAM17	mrna	ADAM17	YES	60
311	cnv_CEBPG	cnv	CEBPG	YES	29
311	mrna_COL22A1	mrna	COL22A1	YES	5
312	cnv_RAB4B	cnv	RAB4B	YES	16
312	cnv_SLC16A4	cnv	SLC16A4	YES	9
313	cnv_PIK3R4	cnv	PIK3R4	YES	36
313	mrna_YEATS2	mrna	YEATS2	YES	9
314	cnv_SLC6A17	cnv	SLC6A17	YES	21
314	cnv_ZNF383	cnv	ZNF383	YES	10
315	mrna_MAD2L1	mrna	MAD2L1	YES	32
315	mrna_LINC00839	mrna	LINC00839	NO	0
316	cnv_LGALS13	cnv	LGALS13	YES	6
316	mrna_MYO19	mrna	MYO19	YES	15
317	cnv_CYP2B7P1	cnv	CYP2B7P1	NO	0
318	cnv_RYR1	cnv	RYR1	YES	55
318	cnv_TMEM56	cnv	TMEM56	YES	5
320	cnv_CHCHD1	cnv	CHCHD1	YES	14
320	cnv_GIT2	cnv	GIT2	YES	9
321	cnv_ADAM1A	cnv	ADAM1A	NO	0
321	cnv_BTBD8	cnv	BTBD8	YES	7
322	cnv_RN7SL860P	cnv	RN7SL860P	NO	0

322	mrna_PTH2R	mrna	PTH2R	YES	12
323	cnv_CLCA2	cnv	CLCA2	YES	23
323	mrna_FAM86C1	mrna	FAM86C1	YES	5
324	mrna_CYFIP1	mrna	CYFIP1	YES	57
325	cnv_DPF1	cnv	DPF1	YES	10
325	cnv_RN7SKP250	cnv	RN7SKP250	NO	0
326	cnv_LEUTX	cnv	LEUTX	YES	5
326	meth_GALT	meth	GALT	YES	15
327	cnv_ZNF30	cnv	ZNF30	YES	8
327	meth_HRSP12	meth	HRSP12	YES	6
328	mrna_GABRP	mrna	GABRP	YES	18
328	mrna_FTH1P20	mrna	FTH1P20	NO	0
329	mrna_RPS6KA2	mrna	RPS6KA2	YES	50
329	mrna_RBM19	mrna	RBM19	YES	10
330	mrna_DSC2	mrna	DSC2	YES	23
331	cnv_GBP7	cnv	GBP7	YES	4
331	mrna_PENK	mrna	PENK	YES	45
332	cnv_TIMM50	cnv	TIMM50	YES	22
332	mrna_RASGRF1	mrna	RASGRF1	YES	25
333	cnv_IFNL4	cnv	IFNL4	NO	0
333	cnv_WDR77	cnv	WDR77	YES	17
334	mrna_AC068282.3	mrna	AC068282.3	NO	0
335	meth_CDC42EP4	meth	CDC42EP4	YES	17
336	cnv_WDR63	cnv	WDR63	YES	5
336	mrna_GHR	mrna	GHR	YES	64
337	mrna_C6	mrna	C6	YES	15
337	mrna_TCAF1P1	mrna	TCAF1P1	NO	0
338	cnv_ZNF585A	cnv	ZNF585A	YES	7
338	mrna_RAPGEF3	mrna	RAPGEF3	YES	35
339	cnv_CTNNA3	cnv	CTNNA3	YES	15
340	mrna_ZNF800	mrna	ZNF800	YES	6
340	mrna_ZNF280C	mrna	ZNF280C	YES	7
341	mrna_MEX3A	mrna	MEX3A	YES	7
341	stv_XRRA1	stv	XRRA1	YES	6
342	cnv_CEP89	cnv	CEP89	YES	20
342	cnv_DUPD1	cnv	DUPD1	YES	9
343	cnv_MICU1	cnv	MICU1	YES	24
343	mrna_ZNF488	mrna	ZNF488	YES	10
344	cnv_SAMD8	cnv	SAMD8	YES	20
344	mrna_PPP2R3A	mrna	PPP2R3A	YES	13
345	cnv_SPTBN4	cnv	SPTBN4	YES	51
346	cnv_LINC00906	cnv	LINC00906	NO	0
346	meth_LY6E	meth	LY6E	YES	9
347	cnv_PALMD	cnv	PALMD	YES	6
347	mrna_UGT8	mrna	UGT8	YES	21
348	cnv_VCAM1	cnv	VCAM1	YES	49
348	mrna_TRMT6	mrna	TRMT6	YES	7
349	cnv_ZNF526	cnv	ZNF526	YES	6
350	meth_TMEM70	meth	TMEM70	YES	8
350	mrna_RAB29	mrna	RAB29	YES	47
351	mrna_CD36	mrna	CD36	YES	108
352	cnv_CRY1	cnv	CRY1	YES	43
352	mrna_HIP1R	mrna	HIP1R	YES	57
353	mrna_KRT5	mrna	KRT5	YES	18
354	cnv_B3GNT8	cnv	B3GNT8	YES	13
354	mrna_ANGPTL1	mrna	ANGPTL1	YES	5
355	cnv_GLMN	cnv	GLMN	YES	21
355	mrna_DSG1	mrna	DSG1	YES	30
356	cnv_ACTBP12	cnv	ACTBP12	NO	0
356	mrna_UBN2	mrna	UBN2	YES	3
357	cnv_WDR88	cnv	WDR88	YES	1
357	mrna_KIAA0226	mrna	KIAA0226	YES	9
358	mrna_ZNF229	mrna	ZNF229	YES	8
358	stv_CERS2	stv	CERS2	YES	15

359	cnv_ADK	cnv	ADK	YES	20
359	meth_DERL1	meth	DERL1	YES	40
360	cnv_C19orf33	cnv	C19orf33	YES	4
360	cnv_EID2	cnv	EID2	YES	17
361	cnv_SDHAF1	cnv	SDHAF1	YES	4
361	mrna_RTKN2	mrna	RTKN2	YES	4
362	cnv_ZNF574	cnv	ZNF574	YES	6
362	stv_RP11-472B18.1	stv	RP11-472B18.1	NO	0
363	mrna_HNRNPLL	mrna	HNRNPLL	YES	10
364	mrna_MKRN3	mrna	MKRN3	YES	6
365	cnv_C10orf11	cnv	C10orf11	YES	1
365	cnv_ZNF546	cnv	ZNF546	YES	10
366	cnv_C19orf55	cnv	C19orf55	NO	0
366	mrna_PLIN4	mrna	PLIN4	YES	6
367	cnv_DDX21	cnv	DDX21	YES	25
368	cnv_CAPN12	cnv	CAPN12	YES	9
368	cnv_ZNF850	cnv	ZNF850	YES	7
369	cnv_LSM14A	cnv	LSM14A	YES	15
369	stv_FLG2	stv	FLG2	YES	11
370	cnv_snoU13|ENSG00000238838.1	cnv	snoU13|ENSG00000238838.1	NO	0
371	mrna_REM1	mrna	REM1	YES	12
371	mrna_PPP4R1	mrna	PPP4R1	YES	8
372	cnv_FAM216A	cnv	FAM216A	NO	0
372	mrna_DNMBP-AS1	mrna	DNMBP-AS1	NO	0
373	cnv_TET1	cnv	TET1	YES	20
373	mrna_CACNA1A	mrna	CACNA1A	YES	68
374	meth_SNX16	meth	SNX16	YES	19
374	mrna_ZNF492	mrna	ZNF492	YES	7
375	mrna_MUTYH	mrna	MUTYH	YES	20
376	cnv_DPY19L3	cnv	DPY19L3	YES	7
377	mrna_TMEM39B	mrna	TMEM39B	YES	2
378	cnv_MCM2	cnv	MCM2	YES	30
378	mrna_ALDH1L1	mrna	ALDH1L1	YES	15
379	cnv_ZNF676	cnv	ZNF676	YES	7
379	mrna_CXorf22	mrna	CXorf22	NO	0
380	cnv_SPRED3	cnv	SPRED3	YES	5
380	mrna_DDX11	mrna	DDX11	YES	60
381	mrna_PRTFDC1	mrna	PRTFDC1	YES	8
381	mrna_C8orf31	mrna	C8orf31	NO	0
383	meth_ODF1	meth	ODF1	YES	7
383	mrna_NCAM1	mrna	NCAM1	YES	23
384	mrna_CDKN2A	mrna	CDKN2A	YES	65
384	mrna_RP11-66B24.2	mrna	RP11-66B24.2	NO	0
385	cnv_LINC00668	cnv	LINC00668	NO	0
386	cnv_DNAJB12	cnv	DNAJB12	YES	13
387	meth_TMC7	meth	TMC7	YES	4
388	cnv_ATXN7L2	cnv	ATXN7L2	NO	0
388	meth_OXR1	meth	OXR1	YES	14
389	mrna_EMC10	mrna	EMC10	YES	4
389	mrna_COG5	mrna	COG5	YES	14
390	cnv_LINC00948	cnv	LINC00948	NO	0
390	cnv_snoR442|ENSG00000252203.1	cnv	snoR442|ENSG00000252203.1	NO	0
391	cnv_PRDM4	cnv	PRDM4	YES	21
391	mrna_PLEKHF2	mrna	PLEKHF2	YES	9
392	cnv_PPM1J	cnv	PPM1J	YES	5
392	mrna_NIPSNAP3B	mrna	NIPSNAP3B	YES	1
393	cnv_RN7SL387P	cnv	RN7SL387P	NO	0
393	stv_KLHL13	stv	KLHL13	YES	9
394	cnv_LIPE	cnv	LIPE	YES	21
395	mrna_SAA1	mrna	SAA1	YES	25
396	cnv_PROK1	cnv	PROK1	YES	9
396	cnv_SNORD50|ENSG00000202335.1	cnv	SNORD50|ENSG00000202335.1	NO	0
397	cnv_LPAR3	cnv	LPAR3	YES	22
398	cnv_ZNF181	cnv	ZNF181	YES	8

398	mrna_FAM57A	mrna	FAM57A	YES	5
399	cnv_DDX20	cnv	DDX20	YES	38
399	mrna_DCLRE1B	mrna	DCLRE1B	YES	31
400	cnv_GPATCH1	cnv	GPATCH1	YES	4
400	cnv_ZFP82	cnv	ZFP82	YES	8
401	meth_MAF1	meth	MAF1	YES	20
402	cnv_RGS9BP	cnv	RGS9BP	YES	7
402	stv_TM9SF4	stv	TM9SF4	YES	13
403	meth_DOLK	meth	DOLK	YES	13
404	cnv_MIR1296	cnv	MIR1296	YES	1
404	meth_MZT2A	meth	MZT2A	YES	8
405	cnv_HNRNPUL1	cnv	HNRNPUL1	YES	15
406	cnv_CIC	cnv	CIC	YES	8
406	mrna_C6orf57	mrna	C6orf57	YES	2
407	cnv_ECD	cnv	ECD	YES	17
407	cnv_RN7SL692P	cnv	RN7SL692P	NO	0
408	cnv_GNAI3	cnv	GNAI3	YES	40
408	mrna_PIK3CA	mrna	PIK3CA	YES	67
409	cnv_LGALS7B	cnv	LGALS7B	YES	8
409	meth_CLIC1	meth	CLIC1	YES	29
410	cnv_ADAMTS14	cnv	ADAMTS14	YES	11
411	cnv_ZNF326	cnv	ZNF326	YES	17
411	mrna_SHOC2	mrna	SHOC2	YES	13
412	cnv_KIAA1324	cnv	KIAA1324	YES	18
412	mrna_RP11-1060J15.4	mrna	RP11-1060J15.4	NO	0
413	cnv_ISY1	cnv	ISY1	YES	17
413	cnv_SLC16A9	cnv	SLC16A9	YES	11
414	cnv_TGFB1	cnv	TGFB1	YES	229
415	cnv_DDX50	cnv	DDX50	YES	13
415	mrna_ACACB	mrna	ACACB	YES	38
416	mrna_CNOT4	mrna	CNOT4	YES	15
416	stv_C14orf159	stv	C14orf159	YES	9
417	cnv_RUFY2	cnv	RUFY2	YES	2
418	mrna_NMB	mrna	NMB	YES	14
418	mrna_RP11-440D17.4	mrna	RP11-440D17.4	NO	0
419	mirna_MIR576	mirna	MIR576	YES	1
419	stv_ANKRD46	stv	ANKRD46	YES	2
420	cnv_FFAR2	cnv	FFAR2	YES	26
421	cnv_HIAT1	cnv	HIAT1	YES	4
421	cnv_RN7SL150P	cnv	RN7SL150P	NO	0
422	cnv_LINC00856	cnv	LINC00856	NO	0
423	cnv_snoU13|ENSG00000239000.1	cnv	snoU13|ENSG00000239000.1	NO	0
423	mrna_FGFRL1	mrna	FGFRL1	YES	17
424	cnv_GLUD1P3	cnv	GLUD1P3	NO	0
425	mrna_GPR125	mrna	GPR125	YES	9
425	mrna_SEP15	mrna	SEP15	NO	0
426	cnv_ARHGAP33	cnv	ARHGAP33	YES	16
426	mrna_TSPAN12	mrna	TSPAN12	YES	9
427	mrna_ZNF286B	mrna	ZNF286B	YES	7
428	cnv_CNFN	cnv	CNFN	YES	4
429	cnv_FNDC7	cnv	FNDC7	YES	2
429	meth_HRK	meth	HRK	YES	9
430	mrna_NAALAD2	mrna	NAALAD2	YES	17
430	mrna_ADIPOQ	mrna	ADIPOQ	YES	92
431	cnv_DPH5	cnv	DPH5	YES	8
431	mrna_RAB35	mrna	RAB35	YES	34
432	mrna_SLC16A1	mrna	SLC16A1	YES	30
433	cnv_IGF1R1	cnv	IGF1R1	YES	4
434	cnv_RN7SL789P	cnv	RN7SL789P	NO	0
434	cnv_SNORA66|ENSG00000251795.1	cnv	SNORA66|ENSG00000251795.1	NO	0
435	cnv_OVOL3	cnv	OVOL3	YES	8
436	cnv_RPF1	cnv	RPF1	YES	12
437	mrna_NDUFS5	mrna	NDUFS5	YES	10
438	cnv_ERF	cnv	ERF	YES	14

440	cnv_CLIP3	cnv	CLIP3	YES	25
440	cnv_NRG3	cnv	NRG3	YES	21
441	cnv_ACAD9	cnv	ACAD9	YES	12
441	cnv_MIR5196	cnv	MIR5196	NO	0
442	mrna_CTC-459F4.9	mrna	CTC-459F4.9	NO	0
443	cnv_NUMBL	cnv	NUMBL	YES	13
443	mrna_RDH5	mrna	RDH5	YES	12
444	cnv_USP54	cnv	USP54	YES	3
444	mrna_APLF	mrna	APLF	YES	19
445	cnv_RTKN2	cnv	RTKN2	YES	4
446	meth_ZNF623	meth	ZNF623	YES	7
446	mrna_TCN1	mrna	TCN1	YES	11
447	cnv_NCCRP1	cnv	NCCRP1	YES	3
448	cnv_GNG5	cnv	GNG5	YES	15
448	cnv_TACR2	cnv	TACR2	YES	26
449	cnv_BTBD11	cnv	BTBD11	YES	10
449	cnv_GPSM2	cnv	GPSM2	YES	32
450	cnv_PLXNA1	cnv	PLXNA1	YES	16
450	cnv_SNX7	cnv	SNX7	YES	12
451	cnv_DPYD	cnv	DPYD	YES	26
452	cnv_CNBP	cnv	CNBP	YES	22
452	mrna_AC016995.3	mrna	AC016995.3	NO	0
453	cnv_TYSND1	cnv	TYSND1	YES	11
454	cnv_RNA5SP471	cnv	RNA5SP471	NO	0
455	cnv_COL24A1	cnv	COL24A1	YES	7
455	cnv_ZNF100	cnv	ZNF100	YES	7
456	cnv_GP9	cnv	GP9	YES	10
456	cnv_MBD4	cnv	MBD4	YES	19
457	cnv_TRPV4	cnv	TRPV4	YES	84
457	stv_IFFO1	stv	IFFO1	YES	2
458	cnv_RN7SL537P	cnv	RN7SL537P	NO	0
458	meth_UNG	meth	UNG	YES	19
459	meth_PTPN21	meth	PTPN21	YES	10
459	mrna_C1orf186	mrna	C1orf186	YES	3
460	cnv_IFNL2	cnv	IFNL2	YES	11
461	cnv_PPP4R1	cnv	PPP4R1	YES	8
461	cnv_TBATA	cnv	TBATA	YES	6
462	cnv_PTPRM	cnv	PTPRM	YES	30
462	cnv_RN7SL220P	cnv	RN7SL220P	NO	0
463	cnv_RN7SL50P	cnv	RN7SL50P	NO	0
463	mrna_DGAT2	mrna	DGAT2	YES	36
464	cnv_EXOSC5	cnv	EXOSC5	YES	25
464	meth_TRMT11	meth	TRMT11	YES	9
465	cnv_TMEM147	cnv	TMEM147	YES	6
465	stv_PCGF3	stv	PCGF3	YES	9
466	meth_MTFR1	meth	MTFR1	YES	6
467	mrna_XPNPEP2	mrna	XPNPEP2	YES	13
467	mrna_CC2D1B	mrna	CC2D1B	YES	10
468	cnv_PLAU	cnv	PLAU	YES	30
468	stv_OR56B4	stv	OR56B4	YES	11
469	mirna_MIR577	mirna	MIR577	NO	0
469	mrna_FAM90A1	mrna	FAM90A1	YES	2
470	cnv_DDIT4	cnv	DDIT4	YES	24
470	meth_AMY2B	meth	AMY2B	YES	11
471	cnv_ZNF208	cnv	ZNF208	YES	8
471	stv_DTX2	stv	DTX2	YES	10
472	meth_CYP2S1	meth	CYP2S1	YES	20
472	mrna_LAMTOR1	mrna	LAMTOR1	YES	34
473	cnv_CAMK2G	cnv	CAMK2G	YES	43
473	mrna_CSPG4	mrna	CSPG4	YES	30
474	cnv_GSK3A	cnv	GSK3A	YES	62
475	mrna_PQLC2L	mrna	PQLC2L	NO	0
476	cnv_MAT1A	cnv	MAT1A	YES	15
476	mrna_MYO10	mrna	MYO10	YES	34

477	cnv_STRIP1	cnv	STRIP1	YES	8
477	mrna_DDX23	mrna	DDX23	YES	22
478	mrna_GATA6	mrna	GATA6	YES	68
478	mrna_AKIRIN1	mrna	AKIRIN1	YES	4
479	mrna_GPR113	mrna	GPR113	YES	8
480	meth_FBXO33	meth	FBXO33	YES	2
481	cnv_ACAD10	cnv	ACAD10	YES	11
481	stv_WBSCR27	stv	WBSCR27	YES	2
482	mrna_MALT1	mrna	MALT1	YES	42
483	mrna_ATAD5	mrna	ATAD5	YES	8
484	meth_ITGA2B	meth	ITGA2B	YES	24
485	mrna_ME2	mrna	ME2	YES	16
485	mrna_ETV3	mrna	ETV3	YES	20
486	cnv_FUT11	cnv	FUT11	YES	13
486	mrna_ITFG1	mrna	ITFG1	YES	4
487	cnv_COL6A4P2	cnv	COL6A4P2	NO	0
487	mrna_RIOK1	mrna	RIOK1	YES	19
488	cnv_ACACB	cnv	ACACB	YES	38
489	cnv_RN7SKP123	cnv	RN7SKP123	NO	0
489	meth_ETHE1	meth	ETHE1	YES	14
490	cnv_TMED5	cnv	TMED5	YES	13
491	mrna_TRHDE	mrna	TRHDE	YES	18
491	mrna_SAA2	mrna	SAA2	YES	8
492	cnv_CHST8	cnv	CHST8	YES	13
493	cnv_SPATA1	cnv	SPATA1	NO	0
493	cnv_ZNF780B	cnv	ZNF780B	YES	8
494	meth_MRPL15	meth	MRPL15	YES	13
495	cnv_LRRC30	cnv	LRRC30	YES	1
495	mrna_C12orf43	mrna	C12orf43	YES	1
498	cnv_RNA5SP449	cnv	RNA5SP449	NO	0
498	cnv_ZNF829	cnv	ZNF829	YES	8
499	meth_PIGO	meth	PIGO	YES	14
500	cnv_SNORA68|ENSG00000201388.1	cnv	SNORA68|ENSG00000201388.1	NO	0
501	cnv_ABCD3	cnv	ABCD3	YES	26
501	cnv_COL11A1	cnv	COL11A1	YES	29
502	cnv_RN7SL518P	cnv	RN7SL518P	NO	0
503	cnv_CYP2A13	cnv	CYP2A13	YES	21
503	cnv_SAMD4B	cnv	SAMD4B	YES	12
504	mrna_PTCHD1	mrna	PTCHD1	YES	8
504	mrna_MARCH3	mrna	MARCH3	YES	12
505	cnv_RHO	cnv	RHO	YES	38
506	meth_CDIPT	meth	CDIPT	YES	19
506	stv_ECEL1	stv	ECEL1	YES	11
507	stv_CMPK2	stv	CMPK2	YES	18
508	meth_NFS1	meth	NFS1	YES	21
508	mrna_UNC5A	mrna	UNC5A	YES	15
509	cnv_DLL3	cnv	DLL3	YES	13
509	cnv_RN7SKP71	cnv	RN7SKP71	NO	0
511	cnv_PALD1	cnv	PALD1	YES	9
511	mrna_ACAD10	mrna	ACAD10	YES	11
512	cnv_GMFG	cnv	GMFG	YES	16
512	mrna_PLEKHF1	mrna	PLEKHF1	YES	18
513	cnv_SLC7A10	cnv	SLC7A10	YES	19
514	cnv_EGLN2	cnv	EGLN2	YES	23
515	cnv_EIF5AL1	cnv	EIF5AL1	YES	17
515	cnv_ZNF429	cnv	ZNF429	YES	8
517	cnv_BCL10	cnv	BCL10	YES	67
518	cnv_RBM15	cnv	RBM15	YES	16
518	mrna_NIPA2	mrna	NIPA2	YES	10
519	meth_FAM19A2	meth	FAM19A2	YES	1
520	stv_REM1	stv	REM1	YES	12
521	cnv_PPA1	cnv	PPA1	YES	11
521	mrna_RARG	mrna	RARG	YES	62
522	cnv_CCDC18	cnv	CCDC18	YES	1

522	stv_ANKRD30BP1	stv	ANKRD30BP1	NO	0
523	cnv_H2AFY2	cnv	H2AFY2	YES	25
525	mrna_NFYC	mrna	NFYC	YES	23
525	mrna_SLC25A22	mrna	SLC25A22	YES	15
526	cnv_GAPDHS	cnv	GAPDHS	YES	18
527	stv_SLC15A4	stv	SLC15A4	YES	16
528	cnv_WSCD2	cnv	WSCD2	YES	2
528	mrna_FTH1P7	mrna	FTH1P7	NO	0
529	mrna_RP11-736K20.4	mrna	RP11-736K20.4	NO	0
530	cnv_HVCN1	cnv	HVCN1	YES	22
531	cnv_RN7SL769P	cnv	RN7SL769P	NO	0
531	cnv_ZNF507	cnv	ZNF507	YES	6
533	cnv_CEACAM1	cnv	CEACAM1	YES	69
534	cnv_FAM98C	cnv	FAM98C	YES	1
534	cnv_HS2ST1	cnv	HS2ST1	YES	10
535	mrna_LSAMP	mrna	LSAMP	YES	10
536	cnv_SNORD98	cnv	SNORD98	NO	0
537	mrna_MXD4	mrna	MXD4	YES	9
537	mrna_RP11-566E18.1	mrna	RP11-566E18.1	NO	0
538	cnv_GPR61	cnv	GPR61	YES	10
538	mrna_HSP90B1	mrna	HSP90B1	YES	44
540	cnv_LIN37	cnv	LIN37	YES	5
541	cnv_AMY2B	cnv	AMY2B	YES	11
541	mrna_ZIC4	mrna	ZIC4	YES	4
542	cnv_MIR3922	cnv	MIR3922	NO	0
542	mrna_NCK2	mrna	NCK2	YES	36
543	meth_GFRA1	meth	GFRA1	YES	18
544	mrna_APBA2	mrna	APBA2	YES	12
544	mrna_ZNF462	mrna	ZNF462	YES	10
545	mrna_NAPEPLD	mrna	NAPEPLD	YES	19
546	cnv_DYDC1	cnv	DYDC1	YES	6
546	mrna_CYP1B1	mrna	CYP1B1	YES	53
547	mirna_MIR1910	mirna	MIR1910	NO	0
547	mrna_STYK1	mrna	STYK1	YES	24
548	cnv_OAS1	cnv	OAS1	YES	26
548	mrna_LTBP3	mrna	LTBP3	YES	13
549	cnv_RGR	cnv	RGR	YES	15
549	mrna_ZNF93	mrna	ZNF93	YES	11
550	stv_FRMD4B	stv	FRMD4B	YES	5
551	cnv_AHCYL1	cnv	AHCYL1	YES	27
551	mrna_FUCA1	mrna	FUCA1	YES	16
552	cnv_ALG1L2	cnv	ALG1L2	YES	6
552	stv_HNRNPH1	stv	HNRNPH1	YES	18
553	cnv_GSTM5	cnv	GSTM5	YES	9
554	mrna_LEP	mrna	LEP	YES	112
555	mrna_ZWINT	mrna	ZWINT	YES	20
555	mrna_MEIS3P2	mrna	MEIS3P2	NO	0
557	cnv_DNA2	cnv	DNA2	YES	46
557	stv_RTKN	stv	RTKN	YES	14
558	cnv_SGPL1	cnv	SGPL1	YES	37
558	cnv_WTIP	cnv	WTIP	YES	20
559	cnv_FXYD1	cnv	FXYD1	YES	27
559	stv_LAMC3	stv	LAMC3	YES	11
560	cnv_CEA	cnv	CEA	NO	0
561	cnv_PTPN11	cnv	PTPN11	YES	85
561	mrna_ARNTL2	mrna	ARNTL2	YES	18
562	cnv_ANK3	cnv	ANK3	YES	64
563	meth_IMPA1	meth	IMPA1	YES	23
564	cnv_CAPZA1	cnv	CAPZA1	YES	20
564	mrna_TTLL4	mrna	TTLL4	YES	15
565	mrna_FABP4	mrna	FABP4	YES	20
565	stv_MRPS35	stv	MRPS35	YES	10
566	mrna_RP11-157G21.2	mrna	RP11-157G21.2	NO	0
567	mrna_MSANTD3	mrna	MSANTD3	YES	1

568	cnv_MIR4497	cnv	MIR4497	NO	0
568	cnv_RN7SL235P	cnv	RN7SL235P	NO	0
569	cnv_RNA5SP450	cnv	RNA5SP450	NO	0
570	cnv_TMEM167B	cnv	TMEM167B	YES	7
570	cnv_VCL	cnv	VCL	YES	53
571	mrna_ACAP2	mrna	ACAP2	YES	10
572	cnv_NUTM2E	cnv	NUTM2E	NO	0
573	cnv_ALKBH2	cnv	ALKBH2	YES	18
574	cnv_GBP1	cnv	GBP1	YES	31
575	meth_ITGA6	meth	ITGA6	YES	52
575	mrna_CRY2	mrna	CRY2	YES	43
576	cnv_DYDC2	cnv	DYDC2	YES	5
577	cnv_GPI	cnv	GPI	YES	46
580	cnv_VDAC2	cnv	VDAC2	YES	23
581	mrna_FZD4	mrna	FZD4	YES	50
582	cnv_RPAP2	cnv	RPAP2	YES	17
582	mrna_ORC6	mrna	ORC6	YES	13
583	cnv_RPS24	cnv	RPS24	YES	28
583	stv_FKBP4	stv	FKBP4	YES	43
584	mrna_LENG9	mrna	LENG9	YES	2
585	cnv_C12orf23	cnv	C12orf23	YES	1
585	cnv_ZNF365	cnv	ZNF365	YES	10
586	stv_PSMD5	stv	PSMD5	YES	32
587	cnv_CEACAM4	cnv	CEACAM4	YES	4
587	meth_UHRF1	meth	UHRF1	YES	40
588	cnv_PRODH2	cnv	PRODH2	YES	11
589	mrna_GPR161	mrna	GPR161	YES	15
589	mrna_RP11-283G6.4	mrna	RP11-283G6.4	NO	0
590	mrna_AQP7	mrna	AQP7	YES	22
591	mrna_BEND3P1	mrna	BEND3P1	NO	0
592	mrna_CEP83-AS1	mrna	CEP83-AS1	NO	0
593	mrna_SART3	mrna	SART3	YES	27
593	mrna_CTC-463A16.1	mrna	CTC-463A16.1	NO	0
594	mrna_GPAM	mrna	GPAM	YES	34
595	cnv_GPN3	cnv	GPN3	YES	9
595	mrna_FIGNL1	mrna	FIGNL1	YES	20
596	meth_ZNF517	meth	ZNF517	YES	7
596	mrna_HYOU1	mrna	HYOU1	YES	21
597	mrna_ATF7	mrna	ATF7	YES	15
598	cnv_KIRREL2	cnv	KIRREL2	YES	9
598	cnv_LGALS7	cnv	LGALS7	YES	8
599	cnv_PIFO	cnv	PIFO	YES	15
601	cnv_AMY1C	cnv	AMY1C	YES	13
601	mrna_RP11-736K20.5	mrna	RP11-736K20.5	NO	0
602	mrna_LIPE	mrna	LIPE	YES	21
602	mrna_TMSB15A	mrna	TMSB15A	YES	6
603	cnv_ATP2C1	cnv	ATP2C1	YES	27
604	cnv_NUDT16	cnv	NUDT16	YES	38
604	mrna_THEG	mrna	THEG	YES	6
605	mrna_RLF	mrna	RLF	YES	14
605	mrna_ETV6	mrna	ETV6	YES	25
606	cnv_LRRTM3	cnv	LRRTM3	YES	13
607	mrna_HGD	mrna	HGD	YES	13
608	meth_FLJ27354	meth	FLJ27354	NO	0
609	mrna_TEX10	mrna	TEX10	YES	11
610	mrna_NBPF2P	mrna	NBPF2P	NO	0
611	mrna_KCNQ1	mrna	KCNQ1	YES	69
611	mrna_AADAT	mrna	AADAT	YES	18
612	cnv_UBA2	cnv	UBA2	YES	21
613	cnv_COPG1	cnv	COPG1	YES	21
613	mrna_ZNF512	mrna	ZNF512	YES	6
614	mrna_TXNDC12	mrna	TXNDC12	YES	10
615	stv_DIRC2	stv	DIRC2	YES	6
616	cnv_ZNHIT6	cnv	ZNHIT6	YES	12

616	meth_ZNF16	meth	ZNF16	YES	19
618	cnv_IFNL3	cnv	IFNL3	YES	12
619	cnv_TMEM91	cnv	TMEM91	YES	7
620	cnv_FXYD7	cnv	FXYD7	YES	14
620	mrna_ABCA9	mrna	ABCA9	YES	12
621	cnv_PAF1	cnv	PAF1	YES	31
622	mrna_OGFRL1	mrna	OGFRL1	YES	2
623	cnv_MCOLN2	cnv	MCOLN2	YES	7
624	cnv_CDC7	cnv	CDC7	YES	28
624	cnv_ZNF43	cnv	ZNF43	YES	8
625	cnv_B9D2	cnv	B9D2	YES	17
625	mrna_EEF1A1P5	mrna	EEF1A1P5	NO	0
626	meth_ABCF1	meth	ABCF1	YES	17
628	cnv_LGALS14	cnv	LGALS14	YES	5
629	cnv_ZNF302	cnv	ZNF302	YES	9
629	meth_POLR2K	meth	POLR2K	YES	35
630	cnv_CCAR1	cnv	CCAR1	YES	17
630	cnv_MYOZ1	cnv	MYOZ1	YES	10
631	cnv_CYR61	cnv	CYR61	YES	49
632	cnv_RN7SKP202	cnv	RN7SKP202	NO	0
632	cnv_TRH	cnv	TRH	YES	24
633	cnv_POLR3B	cnv	POLR3B	YES	19
633	mrna_SPPL3	mrna	SPPL3	YES	27
634	cnv_snoU13|ENSG00000238975.1	cnv	snoU13|ENSG00000238975.1	NO	0
634	meth_AGL	meth	AGL	YES	30
635	meth_COQ3	meth	COQ3	YES	18
636	cnv_RPN1	cnv	RPN1	YES	17
637	mrna_COL6A6	mrna	COL6A6	YES	7
638	cnv_CMKLR1	cnv	CMKLR1	YES	20
639	cnv_HNRNPH3	cnv	HNRNPH3	YES	13
639	mrna_ADAMTS15	mrna	ADAMTS15	YES	14
640	cnv_TPRA1	cnv	TPRA1	YES	8
641	cnv_C1orf180	cnv	C1orf180	NO	0
641	cnv_NFKBID	cnv	NFKBID	YES	10
642	cnv_EEFSEC	cnv	EEFSEC	YES	14
643	cnv_EPHX4	cnv	EPHX4	YES	4
643	cnv_KIAA1033	cnv	KIAA1033	YES	3
644	mrna_PARD3	mrna	PARD3	YES	39
645	mrna_FANCB	mrna	FANCB	YES	7
646	cnv_snoU13|ENSG00000239031.1	cnv	snoU13|ENSG00000239031.1	NO	0
646	stv_PLEKHG7	stv	PLEKHG7	YES	3
647	cnv_ACPP	cnv	ACPP	YES	31
648	cnv_CYB561D1	cnv	CYB561D1	YES	4
649	cnv_GSTM2	cnv	GSTM2	YES	27
650	cnv_COMTD1	cnv	COMTD1	YES	8
650	cnv_TMEM119	cnv	TMEM119	YES	19
651	mrna_DNAH3	mrna	DNAH3	YES	20
652	mrna_CTC-459F4.3	mrna	CTC-459F4.3	NO	0
653	cnv_NFKBIB	cnv	NFKBIB	YES	22
653	mrna_GLYAT	mrna	GLYAT	YES	13
654	cnv_SNORA31|ENSG00000252888.1	cnv	SNORA31|ENSG00000252888.1	NO	0
654	meth_EIF4EBP1	meth	EIF4EBP1	YES	24
655	cnv_HKDC1	cnv	HKDC1	YES	19
655	mrna_RP11-815I9.4	mrna	RP11-815I9.4	NO	0
656	cnv_RN7SL591P	cnv	RN7SL591P	NO	0
656	meth_TIMP2	meth	TIMP2	YES	39
657	cnv_YIF1B	cnv	YIF1B	YES	7
658	cnv_RNA5SP321	cnv	RNA5SP321	NO	0
659	cnv_SELPLG	cnv	SELPLG	YES	16
659	mrna_PTPRK	mrna	PTPRK	YES	40
660	cnv_RPSAP58	cnv	RPSAP58	YES	12
660	mrna_LRP12	mrna	LRP12	YES	12
661	cnv_BRAP	cnv	BRAP	YES	17
661	cnv_CD22	cnv	CD22	YES	7

662	cnv_LPPR4	cnv	LPPR4	NO	0
663	cnv_TTLL7	cnv	TTLL7	YES	19
663	meth_BCL10	meth	BCL10	YES	67
664	cnv_P4HA1	cnv	P4HA1	YES	19
665	mrna_EDEM1	mrna	EDEM1	YES	22
666	cnv_HIPK4	cnv	HIPK4	YES	16
666	mrna_CTC-444N24.8	mrna	CTC-444N24.8	NO	0
667	cnv_KCTD10	cnv	KCTD10	YES	11
667	mrna_ARHGAP26	mrna	ARHGAP26	YES	16
669	mrna_IGF1	mrna	IGF1	YES	91
670	cnv_CCDC97	cnv	CCDC97	YES	1
671	cnv_SLC25A16	cnv	SLC25A16	YES	11
671	mrna_LGR5	mrna	LGR5	YES	19
672	mrna_PI16	mrna	PI16	YES	4
674	cnv_C10orf107	cnv	C10orf107	NO	0
674	cnv_EID2B	cnv	EID2B	YES	6
675	meth_C9orf72	meth	C9orf72	YES	20
676	cnv_RPS19	cnv	RPS19	YES	41
677	meth_CPNE2	meth	CPNE2	YES	7
677	mrna_DNAH17	mrna	DNAH17	YES	21
678	cnv_DRAM2	cnv	DRAM2	YES	15
679	cnv_MIR3657	cnv	MIR3657	NO	0
680	cnv_WBP7	cnv	WBP7	NO	0
680	mrna_PGAP1	mrna	PGAP1	YES	20
681	cnv_POU2F2	cnv	POU2F2	YES	21
682	cnv_DMKN	cnv	DMKN	YES	4
683	mrna_JRKL	mrna	JRKL	YES	4
684	meth_E2F5	meth	E2F5	YES	19
684	stv_ALAS2	stv	ALAS2	YES	22
685	cnv_RMRPP1	cnv	RMRPP1	NO	0
685	meth_TPD52	meth	TPD52	YES	10
687	cnv_PCBD1	cnv	PCBD1	YES	21
687	mrna_UQCRFS1	mrna	UQCRFS1	YES	23
688	mrna_AQPEP	mrna	AQPEP	NO	0
689	stv_SH2D5	stv	SH2D5	YES	6
690	cnv_PRKACB	cnv	PRKACB	YES	39
690	cnv_U2AF1L4	cnv	U2AF1L4	YES	17
691	meth_CLGN	meth	CLGN	YES	12
691	mrna_CTC-559E9.1	mrna	CTC-559E9.1	NO	0
692	stv_FAM46B	stv	FAM46B	YES	1
693	cnv_ODF2L	cnv	ODF2L	YES	2
693	stv_COLEC11	stv	COLEC11	YES	11
694	cnv_FBXO27	cnv	FBXO27	YES	6
694	mrna_ZNF257	mrna	ZNF257	YES	8
695	mrna_LEMD3	mrna	LEMD3	YES	18
696	mrna_INHBB	mrna	INHBB	YES	33
697	mrna_SLC6A14	mrna	SLC6A14	YES	18
698	cnv_PPP3CB	cnv	PPP3CB	YES	46
698	mrna_PIGW	mrna	PIGW	YES	11
699	cnv_BRDT	cnv	BRDT	YES	18
699	cnv_RFX4	cnv	RFX4	YES	19
700	cnv_PLAC9	cnv	PLAC9	YES	2
701	cnv_C12orf76	cnv	C12orf76	YES	13
701	stv_NRIP1	stv	NRIP1	YES	32
703	cnv_RPL5	cnv	RPL5	YES	37
703	mrna_CHST2	mrna	CHST2	YES	15
704	cnv_GBP6	cnv	GBP6	YES	7
704	mrna_FAM171A1	mrna	FAM171A1	YES	3
705	cnv_ZNF730	cnv	ZNF730	YES	7
706	cnv_RN7SL491P	cnv	RN7SL491P	NO	0
706	mrna_ABCA6	mrna	ABCA6	YES	12
708	cnv_LRRC8B	cnv	LRRC8B	YES	15
711	cnv_CDC14A	cnv	CDC14A	YES	30
712	mirna_MIR4453	mirna	MIR4453	NO	0

712	mrna_BRAP	mrna	BRAP	YES	17
713	meth_FOS	meth	FOS	YES	64
713	mrna_SSB	mrna	SSB	YES	21
714	mrna_CRY1	mrna	CRY1	YES	43
714	mrna_AC009237.8	mrna	AC009237.8	NO	0
716	cnv_SAMD13	cnv	SAMD13	YES	3
716	mrna_LSM14A	mrna	LSM14A	YES	15
718	meth_DNAJC5B	meth	DNAJC5B	YES	2
719	cnv_HENMT1	cnv	HENMT1	YES	13
720	cnv_JMJD1C	cnv	JMJD1C	YES	18
720	mrna_PRKAB1	mrna	PRKAB1	YES	25
721	cnv_DENND2D	cnv	DENND2D	YES	7
721	mrna_AC000123.2	mrna	AC000123.2	NO	0
723	mrna_G0S2	mrna	G0S2	YES	8
724	mrna_FDCSP	mrna	FDCSP	YES	1
725	cnv_SIPA1L3	cnv	SIPA1L3	YES	15
726	cnv_BLVRB	cnv	BLVRB	YES	16
726	cnv_CNTD2	cnv	CNTD2	YES	4
727	cnv_COL13A1	cnv	COL13A1	YES	23
728	cnv_GLTP	cnv	GLTP	YES	14
728	mrna_COL4A5	mrna	COL4A5	YES	13
729	cnv_LAMTOR5	cnv	LAMTOR5	YES	19
732	mrna_CAPN6	mrna	CAPN6	YES	13
734	cnv_CLCA4	cnv	CLCA4	YES	19
736	cnv_GPR42	cnv	GPR42	YES	8
736	cnv_PSAP	cnv	PSAP	YES	41
738	cnv_MYL2	cnv	MYL2	YES	29
739	cnv_RNA5SP320	cnv	RNA5SP320	NO	0
739	mrna_CHMP2A	mrna	CHMP2A	YES	39
741	cnv_H1FX	cnv	H1FX	YES	8
741	cnv_PPP1R14A	cnv	PPP1R14A	YES	6
742	stv_ARHGAP18	stv	ARHGAP18	YES	14
744	meth_SOD2	meth	SOD2	YES	84
744	mrna_TMEM100	mrna	TMEM100	YES	25
745	mirna_MIR6877	mirna	MIR6877	NO	0
745	mrna_EEF1A1P12	mrna	EEF1A1P12	NO	0
747	cnv_NTNG1	cnv	NTNG1	YES	11
748	mrna_CLCN4	mrna	CLCN4	YES	22
750	stv_ACTN2	stv	ACTN2	YES	61
751	cnv_U7|ENSG00000272215.1	cnv	U7|ENSG00000272215.1	NO	0
751	mrna_DPY19L2P3	mrna	DPY19L2P3	NO	0
752	cnv_ZCCHC24	cnv	ZCCHC24	YES	4
753	mrna_UCK2	mrna	UCK2	YES	21
753	mrna_LINC00664	mrna	LINC00664	NO	0
754	cnv_EIF3K	cnv	EIF3K	YES	16
754	cnv_RN7SL862P	cnv	RN7SL862P	NO	0
755	cnv_KIAA0355	cnv	KIAA0355	NO	0
757	cnv_ARID5B	cnv	ARID5B	YES	34
758	cnv_U3|ENSG00000199666.1	cnv	U3|ENSG00000199666.1	NO	0
759	mrna_LINC01140	mrna	LINC01140	NO	0
760	meth_RP11-93B14.6	meth	RP11-93B14.6	NO	0
760	mrna_SFT2D2	mrna	SFT2D2	YES	8
763	mrna_ZNF485	mrna	ZNF485	YES	7
764	cnv_MGLL	cnv	MGLL	YES	27
764	mrna_GPR63	mrna	GPR63	YES	12
766	cnv_ZNF681	cnv	ZNF681	YES	8
768	meth_PSMB3	meth	PSMB3	YES	40
768	mirna_MIR6715A	mirna	MIR6715A	NO	0
769	cnv_SNORA40|ENSG00000264043.2	cnv	SNORA40|ENSG00000264043.2	NO	0
770	cnv_CTBS	cnv	CTBS	YES	12
771	cnv_ZNF571	cnv	ZNF571	YES	11
771	stv_FABP1	stv	FABP1	YES	31
772	mrna_TRIM2	mrna	TRIM2	YES	9
772	mrna_FIRRE	mrna	FIRRE	NO	0

773	cnv_RN7SKP270	cnv	RN7SKP270	NO	0
773	mrna_ERC1	mrna	ERC1	YES	21
774	mrna_CYP1B1-AS1	mrna	CYP1B1-AS1	NO	0
775	cnv_CEPT1	cnv	CEPT1	YES	16
775	mrna_IRGQ	mrna	IRGQ	YES	1
776	cnv_FICD	cnv	FICD	YES	9
778	mrna_FSCN1	mrna	FSCN1	YES	43
779	mirna_MIR6769A	mirna	MIR6769A	NO	0
780	cnv_ANAPC16	cnv	ANAPC16	YES	18
781	mrna_GLS	mrna	GLS	YES	18
782	mrna_CDC42EP4	mrna	CDC42EP4	YES	17
783	stv_EPHB3	stv	EPHB3	YES	43
784	cnv_LTBP4	cnv	LTBP4	YES	21
786	cnv_PLEKHF1	cnv	PLEKHF1	YES	18
787	cnv_ST7L	cnv	ST7L	YES	3
787	cnv_STXBP3	cnv	STXBP3	YES	27
789	cnv_RN7SL566P	cnv	RN7SL566P	NO	0
789	mrna_TNS2	mrna	TNS2	YES	19
790	mrna_ATP13A3	mrna	ATP13A3	YES	14
791	cnv_snoU13|ENSG00000238874.1	cnv	snoU13|ENSG00000238874.1	NO	0
792	cnv_TAF13	cnv	TAF13	YES	19
792	mrna_ZNF277	mrna	ZNF277	YES	9
793	cnv_COX7A1	cnv	COX7A1	YES	9
793	cnv_FCGBP	cnv	FCGBP	YES	3
794	cnv_APPL2	cnv	APPL2	YES	12
795	cnv_RNA5SP52	cnv	RNA5SP52	NO	0
796	mrna_TRNT1	mrna	TRNT1	YES	19
797	cnv_SERTAD3	cnv	SERTAD3	YES	7
797	stv_GSTT2B	stv	GSTT2B	YES	9
799	cnv_ECH1	cnv	ECH1	YES	12
800	mrna_DIABLO	mrna	DIABLO	YES	17
801	mrna_MCCC1	mrna	MCCC1	YES	21
802	cnv_BMS1P4	cnv	BMS1P4	NO	0
802	mrna_CDT1	mrna	CDT1	YES	35
803	cnv_HAUS5	cnv	HAUS5	YES	16
803	meth_RDH10	meth	RDH10	YES	30
807	cnv_snoU13|ENSG00000238296.1	cnv	snoU13|ENSG00000238296.1	NO	0
807	meth_TLL2	meth	TLL2	YES	14
808	mrna_DBN1	mrna	DBN1	YES	29
809	mrna_METTL7B	mrna	METTL7B	YES	4
811	meth_WNK4	meth	WNK4	YES	26
812	cnv_MBL1P	cnv	MBL1P	NO	0
812	mrna_TMEM132C	mrna	TMEM132C	YES	5
814	cnv_DAO	cnv	DAO	YES	23
815	mrna_CCNE1	mrna	CCNE1	YES	27
815	stv_CLASP1	stv	CLASP1	YES	62
817	mrna_SLC17A5	mrna	SLC17A5	YES	23
818	cnv_KRTDAP	cnv	KRTDAP	YES	6
819	cnv_UBE2D1	cnv	UBE2D1	YES	31
820	mrna_AKR1E2	mrna	AKR1E2	YES	8
821	cnv_RN7SL402P	cnv	RN7SL402P	NO	0
821	mrna_LPIN1	mrna	LPIN1	YES	35
822	stv_MARC2	stv	MARC2	YES	17
824	mrna_PDIA6	mrna	PDIA6	YES	23
827	mrna_ZIC1	mrna	ZIC1	YES	26
829	mrna_SLC25A24P2	mrna	SLC25A24P2	NO	0
830	cnv_KCNMA1	cnv	KCNMA1	YES	49
831	cnv_MYPN	cnv	MYPN	YES	15
831	mrna_MAGOH	mrna	MAGOH	YES	21
833	cnv_CYP2B6	cnv	CYP2B6	YES	22
833	cnv_PSMD8	cnv	PSMD8	YES	36
834	mrna_POU5F1B	mrna	POU5F1B	YES	9
835	mrna_EEF1A1P19	mrna	EEF1A1P19	NO	0
837	cnv_ASCC1	cnv	ASCC1	YES	10

838	cnv_MEGF8	cnv	MEGF8	YES	23
838	mrna_PPP1R14C	mrna	PPP1R14C	YES	6
839	stv_CHRD	stv	CHRD	YES	22
841	cnv_LINC00904	cnv	LINC00904	NO	0
841	mrna_SH3RF3	mrna	SH3RF3	YES	2
843	cnv_CLCA3P	cnv	CLCA3P	NO	0
843	cnv_UPK1A	cnv	UPK1A	YES	13
844	cnv_ETV2	cnv	ETV2	YES	25
845	cnv_SFTPA1	cnv	SFTPA1	YES	15
845	cnv_SNORA51|ENSG00000207022.1	cnv	SNORA51|ENSG00000207022.1	NO	0
847	cnv_SNORA11|ENSG00000221164.1	cnv	SNORA11|ENSG00000221164.1	NO	0
848	cnv_RN7SL441P	cnv	RN7SL441P	NO	0
848	cnv_ZNF99	cnv	ZNF99	YES	7
849	cnv_APCDD1	cnv	APCDD1	YES	9
849	meth_KIAA1586	meth	KIAA1586	YES	4
854	cnv_MIR5704	cnv	MIR5704	NO	0
854	meth_ALDH3A2	meth	ALDH3A2	YES	23
856	cnv_RHPN2	cnv	RHPN2	YES	4
857	mrna_FAM135A	mrna	FAM135A	YES	5
857	mrna_HRASLS2	mrna	HRASLS2	YES	10
858	cnv_LINC00849	cnv	LINC00849	NO	0
859	cnv_MIR4423	cnv	MIR4423	NO	0
860	cnv_EXTL2	cnv	EXTL2	YES	18
860	cnv_HKR1	cnv	HKR1	YES	9
861	cnv_PGCP1	cnv	PGCP1	NO	0
861	mrna_RP11-288C18.1	mrna	RP11-288C18.1	NO	0
864	cnv_RN7SL440P	cnv	RN7SL440P	NO	0
865	cnv_snoU13|ENSG00000239087.1	cnv	snoU13|ENSG00000239087.1	NO	0
866	cnv_VPS29	cnv	VPS29	YES	21
868	mrna_ZKSCAN1	mrna	ZKSCAN1	YES	9
869	cnv_PTBP2	cnv	PTBP2	YES	15
870	cnv_CATSPERG	cnv	CATSPERG	YES	10
870	cnv_LRRC20	cnv	LRRC20	YES	1
871	cnv_ZNF675	cnv	ZNF675	YES	22
871	mrna_FANCA	mrna	FANCA	YES	17
872	cnv_LGALS17A	cnv	LGALS17A	NO	0
873	meth_MGLL	meth	MGLL	YES	27
874	cnv_WNT2B	cnv	WNT2B	YES	23
875	cnv_GSTM1	cnv	GSTM1	YES	14
876	mrna_RNF34	mrna	RNF34	YES	28
877	cnv_PKN2	cnv	PKN2	YES	43
877	mrna_RP11-440D17.3	mrna	RP11-440D17.3	NO	0
878	cnv_ADCK4	cnv	ADCK4	YES	4
878	stv_C11orf95	stv	C11orf95	YES	1
880	cnv_ARPC3	cnv	ARPC3	YES	24
881	cnv_PPTC7	cnv	PPTC7	YES	6
881	meth_ATAD2	meth	ATAD2	YES	16
882	cnv_RIC8B	cnv	RIC8B	YES	10
883	cnv_RNA5SP54	cnv	RNA5SP54	NO	0
883	cnv_SSX2IP	cnv	SSX2IP	YES	21
884	stv_ZMAT3	stv	ZMAT3	YES	17
886	mrna_SCARB1	mrna	SCARB1	YES	60
887	meth_TRIP13	meth	TRIP13	YES	20
888	meth_SLC2A4	meth	SLC2A4	YES	46
891	cnv_CEACAM8	cnv	CEACAM8	YES	13
891	cnv_URI1	cnv	URI1	YES	24
893	cnv_ZNF729	cnv	ZNF729	YES	7
895	cnv_OAS3	cnv	OAS3	YES	26
897	cnv_SRGN	cnv	SRGN	YES	21
898	cnv_CCBL2	cnv	CCBL2	YES	13
899	mrna_ZC4H2	mrna	ZC4H2	YES	13
901	meth_IL17RD	meth	IL17RD	YES	12
901	meth_NRGN	meth	NRGN	YES	20
902	cnv_NBPF6	cnv	NBPF6	YES	1

902	mrna_PLXNA1	mrna	PLXNA1	YES	16
903	cnv_GTF2B	cnv	GTF2B	YES	23
905	cnv_ATP2A2	cnv	ATP2A2	YES	55
906	mrna_PRDM4	mrna	PRDM4	YES	21
907	mrna_ANKRD53	mrna	ANKRD53	YES	11
908	cnv_CNN3	cnv	CNN3	YES	16
908	mrna_WBP1L	mrna	WBP1L	YES	3
911	stv_MEPCE	stv	MEPCE	YES	12
913	mrna_ROBO3	mrna	ROBO3	YES	10
913	mrna_ZNF654	mrna	ZNF654	YES	6
914	cnv_SIRT2	cnv	SIRT2	YES	111
915	mrna_AC016739.2	mrna	AC016739.2	NO	0
916	cnv_SH2D4B	cnv	SH2D4B	YES	1
921	mrna_C19orf48	mrna	C19orf48	NO	0
922	cnv_ATP4A	cnv	ATP4A	YES	23
923	cnv_ZNF607	cnv	ZNF607	YES	9
924	cnv_CELSR2	cnv	CELSR2	YES	23
925	cnv_ZNF345	cnv	ZNF345	YES	11
925	cnv_ZNF570	cnv	ZNF570	YES	7
926	cnv_HK1	cnv	HK1	YES	31
926	cnv_SNORA2|ENSG00000199959.1	cnv	SNORA2|ENSG00000199959.1	NO	0
929	cnv_LGALS4	cnv	LGALS4	YES	6
930	cnv_ZNF146	cnv	ZNF146	YES	10
931	cnv_EIF4EBP2	cnv	EIF4EBP2	YES	18
932	cnv_CEACAMP3	cnv	CEACAMP3	NO	0
932	mrna_ITSN1	mrna	ITSN1	YES	37
933	cnv_ZNF257	cnv	ZNF257	YES	8
934	mrna_STEAP3	mrna	STEAP3	YES	24
937	cnv_KCND3	cnv	KCND3	YES	32
938	cnv_MIR760	cnv	MIR760	NO	0
938	mrna_TTF2	mrna	TTF2	YES	19
939	cnv_ANXA11	cnv	ANXA11	YES	27
940	mrna_NMT2	mrna	NMT2	YES	14
941	stv_TMEM184B	stv	TMEM184B	YES	4
942	cnv_SYPL2	cnv	SYPL2	YES	8
944	cnv_ZNF503	cnv	ZNF503	YES	9
945	cnv_ARHGAP29	cnv	ARHGAP29	YES	11
945	mrna_MPP6	mrna	MPP6	YES	6
946	cnv_NAPG	cnv	NAPG	YES	18
947	mrna_ITGB3BP	mrna	ITGB3BP	YES	22
948	cnv_SFTPA2	cnv	SFTPA2	YES	11
948	mrna_RP11-254F7.2	mrna	RP11-254F7.2	NO	0
949	stv_DVL1	stv	DVL1	YES	72
950	cnv_snoU13|ENSG00000251926.1	cnv	snoU13|ENSG00000251926.1	NO	0
951	meth_FAM49B	meth	FAM49B	YES	12
952	cnv_ZNF724P	cnv	ZNF724P	YES	7
952	meth_CLPB	meth	CLPB	YES	12
956	cnv_AMY2A	cnv	AMY2A	YES	15
957	cnv_CUX2	cnv	CUX2	YES	22
957	cnv_ZNF529	cnv	ZNF529	YES	7
958	cnv_FBXO17	cnv	FBXO17	YES	6
959	mrna_PRKAA2	mrna	PRKAA2	YES	63
960	mrna_MPZL1	mrna	MPZL1	YES	10
962	mrna_ANK2	mrna	ANK2	YES	73
963	mrna_ZMYM6NB	mrna	ZMYM6NB	YES	1
964	mrna_ZNF507	mrna	ZNF507	YES	6
965	cnv_ADORA3	cnv	ADORA3	YES	19
965	mrna_CLPB	mrna	CLPB	YES	12
970	meth_PDRG1	meth	PDRG1	YES	4
971	cnv_LMO4	cnv	LMO4	YES	22
972	cnv_RN7SL284P	cnv	RN7SL284P	NO	0
973	meth_FUT10	meth	FUT10	YES	23
974	mrna_BAG2	mrna	BAG2	YES	9
974	mrna_EHHADH	mrna	EHHADH	YES	22

977	mrna_SLCO5A1	mrna	SLCO5A1	YES	8
978	cnv_S1PR1	cnv	S1PR1	YES	44
978	mrna_KBTBD6	mrna	KBTBD6	YES	9
980	cnv_WDR47	cnv	WDR47	YES	5
984	cnv_SLC41A2	cnv	SLC41A2	YES	14
984	meth_MICB	meth	MICB	YES	20
985	cnv_KCNA10	cnv	KCNA10	YES	16
985	meth_MN1	meth	MN1	YES	7
989	meth_LAP3	meth	LAP3	YES	18
991	mrna_CYP4F8	mrna	CYP4F8	YES	18
992	mrna_MYCBP	mrna	MYCBP	YES	9
993	mrna_ABCA10	mrna	ABCA10	YES	11
994	meth_FGF9	meth	FGF9	YES	53
996	cnv_C1orf52	cnv	C1orf52	YES	2
997	mirna_MIR4762	mirna	MIR4762	NO	0
998	cnv_MTERFD3	cnv	MTERFD3	YES	7
999	mrna_MMP7	mrna	MMP7	YES	23
1000	cnv_ASCL4	cnv	ASCL4	YES	12
1001	cnv_RN7SL373P	cnv	RN7SL373P	NO	0
1001	mrna_UQCRHL	mrna	UQCRHL	YES	10
1003	meth_NIPAL2	meth	NIPAL2	YES	5
1004	meth_PEBP1	meth	PEBP1	YES	17
1005	cnv_CTTNBP2NL	cnv	CTTNBP2NL	YES	8
1006	mrna_MKLN1	mrna	MKLN1	YES	9
1007	cnv_SLC25A24P1	cnv	SLC25A24P1	NO	0
1009	cnv_ZNF536	cnv	ZNF536	YES	14
1011	mrna_CCDC106	mrna	CCDC106	YES	3
1012	mrna_EPS8L1	mrna	EPS8L1	YES	17
1015	mrna_PRRT4	mrna	PRRT4	YES	2
1017	stv_NSMCE2	stv	NSMCE2	YES	23
1018	cnv_MCU	cnv	MCU	YES	23
1019	cnv_SNORD112|ENSG00000252356.1	cnv	SNORD112|ENSG00000252356.1	NO	0
1019	mrna_TMOD1	mrna	TMOD1	YES	20
1023	cnv_DUSP13	cnv	DUSP13	YES	14
1023	cnv_snoU13|ENSG00000239176.1	cnv	snoU13|ENSG00000239176.1	NO	0
1024	cnv_SLC35A3	cnv	SLC35A3	YES	13
1025	mrna_TRAFD1	mrna	TRAFD1	YES	4
1026	cnv_CYP2F1	cnv	CYP2F1	YES	22
1026	cnv_RABAC1	cnv	RABAC1	YES	13
1028	mrna_VASH2	mrna	VASH2	YES	10
1031	mrna_RNF216	mrna	RNF216	YES	16
1032	cnv_NEUROG3	cnv	NEUROG3	YES	35
1032	mrna_SH3BP5	mrna	SH3BP5	YES	10
1034	mrna_SOCS2-AS1	mrna	SOCS2-AS1	NO	0
1036	cnv_ZNF568	cnv	ZNF568	YES	9
1039	cnv_DNAJC12	cnv	DNAJC12	YES	2
1039	mrna_NR1H2	mrna	NR1H2	YES	49
1041	cnv_MIR1280	cnv	MIR1280	NO	0
1042	cnv_RINL	cnv	RINL	YES	10
1043	cnv_VAV3	cnv	VAV3	YES	40
1044	cnv_AMPD2	cnv	AMPD2	YES	14
1045	cnv_EVI5	cnv	EVI5	YES	20
1046	cnv_SCARNA2	cnv	SCARNA2	NO	0
1047	cnv_IFNL1	cnv	IFNL1	YES	23
1050	cnv_AXL	cnv	AXL	YES	67
1052	mrna_THAP5	mrna	THAP5	YES	9
1053	cnv_LRFN1	cnv	LRFN1	YES	11
1055	meth_NXPH4	meth	NXPH4	YES	5
1057	cnv_AGAP5	cnv	AGAP5	YES	4
1057	mrna_JOSD2	mrna	JOSD2	YES	8
1058	mrna_AC114271.2	mrna	AC114271.2	NO	0
1061	mrna_PHGDH	mrna	PHGDH	YES	27
1064	cnv_MMAB	cnv	MMAB	YES	10
1064	mrna_CENPV	mrna	CENPV	YES	22

1068	stv_MEDAG	stv	MEDAG	YES	2
1069	cnv_UQCRFS1	cnv	UQCRFS1	YES	23
1071	cnv_PHYHIPL	cnv	PHYHIPL	YES	3
1072	cnv_AMY1A	cnv	AMY1A	YES	13
1073	cnv_GGN	cnv	GGN	YES	10
1074	cnv_HERC4	cnv	HERC4	YES	9
1074	meth_FBXO38	meth	FBXO38	YES	3
1075	mrna_RAD18	mrna	RAD18	YES	33
1075	stv_AMELX	stv	AMELX	YES	24
1076	cnv_PRMT6	cnv	PRMT6	YES	35
1076	mrna_SOSTDC1	mrna	SOSTDC1	YES	16
1077	cnv_KCNA3	cnv	KCNA3	YES	20
1077	cnv_PIEZO2	cnv	PIEZO2	YES	16
1078	cnv_snoU13|ENSG00000252435.1	cnv	snoU13|ENSG00000252435.1	NO	0
1078	mrna_EPHX3	mrna	EPHX3	YES	8
1079	cnv_RNA5SP472	cnv	RNA5SP472	NO	0
1079	mrna_CAND1	mrna	CAND1	YES	23
1080	cnv_CLCA1	cnv	CLCA1	YES	24
1082	cnv_SNORA24|ENSG00000207130.1	cnv	SNORA24|ENSG00000207130.1	NO	0
1082	meth_AP006216.10	meth	AP006216.10	NO	0
1084	cnv_ZSWIM8	cnv	ZSWIM8	YES	2
1085	cnv_KCNA2	cnv	KCNA2	YES	43
1086	mrna_MYNN	mrna	MYNN	YES	9
1086	mrna_PPIH	mrna	PPIH	YES	19
1089	cnv_STOX1	cnv	STOX1	YES	36
1090	cnv_CYP2A7	cnv	CYP2A7	YES	19
1092	cnv_C3orf37	cnv	C3orf37	NO	0
1093	cnv_TDRD12	cnv	TDRD12	YES	19
1094	cnv_RN7SKP22	cnv	RN7SKP22	NO	0
1095	mrna_SOCS2	mrna	SOCS2	YES	30
1096	cnv_ATP5F1	cnv	ATP5F1	YES	26
1096	cnv_USP30	cnv	USP30	YES	17
1098	meth_RP11-463D19.2	meth	RP11-463D19.2	NO	0
1101	cnv_SH2B3	cnv	SH2B3	YES	11
1103	mrna_SLC27A5	mrna	SLC27A5	YES	29
1103	mrna_ANAPC5	mrna	ANAPC5	YES	18
1104	cnv_ANKRD27	cnv	ANKRD27	YES	29
1105	cnv_GATA2	cnv	GATA2	YES	68
1105	cnv_SVOP	cnv	SVOP	YES	11
1106	mrna_GJC3	mrna	GJC3	YES	11
1107	cnv_FAM213A	cnv	FAM213A	YES	7
1109	mrna_ZC3H12C	mrna	ZC3H12C	YES	8
1112	mrna_RBP4	mrna	RBP4	YES	40
1113	cnv_ABTB1	cnv	ABTB1	YES	13
1116	meth_ARFGEF1	meth	ARFGEF1	YES	31
1117	mrna_AC009237.11	mrna	AC009237.11	NO	0
1120	mrna_KLB	mrna	KLB	YES	24
1121	cnv_ALDH1L2	cnv	ALDH1L2	YES	15
1121	stv_ATG4D	stv	ATG4D	YES	19
1122	cnv_GFI1	cnv	GFI1	YES	26
1123	meth_HSD17B8	meth	HSD17B8	YES	22
1124	cnv_SYDE2	cnv	SYDE2	YES	8
1126	mrna_PKP1	mrna	PKP1	YES	26
1127	cnv_RN7SL718P	cnv	RN7SL718P	NO	0
1127	stv_MARCH8	stv	MARCH8	YES	16
1128	mrna_CTC-260E6.6	mrna	CTC-260E6.6	NO	0
1129	stv_CRIPAK	stv	CRIPAK	YES	9
1133	meth_SOCS4	meth	SOCS4	YES	12
1134	cnv_FAM149B1	cnv	FAM149B1	NO	0
1136	mrna_POP4	mrna	POP4	YES	19
1136	mrna_CRACR2A	mrna	CRACR2A	YES	16
1138	mrna_ARHGEF9	mrna	ARHGEF9	YES	12
1139	cnv_PLEKHG2	cnv	PLEKHG2	YES	8
1139	cnv_ZNF493	cnv	ZNF493	YES	8

1141	cnv_NEK11	cnv	NEK11	YES	20
1142	mrna_IL27RA	mrna	IL27RA	YES	15
1143	cnv_ZNF781	cnv	ZNF781	YES	7
1143	mrna_ACSM5	mrna	ACSM5	YES	17
1146	meth_CPE	meth	CPE	YES	31
1148	meth_DLEU2	meth	DLEU2	NO	0
1150	cnv_HNRNPL	cnv	HNRNPL	YES	19
1151	cnv_AKT2	cnv	AKT2	YES	60
1151	cnv_ZNF492	cnv	ZNF492	YES	7
1153	mrna_LXN	mrna	LXN	YES	11
1154	mrna_RELB	mrna	RELB	YES	39
1156	cnv_IFT81	cnv	IFT81	YES	15
1156	cnv_RHOBTB1	cnv	RHOBTB1	YES	11
1158	cnv_MAPKAPK5	cnv	MAPKAPK5	YES	33
1158	mrna_AHCYL2	mrna	AHCYL2	YES	10
1160	mrna_NTRK1	mrna	NTRK1	YES	89
1161	mrna_TNPO3	mrna	TNPO3	YES	12
1163	meth_CRY2	meth	CRY2	YES	43
1166	cnv_APLP1	cnv	APLP1	YES	25
1167	cnv_UBL4B	cnv	UBL4B	YES	3
1168	mrna_MLXIPL	mrna	MLXIPL	YES	35
1170	stv_ERAP1	stv	ERAP1	YES	39
1172	meth_KB-431C1.4	meth	KB-431C1.4	NO	0
1174	cnv_NUDT16P	cnv	NUDT16P	NO	0
1174	cnv_RBMXL1	cnv	RBMXL1	YES	9
1175	cnv_snoU13|ENSG00000238970.1	cnv	snoU13|ENSG00000238970.1	NO	0
1176	meth_TRMT12	meth	TRMT12	YES	4
1176	mrna_HSPBP1	mrna	HSPBP1	YES	7
1177	cnv_DBT	cnv	DBT	YES	14
1177	cnv_ZNF790	cnv	ZNF790	YES	8
1178	cnv_RALBP1	cnv	RALBP1	YES	18
1179	cnv_UBE3B	cnv	UBE3B	YES	6
1183	cnv_CHST11	cnv	CHST11	YES	27
1183	cnv_TTC18	cnv	TTC18	YES	1
1185	cnv_RNA5SP373	cnv	RNA5SP373	NO	0
1186	cnv_MIR4676	cnv	MIR4676	NO	0
1189	cnv_GHITM	cnv	GHITM	YES	9
1189	cnv_POLR2I	cnv	POLR2I	YES	23
1190	cnv_KBTBD12	cnv	KBTBD12	YES	3
1191	cnv_ZNF599	cnv	ZNF599	YES	8
1192	mrna_ISOC2	mrna	ISOC2	YES	7
1194	mrna_PAPSS1	mrna	PAPSS1	YES	15
1200	cnv_RAP1A	cnv	RAP1A	YES	51
1202	cnv_FBL	cnv	FBL	YES	30
1203	cnv_HCST	cnv	HCST	YES	10
1206	cnv_SCGB2B2	cnv	SCGB2B2	YES	2
1208	cnv_RNA5SP51	cnv	RNA5SP51	NO	0
1209	cnv_FAM222A	cnv	FAM222A	NO	0
1211	cnv_TMEM145	cnv	TMEM145	YES	4
1216	cnv_ALX3	cnv	ALX3	YES	12
1217	cnv_CD53	cnv	CD53	YES	16
1218	cnv_LRRC8C	cnv	LRRC8C	YES	17
1219	cnv_CHCHD6	cnv	CHCHD6	YES	8
1220	cnv_SNRPA	cnv	SNRPA	YES	16
1221	mrna_PRKX	mrna	PRKX	YES	27
1223	mrna_DMGDH	mrna	DMGDH	YES	12
1224	mrna_DSC3	mrna	DSC3	YES	13
1229	mrna_TOP2A	mrna	TOP2A	YES	50
1230	cnv_GNAT2	cnv	GNAT2	YES	27
1231	mrna_GSDMB	mrna	GSDMB	YES	5
1232	cnv_LRP3	cnv	LRP3	YES	5
1234	cnv_RHOC	cnv	RHOC	YES	22
1235	mrna_CIDEC	mrna	CIDEC	YES	14
1236	mrna_LINC00662	mrna	LINC00662	NO	0

1237	meth_MAF	meth	MAF	YES	20
1240	stv_RSRP1	stv	RSRP1	YES	1
1241	cnv_LINC00665	cnv	LINC00665	NO	0
1245	mrna_METTL6	mrna	METTL6	YES	4
1246	cnv_RAD9B	cnv	RAD9B	YES	13
1248	mrna_PPT1	mrna	PPT1	YES	53
1249	mrna_SGPL1	mrna	SGPL1	YES	37
1256	cnv_BICC1	cnv	BICC1	YES	7
1257	cnv_CHIA	cnv	CHIA	YES	26
1258	cnv_ANKRD13A	cnv	ANKRD13A	YES	5
1258	mrna_SEC62	mrna	SEC62	YES	16
1260	cnv_PLXND1	cnv	PLXND1	YES	27
1264	cnv_MIR137HG	cnv	MIR137HG	NO	0
1264	cnv_SLC30A7	cnv	SLC30A7	YES	20
1266	cnv_RPS16	cnv	RPS16	YES	23
1267	cnv_CEACAM7	cnv	CEACAM7	YES	6
1269	cnv_SH3GLB1	cnv	SH3GLB1	YES	41
1270	cnv_SNORD81|ENSG00000199934.1	cnv	SNORD81|ENSG00000199934.1	NO	0
1270	cnv_TRAFD1	cnv	TRAFD1	YES	4
1272	cnv_PSMC4	cnv	PSMC4	YES	49
1275	cnv_LINC00595	cnv	LINC00595	NO	0
1275	cnv_ZNF98	cnv	ZNF98	YES	7
1276	cnv_RN7SL758P	cnv	RN7SL758P	NO	0
1276	stv_NARS2	stv	NARS2	YES	14
1277	cnv_ITPKC	cnv	ITPKC	YES	12
1277	cnv_RNU6V	cnv	RNU6V	NO	0
1279	mrna_ZNF239	mrna	ZNF239	YES	12
1283	cnv_VAPA	cnv	VAPA	YES	34
1285	mrna_AP001347.6	mrna	AP001347.6	NO	0
1286	cnv_ATOH7	cnv	ATOH7	YES	12
1287	stv_GPR176	stv	GPR176	YES	12
1292	cnv_ALDH2	cnv	ALDH2	YES	15
1293	mrna_CLSTN3	mrna	CLSTN3	YES	22
1295	cnv_NDST2	cnv	NDST2	YES	15
1296	cnv_WDR87	cnv	WDR87	YES	4
1297	cnv_ALG14	cnv	ALG14	YES	8
1300	mrna_HECTD3	mrna	HECTD3	YES	9
1301	cnv_FFAR3	cnv	FFAR3	YES	22
1302	cnv_PODXL2	cnv	PODXL2	YES	9
1303	cnv_SNORD21	cnv	SNORD21	NO	0
1306	mrna_WIPF3	mrna	WIPF3	YES	10
1308	meth_ATP6V1C1	meth	ATP6V1C1	YES	24
1309	cnv_AMY1B	cnv	AMY1B	YES	13
1311	cnv_C12orf45	cnv	C12orf45	NO	0
1313	cnv_C19orf69	cnv	C19orf69	NO	0
1315	cnv_NUDT19	cnv	NUDT19	YES	10
1315	mrna_RNF39	mrna	RNF39	YES	6
1318	cnv_C3orf56	cnv	C3orf56	NO	0
1319	cnv_SNORA7B	cnv	SNORA7B	NO	0
1319	mrna_BTBD3	mrna	BTBD3	YES	11
1320	mrna_ERCC6	mrna	ERCC6	YES	43
1322	cnv_ZNF565	cnv	ZNF565	YES	8
1323	mrna_C14orf180	mrna	C14orf180	YES	3
1324	mrna_ZNF726	mrna	ZNF726	YES	8
1325	meth_AC144652.1	meth	AC144652.1	NO	0
1327	mrna_RP11-277P12.20	mrna	RP11-277P12.20	NO	0
1329	mrna_GNL2	mrna	GNL2	YES	10
1331	mrna_EPHB6	mrna	EPHB6	YES	17
1334	cnv_SCN1B	cnv	SCN1B	YES	44
1335	cnv_LINC00858	cnv	LINC00858	NO	0
1337	mrna_PPCS	mrna	PPCS	YES	8
1338	cnv_CEACAM5	cnv	CEACAM5	YES	17
1339	cnv_CHI3L2	cnv	CHI3L2	YES	7
1339	mrna_MB21D1	mrna	MB21D1	YES	19

1341	cnv_FRRS1	cnv	FRRS1	YES	6
1342	mrna_CHRDL1	mrna	CHRDL1	YES	12
1345	cnv_PSRC1	cnv	PSRC1	YES	21
1346	cnv_FAM19A3	cnv	FAM19A3	YES	4
1349	cnv_TMEM26	cnv	TMEM26	YES	2
1351	mrna_ZNF658	mrna	ZNF658	YES	12
1353	cnv_MRPS16	cnv	MRPS16	YES	13
1355	mrna_UBE2H	mrna	UBE2H	YES	15
1356	cnv_ZNF254	cnv	ZNF254	YES	9
1359	mrna_PCOLCE2	mrna	PCOLCE2	YES	7
1361	cnv_NRBF2	cnv	NRBF2	YES	13
1362	mrna_TCAF2	mrna	TCAF2	YES	7
1364	cnv_RN7SL653P	cnv	RN7SL653P	NO	0
1367	cnv_ZNF567	cnv	ZNF567	YES	12
1368	cnv_REEP3	cnv	REEP3	YES	9
1368	cnv_ZNF726	cnv	ZNF726	YES	8
1369	cnv_ZNF461	cnv	ZNF461	YES	8
1369	stv_GOLGA8R	stv	GOLGA8R	YES	1
1370	cnv_C10orf105	cnv	C10orf105	YES	2
1374	mrna_CTB-119C2.1	mrna	CTB-119C2.1	NO	0
1383	mirna_MIR548E	mirna	MIR548E	NO	0
1384	cnv_PAPL	cnv	PAPL	NO	0
1385	mrna_TAF1A	mrna	TAF1A	YES	15
1386	cnv_CPNE4	cnv	CPNE4	YES	2
1392	meth_ABHD1	meth	ABHD1	YES	9
1395	cnv_UNC5B	cnv	UNC5B	YES	13
1397	cnv_LRIT2	cnv	LRIT2	YES	2
1399	cnv_CORO1C	cnv	CORO1C	YES	33
1400	cnv_SUPT5H	cnv	SUPT5H	YES	29
1401	mrna_HES1	mrna	HES1	YES	103
1402	cnv_ZNF540	cnv	ZNF540	YES	16
1405	cnv_RN7SL287P	cnv	RN7SL287P	NO	0
1408	mrna_L3MBTL3	mrna	L3MBTL3	YES	13
1409	cnv_PRR19	cnv	PRR19	YES	1
1410	mrna_ZNF583	mrna	ZNF583	YES	7
1415	cnv_CEBPA	cnv	CEBPA	YES	59
1417	mrna_CRABP1	mrna	CRABP1	YES	13
1420	cnv_SARS	cnv	SARS	YES	22
1425	mrna_ST6GALNAC6	mrna	ST6GALNAC6	YES	20
1426	mrna_RILPL2	mrna	RILPL2	YES	19
1428	cnv_GBP5	cnv	GBP5	YES	20
1430	mrna_C1orf50	mrna	C1orf50	YES	2
1431	mrna_YBX1	mrna	YBX1	YES	37
1438	cnv_SCARNA16|ENSG00000252765.1	cnv	SCARNA16|ENSG00000252765.1	NO	0
1441	mrna_PLCB4	mrna	PLCB4	YES	19
1443	cnv_GBP3	cnv	GBP3	YES	12
1443	mrna_ABCA8	mrna	ABCA8	YES	15
1445	mrna_CTD-2201I18.1	mrna	CTD-2201I18.1	NO	0
1450	mrna_KCNIP2	mrna	KCNIP2	YES	34
1453	stv_ABCF3	stv	ABCF3	YES	7
1456	cnv_RAB43	cnv	RAB43	YES	17
1457	cnv_POLR3A	cnv	POLR3A	YES	21
1458	stv_FAM129B	stv	FAM129B	YES	26
1462	mrna_AC008268.1	mrna	AC008268.1	NO	0
1464	cnv_CISD1	cnv	CISD1	YES	10
1466	cnv_CYP2G1P	cnv	CYP2G1P	NO	0
1466	meth_ZNF57	meth	ZNF57	YES	7
1468	mrna_GAL	mrna	GAL	YES	33
1476	mirna_MIR6874	mirna	MIR6874	NO	0
1477	mrna_HAUS6	mrna	HAUS6	YES	17
1480	cnv_FXYD5	cnv	FXYD5	YES	14
1481	cnv_C10orf35	cnv	C10orf35	YES	3
1483	cnv_RN7SL752P	cnv	RN7SL752P	NO	0
1484	cnv_SAR1A	cnv	SAR1A	YES	17

1488	cnv_ZNF420	cnv	ZNF420	YES	12
1489	stv_CACFD1	stv	CACFD1	YES	7
1491	meth_MARK3	meth	MARK3	YES	17
1500	mrna_TMEM37	mrna	TMEM37	YES	9
1501	mrna_PDCD5	mrna	PDCD5	YES	18
1505	mrna_GPX3	mrna	GPX3	YES	16
1506	cnv_ANXA7	cnv	ANXA7	YES	28
1511	cnv_TSPAN14	cnv	TSPAN14	YES	11
1515	cnv_NBPF4	cnv	NBPF4	YES	1
1515	mrna_ZFC3H1	mrna	ZFC3H1	YES	5
1523	cnv_KIAA1107	cnv	KIAA1107	NO	0
1525	cnv_ZNF793	cnv	ZNF793	YES	7
1526	cnv_BARHL2	cnv	BARHL2	YES	20
1527	cnv_SNORA66|ENSG00000207523.1	cnv	SNORA66|ENSG00000207523.1	NO	0
1533	stv_BMP7	stv	BMP7	YES	101
1539	cnv_PDCD2L	cnv	PDCD2L	YES	3
1540	cnv_ZMIZ1	cnv	ZMIZ1	YES	20
1546	cnv_SUPV3L1	cnv	SUPV3L1	YES	31
1548	cnv_KCTD15	cnv	KCTD15	YES	4
1550	meth_MGC16275	meth	MGC16275	NO	0
1558	cnv_CYMP	cnv	CYMP	NO	0
1560	mrna_NFKB1	mrna	NFKB1	YES	70
1563	meth_ZNF706	meth	ZNF706	YES	6
1563	mirna_MIR548F	mirna	MIR548F	NO	0
1568	cnv_MAP3K10	cnv	MAP3K10	YES	34
1579	cnv_MED29	cnv	MED29	YES	6
1581	cnv_ZNF527	cnv	ZNF527	YES	12
1583	stv_RABIF	stv	RABIF	YES	12
1584	meth_SVOPL	meth	SVOPL	YES	6
1588	cnv_SNORA58|ENSG00000249020.1	cnv	SNORA58|ENSG00000249020.1	NO	0
1597	cnv_ZNF573	cnv	ZNF573	YES	8
1601	cnv_THAP8	cnv	THAP8	YES	4
1604	cnv_CHST3	cnv	CHST3	YES	12
1615	cnv_PDCD5	cnv	PDCD5	YES	18
1615	mrna_GPRIN2	mrna	GPRIN2	YES	1
1616	mirna_MIR412	mirna	MIR412	NO	0
1619	cnv_MIR4323	cnv	MIR4323	NO	0
1621	cnv_RN7SKP272	cnv	RN7SKP272	NO	0
1621	mrna_RAB30	mrna	RAB30	YES	17
1626	cnv_CDK1	cnv	CDK1	YES	99
1633	cnv_OVGP1	cnv	OVGP1	YES	15
1636	cnv_MIR641	cnv	MIR641	NO	0
1642	cnv_C10orf40	cnv	C10orf40	NO	0
1646	mrna_VPS33A	mrna	VPS33A	YES	27
1649	cnv_GRIK5	cnv	GRIK5	YES	43
1655	cnv_DNASE2B	cnv	DNASE2B	YES	11
1666	cnv_TTC9B	cnv	TTC9B	YES	4
1677	mrna_MAP1LC3C	mrna	MAP1LC3C	YES	20
1706	mrna_TUSC5	mrna	TUSC5	YES	10
1714	mrna_ZNF691	mrna	ZNF691	YES	4
1722	mrna_CTB-92J24.2	mrna	CTB-92J24.2	NO	0
1733	cnv_SAS6	cnv	SAS6	YES	11
1753	cnv_SPATA42	cnv	SPATA42	NO	0

APPENDIX J

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	mrna_CX3CR1	mrna	CX3CR1	YES	37
1	stv_CERCAM	stv	CERCAM	YES	6
2	mrna_CENPL	mrna	CENPL	YES	8
2	mrna_KIF15	mrna	KIF15	YES	21
3	cnv_FREM1	cnv	FREM1	YES	11
3	mrna_LIMS2	mrna	LIMS2	YES	15
4	cnv_KCNH6	cnv	KCNH6	YES	16
4	mrna_CEP131	mrna	CEP131	YES	32
5	meth_HYOU1	meth	HYOU1	YES	21
5	meth_UTS2	meth	UTS2	YES	30
6	cnv_C1QTNF1	cnv	C1QTNF1	YES	18
6	mrna_CASC5	mrna	CASC5	YES	15
7	meth_HPDL	meth	HPDL	YES	6
7	meth_KCNK9	meth	KCNK9	YES	16
8	cnv_MPZL3	cnv	MPZL3	YES	6
8	meth_LEP	meth	LEP	YES	112
9	mirna_MIR191	mirna	MIR191	YES	2
9	stv_GAP43	stv	GAP43	YES	29
10	meth_GPX7	meth	GPX7	YES	12
10	mrna_PTPN21	mrna	PTPN21	YES	10
11	meth_DAND5	meth	DAND5	YES	16
11	mrna_INSIG1	mrna	INSIG1	YES	24
12	mrna_TXNRD1	mrna	TXNRD1	YES	44
12	stv_NUFIP1	stv	NUFIP1	YES	23
13	mrna_ORC6	mrna	ORC6	YES	13
13	mrna_GRIN2A	mrna	GRIN2A	YES	66
14	mrna_LARP1	mrna	LARP1	YES	27
14	mrna_HTR1F	mrna	HTR1F	YES	15
15	cnv_ORAOV1	cnv	ORAOV1	YES	10
15	stv_PRICKLE2	stv	PRICKLE2	YES	8
16	mrna_TP63	mrna	TP63	YES	103
16	mrna_KIF18B	mrna	KIF18B	YES	25
17	meth_EREG	meth	EREG	YES	59
17	mrna_DPP3	mrna	DPP3	YES	14
18	meth_PLG	meth	PLG	YES	48
18	meth_STX1B	meth	STX1B	YES	42
19	cnv_ASPSCR1	cnv	ASPSCR1	YES	21
19	mrna_PCNA	mrna	PCNA	YES	65
20	cnv_NUP85	cnv	NUP85	YES	36
20	meth_FCRL4	meth	FCRL4	YES	7
21	cnv_APC2	cnv	APC2	YES	20
21	mrna_STRBP	mrna	STRBP	YES	13
22	meth_FAM20A	meth	FAM20A	YES	14
22	meth_TSC1	meth	TSC1	YES	63
23	cnv_POLRMT	cnv	POLRMT	YES	15
23	meth_ATM	meth	ATM	YES	98

24	cnv_SGTA	cnv	SGTA	YES	13
24	mrna_WDHD1	mrna	WDHD1	YES	12
25	meth_KLK4	meth	KLK4	YES	12
25	meth_KRT16	meth	KRT16	YES	23
26	mrna_MKI67	mrna	MKI67	YES	25
26	stv_PLK4	stv	PLK4	YES	27
27	mrna_LMNB1	mrna	LMNB1	YES	13
27	mrna_PIWIL2	mrna	PIWIL2	YES	35
28	mrna_DIAPH3	mrna	DIAPH3	YES	9
28	mrna_HPGD	mrna	HPGD	YES	32
29	cnv_JMJD6	cnv	JMJD6	YES	44
29	mrna_DMBX1	mrna	DMBX1	YES	19
30	cnv_RGS9	cnv	RGS9	YES	22
30	stv_C5AR1	stv	C5AR1	YES	46
31	cnv_ADRM1	cnv	ADRM1	YES	19
31	meth_PADI4	meth	PADI4	YES	27
32	mrna_CENPN	mrna	CENPN	YES	12
32	stv_SRRM4	stv	SRRM4	YES	10
33	meth_NPR3	meth	NPR3	YES	26
33	meth_ZFP41	meth	ZFP41	YES	8
34	mrna_HELLS	mrna	HELLS	YES	24
35	cnv_KDM4C	cnv	KDM4C	YES	29
35	mrna_DACT3	mrna	DACT3	YES	12
36	meth_TNFRSF18	meth	TNFRSF18	YES	22
36	mrna_CENPK	mrna	CENPK	YES	10
37	cnv_EOGT	cnv	EOGT	YES	9
37	mrna_BLM	mrna	BLM	YES	71
38	cnv_ARCN1	cnv	ARCN1	YES	23
38	stv_ADGRL2	stv	ADGRL2	YES	10
39	cnv_PPP6R3	cnv	PPP6R3	YES	11
39	meth_ACTR5	meth	ACTR5	YES	13
40	meth_SEC61A2	meth	SEC61A2	YES	11
40	mrna_GBGT1	mrna	GBGT1	YES	14
41	cnv_IL33	cnv	IL33	YES	34
41	meth_XCR1	meth	XCR1	YES	14
42	cnv_TAF1D	cnv	TAF1D	YES	12
42	meth_DZIP1	meth	DZIP1	YES	23
43	meth_MNX1	meth	MNX1	YES	23
43	stv_GPC3	stv	GPC3	YES	51
44	mrna_KIF14	mrna	KIF14	YES	51
44	stv_GTF3C4	stv	GTF3C4	YES	17
45	meth_NT5C1A	meth	NT5C1A	YES	15
45	mrna_NME1	mrna	NME1	YES	59
46	cnv_IFNA14	cnv	IFNA14	YES	20
46	stv_NFKBIZ	stv	NFKBIZ	YES	9
47	cnv_LPAR3	cnv	LPAR3	YES	22
47	cnv_TBRG1	cnv	TBRG1	YES	8

48	mrna_LGR6	mrna	LGR6	YES	17
48	stv_SORCS1	stv	SORCS1	YES	5
49	meth_AVPR1B	meth	AVPR1B	YES	18
49	meth_B3GNT5	meth	B3GNT5	YES	17
50	cnv_BIRC5	cnv	BIRC5	YES	50
51	cnv_RYBP	cnv	RYBP	YES	14
51	mrna_RASL11A	mrna	RASL11A	YES	12
52	cnv_ANAPC11	cnv	ANAPC11	YES	23
52	mrna_POLA2	mrna	POLA2	YES	18
53	cnv_CBX2	cnv	CBX2	YES	17
53	cnv_GAL	cnv	GAL	YES	33
54	meth_HPD	meth	HPD	YES	15
54	stv_ATF7IP	stv	ATF7IP	YES	16
55	cnv_APOA1	cnv	APOA1	YES	113
55	mrna_JUNB	mrna	JUNB	YES	43
56	meth_PTPRN	meth	PTPRN	YES	40
56	mrna_KNTC1	mrna	KNTC1	YES	21
57	mrna_ERBB2	mrna	ERBB2	YES	82
57	mrna_KRT15	mrna	KRT15	YES	12
58	meth_ADRA2B	meth	ADRA2B	YES	28
58	mrna_KCNMB1	mrna	KCNMB1	YES	20
59	meth_OSBPL5	meth	OSBPL5	YES	19
59	stv_KDR	stv	KDR	YES	69
60	meth_PIP4K2A	meth	PIP4K2A	YES	25
60	mrna_CCNB1	mrna	CCNB1	YES	64
61	meth_TUBB6	meth	TUBB6	YES	14
61	mrna_NRG1	mrna	NRG1	YES	96
62	meth_KCNQ3	meth	KCNQ3	YES	21
62	mrna_CENPO	mrna	CENPO	YES	11
63	mrna_FOXC1	mrna	FOXC1	YES	77
63	mrna_CBX1	mrna	CBX1	YES	18
64	stv_MAN2A2	stv	MAN2A2	YES	19
64	stv_OR8B3	stv	OR8B3	YES	12
65	mrna_MAML2	mrna	MAML2	YES	10
65	stv_TLR3	stv	TLR3	YES	77
66	cnv_CCT2	cnv	CCT2	YES	30
66	meth_LPAR3	meth	LPAR3	YES	22
67	cnv_CEP164	cnv	CEP164	YES	20
67	mrna_FBXO5	mrna	FBXO5	YES	26
68	mrna_HOXA9	mrna	HOXA9	YES	19
68	mrna_SYT8	mrna	SYT8	YES	19
69	meth_GUCY2D	meth	GUCY2D	YES	23
69	mrna_CBX4	mrna	CBX4	YES	24
70	cnv_FXYD2	cnv	FXYD2	YES	25
70	mrna_CSRNP3	mrna	CSRNP3	YES	12
71	meth_ANKRD33	meth	ANKRD33	YES	5
71	meth_CXCL12	meth	CXCL12	YES	55

72	cnv_UBA3	cnv	UBA3	YES	24
72	meth_RAD17	meth	RAD17	YES	22
73	cnv_TMEM25	cnv	TMEM25	YES	5
74	mrna_LLGL2	mrna	LLGL2	YES	15
74	mrna_VRK1	mrna	VRK1	YES	32
75	mrna_ECT2	mrna	ECT2	YES	45
75	mrna_FBXO45	mrna	FBXO45	YES	21
76	meth_FEN1	meth	FEN1	YES	37
76	mrna_ADAMTS8	mrna	ADAMTS8	YES	15
77	cnv_C19orf24	cnv	C19orf24	YES	4
78	cnv_SYNPR	cnv	SYNPR	YES	13
78	meth_SSBP1	meth	SSBP1	YES	14
79	cnv_AURKA	cnv	AURKA	YES	76
79	mrna_MSRB3	mrna	MSRB3	YES	12
80	stv_ARIH1	stv	ARIH1	YES	25
81	meth_CLDN1	meth	CLDN1	YES	39
81	meth_VAPB	meth	VAPB	YES	26
82	meth_GFRA2	meth	GFRA2	YES	16
82	mrna_PGM5	mrna	PGM5	YES	22
83	meth_ADCY3	meth	ADCY3	YES	36
83	meth_PFKP	meth	PFKP	YES	22
84	meth_NFATC2	meth	NFATC2	YES	38
84	mrna_CTPS1	mrna	CTPS1	YES	17
85	meth_KCNQ1	meth	KCNQ1	YES	69
85	meth_UHRF1	meth	UHRF1	YES	40
86	meth_FGFR1	meth	FGFR1	YES	99
86	mrna_DEPDC1B	mrna	DEPDC1B	YES	8
87	cnv_CDH4	cnv	CDH4	YES	12
87	cnv_RHBDF2	cnv	RHBDF2	YES	15
88	stv_CASP6	stv	CASP6	YES	17
88	stv_SI	stv	SI	YES	18
89	meth_CARTPT	meth	CARTPT	YES	26
89	meth_VAX1	meth	VAX1	YES	21
90	mrna_CHEK2	mrna	CHEK2	YES	57
91	mrna_SGOL2	mrna	SGOL2	YES	9
91	stv_GTPBP4	stv	GTPBP4	YES	24
92	cnv_APOA5	cnv	APOA5	YES	49
92	mrna_RCAN1	mrna	RCAN1	YES	19
93	stv_CCNA1	stv	CCNA1	YES	15
94	meth_ODAM	meth	ODAM	YES	17
94	meth_RIMS3	meth	RIMS3	YES	11
95	mrna_CCNE2	mrna	CCNE2	YES	19
95	mrna_LIN54	mrna	LIN54	YES	8
96	cnv_FAM20A	cnv	FAM20A	YES	14
96	cnv_GCNT7	cnv	GCNT7	YES	8
97	meth_MGAT1	meth	MGAT1	YES	15
97	stv_PAPSS1	stv	PAPSS1	YES	15

98	cnv_YEATS4	cnv	YEATS4	YES	20
98	meth_HBA2	meth	HBA2	YES	27
99	mrna_GFAP	mrna	GFAP	YES	37
100	cnv_C19orf35	cnv	C19orf35	YES	4
100	mrna_HOXA3	mrna	HOXA3	YES	24
101	mrna_RYR2	mrna	RYR2	YES	78
102	meth_WFDC1	meth	WFDC1	YES	14
102	stv_ADGRV1	stv	ADGRV1	YES	27
103	mrna_NGFR	mrna	NGFR	YES	52
103	stv_CLVS1	stv	CLVS1	YES	15
104	mrna_RPTOR	mrna	RPTOR	YES	43
105	mrna_SLC25A19	mrna	SLC25A19	YES	16
105	stv_SLC25A2	stv	SLC25A2	YES	10
106	meth_CIART	meth	CIART	YES	12
106	meth_EPO	meth	EPO	YES	54
107	meth_ZPBP	meth	ZPBP	YES	7
107	stv_JPH1	stv	JPH1	YES	15
108	meth_MMS19	meth	MMS19	YES	27
109	meth_KRTAP6.1	meth	KRTAP6.1	NO	0
109	mrna_DNMT1	mrna	DNMT1	YES	38
110	meth_FOXI1	meth	FOXI1	YES	19
110	mrna_TTK	mrna	TTK	YES	32
111	cnv_GCGR	cnv	GCGR	YES	26
111	mrna_DSCC1	mrna	DSCC1	YES	16
112	meth_BIRC3	meth	BIRC3	YES	35
112	mrna_COA1	mrna	COA1	YES	12
113	cnv_TMF1	cnv	TMF1	YES	27
113	meth_PTGFR	meth	PTGFR	YES	19
114	cnv_BPTF	cnv	BPTF	YES	28
115	meth_IL4	meth	IL4	YES	78
115	stv_NCAN	stv	NCAN	YES	18
116	meth_STAT5A	meth	STAT5A	YES	66
116	mrna_TRIM29	mrna	TRIM29	YES	14
117	cnv_NOTUM	cnv	NOTUM	YES	12
117	meth_ARAP1	meth	ARAP1	YES	25
118	cnv_DCXR	cnv	DCXR	YES	20
118	mrna_TACC3	mrna	TACC3	YES	16
119	cnv_TUBD1	cnv	TUBD1	YES	18
119	mrna_NUSAP1	mrna	NUSAP1	YES	20
120	cnv_CTTN	cnv	CTTN	YES	43
121	meth_CANT1	meth	CANT1	YES	25
121	mrna_ASF1B	mrna	ASF1B	YES	17
122	mrna_GNA13	mrna	GNA13	YES	42
122	mrna_HAUS8	mrna	HAUS8	YES	17
123	mrna_RELN	mrna	RELN	YES	63
123	mrna_HOXA4	mrna	HOXA4	YES	10
124	mrna_KCNA1	mrna	KCNA1	YES	54

124	mrna_CDC25A	mrna	CDC25A	YES	25
125	mrna_KLK5	mrna	KLK5	YES	15
125	stv_ADAMTS19	stv	ADAMTS19	YES	9
126	meth_DNMT1	meth	DNMT1	YES	38
127	mrna_DCK	mrna	DCK	YES	17
127	mrna_MELK	mrna	MELK	YES	30
128	cnv_NFRKB	cnv	NFRKB	YES	14
128	stv_SPOCK1	stv	SPOCK1	YES	22
129	mrna_TOPBP1	mrna	TOPBP1	YES	25
129	stv_CAPN9	stv	CAPN9	YES	11
130	meth_NOG	meth	NOG	YES	79
130	mirna_MIR589	mirna	MIR589	YES	1
131	mrna_MEIS2	mrna	MEIS2	YES	26
131	mrna_SLC25A10	mrna	SLC25A10	YES	31
132	cnv_IFNA17	cnv	IFNA17	YES	21
132	meth_S100A6	meth	S100A6	YES	23
133	meth_GNMT	meth	GNMT	YES	17
133	mrna_HMGB2	mrna	HMGB2	YES	72
134	stv_CD200R1	stv	CD200R1	YES	10
135	cnv_FUT4	cnv	FUT4	YES	15
135	stv_HECTD1	stv	HECTD1	YES	10
136	cnv_PTS	cnv	PTS	YES	14
136	mrna_AURKA	mrna	AURKA	YES	76
137	mrna_UGT2B4	mrna	UGT2B4	YES	14
138	mrna_KRT17	mrna	KRT17	YES	21
138	mrna_CDT1	mrna	CDT1	YES	35
139	meth_UCP1	meth	UCP1	YES	27
139	mrna_GSG2	mrna	GSG2	YES	22
140	cnv_STRA13	cnv	STRA13	YES	13
140	meth_NPBWR2	meth	NPBWR2	YES	17
141	mrna_CENPA	mrna	CENPA	YES	28
142	mirna_MIR31	mirna	MIR31	YES	6
143	cnv_TYR	cnv	TYR	YES	31
143	meth_GPATCH2	meth	GPATCH2	YES	5
144	mrna_CDKN2C	mrna	CDKN2C	YES	17
144	stv_MAP3K7	stv	MAP3K7	YES	56
145	mrna_PPP5C	mrna	PPP5C	YES	46
145	stv_ERC1	stv	ERC1	YES	21
146	cnv_UBE2V1	cnv	UBE2V1	YES	30
146	mrna_CDKN3	mrna	CDKN3	YES	19
147	cnv_BARX2	cnv	BARX2	YES	17
147	cnv_CHEK1	cnv	CHEK1	YES	53
148	cnv_MAP2K6	cnv	MAP2K6	YES	45
149	cnv_WBP2	cnv	WBP2	YES	10
149	meth_P2RX6	meth	P2RX6	YES	25
150	cnv_ACAT1	cnv	ACAT1	YES	35
150	meth_BCL10	meth	BCL10	YES	67

151	cnv_ZW10	cnv	ZW10	YES	37
151	meth_SPTB	meth	SPTB	YES	22
152	mrna_JMJD6	mrna	JMJD6	YES	44
153	cnv_EVPL	cnv	EVPL	YES	17
153	mrna_KIF2C	mrna	KIF2C	YES	40
154	cnv_FDX1	cnv	FDX1	YES	18
154	meth_RPTOR	meth	RPTOR	YES	43
155	cnv_PPFIA1	cnv	PPFIA1	YES	14
155	mrna_ROPN1B	mrna	ROPN1B	YES	13
156	meth_GAA	meth	GAA	YES	38
156	mirna_MIR28	mirna	MIR28	YES	3
157	meth_ITGA4	meth	ITGA4	YES	39
157	mrna_TRPM6	mrna	TRPM6	YES	27
158	mrna_AIF1L	mrna	AIF1L	YES	15
158	mrna_CCT2	mrna	CCT2	YES	30
159	cnv_PARD6B	cnv	PARD6B	YES	21
159	mrna_BIRC5	mrna	BIRC5	YES	50
160	cnv_CRTAM	cnv	CRTAM	YES	20
160	meth_NDRG4	meth	NDRG4	YES	26
161	meth_KPNA1	meth	KPNA1	YES	22
161	mrna_MCM3	mrna	MCM3	YES	22
162	cnv_GPR142	cnv	GPR142	YES	9
162	mrna_ZFP36L2	mrna	ZFP36L2	YES	38
163	cnv_B3GAT1	cnv	B3GAT1	YES	17
163	mrna_GLI2	mrna	GLI2	YES	91
164	mrna_HNMT	mrna	HNMT	YES	21
164	stv_PITRM1	stv	PITRM1	YES	11
165	meth_PHLDA2	meth	PHLDA2	YES	11
165	mrna_CLDN19	mrna	CLDN19	YES	16
166	meth_PHYHIP	meth	PHYHIP	YES	1
166	stv_SPAST	stv	SPAST	YES	57
167	cnv_CEP57	cnv	CEP57	YES	23
167	meth_NFATC3	meth	NFATC3	YES	24
168	mrna_EME1	mrna	EME1	YES	24
168	stv_SLCO1A2	stv	SLCO1A2	YES	13
169	meth_STAT4	meth	STAT4	YES	17
169	mrna_TYMS	mrna	TYMS	YES	52
170	mrna_FBXO43	mrna	FBXO43	YES	8
170	mrna_RRM1	mrna	RRM1	YES	25
171	cnv_INSL6	cnv	INSL6	YES	12
171	meth_CLSTN2	meth	CLSTN2	YES	15
172	meth_CYTH1	meth	CYTH1	YES	16
172	meth_FOXL2	meth	FOXL2	YES	37
173	mrna_ANXA3	mrna	ANXA3	YES	27
173	stv_PTPRA	stv	PTPRA	YES	22
174	cnv_NAALAD2	cnv	NAALAD2	YES	17
174	cnv_PTPRB	cnv	PTPRB	YES	19

175	stv_CDON	stv	CDON	YES	29
176	cnv_KCNJ5	cnv	KCNJ5	YES	22
177	meth_VSX1	meth	VSX1	YES	15
177	stv_AOX1	stv	AOX1	YES	24
178	mrna_NUP210	mrna	NUP210	YES	23
178	stv_HNF4A	stv	HNF4A	YES	47
179	meth_MET	meth	MET	YES	50
179	mirna_MIR370	mirna	MIR370	YES	1
180	cnv_WDR45B	cnv	WDR45B	YES	10
180	mrna_ABCB1	mrna	ABCB1	YES	29
181	cnv_FRS2	cnv	FRS2	YES	45
181	mrna_SLC27A4	mrna	SLC27A4	YES	27
182	cnv_TECTA	cnv	TECTA	YES	10
182	meth_KCNAB3	meth	KCNAB3	YES	12
183	meth_GSC	meth	GSC	YES	23
183	mrna_ACOT8	mrna	ACOT8	YES	24
184	cnv_INSL4	cnv	INSL4	YES	10
185	mrna_DIXDC1	mrna	DIXDC1	YES	31
185	mrna_RCCD1	mrna	RCCD1	YES	2
186	cnv_KLF16	cnv	KLF16	YES	12
186	mrna_PGP	mrna	PGP	YES	18
187	mrna_SHC4	mrna	SHC4	YES	15
187	stv_DPP4	stv	DPP4	YES	43
188	cnv_HCN2	cnv	HCN2	YES	32
188	mrna_SYNM	mrna	SYNM	YES	18
189	cnv_BIRC2	cnv	BIRC2	YES	64
189	mrna_WWTR1	mrna	WWTR1	YES	35
190	meth_HTATIP2	meth	HTATIP2	YES	18
190	mrna_CDK2	mrna	CDK2	YES	63
192	cnv_IFNA16	cnv	IFNA16	YES	20
192	meth_UBE3A	meth	UBE3A	YES	32
193	meth_PPARG	meth	PPARG	YES	116
194	cnv_PRTN3	cnv	PRTN3	YES	20
194	mrna_MRGPRF	mrna	MRGPRF	YES	10
195	mrna_MIS18A	mrna	MIS18A	YES	16
195	stv_MPP2	stv	MPP2	YES	22
196	stv_CRNKL1	stv	CRNKL1	YES	18
197	meth_ADCY4	meth	ADCY4	YES	31
197	meth_ALX1	meth	ALX1	YES	30
198	meth_PTPRT	meth	PTPRT	YES	23
198	stv_DAPK1	stv	DAPK1	YES	35
199	cnv_SIDT2	cnv	SIDT2	YES	13
200	cnv_AXIN2	cnv	AXIN2	YES	49
200	cnv_SLC25A19	cnv	SLC25A19	YES	16
201	cnv_NCAM1	cnv	NCAM1	YES	23
201	meth_FOXQ1	meth	FOXQ1	YES	15
203	meth_PLA2G5	meth	PLA2G5	YES	26

204	cnv_VAPB	cnv	VAPB	YES	26
204	mrna_SNCAIP	mrna	SNCAIP	YES	15
205	mrna_NPLOC4	mrna	NPLOC4	YES	20
206	meth_FGF4	meth	FGF4	YES	41
206	meth_NPAS1	meth	NPAS1	YES	14
207	meth_TERT	meth	TERT	YES	72
207	stv_STIM1	stv	STIM1	YES	37
208	cnv_FOXK2	cnv	FOXK2	YES	18
208	meth_GDPD5	meth	GDPD5	YES	24
209	meth_E2F2	meth	E2F2	YES	21
209	mirna_MIR451A	mirna	MIR451A	YES	4
210	cnv_FADD	cnv	FADD	YES	70
211	meth_VIM	meth	VIM	YES	32
212	mrna_MCM10	mrna	MCM10	YES	16
212	stv_G3BP2	stv	G3BP2	YES	14
213	cnv_TMEM225	cnv	TMEM225	YES	5
213	meth_CLRN3	meth	CLRN3	YES	3
214	meth_BCAS3	meth	BCAS3	YES	37
214	stv_ESR2	stv	ESR2	YES	44
215	stv_F2	stv	F2	YES	58
215	stv_RAPGEF6	stv	RAPGEF6	YES	20
216	mrna_MPHOSPH9	mrna	MPHOSPH9	YES	8
216	mrna_EGR1	mrna	EGR1	YES	69
217	cnv_SPPL2B	cnv	SPPL2B	YES	27
217	mrna_HTR7	mrna	HTR7	YES	18
218	meth_GPR6	meth	GPR6	YES	11
218	mirna_MIR15B	mirna	MIR15B	YES	12
219	mrna_STMN1	mrna	STMN1	YES	32
219	stv_ACTR8	stv	ACTR8	YES	17
220	meth_CCNA1	meth	CCNA1	YES	15
220	meth_TMEM2	meth	TMEM2	YES	15
221	mrna_UBE2O	mrna	UBE2O	YES	19
221	stv_KCNA3	stv	KCNA3	YES	20
222	cnv_DDX42	cnv	DDX42	YES	20
223	mrna_CACNB1	mrna	CACNB1	YES	17
224	meth_IRS1	meth	IRS1	YES	48
225	cnv_EXPH5	cnv	EXPH5	YES	8
225	meth_SLC35G2	meth	SLC35G2	YES	5
226	cnv_CUL5	cnv	CUL5	YES	23
226	mrna_CDC6	mrna	CDC6	YES	30
227	cnv_ETS1	cnv	ETS1	YES	49
227	cnv_PDE6G	cnv	PDE6G	YES	18
228	cnv_GATA5	cnv	GATA5	YES	23
229	meth_EPHA8	meth	EPHA8	YES	35
229	meth_LMF1	meth	LMF1	YES	15
230	cnv_DOCK8	cnv	DOCK8	YES	13
231	meth_THRB	meth	THRB	YES	33

231	mirna_MIR10B	mirna	MIR10B	YES	2
232	meth_TMPRSS6	meth	TMPRSS6	YES	26
233	meth_MOGAT2	meth	MOGAT2	YES	14
234	meth_WNT7A	meth	WNT7A	YES	78
234	mrna_SCN2B	mrna	SCN2B	YES	24
235	meth_MEST	meth	MEST	YES	8
235	stv_REN	stv	REN	YES	33
237	cnv_IGSF9B	cnv	IGSF9B	YES	15
237	meth_CDO1	meth	CDO1	YES	23
238	meth_C14orf39	meth	C14orf39	YES	12
238	stv_CCDC88A	stv	CCDC88A	YES	37
239	meth_B3GNT3	meth	B3GNT3	YES	15
239	mirna_MIR127	mirna	MIR127	YES	1
240	cnv_GHRH	cnv	GHRH	YES	20
240	mrna_GINS1	mrna	GINS1	YES	10
241	cnv_PDCD1LG2	cnv	PDCD1LG2	YES	14
243	cnv_POLR2E	cnv	POLR2E	YES	32
244	meth_NET1	meth	NET1	YES	20
244	mrna_ORAOV1	mrna	ORAOV1	YES	10
245	stv_DNER	stv	DNER	YES	19
246	mrna_SPRY1	mrna	SPRY1	YES	23
247	cnv_PIWIL4	cnv	PIWIL4	YES	16
247	mrna_SMYD1	mrna	SMYD1	YES	19
248	cnv_TRIM37	cnv	TRIM37	YES	28
248	meth_ADAMTS1	meth	ADAMTS1	YES	20
249	mrna_LOXL4	mrna	LOXL4	YES	13
249	stv_TRPC5	stv	TRPC5	YES	35
250	cnv_MISP	cnv	MISP	YES	10
250	meth_GDF7	meth	GDF7	YES	31
251	meth_CHST1	meth	CHST1	YES	15
252	mrna_CHAF1B	mrna	CHAF1B	YES	19
252	mrna_FANCG	mrna	FANCG	YES	18
253	meth_GOPC	meth	GOPC	YES	26
253	stv_GLE1	stv	GLE1	YES	21
254	mrna_SOBP	mrna	SOBP	YES	8
255	cnv_TSPAN8	cnv	TSPAN8	YES	10
256	stv_EGR3	stv	EGR3	YES	18
256	stv_ESYT3	stv	ESYT3	YES	15
257	cnv_PTBP1	cnv	PTBP1	YES	20
257	stv_CRX	stv	CRX	YES	21
258	mrna_CENPI	mrna	CENPI	YES	12
258	mrna_HSP90AB3P	mrna	HSP90AB3P	NO	0
259	cnv_HINFP	cnv	HINFP	YES	32
259	mrna_FCER1A	mrna	FCER1A	YES	22
260	meth_CCT2	meth	CCT2	YES	30
260	mrna_CAV1	mrna	CAV1	YES	141
261	mrna_TDRD12	mrna	TDRD12	YES	19

261	stv_LPIN2	stv	LPIN2	YES	19
262	cnv_MKNK2	cnv	MKNK2	YES	27
263	cnv_SCN4A	cnv	SCN4A	YES	20
264	mrna_HTRA1	mrna	HTRA1	YES	24
265	meth_CYSLTR2	meth	CYSLTR2	YES	20
265	mrna_WTIP	mrna	WTIP	YES	20
267	mrna_CCL8	mrna	CCL8	YES	31
268	mrna_BUB1B	mrna	BUB1B	YES	40
268	stv_CSRNP3	stv	CSRNP3	YES	12
269	meth_GPR25	meth	GPR25	YES	9
269	mrna_DNA2	mrna	DNA2	YES	46
270	meth_CFL1	meth	CFL1	YES	41
270	meth_MMP25	meth	MMP25	YES	18
271	mrna_NEIL3	mrna	NEIL3	YES	22
272	cnv_OR8B8	cnv	OR8B8	YES	12
273	mrna_MFAP4	mrna	MFAP4	YES	15
274	cnv_SUCLG2	cnv	SUCLG2	YES	20
274	mrna_ELN	mrna	ELN	YES	17
275	mrna_KERA	mrna	KERA	YES	15
275	mrna_SAE1	mrna	SAE1	YES	19
276	cnv_FASN	cnv	FASN	YES	53
276	meth_RASSF2	meth	RASSF2	YES	31
277	cnv_AATK	cnv	AATK	YES	20
277	meth_SPG20	meth	SPG20	YES	17
278	meth_CTPS1	meth	CTPS1	YES	17
278	meth_PES1	meth	PES1	YES	21
279	meth_RASGRP2	meth	RASGRP2	YES	22
279	mrna_ENOPH1	mrna	ENOPH1	YES	13
280	meth_MKX	meth	MKX	YES	19
280	meth_NAE1	meth	NAE1	YES	18
281	meth_RORA	meth	RORA	YES	54
281	stv_MYRIP	stv	MYRIP	YES	22
282	cnv_VMP1	cnv	VMP1	YES	19
282	meth_RECQL5	meth	RECQL5	YES	33
283	cnv_ANKK1	cnv	ANKK1	YES	8
283	meth_VIPR2	meth	VIPR2	YES	14
284	meth_PAN3	meth	PAN3	YES	20
284	mrna_MTL5	mrna	MTL5	YES	9
285	cnv_GPRC5C	cnv	GPRC5C	YES	13
285	stv_ADGRG1	stv	ADGRG1	YES	38
286	meth_PKDREJ	meth	PKDREJ	YES	14
286	mrna_USP18	mrna	USP18	YES	15
287	meth_NMUR1	meth	NMUR1	YES	20
287	mrna_COL8A2	mrna	COL8A2	YES	16
288	cnv_PPP4R2	cnv	PPP4R2	YES	15
288	mrna_RRAD	mrna	RRAD	YES	12
289	cnv_GPX4	cnv	GPX4	YES	23

289	mrna_CHAF1A	mrna	CHAF1A	YES	16
290	stv_CPA3	stv	CPA3	YES	15
291	cnv_CYGB	cnv	CYGB	YES	25
291	stv_SLITRK6	stv	SLITRK6	YES	26
292	meth_CHID1	meth	CHID1	YES	19
293	cnv_HMHA1	cnv	HMHA1	YES	8
293	meth_AKT3	meth	AKT3	YES	21
294	stv_ST8SIA4	stv	ST8SIA4	YES	16
295	cnv_SAP30BP	cnv	SAP30BP	YES	8
295	meth_DCLK1	meth	DCLK1	YES	30
296	cnv_CCND1	cnv	CCND1	YES	72
296	mrna_PSRC1	mrna	PSRC1	YES	21
297	mrna_RNASEH2A	mrna	RNASEH2A	YES	20
297	mrna_PTH1R	mrna	PTH1R	YES	39
298	mrna_DLGAP5	mrna	DLGAP5	YES	17
298	mrna_SLC2A12	mrna	SLC2A12	YES	21
299	cnv_STK11	cnv	STK11	YES	65
299	meth_BMP10	meth	BMP10	YES	42
300	cnv_PLK5	cnv	PLK5	YES	14
300	meth_IMPA2	meth	IMPA2	YES	17
301	meth_HTR6	meth	HTR6	YES	23
302	meth_DDX6	meth	DDX6	YES	32
303	cnv_HTR3B	cnv	HTR3B	YES	16
304	cnv_RLN1	cnv	RLN1	YES	4
304	mrna_EGFR	mrna	EGFR	YES	176
305	meth_GSTP1	meth	GSTP1	YES	73
305	meth_OSBPL7	meth	OSBPL7	YES	19
306	cnv_MAFG	cnv	MAFG	YES	19
307	meth_ACVRL1	meth	ACVRL1	YES	77
308	cnv_KANK1	cnv	KANK1	YES	22
309	cnv_KCNG1	cnv	KCNG1	YES	17
309	meth_GLP1R	meth	GLP1R	YES	25
310	meth_PTGS1	meth	PTGS1	YES	29
310	mrna_GPC2	mrna	GPC2	YES	19
311	mrna_NEFL	mrna	NEFL	YES	49
312	stv_THEMIS	stv	THEMIS	YES	11
312	stv_WNK3	stv	WNK3	YES	29
313	meth_PKIA	meth	PKIA	YES	15
313	meth_UIMC1	meth	UIMC1	YES	20
314	mrna_TCEB1	mrna	TCEB1	YES	17
314	mrna_TONSL	mrna	TONSL	YES	17
315	meth_FCN2	meth	FCN2	YES	21
315	stv_SRRT	stv	SRRT	YES	18
316	cnv_SCN2B	cnv	SCN2B	YES	24
316	mrna_CNTN1	mrna	CNTN1	YES	16
317	cnv_MC3R	cnv	MC3R	YES	25
317	stv_KERA	stv	KERA	YES	15

318	meth_KL	meth	KL	YES	39
319	mrna_YBX2	mrna	YBX2	YES	22
319	mrna_MMS22L	mrna	MMS22L	YES	11
320	cnv_CDKN2B	cnv	CDKN2B	YES	30
320	mrna_SGOL1	mrna	SGOL1	YES	17
321	cnv_EDN3	cnv	EDN3	YES	36
321	cnv_RAB39A	cnv	RAB39A	YES	19
322	cnv_DSCAML1	cnv	DSCAML1	YES	17
322	cnv_NPLOC4	cnv	NPLOC4	YES	20
323	cnv_CLMP	cnv	CLMP	YES	9
323	cnv_IFNA13	cnv	IFNA13	YES	20
324	mrna_MCM5	mrna	MCM5	YES	20
324	mrna_FMR1	mrna	FMR1	YES	104
325	meth_COL9A2	meth	COL9A2	YES	9
326	cnv_MRPS7	cnv	MRPS7	YES	14
326	cnv_PITPNM1	cnv	PITPNM1	YES	25
327	cnv_SRC	cnv	SRC	YES	172
328	mirna_MIR185	mirna	MIR185	YES	1
328	mrna_STIL	mrna	STIL	YES	24
329	cnv_DPM1	cnv	DPM1	YES	21
330	cnv_MED17	cnv	MED17	YES	21
330	mrna_PSMD12	mrna	PSMD12	YES	38
331	mrna_RAD51AP1	mrna	RAD51AP1	YES	18
332	meth_PTX3	meth	PTX3	YES	21
332	stv_STARD3	stv	STARD3	YES	26
333	stv_DENND1B	stv	DENND1B	YES	16
334	meth_KRT7	meth	KRT7	YES	11
335	stv_PTPN11	stv	PTPN11	YES	85
336	meth_MYLK	meth	MYLK	YES	30
337	stv_ABO	stv	ABO	YES	10
338	meth_ZHX3	meth	ZHX3	YES	17
338	mrna_RUNX1	mrna	RUNX1	YES	38
339	meth_FOXJ1	meth	FOXJ1	YES	43
340	mrna_PGAP3	mrna	PGAP3	YES	10
341	cnv_FOXR1	cnv	FOXR1	YES	15
342	mrna_PLK1	mrna	PLK1	YES	79
343	stv_CR1	stv	CR1	YES	26
344	cnv_PRPSAP1	cnv	PRPSAP1	YES	10
345	meth_MICA	meth	MICA	YES	24
345	mrna_NOV	mrna	NOV	YES	43
346	mrna_TBRG4	mrna	TBRG4	YES	8
347	mrna_CBX2	mrna	CBX2	YES	17
347	stv_ATP6V1B2	stv	ATP6V1B2	YES	30
348	meth_RRAS2	meth	RRAS2	YES	16
349	meth_MRAP2	meth	MRAP2	YES	17
349	stv_PPA1	stv	PPA1	YES	11
351	cnv_BCL9L	cnv	BCL9L	YES	16

352	meth_KRBA2	meth	KRBA2	YES	4
352	mrna_FLNC	mrna	FLNC	YES	17
353	mrna_CTTN	mrna	CTTN	YES	43
353	stv_HLA.C	stv	HLA.C	NO	0
354	meth_GATA2	meth	GATA2	YES	68
354	stv_ABCB11	stv	ABCB11	YES	24
356	meth_C2	meth	C2	YES	17
356	mrna_KIAA0319	mrna	KIAA0319	YES	13
357	meth_TBC1D10A	meth	TBC1D10A	YES	20
357	stv_BCKDK	stv	BCKDK	YES	16
358	cnv_CACNG1	cnv	CACNG1	YES	16
358	meth_APPBP2	meth	APPBP2	YES	13
359	meth_ECE1	meth	ECE1	YES	36
359	mrna_PARP2	mrna	PARP2	YES	18
360	meth_DCAF13	meth	DCAF13	YES	16
360	meth_DUOX1	meth	DUOX1	YES	23
361	cnv_FHIT	cnv	FHIT	YES	21
361	meth_PAPD4	meth	PAPD4	YES	18
362	cnv_ACTG1	cnv	ACTG1	YES	31
362	cnv_MIDN	cnv	MIDN	YES	9
363	meth_CDC25A	meth	CDC25A	YES	25
364	cnv_ADAMTS8	cnv	ADAMTS8	YES	15
364	meth_BPTF	meth	BPTF	YES	28
365	meth_CARD11	meth	CARD11	YES	37
365	mrna_COL14A1	mrna	COL14A1	YES	20
366	cnv_SRSF1	cnv	SRSF1	YES	32
366	meth_CASP4	meth	CASP4	YES	31
367	meth_HERPUD1	meth	HERPUD1	YES	25
367	meth_SALL1	meth	SALL1	YES	46
368	meth_AEBP1	meth	AEBP1	YES	24
368	meth_KCNG1	meth	KCNG1	YES	17
369	cnv_FEZ1	cnv	FEZ1	YES	25
369	meth_HSPB2	meth	HSPB2	YES	9
370	meth_AKR1A1	meth	AKR1A1	YES	19
370	meth_SLC25A33	meth	SLC25A33	YES	23
371	stv_ALPL	stv	ALPL	YES	30
371	stv_CD177	stv	CD177	YES	10
372	mrna_NRG2	mrna	NRG2	YES	24
372	stv_NRCAM	stv	NRCAM	YES	31
373	cnv_MCOLN3	cnv	MCOLN3	YES	10
373	cnv_SSX2IP	cnv	SSX2IP	YES	21
374	meth_LOXL4	meth	LOXL4	YES	13
374	stv_PIP5K1C	stv	PIP5K1C	YES	43
376	cnv_UBE2O	cnv	UBE2O	YES	19
377	meth_DKK1	meth	DKK1	YES	58
378	mrna_KRT14	mrna	KRT14	YES	23
378	mrna_KIFC1	mrna	KIFC1	YES	23

379	cnv_DGKE	cnv	DGKE	YES	20
380	cnv_GXYLT2	cnv	GXYLT2	YES	6
381	cnv_USP28	cnv	USP28	YES	22
381	meth_PPM1D	meth	PPM1D	YES	17
382	meth_GDF5	meth	GDF5	YES	37
383	cnv_ALG9	cnv	ALG9	YES	13
383	mrna_FOXC2	mrna	FOXC2	YES	62
384	cnv_MBD3	cnv	MBD3	YES	35
384	mrna_FAM171A1	mrna	FAM171A1	YES	3
385	meth_EPHA10	meth	EPHA10	YES	21
386	meth_IL1RL2	meth	IL1RL2	YES	16
387	mrna_GRIA3	mrna	GRIA3	YES	21
388	cnv_SNX19	cnv	SNX19	YES	16
389	cnv_UTS2R	cnv	UTS2R	YES	29
390	mrna_RAD21	mrna	RAD21	YES	33
390	mrna_FLRT2	mrna	FLRT2	YES	37
391	cnv_SECTM1	cnv	SECTM1	YES	13
391	meth_STAP1	meth	STAP1	YES	29
392	mrna_PTTG1	mrna	PTTG1	YES	25
393	meth_KLHL21	meth	KLHL21	YES	13
394	mrna_ADAMTS16	mrna	ADAMTS16	YES	12
395	stv_TSNAXIP1	stv	TSNAXIP1	YES	8
396	meth_PSMD12	meth	PSMD12	YES	38
396	meth_XAF1	meth	XAF1	YES	10
397	mrna_TMEM97	mrna	TMEM97	YES	12
398	mrna_CNTNAP3	mrna	CNTNAP3	YES	6
398	mrna_GEN1	mrna	GEN1	YES	20
399	meth_CRYBB3	meth	CRYBB3	YES	3
399	meth_CXCL6	meth	CXCL6	YES	23
400	cnv_FLI1	cnv	FLI1	YES	23
400	cnv_SRSF2	cnv	SRSF2	YES	25
401	meth_DGKI	meth	DGKI	YES	41
401	mirna_MIR505	mirna	MIR505	YES	1
402	cnv_GAMT	cnv	GAMT	YES	16
402	stv_PIKFYVE	stv	PIKFYVE	YES	35
403	mrna_TCOF1	mrna	TCOF1	YES	14
403	mrna_NCAPH	mrna	NCAPH	YES	18
404	mrna_CENPM	mrna	CENPM	YES	10
404	mrna_DNAJC9	mrna	DNAJC9	YES	10
405	cnv_GNG7	cnv	GNG7	YES	13
406	cnv_JAM3	cnv	JAM3	YES	34
406	meth_CCL8	meth	CCL8	YES	31
407	cnv_PANX1	cnv	PANX1	YES	34
407	meth_PSAT1	meth	PSAT1	YES	10
408	meth_KRT31	meth	KRT31	YES	11
408	mrna_IRX1	mrna	IRX1	YES	9
409	meth_NPTX1	meth	NPTX1	YES	14

409	meth_PRKCH	meth	PRKCH	YES	34
410	mrna_ACTG2	mrna	ACTG2	YES	16
411	meth_HSPB6	meth	HSPB6	YES	12
411	mrna_ANKRD13D	mrna	ANKRD13D	YES	5
412	stv_JMJD1C	stv	JMJD1C	YES	18
413	meth_CTF1	meth	CTF1	YES	14
414	cnv_ADNP	cnv	ADNP	YES	33
415	meth_CDH5	meth	CDH5	YES	28
416	mrna_SMC4	mrna	SMC4	YES	21
416	mrna_DDIAS	mrna	DDIAS	YES	5
417	cnv_GALR2	cnv	GALR2	YES	30
417	stv_SMAD7	stv	SMAD7	YES	64
418	meth_FLT1	meth	FLT1	YES	50
419	meth_BCCIP	meth	BCCIP	YES	23
419	mrna_ARHGAP11B	mrna	ARHGAP11B	YES	6
420	cnv_SSTR2	cnv	SSTR2	YES	31
421	cnv_C11orf63	cnv	C11orf63	YES	4
423	mirna_MIR16	mirna	MIR16	NO	0
423	mrna_FAM132B	mrna	FAM132B	YES	5
424	mrna_EXOSC9	mrna	EXOSC9	YES	32
424	stv_CNGA4	stv	CNGA4	YES	18
425	mrna_MCM2	mrna	MCM2	YES	30
426	meth_FGF19	meth	FGF19	YES	26
426	meth_WNT3A	meth	WNT3A	YES	101
428	meth_ALPL	meth	ALPL	YES	30
429	meth_TBC1D1	meth	TBC1D1	YES	12
430	mrna_PBK	mrna	PBK	YES	17
430	mrna_USP32	mrna	USP32	YES	14
431	stv_MCF2	stv	MCF2	YES	16
431	stv_SMAD2	stv	SMAD2	YES	91
432	meth_DIO3	meth	DIO3	YES	16
432	meth_EPB41	meth	EPB41	YES	36
433	meth_ZEB1	meth	ZEB1	YES	45
434	meth_ATP8B1	meth	ATP8B1	YES	33
434	mrna_CKAP2	mrna	CKAP2	YES	14
435	mrna_CDC25B	mrna	CDC25B	YES	28
435	stv_MRPL51	stv	MRPL51	YES	12
436	mrna_CDKN2D	mrna	CDKN2D	YES	27
436	stv_NR4A1	stv	NR4A1	YES	42
437	cnv_LPPR3	cnv	LPPR3	NO	0
437	mrna_PDGFD	mrna	PDGFD	YES	28
438	meth_CD300LG	meth	CD300LG	YES	13
439	cnv_RAE1	cnv	RAE1	YES	31
440	cnv_DCPS	cnv	DCPS	YES	21
440	meth_CTBP1	meth	CTBP1	YES	36
442	mrna_CELF3	mrna	CELF3	YES	15
442	stv_LAMA5	stv	LAMA5	YES	45

444	cnv_ATP9A	cnv	ATP9A	YES	20
444	cnv_UHRF2	cnv	UHRF2	YES	19
445	mrna_BBOX1	mrna	BBOX1	YES	14
445	stv_NUAK1	stv	NUAK1	YES	24
446	mrna_TTYH1	mrna	TTYH1	YES	24
446	stv_SLC30A9	stv	SLC30A9	YES	19
447	cnv_DDX5	cnv	DDX5	YES	63
448	cnv_CD3G	cnv	CD3G	YES	24
448	meth_ENTPD3	meth	ENTPD3	YES	13
449	meth_ADAMTSL5	meth	ADAMTSL5	YES	7
450	cnv_GRIN2C	cnv	GRIN2C	YES	34
451	cnv_FN3K	cnv	FN3K	YES	10
451	stv_RBM25	stv	RBM25	YES	12
452	stv_CDC42BPA	stv	CDC42BPA	YES	23
452	stv_RGS7	stv	RGS7	YES	16
453	meth_CD72	meth	CD72	YES	10
453	stv_GRIK1	stv	GRIK1	YES	30
454	meth_CYP2E1	meth	CYP2E1	YES	35
454	mrna_SCG2	mrna	SCG2	YES	24
455	cnv_DMRT3	cnv	DMRT3	YES	17
455	meth_DLG2	meth	DLG2	YES	24
456	cnv_TBX4	cnv	TBX4	YES	13
457	cnv_TLK2	cnv	TLK2	YES	24
457	mrna_BHLHE41	mrna	BHLHE41	YES	29
458	mirna_MIR100	mirna	MIR100	YES	2
458	stv_PNPLA8	stv	PNPLA8	YES	29
459	cnv_KCNJ16	cnv	KCNJ16	YES	15
459	meth_CST6	meth	CST6	YES	11
460	mrna_FEN1	mrna	FEN1	YES	37
460	stv_ATP9A	stv	ATP9A	YES	20
461	stv_HSPD1	stv	HSPD1	YES	68
462	mirna_MIR134	mirna	MIR134	YES	5
464	meth_GABRB1	meth	GABRB1	YES	35
464	mrna_SNCA	mrna	SNCA	YES	140
465	cnv_CASS4	cnv	CASS4	YES	7
465	cnv_RAB3IP	cnv	RAB3IP	YES	15
466	meth_CNTN4	meth	CNTN4	YES	16
466	meth_NODAL	meth	NODAL	YES	81
467	meth_LHX6	meth	LHX6	YES	15
468	cnv_ERMP1	cnv	ERMP1	YES	9
468	meth_HIST1H4L	meth	HIST1H4L	YES	36
469	cnv_BSX	cnv	BSX	YES	13
469	meth_PRRG4	meth	PRRG4	YES	6
470	cnv_BMP7	cnv	BMP7	YES	101
470	mrna_CBX3	mrna	CBX3	YES	22
471	cnv_SYDE2	cnv	SYDE2	YES	8
471	meth_CACNB2	meth	CACNB2	YES	32

472	cnv_UPK2	cnv	UPK2	YES	9
472	stv_DDX20	stv	DDX20	YES	38
473	cnv_FGF19	cnv	FGF19	YES	26
474	mrna_EDN3	mrna	EDN3	YES	36
474	mrna_MEIS1	mrna	MEIS1	YES	25
475	cnv_PGR	cnv	PGR	YES	37
475	stv_MYOM1	stv	MYOM1	YES	23
476	cnv_ZNF202	cnv	ZNF202	YES	17
476	meth_OSGIN2	meth	OSGIN2	YES	7
477	meth_FBN2	meth	FBN2	YES	19
478	cnv_IL10RA	cnv	IL10RA	YES	12
478	cnv_PREX1	cnv	PREX1	YES	33
479	cnv_NDUFS7	cnv	NDUFS7	YES	21
479	meth_LPCAT1	meth	LPCAT1	YES	32
480	mrna_DDX12P	mrna	DDX12P	NO	0
480	stv_KAT2A	stv	KAT2A	YES	59
481	cnv_ACE	cnv	ACE	YES	61
481	mrna_MDC1	mrna	MDC1	YES	13
482	meth_ADAM19	meth	ADAM19	YES	14
482	mrna_ANXA8	mrna	ANXA8	YES	16
483	cnv_CD79B	cnv	CD79B	YES	22
485	meth_RNF220	meth	RNF220	YES	9
485	mrna_CCNA2	mrna	CCNA2	YES	37
486	meth_SPAG6	meth	SPAG6	YES	11
486	meth_TNFRSF10D	meth	TNFRSF10D	YES	20
487	meth_SCN4B	meth	SCN4B	YES	26
488	stv_CYC1	stv	CYC1	YES	16
489	meth_CDC14B	meth	CDC14B	YES	27
489	mrna_RPL31	mrna	RPL31	YES	19
491	meth_RCSD1	meth	RCSD1	YES	4
491	stv_DRAXIN	stv	DRAXIN	YES	11
492	cnv_TEX2	cnv	TEX2	YES	7
493	mrna_GLI1	mrna	GLI1	YES	48
493	mrna_RUSC1	mrna	RUSC1	YES	21
494	meth_PNPLA2	meth	PNPLA2	YES	26
494	mrna_PLSCR4	mrna	PLSCR4	YES	12
495	meth_NKX2.8	meth	NKX2.8	NO	0
496	stv_PER3	stv	PER3	YES	13
497	mrna_WDR45B	mrna	WDR45B	YES	10
497	stv_MUC12	stv	MUC12	YES	9
498	meth_TNFRSF11B	meth	TNFRSF11B	YES	27
498	mrna_NPY2R	mrna	NPY2R	YES	41
499	cnv_ATP5L	cnv	ATP5L	YES	19
500	meth_UMOD	meth	UMOD	YES	30
500	mrna_DZIP1	mrna	DZIP1	YES	23
501	cnv_PRKAR1A	cnv	PRKAR1A	YES	39
501	mrna_TNNC1	mrna	TNNC1	YES	22

503	meth_HTR1B	meth	HTR1B	YES	39
504	cnv_TIMP2	cnv	TIMP2	YES	39
504	stv_DGKK	stv	DGKK	YES	17
505	cnv_TMC8	cnv	TMC8	YES	18
505	cnv_ZNF217	cnv	ZNF217	YES	17
506	cnv_MRGPRF	cnv	MRGPRF	YES	10
506	meth_KCNMB2	meth	KCNMB2	YES	18
507	mrna_PPP1R14A	mrna	PPP1R14A	YES	6
508	mrna_TK1	mrna	TK1	YES	23
508	mrna_STRA13	mrna	STRA13	YES	13
509	mirna_MIR130B	mirna	MIR130B	YES	1
509	stv_CEP126	stv	CEP126	YES	13
510	cnv_GUCY1A2	cnv	GUCY1A2	YES	15
510	cnv_PTGIS	cnv	PTGIS	YES	37
511	mrna_TENM2	mrna	TENM2	YES	33
512	cnv_MPZL2	cnv	MPZL2	YES	8
512	mrna_BRIP1	mrna	BRIP1	YES	44
513	cnv_DNASE2B	cnv	DNASE2B	YES	11
514	meth_TOM1L1	meth	TOM1L1	YES	24
515	cnv_PROK2	cnv	PROK2	YES	19
515	mrna_SLCO4C1	mrna	SLCO4C1	YES	17
516	meth_NLRP5	meth	NLRP5	YES	19
516	meth_TIPARP	meth	TIPARP	YES	24
517	meth_ANGPTL4	meth	ANGPTL4	YES	18
518	meth_ACOX2	meth	ACOX2	YES	24
518	mrna_KIAA0101	mrna	KIAA0101	YES	10
519	mrna_ARHGAP11A	mrna	ARHGAP11A	YES	6
521	stv_FRMD6	stv	FRMD6	YES	11
522	cnv_IFNA7	cnv	IFNA7	YES	22
523	meth_TMEM241	meth	TMEM241	YES	8
523	mrna_HSPB2	mrna	HSPB2	YES	9
524	meth_SST	meth	SST	YES	20
524	stv_NDUFS3	stv	NDUFS3	YES	23
525	cnv_NLRX1	cnv	NLRX1	YES	18
526	meth_SLC12A4	meth	SLC12A4	YES	20
526	mrna_EPHB1	mrna	EPHB1	YES	58
527	meth_KIRREL	meth	KIRREL	YES	12
527	meth_PDGFD	meth	PDGFD	YES	28
528	meth_COL9A3	meth	COL9A3	YES	10
528	mrna_FOXK2	mrna	FOXK2	YES	18
529	mrna_PTX3	mrna	PTX3	YES	21
529	stv_PRKAB1	stv	PRKAB1	YES	25
530	meth_ALDH1L1	meth	ALDH1L1	YES	15
531	cnv_FDXR	cnv	FDXR	YES	18
531	meth_FGF2	meth	FGF2	YES	83
532	stv_RAPGEF1	stv	RAPGEF1	YES	37
533	cnv_HSPA8	cnv	HSPA8	YES	77

534	meth_CYP26B1	meth	CYP26B1	YES	39
535	cnv_IFNA21	cnv	IFNA21	YES	20
536	cnv_GAA	cnv	GAA	YES	38
536	stv_SLC19A2	stv	SLC19A2	YES	14
537	cnv_AP3D1	cnv	AP3D1	YES	32
537	meth_AGA	meth	AGA	YES	14
538	cnv_FGF4	cnv	FGF4	YES	41
538	cnv_KCNB1	cnv	KCNB1	YES	48
539	cnv_TRPC6	cnv	TRPC6	YES	36
540	meth_NMUR2	meth	NMUR2	YES	31
542	cnv_APOA4	cnv	APOA4	YES	56
542	cnv_DAZAP1	cnv	DAZAP1	YES	13
543	cnv_TBX2	cnv	TBX2	YES	38
544	cnv_BCAS3	cnv	BCAS3	YES	37
545	cnv_STT3A	cnv	STT3A	YES	15
545	mrna_H6PD	mrna	H6PD	YES	20
546	cnv_SYCP2	cnv	SYCP2	YES	16
546	meth_CRYGC	meth	CRYGC	YES	7
547	meth_ID4	meth	ID4	YES	33
547	meth_SPATA18	meth	SPATA18	YES	10
548	meth_CACNG1	meth	CACNG1	YES	16
549	meth_ADRB2	meth	ADRB2	YES	65
549	stv_SCARF1	stv	SCARF1	YES	15
550	meth_RXFP3	meth	RXFP3	YES	15
550	stv_STK35	stv	STK35	YES	12
551	stv_SGOL2	stv	SGOL2	YES	9
552	meth_BATF	meth	BATF	YES	26
552	meth_EIF2S2	meth	EIF2S2	YES	14
553	cnv_PRKACB	cnv	PRKACB	YES	39
553	stv_FAM13B	stv	FAM13B	YES	6
554	stv_RB1	stv	RB1	YES	84
555	stv_CALD1	stv	CALD1	YES	17
556	cnv_ELMOD1	cnv	ELMOD1	YES	6
556	stv_FOS	stv	FOS	YES	64
558	cnv_TEX14	cnv	TEX14	YES	25
558	meth_GRM4	meth	GRM4	YES	21
559	meth_WNT2	meth	WNT2	YES	42
559	stv_CYP2D7	stv	CYP2D7	YES	17
560	mrna_CYR61	mrna	CYR61	YES	49
561	meth_ACTN3	meth	ACTN3	YES	38
561	mrna_PRIM1	mrna	PRIM1	YES	14
564	meth_NRROS	meth	NRROS	YES	10
565	meth_NGB	meth	NGB	YES	11
565	meth_TAAR2	meth	TAAR2	YES	8
566	mrna_PIP4K2C	mrna	PIP4K2C	YES	19
566	stv_RPS6KB1	stv	RPS6KB1	YES	77
567	mrna_CDK12	mrna	CDK12	YES	33

567	mrna_SIGLEC15	mrna	SIGLEC15	YES	9
568	cnv_FSTL3	cnv	FSTL3	YES	30
568	cnv_PAFAH1B2	cnv	PAFAH1B2	YES	22
569	cnv_BACE1	cnv	BACE1	YES	32
569	mrna_TICRR	mrna	TICRR	YES	13
570	meth_DOC2A	meth	DOC2A	YES	23
570	mrna_COL16A1	mrna	COL16A1	YES	15
571	mrna_STARD3	mrna	STARD3	YES	26
572	cnv_AMICA1	cnv	AMICA1	YES	16
572	meth_ADIG	meth	ADIG	YES	10
574	cnv_LMNB2	cnv	LMNB2	YES	9
575	meth_SLC22A16	meth	SLC22A16	YES	22
577	cnv_REXO2	cnv	REXO2	YES	18
577	mrna_HSPD1	mrna	HSPD1	YES	68
578	cnv_SH3GLB1	cnv	SH3GLB1	YES	41
578	mrna_ARHGEF38	mrna	ARHGEF38	YES	6
579	meth_ELN	meth	ELN	YES	17
580	mrna_PSMA7	mrna	PSMA7	YES	43
581	cnv_RPS21	cnv	RPS21	YES	24
581	mrna_VBP1	mrna	VBP1	YES	11
582	cnv_CADM1	cnv	CADM1	YES	35
582	mrna_PPP1CA	mrna	PPP1CA	YES	32
583	cnv_SORL1	cnv	SORL1	YES	56
583	meth_EPCAM	meth	EPCAM	YES	25
584	mrna_EZH2	mrna	EZH2	YES	69
584	mrna_TRAIP	mrna	TRAIP	YES	16
585	cnv_PALM	cnv	PALM	YES	32
585	meth_MNDA	meth	MNDA	YES	18
586	meth_G0S2	meth	G0S2	YES	8
586	mrna_PPFIA1	mrna	PPFIA1	YES	14
587	meth_ADAM12	meth	ADAM12	YES	16
587	stv_HAO1	stv	HAO1	YES	21
588	meth_KCNK17	meth	KCNK17	YES	13
588	meth_WDR82	meth	WDR82	YES	13
589	meth_WNT3	meth	WNT3	YES	46
589	mrna_TUBB	mrna	TUBB	YES	37
590	cnv_NT5C	cnv	NT5C	YES	18
590	meth_THBD	meth	THBD	YES	23
591	cnv_SMARCD2	cnv	SMARCD2	YES	18
593	mrna_RGN	mrna	RGN	YES	43
594	cnv_NOL11	cnv	NOL11	YES	12
594	meth_GRIN1	meth	GRIN1	YES	93
595	mrna_TRIM37	mrna	TRIM37	YES	28
596	meth_CDX2	meth	CDX2	YES	36
596	mrna_TRIP13	mrna	TRIP13	YES	20
597	cnv_CNTN5	cnv	CNTN5	YES	8
597	meth_HIF3A	meth	HIF3A	YES	22

598	cnv_ADAMTSL1	cnv	ADAMTSL1	YES	9
598	cnv_CBX4	cnv	CBX4	YES	24
599	mrna_LIG1	mrna	LIG1	YES	30
599	mrna_PLP1	mrna	PLP1	YES	20
600	cnv_THY1	cnv	THY1	YES	54
601	meth_BCL11A	meth	BCL11A	YES	23
601	meth_PTGIS	meth	PTGIS	YES	37
603	mrna_CLSPN	mrna	CLSPN	YES	17
603	mrna_PRSS12	mrna	PRSS12	YES	18
604	meth_COL7A1	meth	COL7A1	YES	24
604	meth_PI4KA	meth	PI4KA	YES	25
605	mrna_SEC61A2	mrna	SEC61A2	YES	11
606	stv_RSF1	stv	RSF1	YES	18
607	meth_ALOX15B	meth	ALOX15B	YES	36
607	stv_ACTN3	stv	ACTN3	YES	38
608	cnv_FBF1	cnv	FBF1	YES	15
609	cnv_ATP5D	cnv	ATP5D	YES	23
609	mrna_KLHL41	mrna	KLHL41	YES	28
610	meth_C6orf106	meth	C6orf106	YES	7
611	meth_SCG5	meth	SCG5	YES	12
612	mrna_KNSTRN	mrna	KNSTRN	YES	20
612	mrna_VSNL1	mrna	VSNL1	YES	8
613	meth_MAML1	meth	MAML1	YES	21
613	mrna_TGFB2	mrna	TGFB2	YES	119
614	mrna_ENPP6	mrna	ENPP6	YES	15
615	mrna_YEATS4	mrna	YEATS4	YES	20
615	stv_CTH	stv	CTH	YES	33
616	cnv_CHORDC1	cnv	CHORDC1	YES	11
617	cnv_CARD14	cnv	CARD14	YES	13
617	cnv_TMEM235	cnv	TMEM235	YES	6
618	cnv_ALKBH8	cnv	ALKBH8	YES	25
618	cnv_SIK3	cnv	SIK3	YES	15
619	cnv_CTCFL	cnv	CTCFL	YES	23
619	stv_EPHA1	stv	EPHA1	YES	34
620	meth_ADAP2	meth	ADAP2	YES	15
620	mrna_RANBP1	mrna	RANBP1	YES	28
621	meth_ST8SIA1	meth	ST8SIA1	YES	16
622	cnv_CLTC	cnv	CLTC	YES	61
623	meth_CD70	meth	CD70	YES	17
624	meth_SLC30A2	meth	SLC30A2	YES	22
625	mrna_TCF7L1	mrna	TCF7L1	YES	26
626	mrna_ZDHHC13	mrna	ZDHHC13	YES	17
627	cnv_CDC34	cnv	CDC34	YES	27
627	mrna_MTBP	mrna	MTBP	YES	8
628	meth_AKAP3	meth	AKAP3	YES	15
629	mrna_XRCC2	mrna	XRCC2	YES	41
630	stv_MMP26	stv	MMP26	YES	12

630	stv_SNX9	stv	SNX9	YES	39
631	cnv_VPS11	cnv	VPS11	YES	39
632	meth_UBAC2	meth	UBAC2	YES	10
632	mrna_RBM20	mrna	RBM20	YES	9
633	mrna_HOXA7	mrna	HOXA7	YES	24
633	mrna_HCN3	mrna	HCN3	YES	29
634	cnv_ARHGEF12	cnv	ARHGEF12	YES	17
634	meth_ABCA7	meth	ABCA7	YES	41
635	meth_HOXD10	meth	HOXD10	YES	29
635	mrna_FST	mrna	FST	YES	20
636	cnv_BRIP1	cnv	BRIP1	YES	44
636	meth_SLC23A1	meth	SLC23A1	YES	34
637	cnv_IFNW1	cnv	IFNW1	YES	19
638	mrna_CFI	mrna	CFI	YES	17
638	stv_DOCK9	stv	DOCK9	YES	12
639	meth_CHST13	meth	CHST13	YES	11
639	mrna_BRCA1	mrna	BRCA1	YES	95
640	mrna_SPNS3	mrna	SPNS3	YES	10
641	mrna_ADAM33	mrna	ADAM33	YES	10
642	cnv_HS2ST1	cnv	HS2ST1	YES	10
642	meth_LIN28A	meth	LIN28A	YES	39
643	meth_TESC	meth	TESC	YES	34
644	mrna_PROX1	mrna	PROX1	YES	81
644	stv_SPCS2	stv	SPCS2	YES	12
646	meth_PRICKLE2	meth	PRICKLE2	YES	8
646	meth_PRKAR1B	meth	PRKAR1B	YES	25
647	cnv_CD274	cnv	CD274	YES	23
647	cnv_FOXP1	cnv	FOXP1	YES	74
648	meth_ETV3	meth	ETV3	YES	20
649	meth_ASZ1	meth	ASZ1	YES	12
649	mrna_E2F7	mrna	E2F7	YES	30
650	cnv_CDC42EP4	cnv	CDC42EP4	YES	17
652	meth_BNC1	meth	BNC1	YES	13
652	meth_MYO3A	meth	MYO3A	YES	29
653	mrna_PKHD1	mrna	PKHD1	YES	32
654	mrna_KPNA2	mrna	KPNA2	YES	21
655	cnv_THEG	cnv	THEG	YES	6
655	meth_EXPH5	meth	EXPH5	YES	8
656	meth_DHCR24	meth	DHCR24	YES	45
656	meth_SERPINA1	meth	SERPINA1	YES	29
657	meth_CDSN	meth	CDSN	YES	16
657	mrna_OGN	mrna	OGN	YES	15
658	cnv_SLN	cnv	SLN	YES	21
658	mrna_ANO2	mrna	ANO2	YES	16
659	mirna_LET7C	mirna	LET7C	NO	0
660	cnv_SALL4	cnv	SALL4	YES	31
660	meth_VCAN	meth	VCAN	YES	27

661	meth_HCRTR2	meth	HCRTR2	YES	22
661	mrna_GPS1	mrna	GPS1	YES	15
662	meth_CRYBA2	meth	CRYBA2	YES	7
663	cnv_ABCA7	cnv	ABCA7	YES	41
664	cnv_NOX4	cnv	NOX4	YES	53
664	mrna_NDC80	mrna	NDC80	YES	28
665	cnv_RBM38	cnv	RBM38	YES	17
666	cnv_GPR27	cnv	GPR27	YES	9
666	mrna_FANCI	mrna	FANCI	YES	13
667	meth_EGFR	meth	EGFR	YES	176
668	mrna_DCAF7	mrna	DCAF7	YES	12
668	stv_CUX1	stv	CUX1	YES	24
669	stv_SLC1A6	stv	SLC1A6	YES	24
670	meth_TPM1	meth	TPM1	YES	45
671	meth_IL1A	meth	IL1A	YES	34
672	mrna_CHST3	mrna	CHST3	YES	12
672	mrna_CIT	mrna	CIT	YES	36
673	cnv_FEZF2	cnv	FEZF2	YES	18
674	stv_SNRNP200	stv	SNRNP200	YES	24
675	meth_PPCS	meth	PPCS	YES	8
675	meth_SCARB1	meth	SCARB1	YES	60
676	stv_PHKA2	stv	PHKA2	YES	14
677	cnv_CSNK1G2	cnv	CSNK1G2	YES	23
678	cnv_IFT46	cnv	IFT46	YES	17
678	meth_CISH	meth	CISH	YES	18
679	cnv_NCAPD3	cnv	NCAPD3	YES	15
679	meth_FZD10	meth	FZD10	YES	26
680	meth_IFT140	meth	IFT140	YES	35
681	stv_RHOT1	stv	RHOT1	YES	26
683	cnv_H3F3B	cnv	H3F3B	YES	45
683	stv_DOCK6	stv	DOCK6	YES	8
684	stv_ATR	stv	ATR	YES	39
685	cnv_LYZ	cnv	LYZ	YES	23
685	cnv_MAFB	cnv	MAFB	YES	26
686	cnv_DIRAS1	cnv	DIRAS1	YES	9
686	cnv_MAML2	cnv	MAML2	YES	10
687	cnv_BARHL2	cnv	BARHL2	YES	20
687	meth_FLNC	meth	FLNC	YES	17
688	cnv_SPA17	cnv	SPA17	YES	12
689	mrna_CCNB2	mrna	CCNB2	YES	19
690	cnv_SPO11	cnv	SPO11	YES	30
690	meth_FBLN5	meth	FBLN5	YES	19
691	cnv_BCAS1	cnv	BCAS1	YES	2
691	cnv_IFNE	cnv	IFNE	YES	18
692	mrna_KIF20B	mrna	KIF20B	YES	48
692	mrna_UHRF1	mrna	UHRF1	YES	40
693	meth_KRT38	meth	KRT38	YES	7

693	stv_PUS7	stv	PUS7	YES	8
694	mrna_ORC1	mrna	ORC1	YES	19
694	stv_FBLN5	stv	FBLN5	YES	19
695	cnv_MRPL12	cnv	MRPL12	YES	14
695	mrna_POLE2	mrna	POLE2	YES	18
696	stv_DPP8	stv	DPP8	YES	9
697	cnv_PVRL1	cnv	PVRL1	YES	38
697	mrna_CENPE	mrna	CENPE	YES	43
698	meth_CD248	meth	CD248	YES	15
698	meth_IHH	meth	IHH	YES	66
699	cnv_SCN4B	cnv	SCN4B	YES	26
700	meth_EPHB6	meth	EPHB6	YES	17
701	cnv_ONECUT3	cnv	ONECUT3	YES	14
702	meth_NEUROD6	meth	NEUROD6	YES	13
703	cnv_MITF	cnv	MITF	YES	26
703	mrna_NUP188	mrna	NUP188	YES	23
704	stv_MINK1	stv	MINK1	YES	40
705	cnv_AES	cnv	AES	YES	20
706	meth_SYT2	meth	SYT2	YES	25
706	mrna_CXCL2	mrna	CXCL2	YES	17
707	cnv_B4GALT5	cnv	B4GALT5	YES	15
708	meth_ARHGDIG	meth	ARHGDIG	YES	15
708	mrna_BRCA2	mrna	BRCA2	YES	58
709	meth_GPR65	meth	GPR65	YES	18
710	meth_DVL2	meth	DVL2	YES	53
710	meth_TSPAN8	meth	TSPAN8	YES	10
711	mrna_PSMD3	mrna	PSMD3	YES	42
713	mrna_H2AFY	mrna	H2AFY	YES	49
714	meth_PDE10A	meth	PDE10A	YES	24
715	meth_ARHGAP15	meth	ARHGAP15	YES	9
716	meth_FGF6	meth	FGF6	YES	29
716	meth_PIK3R1	meth	PIK3R1	YES	80
717	mrna_MYBL2	mrna	MYBL2	YES	19
718	stv_MUC15	stv	MUC15	YES	7
719	mrna_ZFP36	mrna	ZFP36	YES	36
720	cnv_RECQL5	cnv	RECQL5	YES	33
721	meth_FES	meth	FES	YES	48
722	mrna_CENPQ	mrna	CENPQ	YES	10
723	cnv_SLC25A10	cnv	SLC25A10	YES	31
724	meth_ASS1	meth	ASS1	YES	22
724	meth_GAL	meth	GAL	YES	33
725	meth_RNF125	meth	RNF125	YES	21
725	mrna_LHX2	mrna	LHX2	YES	32
726	meth_MTNR1A	meth	MTNR1A	YES	17
726	stv_ADCK4	stv	ADCK4	YES	4
727	mrna_CKS2	mrna	CKS2	YES	18
728	mrna_NEK2	mrna	NEK2	YES	50

729	mrna_PROS1	mrna	PROS1	YES	24
729	stv_FOSB	stv	FOSB	YES	24
730	cnv_LMOD3	cnv	LMOD3	YES	16
730	cnv_SMURF2	cnv	SMURF2	YES	31
731	cnv_TRAPPC4	cnv	TRAPPC4	YES	18
732	meth_GPRC5A	meth	GPRC5A	YES	17
732	mrna_SLC26A3	mrna	SLC26A3	YES	40
733	mrna_CENPH	mrna	CENPH	YES	14
734	mrna_LRP8	mrna	LRP8	YES	41
734	stv_SORCS3	stv	SORCS3	YES	8
735	cnv_TREH	cnv	TREH	YES	13
735	mrna_PDE1C	mrna	PDE1C	YES	14
737	meth_ATP10A	meth	ATP10A	YES	18
738	cnv_JSRP1	cnv	JSRP1	YES	7
739	mrna_ACSM1	mrna	ACSM1	YES	28
740	meth_TAL2	meth	TAL2	YES	13
740	stv_FASTKD2	stv	FASTKD2	YES	12
741	stv_MAP4K4	stv	MAP4K4	YES	22
742	cnv_ACOX1	cnv	ACOX1	YES	34
744	mrna_OIP5	mrna	OIP5	YES	17
744	mrna_RAD54B	mrna	RAD54B	YES	16
746	cnv_CD7	cnv	CD7	YES	11
746	meth_SOX11	meth	SOX11	YES	66
747	mrna_RPL34	mrna	RPL34	YES	19
747	mrna_FOS	mrna	FOS	YES	64
748	cnv_ATP5H	cnv	ATP5H	YES	22
748	stv_MEIS2	stv	MEIS2	YES	26
749	cnv_GRB2	cnv	GRB2	YES	73
749	meth_MT3	meth	MT3	YES	81
750	cnv_APLP2	cnv	APLP2	YES	22
750	cnv_TEX12	cnv	TEX12	YES	4
751	meth_ZNF385A	meth	ZNF385A	YES	34
751	stv_LPAR4	stv	LPAR4	YES	13
752	cnv_TIMM8B	cnv	TIMM8B	YES	15
752	stv_SPEN	stv	SPEN	YES	18
754	cnv_SHC2	cnv	SHC2	YES	14
755	meth_CKMT2	meth	CKMT2	YES	13
755	mrna_RFC2	mrna	RFC2	YES	24
756	cnv_BUD13	cnv	BUD13	YES	6
756	meth_DOLPP1	meth	DOLPP1	YES	11
759	mrna_RFC5	mrna	RFC5	YES	24
759	mrna_INCENP	mrna	INCENP	YES	26
760	stv_SNCAIP	stv	SNCAIP	YES	15
761	meth_ADORA2A	meth	ADORA2A	YES	81
761	meth_CD44	meth	CD44	YES	42
762	cnv_IFNG	cnv	IFNG	YES	99
763	mrna_ARSE	mrna	ARSE	YES	15

765	meth_GRASP	meth	GRASP	YES	12
766	meth_KCNS2	meth	KCNS2	YES	18
767	meth_DPYSL4	meth	DPYSL4	YES	10
768	mrna_TSHZ2	mrna	TSHZ2	YES	13
769	meth_MACF1	meth	MACF1	YES	28
770	meth_TICAM1	meth	TICAM1	YES	43
771	meth_EPB41L1	meth	EPB41L1	YES	13
772	cnv_IL18	cnv	IL18	YES	57
772	mrna_IL34	mrna	IL34	YES	12
773	stv_TCTN1	stv	TCTN1	YES	21
775	mrna_DSG1	mrna	DSG1	YES	30
776	meth_FSTL1	meth	FSTL1	YES	11
778	cnv_HID1	cnv	HID1	YES	13
778	stv_ADAMTS10	stv	ADAMTS10	YES	14
779	meth_SULT4A1	meth	SULT4A1	YES	12
779	mrna_COL17A1	mrna	COL17A1	YES	17
780	meth_LYN	meth	LYN	YES	134
782	cnv_CNTLN	cnv	CNTLN	YES	12
782	stv_FUT3	stv	FUT3	YES	17
783	meth_KCNK3	meth	KCNK3	YES	28
784	mrna_PLXDC2	mrna	PLXDC2	YES	5
785	cnv_MPDZ	cnv	MPDZ	YES	19
785	meth_RNH1	meth	RNH1	YES	10
787	mrna_POLD1	mrna	POLD1	YES	47
787	mrna_RNF175	mrna	RNF175	YES	10
788	cnv_CD300A	cnv	CD300A	YES	30
788	stv_DPY19L2	stv	DPY19L2	YES	12
789	cnv_CLCA2	cnv	CLCA2	YES	23
789	cnv_PSMC5	cnv	PSMC5	YES	60
790	mrna_IQGAP3	mrna	IQGAP3	YES	23
791	meth_KLF13	meth	KLF13	YES	15
792	stv_MAOB	stv	MAOB	YES	27
793	stv_SSH1	stv	SSH1	YES	35
794	meth_CPNE6	meth	CPNE6	YES	24
794	mrna_KIF23	mrna	KIF23	YES	35
795	mrna_SYN2	mrna	SYN2	YES	10
795	stv_ANK2	stv	ANK2	YES	73
797	mrna_KIF4A	mrna	KIF4A	YES	29
797	mrna_GINS2	mrna	GINS2	YES	11
798	meth_FFAR2	meth	FFAR2	YES	26
798	mrna_RAD9A	mrna	RAD9A	YES	25
799	cnv_KCNMB4	cnv	KCNMB4	YES	19
799	meth_TFF1	meth	TFF1	YES	13
800	cnv_ZBTB16	cnv	ZBTB16	YES	49
801	meth_TGFBI	meth	TGFBI	YES	21
803	meth_SCNN1B	meth	SCNN1B	YES	24
803	mrna_LMOD1	mrna	LMOD1	YES	15

804	cnv_TLE2	cnv	TLE2	YES	15
804	mrna_DUSP13	mrna	DUSP13	YES	14
805	mrna_HOXA5	mrna	HOXA5	YES	44
805	mrna_CSRNP1	mrna	CSRNP1	YES	17
806	cnv_SOX9	cnv	SOX9	YES	154
806	meth_NOV	meth	NOV	YES	43
807	meth_PCSK9	meth	PCSK9	YES	70
807	meth_TNK2	meth	TNK2	YES	44
808	cnv_TNRC6C	cnv	TNRC6C	YES	21
809	mrna_SMG8	mrna	SMG8	YES	8
810	cnv_TCF3	cnv	TCF3	YES	48
810	meth_CNTFR	meth	CNTFR	YES	22
811	cnv_PPP1R3D	cnv	PPP1R3D	YES	10
812	meth_DCAF17	meth	DCAF17	YES	9
813	cnv_RAC3	cnv	RAC3	YES	36
814	meth_MPP6	meth	MPP6	YES	6
814	meth_TMEM184A	meth	TMEM184A	YES	14
815	cnv_DOT1L	cnv	DOT1L	YES	25
816	cnv_ABCA5	cnv	ABCA5	YES	23
817	cnv_KCNJ2	cnv	KCNJ2	YES	44
818	meth_ADD2	meth	ADD2	YES	26
819	meth_HBA1	meth	HBA1	YES	27
820	meth_NEBL	meth	NEBL	YES	13
821	cnv_CACNG5	cnv	CACNG5	YES	21
822	cnv_OPCML	cnv	OPCML	YES	9
823	meth_TOX2	meth	TOX2	YES	9
823	stv_RMI1	stv	RMI1	YES	9
824	mrna_TOP2A	mrna	TOP2A	YES	50
826	mrna_ITGA9	mrna	ITGA9	YES	15
827	meth_OSR1	meth	OSR1	YES	63
827	mrna_RPS6KB2	mrna	RPS6KB2	YES	21
828	meth_BAIAP3	meth	BAIAP3	YES	5
828	mrna_PKMYT1	mrna	PKMYT1	YES	27
829	mrna_KPNB1	mrna	KPNB1	YES	46
829	mrna_KRT5	mrna	KRT5	YES	18
830	cnv_GADD45B	cnv	GADD45B	YES	14
830	mrna_CDC7	mrna	CDC7	YES	28
831	cnv_DRD2	cnv	DRD2	YES	128
831	cnv_PDZD3	cnv	PDZD3	YES	19
832	meth_CNOT1	meth	CNOT1	YES	34
833	stv_EIF2S1	stv	EIF2S1	YES	36
834	meth_RHOT2	meth	RHOT2	YES	21
834	mrna_LAMA2	mrna	LAMA2	YES	21
835	mirna_MIR106A	mirna	MIR106A	YES	3
836	mrna_PTN	mrna	PTN	YES	67
836	mrna_NCAPG	mrna	NCAPG	YES	13
837	stv_RORA	stv	RORA	YES	54

838	meth_CUBN	meth	CUBN	YES	39
839	cnv_DPAGT1	cnv	DPAGT1	YES	18
839	mrna_CDC20	mrna	CDC20	YES	38
840	cnv_TFAP2C	cnv	TFAP2C	YES	30
840	mrna_HGS	mrna	HGS	YES	36
841	cnv_ATP8B3	cnv	ATP8B3	YES	21
842	cnv_TMPRSS13	cnv	TMPRSS13	YES	10
843	meth_ARHGEF39	meth	ARHGEF39	YES	8
843	meth_KRT26	meth	KRT26	YES	6
844	stv_AGTPBP1	stv	AGTPBP1	YES	27
844	stv_NR6A1	stv	NR6A1	YES	24
845	cnv_ERN1	cnv	ERN1	YES	64
845	cnv_SLC39A3	cnv	SLC39A3	YES	16
846	cnv_RPL38	cnv	RPL38	YES	27
846	meth_TACR1	meth	TACR1	YES	67
848	cnv_TPCN2	cnv	TPCN2	YES	29
849	meth_NGF	meth	NGF	YES	57
849	mrna_SLC26A11	mrna	SLC26A11	YES	28
850	mrna_FADD	mrna	FADD	YES	70
851	mrna_SSPN	mrna	SSPN	YES	12
852	stv_BAG6	stv	BAG6	YES	50
853	meth_KLC1	meth	KLC1	YES	20
854	cnv_EIF4A3	cnv	EIF4A3	YES	55
854	meth_TNFSF12	meth	TNFSF12	YES	24
855	cnv_ARHGAP42	cnv	ARHGAP42	YES	8
857	meth_SLC6A3	meth	SLC6A3	YES	52
858	mirna_MIR29A	mirna	MIR29A	YES	20
858	mrna_RFC4	mrna	RFC4	YES	25
859	mrna_DTL	mrna	DTL	YES	27
859	mrna_RRM2	mrna	RRM2	YES	20
860	mrna_FANCD2	mrna	FANCD2	YES	22
860	stv_AFF2	stv	AFF2	YES	12
861	cnv_BTBD17	cnv	BTBD17	YES	6
861	cnv_CFD	cnv	CFD	YES	17
862	mrna_UFD1L	mrna	UFD1L	YES	10
862	stv_PTPDC1	stv	PTPDC1	YES	14
864	stv_NRBP1	stv	NRBP1	YES	17
864	stv_TBC1D4	stv	TBC1D4	YES	17
865	cnv_RAB40B	cnv	RAB40B	YES	15
866	cnv_TIMM13	cnv	TIMM13	YES	14
866	mrna_PTRH2	mrna	PTRH2	YES	11
867	cnv_APOC3	cnv	APOC3	YES	49
868	mrna_GRASP	mrna	GRASP	YES	12
869	meth_IGF2BP2	meth	IGF2BP2	YES	18
869	stv_KCNH2	stv	KCNH2	YES	52
870	mrna_SYNPO	mrna	SYNPO	YES	23
871	meth_ENSA	meth	ENSA	YES	22

871	mrna_MYLK	mrna	MYLK	YES	30
872	meth_KIRREL2	meth	KIRREL2	YES	9
872	mrna_MIEN1	mrna	MIEN1	YES	11
873	mrna_NARF	mrna	NARF	YES	8
873	stv_CDKL5	stv	CDKL5	YES	24
874	cnv_MRC2	cnv	MRC2	YES	12
875	cnv_CLCA1	cnv	CLCA1	YES	24
876	meth_DCHS1	meth	DCHS1	YES	29
877	cnv_ARL6IP5	cnv	ARL6IP5	YES	17
877	meth_DDX25	meth	DDX25	YES	23
878	cnv_NPAT	cnv	NPAT	YES	17
879	meth_RRAD	meth	RRAD	YES	12
879	mrna_AKT3	mrna	AKT3	YES	21
880	cnv_LLGL2	cnv	LLGL2	YES	15
880	cnv_ROBO4	cnv	ROBO4	YES	8
881	cnv_PRKCA	cnv	PRKCA	YES	84
881	mrna_RAD1	mrna	RAD1	YES	21
882	cnv_ESAM	cnv	ESAM	YES	11
882	meth_PTGDR2	meth	PTGDR2	YES	23
883	meth_ADAMTSL2	meth	ADAMTSL2	YES	11
884	meth_NR2E3	meth	NR2E3	YES	30
884	mrna_TPCN2	mrna	TPCN2	YES	29
885	mrna_FREM1	mrna	FREM1	YES	11
886	cnv_ELANE	cnv	ELANE	YES	48
887	cnv_ICT1	cnv	ICT1	YES	7
887	mrna_FOXM1	mrna	FOXM1	YES	38
888	meth_ASB16	meth	ASB16	YES	10
891	meth_POLR2K	meth	POLR2K	YES	35
892	cnv_TBCD	cnv	TBCD	YES	25
892	stv_MEP1B	stv	MEP1B	YES	17
893	mrna_FIGNL1	mrna	FIGNL1	YES	20
894	meth_DMPK	meth	DMPK	YES	41
895	cnv_ADAMTS15	cnv	ADAMTS15	YES	14
895	stv_RABAC1	stv	RABAC1	YES	13
896	meth_NKX6.2	meth	NKX6.2	NO	0
897	meth_FOXN4	meth	FOXN4	YES	20
897	mrna_DBF4	mrna	DBF4	YES	11
899	cnv_DOK5	cnv	DOK5	YES	8
899	mrna_DSC3	mrna	DSC3	YES	13
900	meth_HSD11B1	meth	HSD11B1	YES	12
900	mrna_TRABD2B	mrna	TRABD2B	YES	18
901	cnv_MLANA	cnv	MLANA	YES	9
901	meth_LMOD1	meth	LMOD1	YES	15
902	cnv_REEP6	cnv	REEP6	YES	13
903	cnv_APOH	cnv	APOH	YES	31
903	mrna_ASPM	mrna	ASPM	YES	31
904	cnv_DMRT2	cnv	DMRT2	YES	18

904	meth_CD8A	meth	CD8A	YES	26
905	cnv_SBNO2	cnv	SBNO2	YES	18
905	meth_CMTM4	meth	CMTM4	YES	5
906	mrna_PIGW	mrna	PIGW	YES	11
907	meth_LCN2	meth	LCN2	YES	36
907	mrna_CDC25C	mrna	CDC25C	YES	27
908	cnv_IFNA10	cnv	IFNA10	YES	20
908	meth_RXRB	meth	RXRB	YES	23
909	mrna_RIPPLY3	mrna	RIPPLY3	YES	10
910	mrna_PRC1	mrna	PRC1	YES	24
910	mrna_CCL18	mrna	CCL18	YES	23
911	cnv_SPHK1	cnv	SPHK1	YES	59
911	mrna_MAD2L1	mrna	MAD2L1	YES	32
912	meth_SLC7A8	meth	SLC7A8	YES	27
912	mrna_RPN2	mrna	RPN2	YES	19
913	mrna_TBCD	mrna	TBCD	YES	25
913	stv_GNB3	stv	GNB3	YES	16
914	mrna_FBLN5	mrna	FBLN5	YES	19
915	cnv_OR8B3	cnv	OR8B3	YES	12
916	stv_FLRT3	stv	FLRT3	YES	43
917	cnv_SLC39A11	cnv	SLC39A11	YES	14
918	cnv_RNF126	cnv	RNF126	YES	21
918	mirna_MIR136	mirna	MIR136	YES	1
924	stv_ARID4B	stv	ARID4B	YES	20
925	cnv_ARHGAP20	cnv	ARHGAP20	YES	6
925	stv_WASH1	stv	WASH1	NO	0
926	cnv_CDK3	cnv	CDK3	YES	26
927	mrna_TCF19	mrna	TCF19	YES	8
929	cnv_GPR83	cnv	GPR83	YES	11
930	meth_IRF8	meth	IRF8	YES	31
930	mrna_ACSM3	mrna	ACSM3	YES	20
932	cnv_GRIA4	cnv	GRIA4	YES	23
933	cnv_GH1	cnv	GH1	YES	24
934	cnv_ABCA8	cnv	ABCA8	YES	15
935	meth_CPXM1	meth	CPXM1	YES	9
937	mrna_CX3CL1	mrna	CX3CL1	YES	42
938	mrna_MCM8	mrna	MCM8	YES	19
939	cnv_USP36	cnv	USP36	YES	14
940	mirna_MIR30E	mirna	MIR30E	YES	5
941	stv_UBE2Z	stv	UBE2Z	YES	15
942	cnv_CBX8	cnv	CBX8	YES	21
942	mrna_ATAD2	mrna	ATAD2	YES	16
944	meth_IGFBP6	meth	IGFBP6	YES	17
945	cnv_JAK2	cnv	JAK2	YES	123
945	cnv_NNMT	cnv	NNMT	YES	11
947	cnv_HYOU1	cnv	HYOU1	YES	21
947	mrna_P3H2	mrna	P3H2	YES	15

948	cnv_PTPN1	cnv	PTPN1	YES	54
949	cnv_SCPEP1	cnv	SCPEP1	YES	12
949	meth_GRHL3	meth	GRHL3	YES	27
950	cnv_SLC9A3R1	cnv	SLC9A3R1	YES	73
950	meth_ADA	meth	ADA	YES	72
952	cnv_AANAT	cnv	AANAT	YES	27
952	mrna_DES	mrna	DES	YES	26
953	cnv_PHLDB1	cnv	PHLDB1	YES	5
953	mrna_FERMT1	mrna	FERMT1	YES	25
954	mrna_PRKDC	mrna	PRKDC	YES	76
955	cnv_MRPS23	cnv	MRPS23	YES	12
955	meth_PSAP	meth	PSAP	YES	41
956	meth_TFAP2B	meth	TFAP2B	YES	64
956	mrna_GOT1	mrna	GOT1	YES	35
957	meth_ACE	meth	ACE	YES	61
959	cnv_SHQ1	cnv	SHQ1	YES	11
959	cnv_SLC37A2	cnv	SLC37A2	YES	14
960	meth_CNTN2	meth	CNTN2	YES	39
961	meth_SLC5A8	meth	SLC5A8	YES	16
963	meth_EPB41L2	meth	EPB41L2	YES	31
963	mrna_E2F1	mrna	E2F1	YES	49
964	stv_MAP3K13	stv	MAP3K13	YES	22
966	meth_MAG	meth	MAG	YES	32
966	mrna_CDCA5	mrna	CDCA5	YES	21
967	cnv_BIRC3	cnv	BIRC3	YES	35
967	stv_GABRR1	stv	GABRR1	YES	20
968	meth_USP6	meth	USP6	YES	25
969	mrna_RPL5	mrna	RPL5	YES	37
970	cnv_ST6GALNAC1	cnv	ST6GALNAC1	YES	14
970	mrna_ARHGEF39	mrna	ARHGEF39	YES	8
971	cnv_ST3GAL4	cnv	ST3GAL4	YES	20
971	meth_HTRA1	meth	HTRA1	YES	24
972	mrna_E2F2	mrna	E2F2	YES	21
972	mrna_FAM83D	mrna	FAM83D	YES	20
973	meth_CHST3	meth	CHST3	YES	12
973	mrna_HPSE2	mrna	HPSE2	YES	12
974	meth_PEX11B	meth	PEX11B	YES	14
974	stv_ENPP2	stv	ENPP2	YES	37
975	cnv_KMT2A	cnv	KMT2A	YES	63
976	cnv_SLC26A11	cnv	SLC26A11	YES	28
977	mrna_NUP85	mrna	NUP85	YES	36
978	meth_HOXD9	meth	HOXD9	YES	25
980	cnv_CCDC47	cnv	CCDC47	YES	13
980	meth_GNG11	meth	GNG11	YES	10
981	mrna_ESCO2	mrna	ESCO2	YES	22
982	cnv_RAB22A	cnv	RAB22A	YES	23
983	meth_MIXL1	meth	MIXL1	YES	31

983	mrna_SUV39H1	mrna	SUV39H1	YES	40
984	meth_DPP8	meth	DPP8	YES	9
985	mrna_CCNF	mrna	CCNF	YES	20
986	meth_GRIK1	meth	GRIK1	YES	30
987	cnv_BAIAP2	cnv	BAIAP2	YES	59
988	meth_BNIP3	meth	BNIP3	YES	65
989	mrna_KLK7	mrna	KLK7	YES	12
990	meth_ITGA9	meth	ITGA9	YES	15
991	mrna_UBE2S	mrna	UBE2S	YES	24
992	stv_FUT8	stv	FUT8	YES	29
994	cnv_CD3E	cnv	CD3E	YES	52
994	mrna_UGT2B28	mrna	UGT2B28	YES	12
995	cnv_MUM1	cnv	MUM1	YES	7
998	cnv_AMH	cnv	AMH	YES	23
998	stv_CROT	stv	CROT	YES	18
999	cnv_EFNA2	cnv	EFNA2	YES	13
999	meth_TRIML1	meth	TRIML1	YES	6
1000	cnv_SYNGR2	cnv	SYNGR2	YES	8
1000	meth_FETUB	meth	FETUB	YES	13
1002	meth_ILDR2	meth	ILDR2	YES	9
1003	meth_GGT5	meth	GGT5	YES	20
1003	stv_CHN1	stv	CHN1	YES	18
1005	meth_EPHA1	meth	EPHA1	YES	34
1005	meth_PREX2	meth	PREX2	YES	16
1006	mrna_WHSC1	mrna	WHSC1	YES	19
1006	mrna_PARPBP	mrna	PARPBP	YES	9
1008	meth_DPPA2	meth	DPPA2	YES	9
1008	mrna_GPM6B	mrna	GPM6B	YES	17
1009	stv_DENND5B	stv	DENND5B	YES	10
1010	mrna_FGF2	mrna	FGF2	YES	83
1011	cnv_EIF4E3	cnv	EIF4E3	YES	8
1012	cnv_MADCAM1	cnv	MADCAM1	YES	16
1013	cnv_FOXJ1	cnv	FOXJ1	YES	43
1013	mrna_MRAP2	mrna	MRAP2	YES	17
1014	meth_OPRK1	meth	OPRK1	YES	53
1015	mrna_ATP13A1	mrna	ATP13A1	YES	22
1016	cnv_PCSK4	cnv	PCSK4	YES	17
1018	cnv_SULF2	cnv	SULF2	YES	33
1020	mrna_SOX8	mrna	SOX8	YES	46
1021	meth_ARAP3	meth	ARAP3	YES	24
1021	stv_SEC24D	stv	SEC24D	YES	24
1022	mrna_PIR	mrna	PIR	YES	17
1023	cnv_HYLS1	cnv	HYLS1	YES	6
1024	cnv_CDKN2A	cnv	CDKN2A	YES	65
1024	stv_IGFBP6	stv	IGFBP6	YES	17
1025	cnv_CLCA4	cnv	CLCA4	YES	19
1026	stv_DPH6	stv	DPH6	YES	10

1027	meth_HAAO	meth	HAAO	YES	19
1027	stv_ECT2	stv	ECT2	YES	45
1028	cnv_IFNA6	cnv	IFNA6	YES	21
1029	mrna_ST8SIA2	mrna	ST8SIA2	YES	19
1030	meth_ARHGEF2	meth	ARHGEF2	YES	59
1031	cnv_STRADA	cnv	STRADA	YES	20
1031	mrna_SPDL1	mrna	SPDL1	YES	21
1032	meth_KLRD1	meth	KLRD1	YES	15
1033	meth_CLDN17	meth	CLDN17	YES	15
1035	mrna_ORMDL3	mrna	ORMDL3	YES	13
1036	stv_SPSB2	stv	SPSB2	YES	9
1037	cnv_H2AFX	cnv	H2AFX	YES	32
1039	meth_ARHGEF7	meth	ARHGEF7	YES	37
1039	stv_SAP130	stv	SAP130	YES	7
1042	mrna_SMC1A	mrna	SMC1A	YES	35
1043	meth_P2RY1	meth	P2RY1	YES	57
1044	cnv_POU2AF1	cnv	POU2AF1	YES	14
1044	mrna_TUBG1	mrna	TUBG1	YES	32
1045	cnv_CSNK1D	cnv	CSNK1D	YES	54
1045	cnv_USP2	cnv	USP2	YES	30
1046	meth_PDPN	meth	PDPN	YES	53
1049	cnv_FDXACB1	cnv	FDXACB1	YES	6
1050	mrna_NOL11	mrna	NOL11	YES	12
1050	mrna_MRPS23	mrna	MRPS23	YES	12
1051	cnv_CEP112	cnv	CEP112	YES	7
1052	cnv_CYTH1	cnv	CYTH1	YES	16
1052	cnv_PMEPA1	cnv	PMEPA1	YES	17
1053	cnv_PTPRR	cnv	PTPRR	YES	22
1053	meth_CSRNP1	meth	CSRNP1	YES	17
1054	mrna_MYL7	mrna	MYL7	YES	9
1055	mrna_ITGA2B	mrna	ITGA2B	YES	24
1056	cnv_MED13	cnv	MED13	YES	22
1059	mrna_SPRY2	mrna	SPRY2	YES	46
1060	cnv_P4HB	cnv	P4HB	YES	38
1060	mrna_PIGU	mrna	PIGU	YES	13
1061	mrna_PLA2R1	mrna	PLA2R1	YES	22
1061	stv_NDE1	stv	NDE1	YES	44
1062	cnv_TSHZ2	cnv	TSHZ2	YES	13
1063	mrna_NEURL1B	mrna	NEURL1B	YES	9
1064	meth_AMBP	meth	AMBP	YES	27
1065	mrna_FANCA	mrna	FANCA	YES	17
1066	cnv_RBM7	cnv	RBM7	YES	7
1067	mirna_MIR199B	mirna	MIR199B	YES	15
1068	cnv_UBASH3B	cnv	UBASH3B	YES	22
1068	stv_SMYD3	stv	SMYD3	YES	21
1069	mrna_H2AFV	mrna	H2AFV	YES	10
1070	meth_HHIPL1	meth	HHIPL1	YES	10

1071	mrna_EBP	mrna	EBP	YES	29
1072	meth_AOC2	meth	AOC2	YES	18
1073	mrna_MTHFD2	mrna	MTHFD2	YES	16
1074	cnv_DCAF7	cnv	DCAF7	YES	12
1074	mrna_DEPDC1	mrna	DEPDC1	YES	10
1075	meth_CLDN11	meth	CLDN11	YES	15
1075	meth_KLHL7	meth	KLHL7	YES	13
1076	meth_PCSK4	meth	PCSK4	YES	17
1076	mrna_GAS6	mrna	GAS6	YES	95
1077	mrna_SPAG5	mrna	SPAG5	YES	29
1078	cnv_ANO1	cnv	ANO1	YES	28
1081	mrna_RBL1	mrna	RBL1	YES	18
1082	cnv_GRIK4	cnv	GRIK4	YES	24
1082	meth_FBXO6	meth	FBXO6	YES	19
1083	mrna_MYOCD	mrna	MYOCD	YES	64
1083	stv_PARP1	stv	PARP1	YES	87
1084	stv_ERAP2	stv	ERAP2	YES	24
1086	meth_TSPAN2	meth	TSPAN2	YES	14
1088	cnv_SLC16A3	cnv	SLC16A3	YES	17
1089	meth_FGF14	meth	FGF14	YES	13
1089	mrna_YWHAZ	mrna	YWHAZ	YES	35
1091	cnv_SC5D	cnv	SC5D	YES	18
1093	cnv_ADAMTSL5	cnv	ADAMTSL5	YES	7
1095	cnv_PPM1E	cnv	PPM1E	YES	17
1096	mirna_MIR204	mirna	MIR204	YES	6
1097	mrna_CKAP5	mrna	CKAP5	YES	31
1098	meth_CRH	meth	CRH	YES	67
1098	mrna_MED1	mrna	MED1	YES	100
1099	stv_TCF7L2	stv	TCF7L2	YES	74
1100	cnv_CPM	cnv	CPM	YES	21
1101	meth_CHST6	meth	CHST6	YES	12
1103	stv_PDCD1LG2	stv	PDCD1LG2	YES	14
1104	cnv_NFATC2	cnv	NFATC2	YES	38
1105	cnv_RAB37	cnv	RAB37	YES	19
1105	cnv_SIRT7	cnv	SIRT7	YES	18
1106	mirna_MIR383	mirna	MIR383	NO	0
1107	meth_DGKZ	meth	DGKZ	YES	24
1107	stv_DDRGK1	stv	DDRGK1	YES	24
1108	cnv_DUS1L	cnv	DUS1L	YES	7
1108	meth_JPH2	meth	JPH2	YES	27
1109	mrna_ARHGAP6	mrna	ARHGAP6	YES	24
1110	mrna_ACTA1	mrna	ACTA1	YES	32
1112	cnv_ATM	cnv	ATM	YES	98
1112	cnv_NPTX1	cnv	NPTX1	YES	14
1113	cnv_IFNA2	cnv	IFNA2	YES	34
1113	mrna_TLK2	mrna	TLK2	YES	24
1114	meth_NDEL1	meth	NDEL1	YES	61

1115	meth_PRDM14	meth	PRDM14	YES	33
1115	stv_VPS13A	stv	VPS13A	YES	12
1116	cnv_ABCG4	cnv	ABCG4	YES	15
1118	meth_ADCY10	meth	ADCY10	YES	36
1118	meth_MYH11	meth	MYH11	YES	21
1119	mrna_PLK4	mrna	PLK4	YES	27
1120	mrna_DOK5	mrna	DOK5	YES	8
1121	meth_ENG	meth	ENG	YES	64
1121	mrna_GPSM2	mrna	GPSM2	YES	32
1122	mrna_RBM14	mrna	RBM14	YES	26
1122	stv_TUFM	stv	TUFM	YES	16
1124	meth_P4HA2	meth	P4HA2	YES	16
1125	meth_ADAMTSL3	meth	ADAMTSL3	YES	8
1126	mrna_KIF20A	mrna	KIF20A	YES	25
1126	mrna_KIT	mrna	KIT	YES	114
1127	stv_MAK	stv	MAK	YES	34
1129	mrna_KIF11	mrna	KIF11	YES	29
1130	meth_PKP1	meth	PKP1	YES	26
1131	mrna_KIF18A	mrna	KIF18A	YES	35
1132	meth_PTGR1	meth	PTGR1	YES	15
1133	meth_PPP1R1B	meth	PPP1R1B	YES	25
1134	mrna_ANAPC11	mrna	ANAPC11	YES	23
1136	meth_PTRF	meth	PTRF	YES	14
1138	mrna_HNRNPAB	mrna	HNRNPAB	YES	13
1139	cnv_TYRP1	cnv	TYRP1	YES	23
1140	meth_MAD2L2	meth	MAD2L2	YES	35
1141	cnv_AKAP1	cnv	AKAP1	YES	11
1143	meth_CYGB	meth	CYGB	YES	25
1144	mrna_SOX17	mrna	SOX17	YES	71
1145	meth_ABO	meth	ABO	YES	10
1147	meth_GFRA3	meth	GFRA3	YES	19
1148	meth_ACOT12	meth	ACOT12	YES	13
1148	mrna_MND1	mrna	MND1	YES	7
1149	meth_ANXA4	meth	ANXA4	YES	24
1149	stv_IDO1	stv	IDO1	YES	31
1150	cnv_PPP1R27	cnv	PPP1R27	YES	4
1150	mrna_FGF14	mrna	FGF14	YES	13
1151	cnv_TIRAP	cnv	TIRAP	YES	51
1152	cnv_HTR3A	cnv	HTR3A	YES	29
1152	mrna_ERCC6L	mrna	ERCC6L	YES	15
1154	meth_NFS1	meth	NFS1	YES	21
1155	meth_FLT4	meth	FLT4	YES	49
1157	meth_GJA10	meth	GJA10	YES	13
1157	mrna_LMNB2	mrna	LMNB2	YES	9
1158	meth_MCAM	meth	MCAM	YES	13
1159	meth_FGF9	meth	FGF9	YES	53
1160	meth_E2F5	meth	E2F5	YES	19

1160	mrna_DHFR	mrna	DHFR	YES	32
1161	cnv_OR8B4	cnv	OR8B4	YES	12
1162	meth_ANPEP	meth	ANPEP	YES	31
1162	meth_IFT46	meth	IFT46	YES	17
1163	meth_GJB2	meth	GJB2	YES	35
1163	mrna_BUB1	mrna	BUB1	YES	31
1164	stv_TES	stv	TES	YES	14
1165	cnv_GALK1	cnv	GALK1	YES	19
1165	meth_GPR161	meth	GPR161	YES	15
1166	cnv_TMPRSS4	cnv	TMPRSS4	YES	10
1168	mrna_DBF4B	mrna	DBF4B	YES	16
1168	stv_ADCY3	stv	ADCY3	YES	36
1169	cnv_EXOC7	cnv	EXOC7	YES	15
1170	meth_SOCS6	meth	SOCS6	YES	18
1171	meth_PLSCR4	meth	PLSCR4	YES	12
1171	mrna_MTHFD1	mrna	MTHFD1	YES	38
1172	cnv_ARHGAP32	cnv	ARHGAP32	YES	27
1172	cnv_IL26	cnv	IL26	YES	12
1173	meth_PTPRM	meth	PTPRM	YES	30
1175	meth_NIPBL	meth	NIPBL	YES	49
1176	meth_SNAP91	meth	SNAP91	YES	13
1176	mrna_FANCB	mrna	FANCB	YES	7
1177	cnv_SLC37A4	cnv	SLC37A4	YES	35
1178	meth_KCNC4	meth	KCNC4	YES	19
1179	cnv_ZNF831	cnv	ZNF831	YES	10
1180	meth_CD200	meth	CD200	YES	15
1180	mrna_SCN4B	mrna	SCN4B	YES	26
1181	stv_PPP1R15A	stv	PPP1R15A	YES	39
1182	cnv_SRP68	cnv	SRP68	YES	20
1183	mrna_BOC	mrna	BOC	YES	14
1185	meth_DIO2	meth	DIO2	YES	16
1185	meth_MEGF10	meth	MEGF10	YES	25
1186	meth_DES	meth	DES	YES	26
1187	stv_NUP98	stv	NUP98	YES	55
1188	meth_EYA4	meth	EYA4	YES	24
1188	mrna_PTGS2	mrna	PTGS2	YES	100
1189	cnv_TMC6	cnv	TMC6	YES	16
1191	cnv_OR8B12	cnv	OR8B12	YES	12
1192	meth_WNT1	meth	WNT1	YES	80
1193	mrna_RFC3	mrna	RFC3	YES	24
1193	stv_YIF1A	stv	YIF1A	YES	15
1194	mrna_SOCS5	mrna	SOCS5	YES	25
1195	meth_FGF8	meth	FGF8	YES	92
1196	cnv_MTNR1B	cnv	MTNR1B	YES	15
1197	cnv_CER1	cnv	CER1	YES	25
1200	stv_SMARCA5	stv	SMARCA5	YES	34
1201	cnv_LPO	cnv	LPO	YES	17

1203	mirna_MIR369	mirna	MIR369	NO	0
1204	mrna_CHEK1	mrna	CHEK1	YES	53
1206	mrna_UBE2C	mrna	UBE2C	YES	32
1207	stv_TPH2	stv	TPH2	YES	21
1209	cnv_HGS	cnv	HGS	YES	36
1210	mrna_DDX39A	mrna	DDX39A	YES	27
1212	meth_PIK3CB	meth	PIK3CB	YES	58
1214	mrna_RACGAP1	mrna	RACGAP1	YES	50
1216	meth_NDRG3	meth	NDRG3	YES	7
1216	mrna_CNIH2	mrna	CNIH2	YES	28
1218	meth_OSBPL3	meth	OSBPL3	YES	19
1218	mrna_EXO1	mrna	EXO1	YES	35
1219	meth_MME	meth	MME	YES	36
1220	stv_ARHGEF6	stv	ARHGEF6	YES	18
1221	cnv_BCL10	cnv	BCL10	YES	67
1221	meth_SFTPC	meth	SFTPC	YES	23
1223	stv_DENND1A	stv	DENND1A	YES	28
1224	meth_BMPER	meth	BMPER	YES	11
1224	stv_NCL	stv	NCL	YES	24
1227	mrna_CLTC	mrna	CLTC	YES	61
1228	cnv_DLAT	cnv	DLAT	YES	19
1229	meth_CYP24A1	meth	CYP24A1	YES	20
1230	meth_CD40	meth	CD40	YES	63
1230	mrna_TIMELESS	mrna	TIMELESS	YES	28
1231	mrna_MSH2	mrna	MSH2	YES	65
1235	meth_FOXE1	meth	FOXE1	YES	28
1236	mrna_FMO2	mrna	FMO2	YES	19
1237	meth_MAT2B	meth	MAT2B	YES	24
1238	meth_GNG4	meth	GNG4	YES	11
1239	meth_LAMA1	meth	LAMA1	YES	28
1240	mrna_MASTL	mrna	MASTL	YES	27
1242	mrna_KLK6	mrna	KLK6	YES	27
1244	mrna_FAT2	mrna	FAT2	YES	11
1244	stv_C10orf2	stv	C10orf2	YES	14
1245	cnv_CYR61	cnv	CYR61	YES	49
1245	cnv_USH1G	cnv	USH1G	YES	19
1246	cnv_APPBP2	cnv	APPBP2	YES	13
1247	mrna_MCM7	mrna	MCM7	YES	29
1248	cnv_AMZ2	cnv	AMZ2	YES	7
1249	meth_MOV10L1	meth	MOV10L1	YES	17
1250	meth_NT5C	meth	NT5C	YES	18
1251	cnv_CACNG4	cnv	CACNG4	YES	20
1251	mirna_MIR107	mirna	MIR107	YES	3
1252	mrna_CDCA2	mrna	CDCA2	YES	8
1253	cnv_PTRH2	cnv	PTRH2	YES	11
1253	mrna_MTDH	mrna	MTDH	YES	30
1254	meth_ADAMTS4	meth	ADAMTS4	YES	18

1254	mrna_DMD	mrna	DMD	YES	100
1255	cnv_PTPRG	cnv	PTPRG	YES	19
1256	meth_ETNK2	meth	ETNK2	YES	16
1256	stv_NPAS2	stv	NPAS2	YES	26
1258	meth_SOX21	meth	SOX21	YES	16
1259	cnv_SCN3B	cnv	SCN3B	YES	36
1259	mrna_CDCA8	mrna	CDCA8	YES	23
1260	stv_AR	stv	AR	YES	97
1261	mrna_DPYSL4	mrna	DPYSL4	YES	10
1262	mrna_CENPW	mrna	CENPW	YES	18
1263	mrna_POLR2D	mrna	POLR2D	YES	30
1263	stv_PRTG	stv	PRTG	YES	4
1264	cnv_RPF1	cnv	RPF1	YES	12
1268	cnv_EPX	cnv	EPX	YES	19
1271	mirna_MIR196B	mirna	MIR196B	NO	0
1272	stv_SFMBT1	stv	SFMBT1	YES	12
1273	stv_TLR9	stv	TLR9	YES	68
1274	cnv_TMPRSS5	cnv	TMPRSS5	YES	11
1275	cnv_SPATA19	cnv	SPATA19	YES	6
1280	stv_PHF2	stv	PHF2	YES	26
1283	cnv_DIXDC1	cnv	DIXDC1	YES	31
1284	cnv_ROBO2	cnv	ROBO2	YES	31
1284	meth_TNFRSF10C	meth	TNFRSF10C	YES	18
1285	mrna_EVC2	mrna	EVC2	YES	11
1287	cnv_HRH3	cnv	HRH3	YES	26
1287	meth_INSL4	meth	INSL4	YES	10
1289	mrna_MYBPC1	mrna	MYBPC1	YES	21
1291	meth_ITGA11	meth	ITGA11	YES	19
1292	meth_PDC	meth	PDC	YES	15
1292	stv_PTPRZ1	stv	PTPRZ1	YES	23
1293	cnv_PLGRKT	cnv	PLGRKT	YES	9
1294	cnv_MGAT5B	cnv	MGAT5B	YES	11
1294	cnv_NPEPL1	cnv	NPEPL1	YES	11
1296	meth_TRIM10	meth	TRIM10	YES	10
1298	cnv_FOXD4	cnv	FOXD4	YES	26
1299	stv_MORC1	stv	MORC1	YES	11
1300	mrna_SCN3B	mrna	SCN3B	YES	36
1301	cnv_ST6GALNAC2	cnv	ST6GALNAC2	YES	13
1301	mrna_MYBL1	mrna	MYBL1	YES	12
1304	cnv_OR8A1	cnv	OR8A1	YES	12
1305	mrna_EXOSC2	mrna	EXOSC2	YES	24
1306	cnv_MAP3K3	cnv	MAP3K3	YES	25
1307	mrna_HJURP	mrna	HJURP	YES	17
1309	cnv_BNC2	cnv	BNC2	YES	13
1309	cnv_KPNA2	cnv	KPNA2	YES	21
1311	stv_DSEL	stv	DSEL	YES	9
1312	stv_LIMA1	stv	LIMA1	YES	17

1313	cnv_OR8D4	cnv	OR8D4	YES	12
1314	cnv_FGF3	cnv	FGF3	YES	26
1315	meth_CLDN19	meth	CLDN19	YES	16
1317	meth_SULT1A2	meth	SULT1A2	YES	16
1319	cnv_TEX19	cnv	TEX19	YES	4
1321	meth_CDKN1C	meth	CDKN1C	YES	33
1323	cnv_ACAD8	cnv	ACAD8	YES	15
1323	mrna_ALDH1A2	mrna	ALDH1A2	YES	52
1324	stv_GUCY1A2	stv	GUCY1A2	YES	15
1325	stv_SNX14	stv	SNX14	YES	14
1327	stv_GPNMB	stv	GPNMB	YES	31
1329	meth_ISG20	meth	ISG20	YES	29
1331	mrna_ZNF423	mrna	ZNF423	YES	15
1333	cnv_TK1	cnv	TK1	YES	23
1334	cnv_CASP12	cnv	CASP12	YES	10
1334	stv_SETD7	stv	SETD7	YES	25
1335	cnv_UNK	cnv	UNK	YES	9
1335	meth_TNFRSF8	meth	TNFRSF8	YES	24
1336	mrna_PAK7	mrna	PAK7	YES	18
1336	stv_REV1	stv	REV1	YES	16
1337	mrna_DST	mrna	DST	YES	50
1339	cnv_OAZ1	cnv	OAZ1	YES	13
1340	meth_VDAC1	meth	VDAC1	YES	38
1342	mrna_LIN9	mrna	LIN9	YES	8
1343	mrna_PPFIA3	mrna	PPFIA3	YES	10
1344	cnv_CTSZ	cnv	CTSZ	YES	36
1345	cnv_GNA11	cnv	GNA11	YES	30
1347	stv_PHF3	stv	PHF3	YES	7
1348	cnv_CHMP6	cnv	CHMP6	YES	25
1349	stv_POLH	stv	POLH	YES	22
1350	cnv_CADPS	cnv	CADPS	YES	20
1350	cnv_NRGN	cnv	NRGN	YES	20
1352	stv_NEK5	stv	NEK5	YES	11
1353	mrna_PIK3C2G	mrna	PIK3C2G	YES	24
1354	stv_CORIN	stv	CORIN	YES	18
1359	mrna_PPP6R3	mrna	PPP6R3	YES	11
1359	mrna_RGMA	mrna	RGMA	YES	24
1360	cnv_RPS25	cnv	RPS25	YES	22
1360	meth_TBCD	meth	TBCD	YES	25
1361	mrna_POLR3A	mrna	POLR3A	YES	21
1368	cnv_FAM76B	cnv	FAM76B	YES	5
1368	meth_KLF15	meth	KLF15	YES	20
1369	meth_PRPH	meth	PRPH	YES	9
1371	meth_CCNL1	meth	CCNL1	YES	14
1371	stv_CYP2S1	stv	CYP2S1	YES	20
1373	cnv_AASDHPPT	cnv	AASDHPPT	YES	11
1376	cnv_YAP1	cnv	YAP1	YES	37

1376	meth_DLK1	meth	DLK1	YES	13
1377	meth_SLC15A2	meth	SLC15A2	YES	19
1378	mirna_MIR217	mirna	MIR217	NO	0
1378	mrna_CPT1A	mrna	CPT1A	YES	32
1379	mrna_SRSF2	mrna	SRSF2	YES	25
1380	meth_LBX1	meth	LBX1	YES	19
1380	stv_RAB3C	stv	RAB3C	YES	17
1381	mrna_RAD54L	mrna	RAD54L	YES	21
1382	cnv_CA4	cnv	CA4	YES	27
1383	cnv_RPS15	cnv	RPS15	YES	25
1383	stv_GLIPR1	stv	GLIPR1	YES	7
1385	mrna_ADRBK1	mrna	ADRBK1	YES	35
1385	mrna_KIRREL	mrna	KIRREL	YES	12
1386	cnv_OR8B2	cnv	OR8B2	YES	12
1386	mrna_PTPN14	mrna	PTPN14	YES	19
1387	meth_CSF1	meth	CSF1	YES	52
1389	mrna_CRYAB	mrna	CRYAB	YES	58
1393	meth_LTBP2	meth	LTBP2	YES	14
1393	stv_GJA10	stv	GJA10	YES	13
1395	meth_DSE	meth	DSE	YES	12
1396	stv_NOD1	stv	NOD1	YES	52
1397	stv_DST	stv	DST	YES	50
1399	meth_UGT3A2	meth	UGT3A2	YES	10
1401	stv_RAD21	stv	RAD21	YES	33
1404	cnv_CYP24A1	cnv	CYP24A1	YES	20
1407	mrna_SMC2	mrna	SMC2	YES	22
1409	cnv_CRYAB	cnv	CRYAB	YES	58
1410	mrna_PSMC3IP	mrna	PSMC3IP	YES	12
1411	meth_NTRK1	meth	NTRK1	YES	89
1412	cnv_DYNLL2	cnv	DYNLL2	YES	34
1414	cnv_ZNF750	cnv	ZNF750	YES	14
1415	stv_HIST1H1B	stv	HIST1H1B	YES	18
1415	stv_PACSIN3	stv	PACSIN3	YES	17
1417	mrna_CDK1	mrna	CDK1	YES	99
1418	cnv_GPS1	cnv	GPS1	YES	15
1420	mrna_POLE	mrna	POLE	YES	32
1421	cnv_HSPB2	cnv	HSPB2	YES	9
1424	stv_GPAM	stv	GPAM	YES	34
1426	meth_ELANE	meth	ELANE	YES	48
1428	meth_CSNK1G1	meth	CSNK1G1	YES	18
1430	stv_HLA.DRB5	stv	HLA.DRB5	NO	0
1431	cnv_WIPI1	cnv	WIPI1	YES	28
1433	cnv_FAM209A	cnv	FAM209A	YES	6
1434	stv_SUCO	stv	SUCO	YES	10
1435	mrna_PIF1	mrna	PIF1	YES	27
1435	mrna_SKP2	mrna	SKP2	YES	27
1436	meth_NPY1R	meth	NPY1R	YES	24

1437	meth_CASQ1	meth	CASQ1	YES	32
1437	meth_SOCS2	meth	SOCS2	YES	30
1439	meth_FABP2	meth	FABP2	YES	10
1440	stv_STARD8	stv	STARD8	YES	8
1441	cnv_LAMA5	cnv	LAMA5	YES	45
1444	mirna_MIR224	mirna	MIR224	YES	3
1445	cnv_CIRBP	cnv	CIRBP	YES	17
1447	mrna_SRSF1	mrna	SRSF1	YES	32
1448	meth_MSRA	meth	MSRA	YES	15
1451	stv_PHKA1	stv	PHKA1	YES	13
1453	cnv_SMG8	cnv	SMG8	YES	8
1454	meth_PLCD1	meth	PLCD1	YES	25
1455	meth_TNNI2	meth	TNNI2	YES	11
1455	stv_ZNF750	stv	ZNF750	YES	14
1456	stv_ANKS1B	stv	ANKS1B	YES	15
1459	cnv_AZU1	cnv	AZU1	YES	44
1461	cnv_PDGFD	cnv	PDGFD	YES	28
1462	meth_GAL3ST3	meth	GAL3ST3	YES	16
1463	cnv_PITPNC1	cnv	PITPNC1	YES	14
1463	mrna_DNMT3B	mrna	DNMT3B	YES	36
1464	cnv_OGFOD3	cnv	OGFOD3	YES	10
1465	stv_SH3PXD2B	stv	SH3PXD2B	YES	33
1466	mrna_MCM4	mrna	MCM4	YES	19
1467	cnv_FOLH1B	cnv	FOLH1B	NO	0
1470	meth_SLIT3	meth	SLIT3	YES	20
1471	mrna_KIAA1524	mrna	KIAA1524	YES	9
1471	stv_ACAA2	stv	ACAA2	YES	19
1473	mrna_CANT1	mrna	CANT1	YES	25
1474	stv_FUT11	stv	FUT11	YES	13
1476	meth_MGAT3	meth	MGAT3	YES	9
1476	mrna_PLCXD3	mrna	PLCXD3	YES	7
1477	cnv_IFNA5	cnv	IFNA5	YES	20
1478	meth_GBGT1	meth	GBGT1	YES	14
1479	cnv_POLG2	cnv	POLG2	YES	22
1479	stv_RUVBL1	stv	RUVBL1	YES	50
1480	cnv_PPP2R1B	cnv	PPP2R1B	YES	5
1483	mirna_MIR520B	mirna	MIR520B	NO	0
1484	cnv_CBL	cnv	CBL	YES	62
1485	meth_RGS17	meth	RGS17	YES	12
1485	mrna_UBE2T	mrna	UBE2T	YES	25
1487	mirna_MIR106B	mirna	MIR106B	YES	5
1493	meth_MSLN	meth	MSLN	YES	15
1497	mrna_FRZB	mrna	FRZB	YES	28
1497	stv_MMP12	stv	MMP12	YES	33
1498	stv_SCN4A	stv	SCN4A	YES	20
1499	mrna_CENPU	mrna	CENPU	YES	16
1501	stv_ADSS	stv	ADSS	YES	22

1501	stv_TRIM32	stv	TRIM32	YES	50
1503	stv_ADNP	stv	ADNP	YES	33
1504	meth_FUOM	meth	FUOM	YES	10
1505	meth_RILP	meth	RILP	YES	28
1505	mrna_CASQ2	mrna	CASQ2	YES	33
1506	mrna_RAD51	mrna	RAD51	YES	72
1508	stv_NFKBIE	stv	NFKBIE	YES	9
1516	meth_ST6GAL2	meth	ST6GAL2	YES	17
1517	meth_EOMES	meth	EOMES	YES	40
1518	mrna_TPX2	mrna	TPX2	YES	26
1519	mrna_MYH11	mrna	MYH11	YES	21
1520	meth_STXBP6	meth	STXBP6	YES	15
1522	mrna_LTBP4	mrna	LTBP4	YES	21
1524	cnv_MILR1	cnv	MILR1	YES	7
1525	cnv_IFNA4	cnv	IFNA4	YES	22
1525	stv_MAP3K8	stv	MAP3K8	YES	25
1526	cnv_FSCN2	cnv	FSCN2	YES	18
1526	mrna_CDC14B	mrna	CDC14B	YES	27
1528	cnv_KIRREL3	cnv	KIRREL3	YES	17
1529	stv_RAB14	stv	RAB14	YES	46
1531	mrna_CKS1B	mrna	CKS1B	YES	17
1532	cnv_CD3D	cnv	CD3D	YES	20
1532	mrna_WDR62	mrna	WDR62	YES	18
1533	mrna_HIC1	mrna	HIC1	YES	20
1535	mrna_DHTKD1	mrna	DHTKD1	YES	14
1536	mrna_PSMC4	mrna	PSMC4	YES	49
1537	mrna_ANKRD27	mrna	ANKRD27	YES	29
1537	stv_PRKCB	stv	PRKCB	YES	56
1539	cnv_GZMM	cnv	GZMM	YES	14
1540	meth_DDO	meth	DDO	YES	17
1541	stv_ARRDC3	stv	ARRDC3	YES	16
1542	meth_WNT6	meth	WNT6	YES	26
1544	mrna_DTYMK	mrna	DTYMK	YES	26
1544	mrna_CCDC8	mrna	CCDC8	YES	13
1545	mrna_TPH1	mrna	TPH1	YES	19
1549	stv_OSBPL10	stv	OSBPL10	YES	12
1550	meth_ADAMTSL1	meth	ADAMTSL1	YES	9
1552	mrna_SCN7A	mrna	SCN7A	YES	21
1553	meth_OXT	meth	OXT	YES	57
1555	cnv_AFMID	cnv	AFMID	YES	11
1555	cnv_KISS1R	cnv	KISS1R	YES	20
1557	meth_DERL1	meth	DERL1	YES	40
1557	mrna_MARS	mrna	MARS	YES	22
1558	meth_ALKBH3	meth	ALKBH3	YES	20
1559	cnv_MRE11A	cnv	MRE11A	YES	44
1560	cnv_CLCA3P	cnv	CLCA3P	NO	0
1563	meth_SPDEF	meth	SPDEF	YES	17

1564	mrna_DIRAS3	mrna	DIRAS3	YES	12
1565	stv_SEC24B	stv	SEC24B	YES	35
1567	cnv_GNA13	cnv	GNA13	YES	42
1568	mrna_CD207	mrna	CD207	YES	12
1569	mrna_CLDN11	mrna	CLDN11	YES	15
1570	cnv_MCAM	cnv	MCAM	YES	13
1570	mrna_NUP155	mrna	NUP155	YES	30
1571	cnv_DMRT1	cnv	DMRT1	YES	37
1572	cnv_RFNG	cnv	RFNG	YES	19
1572	cnv_TUBB1	cnv	TUBB1	YES	15
1574	meth_TRIM29	meth	TRIM29	YES	14
1576	cnv_SHANK2	cnv	SHANK2	YES	39
1577	meth_HHAT	meth	HHAT	YES	14
1581	cnv_RPUSD4	cnv	RPUSD4	YES	8
1581	mrna_SIRT7	mrna	SIRT7	YES	18
1582	meth_AIM2	meth	AIM2	YES	28
1584	cnv_IFNA1	cnv	IFNA1	YES	20
1585	meth_AGBL5	meth	AGBL5	YES	19
1588	stv_KNDC1	stv	KNDC1	YES	18
1589	stv_SPATA5	stv	SPATA5	YES	11
1590	meth_LTF	meth	LTF	YES	68
1590	mrna_FFAR2	mrna	FFAR2	YES	26
1591	mirna_MIR519D	mirna	MIR519D	YES	4
1592	cnv_ATP5E	cnv	ATP5E	YES	19
1592	cnv_SOCS3	cnv	SOCS3	YES	29
1593	cnv_DMRTA1	cnv	DMRTA1	YES	10
1596	stv_LNX1	stv	LNX1	YES	10
1597	stv_AP1G1	stv	AP1G1	YES	34
1599	cnv_CABP2	cnv	CABP2	YES	8
1599	mrna_KIF22	mrna	KIF22	YES	27
1601	cnv_CDON	cnv	CDON	YES	29
1602	meth_NKX2.5	meth	NKX2.5	NO	0
1603	meth_DFNA5	meth	DFNA5	YES	9
1604	mrna_ZFP36L1	mrna	ZFP36L1	YES	69
1605	stv_NASP	stv	NASP	YES	19
1606	cnv_DNAI2	cnv	DNAI2	YES	22
1608	cnv_SIK2	cnv	SIK2	YES	18
1616	cnv_CXCR5	cnv	CXCR5	YES	19
1617	meth_MYT1	meth	MYT1	YES	12
1622	stv_ATP2B2	stv	ATP2B2	YES	53
1627	stv_NFATC1	stv	NFATC1	YES	30
1628	mrna_POLQ	mrna	POLQ	YES	28
1630	cnv_THOP1	cnv	THOP1	YES	12
1630	stv_METAP1	stv	METAP1	YES	13
1632	cnv_CD300E	cnv	CD300E	YES	7
1633	meth_RBFOX2	meth	RBFOX2	YES	24
1636	cnv_ENDOV	cnv	ENDOV	YES	16

1636	cnv_MTMR2	cnv	MTMR2	YES	42
1638	cnv_TLE6	cnv	TLE6	YES	9
1638	meth_COL12A1	meth	COL12A1	YES	15
1639	meth_PLEC	meth	PLEC	YES	23
1641	mrna_CEP55	mrna	CEP55	YES	17
1643	meth_OTP	meth	OTP	YES	12
1645	meth_CBL	meth	CBL	YES	62
1645	mrna_CENPF	mrna	CENPF	YES	49
1647	meth_F11	meth	F11	YES	19
1650	mrna_RECQL4	mrna	RECQL4	YES	11
1652	mirna_MIR33A	mirna	MIR33A	YES	1
1653	cnv_CNOT2	cnv	CNOT2	YES	28
1656	mrna_NUP107	mrna	NUP107	YES	37
1664	meth_GAPDHS	meth	GAPDHS	YES	18
1665	meth_HIST1H2AB	meth	HIST1H2AB	YES	9
1666	meth_PTGER2	meth	PTGER2	YES	14
1666	mrna_EIF2S2	mrna	EIF2S2	YES	14
1669	stv_GALNT8	stv	GALNT8	YES	12
1673	stv_NEK8	stv	NEK8	YES	20
1674	mrna_NCOA3	mrna	NCOA3	YES	34
1677	meth_SEZ6L2	meth	SEZ6L2	YES	10
1678	stv_SMARCA2	stv	SMARCA2	YES	34
1679	meth_CPO	meth	CPO	YES	14
1679	mrna_FBXL20	mrna	FBXL20	YES	7
1680	meth_GFPT2	meth	GFPT2	YES	15
1683	cnv_PPAP2C	cnv	PPAP2C	YES	9
1686	mrna_CAV2	mrna	CAV2	YES	45
1688	meth_HCRT	meth	HCRT	YES	29
1688	stv_MOCS3	stv	MOCS3	YES	24
1689	cnv_TRIM25	cnv	TRIM25	YES	36
1691	mrna_MSH6	mrna	MSH6	YES	42
1693	meth_RASSF5	meth	RASSF5	YES	15
1700	mrna_TPT1	mrna	TPT1	YES	18
1704	stv_FCRL5	stv	FCRL5	YES	4
1706	mrna_PSMD14	mrna	PSMD14	YES	55
1706	mrna_MAPK4	mrna	MAPK4	YES	22
1713	meth_ALK	meth	ALK	YES	37
1714	mrna_FNDC4	mrna	FNDC4	YES	4
1715	stv_SYT10	stv	SYT10	YES	25
1718	cnv_OR8D2	cnv	OR8D2	YES	12
1718	meth_GHSR	meth	GHSR	YES	60
1720	cnv_MRPL38	cnv	MRPL38	YES	7
1721	meth_ADRB3	meth	ADRB3	YES	39
1725	stv_EVC2	stv	EVC2	YES	11
1727	stv_RAE1	stv	RAE1	YES	31
1728	mrna_ESPL1	mrna	ESPL1	YES	24
1732	cnv_CANT1	cnv	CANT1	YES	25

1733	cnv_ST14	cnv	ST14	YES	19
1733	stv_DCT	stv	DCT	YES	21
1738	stv_SCAI	stv	SCAI	YES	14
1740	meth_NRP2	meth	NRP2	YES	44
1742	meth_SCARA5	meth	SCARA5	YES	18
1748	cnv_RAD51C	cnv	RAD51C	YES	40
1749	mrna_AURKB	mrna	AURKB	YES	61
1750	mrna_CACYBP	mrna	CACYBP	YES	22
1750	mrna_CCT5	mrna	CCT5	YES	32
1755	stv_IGSF1	stv	IGSF1	YES	9
1757	meth_PHOX2A	meth	PHOX2A	YES	19
1757	meth_RAB26	meth	RAB26	YES	23
1759	cnv_BCO2	cnv	BCO2	YES	18
1760	cnv_RPS6KB1	cnv	RPS6KB1	YES	77
1761	meth_COL2A1	meth	COL2A1	YES	46
1762	mrna_DKC1	mrna	DKC1	YES	38
1763	meth_DRD4	meth	DRD4	YES	59
1767	cnv_ALYREF	cnv	ALYREF	YES	23
1770	mirna_LET7B	mirna	LET7B	NO	0
1770	mrna_GXYLT2	mrna	GXYLT2	YES	6
1771	meth_CUL5	meth	CUL5	YES	23
1773	mrna_GMPS	mrna	GMPS	YES	19
1783	meth_SLC6A20	meth	SLC6A20	YES	16
1784	mrna_CCND1	mrna	CCND1	YES	72
1790	mrna_RHBG	mrna	RHBG	YES	16
1791	meth_HOPX	meth	HOPX	YES	17
1792	meth_GALNT7	meth	GALNT7	YES	14
1792	stv_CPXM1	stv	CPXM1	YES	9
1793	meth_EGR2	meth	EGR2	YES	42
1795	cnv_CEBPB	cnv	CEBPB	YES	65
1795	cnv_ZBP1	cnv	ZBP1	YES	13
1798	stv_GTF2E2	stv	GTF2E2	YES	15
1800	meth_FOXG1	meth	FOXG1	YES	34
1806	mirna_MIR210	mirna	MIR210	YES	3
1810	mrna_LEPROT	mrna	LEPROT	YES	12
1815	meth_CHD6	meth	CHD6	YES	15
1825	meth_FOXF1	meth	FOXF1	YES	65
1826	meth_ZNF35	meth	ZNF35	YES	12
1827	mrna_GMNN	mrna	GMNN	YES	19
1828	mrna_MCM6	mrna	MCM6	YES	19
1832	meth_KRT20	meth	KRT20	YES	12
1834	meth_PDX1	meth	PDX1	YES	71
1836	cnv_NFIB	cnv	NFIB	YES	33
1837	mrna_ZBTB16	mrna	ZBTB16	YES	49
1838	cnv_BSG	cnv	BSG	YES	31
1839	meth_FMO3	meth	FMO3	YES	15
1842	stv_MEF2C	stv	MEF2C	YES	141

1843	mrna_GINS3	mrna	GINS3	YES	4
1846	meth_TRAP1	meth	TRAP1	YES	22
1850	meth_TNFAIP8	meth	TNFAIP8	YES	7
1851	cnv_USP32	cnv	USP32	YES	14
1852	meth_AXL	meth	AXL	YES	67
1853	cnv_ITGB4	cnv	ITGB4	YES	31
1854	cnv_ENPP7	cnv	ENPP7	YES	15
1855	cnv_HMBS	cnv	HMBS	YES	9
1856	cnv_C17orf80	cnv	C17orf80	YES	5
1857	mrna_GEM	mrna	GEM	YES	24
1858	cnv_DDX6	cnv	DDX6	YES	32
1860	meth_WNT10A	meth	WNT10A	YES	20
1863	cnv_MED16	cnv	MED16	YES	21
1863	cnv_PSMD12	cnv	PSMD12	YES	38
1864	mrna_SMC1B	mrna	SMC1B	YES	19
1865	meth_TAF1C	meth	TAF1C	YES	17
1868	mrna_ACOT7	mrna	ACOT7	YES	20
1874	cnv_PYCR1	cnv	PYCR1	YES	15
1875	cnv_GNAS	cnv	GNAS	YES	76
1878	mrna_ALYREF	mrna	ALYREF	YES	23
1880	stv_TESK2	stv	TESK2	YES	22
1881	cnv_ACP5	cnv	ACP5	YES	23
1882	meth_TMPRSS2	meth	TMPRSS2	YES	16
1887	cnv_UNC13D	cnv	UNC13D	YES	25
1892	cnv_ARHGDIA	cnv	ARHGDIA	YES	33
1893	cnv_IFNB1	cnv	IFNB1	YES	37
1897	mrna_TCEAL7	mrna	TCEAL7	YES	7
1898	meth_RFTN1	meth	RFTN1	YES	19
1903	meth_APLF	meth	APLF	YES	19
1908	cnv_IFNA8	cnv	IFNA8	YES	20
1910	cnv_OR8D1	cnv	OR8D1	YES	12
1920	cnv_C2CD2L	cnv	C2CD2L	YES	16
1923	cnv_GRIN3B	cnv	GRIN3B	YES	26
1925	cnv_ZACN	cnv	ZACN	YES	14
1928	mrna_AIFM1	mrna	AIFM1	YES	34
1931	meth_RASGRF2	meth	RASGRF2	YES	18
1932	mirna_MIR195	mirna	MIR195	YES	7
1933	mrna_TUBA1B	mrna	TUBA1B	YES	22
1934	meth_GRK4	meth	GRK4	YES	22
1938	mrna_PNPT1	mrna	PNPT1	YES	53
1942	meth_RAB11FIP4	meth	RAB11FIP4	YES	25
1946	cnv_TPGS1	cnv	TPGS1	YES	21
1961	cnv_RPTOR	cnv	RPTOR	YES	43
1965	cnv_GNG5	cnv	GNG5	YES	15
1969	cnv_NARF	cnv	NARF	YES	8
1969	cnv_TRIM29	cnv	TRIM29	YES	14
1971	cnv_FGF22	cnv	FGF22	YES	22

1972	mrna_AARS	mrna	AARS	YES	28
1973	cnv_DDX25	cnv	DDX25	YES	23
1974	cnv_PPM1D	cnv	PPM1D	YES	17
1979	stv_ANGEL2	stv	ANGEL2	YES	5
1981	stv_RALGAPB	stv	RALGAPB	YES	9
1988	meth_SLC6A2	meth	SLC6A2	YES	24
1990	meth_ALOX15	meth	ALOX15	YES	43
1991	mirna_MIR186	mirna	MIR186	YES	1
1994	cnv_POU2F3	cnv	POU2F3	YES	16
1998	cnv_ICAM2	cnv	ICAM2	YES	14
1998	meth_EVX1	meth	EVX1	YES	10
1999	cnv_MOCS3	cnv	MOCS3	YES	24
2002	stv_ABT1	stv	ABT1	YES	17
2003	mrna_PSMD11	mrna	PSMD11	YES	43
2013	mrna_AQP1	mrna	AQP1	YES	101
2013	stv_RB1CC1	stv	RB1CC1	YES	29
2019	cnv_PCK1	cnv	PCK1	YES	39
2021	meth_LRRFIP1	meth	LRRFIP1	YES	21
2022	cnv_KCNJ1	cnv	KCNJ1	YES	17
2026	mrna_H2AFZ	mrna	H2AFZ	YES	17
2026	stv_PXK	stv	PXK	YES	16
2029	mirna_MIR301B	mirna	MIR301B	NO	0
2030	mrna_HMMR	mrna	HMMR	YES	9
2031	mrna_TUBA1C	mrna	TUBA1C	YES	20
2039	meth_GALNT8	meth	GALNT8	YES	12
2049	mrna_RPL11	mrna	RPL11	YES	40
2054	meth_HIST1H1A	meth	HIST1H1A	YES	14
2054	mrna_CDC45	mrna	CDC45	YES	24
2059	cnv_SRPR	cnv	SRPR	YES	20
2063	meth_CXCL1	meth	CXCL1	YES	27
2067	stv_POMGNT2	stv	POMGNT2	YES	13
2079	meth_CWH43	meth	CWH43	YES	3
2084	mrna_E2F8	mrna	E2F8	YES	29
2091	cnv_RDX	cnv	RDX	YES	58
2103	meth_GRIA1	meth	GRIA1	YES	56
2104	meth_NKX6.3	meth	NKX6.3	NO	0
2105	meth_SSH1	meth	SSH1	YES	35
2111	meth_DDR2	meth	DDR2	YES	41
2112	meth_NES	meth	NES	YES	20
2113	mrna_OSR1	mrna	OSR1	YES	63
2130	meth_NLRP3	meth	NLRP3	YES	49
2145	cnv_VEZF1	cnv	VEZF1	YES	15
2145	mrna_C2orf40	mrna	C2orf40	YES	7
2175	meth_TUBB1	meth	TUBB1	YES	15
2178	meth_RAB27A	meth	RAB27A	YES	53
2193	cnv_RLN2	cnv	RLN2	YES	7
2199	mrna_PSMD2	mrna	PSMD2	YES	43

2208	stv_PUM2	stv	PUM2	YES	16
2215	stv_ANO5	stv	ANO5	YES	12

APPENDIX K

Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
meth_AASDH	meth	AASDH	YES	10
meth_ABCA11P	meth	ABCA11P	NO	0
meth_ABCB9	meth	ABCB9	YES	24
meth_ABCF1	meth	ABCF1	YES	17
meth_ABCF3	meth	ABCF3	YES	7
meth_ABHD11	meth	ABHD11	YES	11
meth_ABHD14A.ACY1	meth	ABHD14A.ACY1	NO	0
meth_ABHD16B	meth	ABHD16B	YES	1
meth_ABHD17B	meth	ABHD17B	YES	4
meth_ABI2	meth	ABI2	YES	26
meth_AC002985.3	meth	AC002985.3	NO	0
meth_AC005562.1	meth	AC005562.1	NO	0
meth_AC008074.3	meth	AC008074.3	NO	0
meth_AC009121.2	meth	AC009121.2	NO	0
meth_AC009133.21	meth	AC009133.21	NO	0
meth_AC010184.1	meth	AC010184.1	NO	0
meth_AC015849.2	meth	AC015849.2	NO	0
meth_AC016747.1	meth	AC016747.1	NO	0
meth_AC034198.1	meth	AC034198.1	NO	0
meth_AC034243.1	meth	AC034243.1	NO	0
meth_AC074338.5	meth	AC074338.5	NO	0
meth_AC079807.2	meth	AC079807.2	NO	0
meth_AC239868.1	meth	AC239868.1	NO	0
meth_ACAD10	meth	ACAD10	YES	11
meth_ACAD11	meth	ACAD11	YES	16
meth_ACAD8	meth	ACAD8	YES	15
meth_ACAT1	meth	ACAT1	YES	35
meth_ACBD5	meth	ACBD5	YES	13
meth_ACOT13	meth	ACOT13	YES	11
meth_ACSF2	meth	ACSF2	YES	12
meth_ACTL6A	meth	ACTL6A	YES	35
meth_ACVR2B	meth	ACVR2B	YES	59
meth_ACYP1	meth	ACYP1	YES	4
meth_ADAL	meth	ADAL	YES	13
meth_ADAM9	meth	ADAM9	YES	46
meth_ADAMTS6	meth	ADAMTS6	YES	9
meth_ADCK4	meth	ADCK4	YES	4
meth_ADCY7	meth	ADCY7	YES	29
meth_AGO3	meth	AGO3	YES	34
meth_AGT	meth	AGT	YES	111
meth_AHCYL2	meth	AHCYL2	YES	10
meth_AIG1	meth	AIG1	YES	4
meth_AKIRIN2	meth	AKIRIN2	YES	19
meth_AKR7A2	meth	AKR7A2	YES	16
meth_AKT1	meth	AKT1	YES	182
meth_AKTIP	meth	AKTIP	YES	19

meth_ALCAM	meth	ALCAM	YES	27
meth_ALDH18A1	meth	ALDH18A1	YES	26
meth_ALDH1B1	meth	ALDH1B1	YES	12
meth_ALG2	meth	ALG2	YES	21
meth_ALPK3	meth	ALPK3	YES	9
meth_AMD1	meth	AMD1	YES	11
meth_ANGPTL3	meth	ANGPTL3	YES	37
meth_ANKRD32	meth	ANKRD32	YES	3
meth_ANKRD40	meth	ANKRD40	YES	4
meth_ANKRD46	meth	ANKRD46	YES	2
meth_ANP32B	meth	ANP32B	YES	16
meth_AP000692.10	meth	AP000692.10	NO	0
meth_AP000695.4	meth	AP000695.4	NO	0
meth_AP1G1	meth	AP1G1	YES	34
meth_AP5S1	meth	AP5S1	YES	18
meth_APAF1	meth	APAF1	YES	42
meth_APMAP	meth	APMAP	YES	9
meth_APOM	meth	APOM	YES	25
meth_ARG1	meth	ARG1	YES	53
meth_ARHGAP19	meth	ARHGAP19	YES	7
meth_ARHGAP21	meth	ARHGAP21	YES	20
meth_ARHGAP5	meth	ARHGAP5	YES	20
meth_ARID1B	meth	ARID1B	YES	19
meth_ARID4B	meth	ARID4B	YES	20
meth_ARID5A	meth	ARID5A	YES	22
meth_ARL3	meth	ARL3	YES	36
meth_ARL8B	meth	ARL8B	YES	25
meth_ARMC2	meth	ARMC2	YES	2
meth_ARPC1A	meth	ARPC1A	YES	15
meth_ARPC5	meth	ARPC5	YES	34
meth_ASB13	meth	ASB13	YES	5
meth_ASCC3	meth	ASCC3	YES	21
meth_ASNSD1	meth	ASNSD1	YES	8
meth_ATAD3A	meth	ATAD3A	YES	9
meth_ATG4D	meth	ATG4D	YES	19
meth_ATL1	meth	ATL1	YES	20
meth_ATM	meth	ATM	YES	98
meth_ATP2A2	meth	ATP2A2	YES	55
meth_ATP6AP1L	meth	ATP6AP1L	YES	6
meth_ATP6V1F	meth	ATP6V1F	YES	19
meth_ATP6V1H	meth	ATP6V1H	YES	24
meth_ATP9B	meth	ATP9B	YES	17
meth_ATPAF2	meth	ATPAF2	YES	5
meth_ATPIF1	meth	ATPIF1	YES	26
meth_ATRIP	meth	ATRIP	YES	12
meth_AUP1	meth	AUP1	YES	13
meth_B3GALNT2	meth	B3GALNT2	YES	13

meth_B3GAT3	meth	B3GAT3	YES	22
meth_BAG1	meth	BAG1	YES	14
meth_BAG2	meth	BAG2	YES	9
meth_BCL3	meth	BCL3	YES	50
meth_BHLHE40	meth	BHLHE40	YES	30
meth_BICD1	meth	BICD1	YES	34
meth_BLOC1S6	meth	BLOC1S6	YES	29
meth_BPGM	meth	BPGM	YES	16
meth_BRAF	meth	BRAF	YES	69
meth_BRI3	meth	BRI3	YES	6
meth_BRIP1	meth	BRIP1	YES	44
meth_BSDC1	meth	BSDC1	NO	0
meth_BTAF1	meth	BTAF1	YES	12
meth_BTN2A3P	meth	BTN2A3P	NO	0
meth_BUB1	meth	BUB1	YES	31
meth_BX322557.10	meth	BX322557.10	NO	0
meth_C10orf11	meth	C10orf11	YES	1
meth_C11orf1	meth	C11orf1	YES	4
meth_C14orf159	meth	C14orf159	YES	9
meth_C14orf2	meth	C14orf2	YES	8
meth_C15orf57	meth	C15orf57	NO	0
meth_C16orf87	meth	C16orf87	YES	1
meth_C17orf59	meth	C17orf59	YES	1
meth_C18orf8	meth	C18orf8	YES	2
meth_C19orf38	meth	C19orf38	YES	2
meth_C19orf73	meth	C19orf73	YES	1
meth_C1orf131	meth	C1orf131	YES	2
meth_C1orf174	meth	C1orf174	YES	2
meth_C1orf43	meth	C1orf43	YES	4
meth_C1orf64	meth	C1orf64	NO	0
meth_C1orf86	meth	C1orf86	YES	10
meth_C21orf58	meth	C21orf58	NO	0
meth_C21orf62.AS1	meth	C21orf62.AS1	NO	0
meth_C22orf24	meth	C22orf24	YES	1
meth_C2CD2	meth	C2CD2	YES	4
meth_C3orf58	meth	C3orf58	YES	9
meth_C5	meth	C5	YES	31
meth_C5orf22	meth	C5orf22	YES	1
meth_C6orf203	meth	C6orf203	YES	1
meth_C6orf89	meth	C6orf89	YES	14
meth_CADM4	meth	CADM4	YES	13
meth_CALCOCO2	meth	CALCOCO2	YES	17
meth_CALU	meth	CALU	YES	15
meth_CAMK2D	meth	CAMK2D	YES	75
meth_CAMKMT	meth	CAMKMT	YES	14
meth_CAND1	meth	CAND1	YES	23
meth_CAP1P2	meth	CAP1P2	NO	0

meth_CAPZA1	meth	CAPZA1	YES	20
meth_CASC4	meth	CASC4	YES	3
meth_CATSPERD	meth	CATSPERD	YES	16
meth_CBLB	meth	CBLB	YES	25
meth_CBX3	meth	CBX3	YES	22
meth_CBY1	meth	CBY1	YES	25
meth_CCDC112	meth	CCDC112	YES	1
meth_CCDC186	meth	CCDC186	NO	0
meth_CCDC28A	meth	CCDC28A	YES	1
meth_CCDC28B	meth	CCDC28B	YES	7
meth_CCDC79	meth	CCDC79	YES	3
meth_CCNG1	meth	CCNG1	YES	14
meth_CCNG2	meth	CCNG2	YES	5
meth_CCNL1	meth	CCNL1	YES	14
meth_CCT4	meth	CCT4	YES	31
meth_CDC20B	meth	CDC20B	YES	4
meth_CDC23	meth	CDC23	YES	22
meth_CDC34	meth	CDC34	YES	27
meth_CDC45	meth	CDC45	YES	24
meth_CDCA8	meth	CDCA8	YES	23
meth_CDK9	meth	CDK9	YES	54
meth_CDKAL1	meth	CDKAL1	YES	19
meth_CEP44	meth	CEP44	YES	7
meth_CEP83	meth	CEP83	YES	14
meth_CEPT1	meth	CEPT1	YES	16
meth_CFAP36	meth	CFAP36	YES	3
meth_CFDP1	meth	CFDP1	YES	13
meth_CGGBP1	meth	CGGBP1	YES	12
meth_CGRRF1	meth	CGRRF1	YES	10
meth_CHCHD7	meth	CHCHD7	YES	3
meth_CHD1L	meth	CHD1L	YES	22
meth_CHORDC1	meth	CHORDC1	YES	11
meth_CIB3	meth	CIB3	YES	4
meth_CITED2	meth	CITED2	YES	87
meth_CLCN1	meth	CLCN1	YES	22
meth_CLCN2	meth	CLCN2	YES	18
meth_CLCNKB	meth	CLCNKB	YES	20
meth_CLDN12	meth	CLDN12	YES	11
meth_CLDN15	meth	CLDN15	YES	11
meth_CLDN16	meth	CLDN16	YES	15
meth_CLOCK	meth	CLOCK	YES	47
meth_CLPTM1L	meth	CLPTM1L	YES	3
meth_CLTA	meth	CLTA	YES	37
meth_CMPK1	meth	CMPK1	YES	27
meth_CNBP	meth	CNBP	YES	22
meth_CNN2	meth	CNN2	YES	24
meth_CNOT2	meth	CNOT2	YES	28

meth_CNOT3	meth	CNOT3	YES	18
meth_CNPY4	meth	CNPY4	YES	2
meth_COA5	meth	COA5	YES	3
meth_COG6	meth	COG6	YES	11
meth_COG8	meth	COG8	YES	10
meth_COMMD4	meth	COMMD4	YES	5
meth_COPB2	meth	COPB2	YES	21
meth_COPS6	meth	COPS6	YES	12
meth_COQ4	meth	COQ4	YES	6
meth_COQ5	meth	COQ5	YES	13
meth_COX7A2	meth	COX7A2	YES	8
meth_CPEB2	meth	CPEB2	YES	25
meth_CPS1	meth	CPS1	YES	59
meth_CRADD	meth	CRADD	YES	16
meth_CRAT	meth	CRAT	YES	15
meth_CRLS1	meth	CRLS1	YES	18
meth_CRTAP	meth	CRTAP	YES	12
meth_CRTC1	meth	CRTC1	YES	24
meth_CSAD	meth	CSAD	YES	12
meth_CSE1L	meth	CSE1L	YES	17
meth_CSNK2A2	meth	CSNK2A2	YES	34
meth_CTA.212D2.2	meth	CTA.212D2.2	NO	0
meth_CTA.276O3.4	meth	CTA.276O3.4	NO	0
meth_CTAGE1	meth	CTAGE1	YES	4
meth_CTB.161M19.4	meth	CTB.161M19.4	NO	0
meth_CTB.180A7.8	meth	CTB.180A7.8	NO	0
meth_CTB.66B24.1	meth	CTB.66B24.1	NO	0
meth_CTC.360G5.8	meth	CTC.360G5.8	NO	0
meth_CTC.492K19.7	meth	CTC.492K19.7	NO	0
meth_CTC.534A2.2	meth	CTC.534A2.2	NO	0
meth_CTD.2026K11.3	meth	CTD.2026K11.3	NO	0
meth_CTD.2026K11.4	meth	CTD.2026K11.4	NO	0
meth_CTD.2544N14.3	meth	CTD.2544N14.3	NO	0
meth_CTD.3131K8.2	meth	CTD.3131K8.2	NO	0
meth_CTNNB1	meth	CTNNB1	YES	260
meth_CTNS	meth	CTNS	YES	29
meth_CUL2	meth	CUL2	YES	21
meth_CUL4A	meth	CUL4A	YES	38
meth_CUTA	meth	CUTA	YES	8
meth_CYCS	meth	CYCS	YES	23
meth_CYP17A1	meth	CYP17A1	YES	54
meth_DBF4	meth	DBF4	YES	11
meth_DBP	meth	DBP	YES	14
meth_DCAF16	meth	DCAF16	YES	5
meth_DCAF8	meth	DCAF8	YES	9
meth_DCSTAMP	meth	DCSTAMP	YES	24
meth_DCTN2	meth	DCTN2	YES	28

meth_DDA1	meth	DDA1	YES	4
meth_DDR2	meth	DDR2	YES	41
meth_DDX23	meth	DDX23	YES	22
meth_DDX41	meth	DDX41	YES	30
meth_DEPDC1B	meth	DEPDC1B	YES	8
meth_DEPTOR	meth	DEPTOR	YES	8
meth_DERL1	meth	DERL1	YES	40
meth_DHX29	meth	DHX29	YES	19
meth_DIABLO	meth	DIABLO	YES	17
meth_DICER1	meth	DICER1	YES	71
meth_DIO2	meth	DIO2	YES	16
meth_DLGAP5	meth	DLGAP5	YES	17
meth_DLST	meth	DLST	YES	17
meth_DNAJA3	meth	DNAJA3	YES	52
meth_DNAJC18	meth	DNAJC18	YES	2
meth_DNPH1	meth	DNPH1	YES	18
meth_DNTTIP2	meth	DNTTIP2	YES	5
meth_DOCK4	meth	DOCK4	YES	22
meth_DOHH	meth	DOHH	YES	9
meth_DPF2	meth	DPF2	YES	15
meth_DUSP6	meth	DUSP6	YES	40
meth_DUT	meth	DUT	YES	16
meth_DYNLL1.AS1	meth	DYNLL1.AS1	NO	0
meth_DYNLL2	meth	DYNLL2	YES	34
meth_EAF2	meth	EAF2	YES	17
meth_EARS2	meth	EARS2	YES	18
meth_ECI2	meth	ECI2	YES	15
meth_EEF2	meth	EEF2	YES	47
meth_EFNA1	meth	EFNA1	YES	40
meth_EGF	meth	EGF	YES	67
meth_EHD4	meth	EHD4	YES	23
meth_EHMT2	meth	EHMT2	YES	50
meth_EI24	meth	EI24	YES	13
meth_EIF1	meth	EIF1	YES	10
meth_EIF2B2	meth	EIF2B2	YES	22
meth_EIF3E	meth	EIF3E	YES	25
meth_EIF3H	meth	EIF3H	YES	15
meth_EIF4A1	meth	EIF4A1	YES	25
meth_EIF6	meth	EIF6	YES	27
meth_ELMO2	meth	ELMO2	YES	15
meth_ELP3	meth	ELP3	YES	30
meth_EMCN	meth	EMCN	YES	9
meth_ENY2	meth	ENY2	YES	23
meth_EP300	meth	EP300	YES	102
meth_EPRS	meth	EPRS	YES	30
meth_ERGIC1	meth	ERGIC1	YES	14
meth_ERLIN1	meth	ERLIN1	YES	17

meth_ERP44	meth	ERP44	YES	16
meth_EVI5L	meth	EVI5L	YES	12
meth_EYA3	meth	EYA3	YES	26
meth_EZH2	meth	EZH2	YES	69
meth_F12	meth	F12	YES	27
meth_F2	meth	F2	YES	58
meth_FABP7	meth	FABP7	YES	20
meth_FAM110A	meth	FAM110A	YES	5
meth_FAM131A	meth	FAM131A	YES	1
meth_FAM175A	meth	FAM175A	YES	9
meth_FAM189B	meth	FAM189B	YES	5
meth_FAM195A	meth	FAM195A	YES	1
meth_FAM204A	meth	FAM204A	NO	0
meth_FAM213B	meth	FAM213B	YES	16
meth_FAM220A	meth	FAM220A	YES	5
meth_FAM47E	meth	FAM47E	YES	3
meth_FAM81A	meth	FAM81A	NO	0
meth_FAM84B	meth	FAM84B	YES	3
meth_FARP2	meth	FARP2	YES	18
meth_FASTK	meth	FASTK	YES	16
meth_FBXO3	meth	FBXO3	YES	7
meth_FBXO36	meth	FBXO36	YES	1
meth_FBXW9	meth	FBXW9	YES	5
meth_FGF1	meth	FGF1	YES	57
meth_FH	meth	FH	YES	13
meth_FKBP14	meth	FKBP14	YES	11
meth_FKBP1A	meth	FKBP1A	YES	60
meth_FLAD1	meth	FLAD1	YES	16
meth_FLRT1	meth	FLRT1	YES	32
meth_FMO5	meth	FMO5	YES	14
meth_FTSJ2	meth	FTSJ2	YES	9
meth_GADD45A	meth	GADD45A	YES	30
meth_GADD45G	meth	GADD45G	YES	14
meth_GBA2	meth	GBA2	YES	22
meth_GBF1	meth	GBF1	YES	44
meth_GEMIN2	meth	GEMIN2	YES	18
meth_GGTLC1	meth	GGTLC1	YES	7
meth_GJA1	meth	GJA1	YES	88
meth_GLE1	meth	GLE1	YES	21
meth_GLUL	meth	GLUL	YES	42
meth_GMNN	meth	GMNN	YES	19
meth_GNAI3	meth	GNAI3	YES	40
meth_GNG5	meth	GNG5	YES	15
meth_GOLGA2	meth	GOLGA2	YES	38
meth_GOLT1A	meth	GOLT1A	YES	7
meth_GOSR2	meth	GOSR2	YES	25
meth_GPALPP1	meth	GPALPP1	NO	0

meth_GPATCH3	meth	GPATCH3	YES	2
meth_GPI	meth	GPI	YES	46
meth_GRB2	meth	GRB2	YES	73
meth_GSTZ1	meth	GSTZ1	YES	19
meth_GTF3C1	meth	GTF3C1	YES	20
meth_GTPBP2	meth	GTPBP2	YES	9
meth_GUCD1	meth	GUCD1	YES	1
meth_GYG1	meth	GYG1	YES	16
meth_H2AFX	meth	H2AFX	YES	32
meth_HABP4	meth	HABP4	YES	13
meth_HAO2	meth	HAO2	YES	17
meth_HAT1	meth	HAT1	YES	23
meth_HIF1AN	meth	HIF1AN	YES	33
meth_HILPDA	meth	HILPDA	YES	17
meth_HINFP	meth	HINFP	YES	32
meth_HINT2	meth	HINT2	YES	10
meth_HINT3	meth	HINT3	YES	6
meth_HIST1H1C	meth	HIST1H1C	YES	15
meth_HIST1H2APS2	meth	HIST1H2APS2	NO	0
meth_HIST1H2BD	meth	HIST1H2BD	YES	11
meth_HIST1H4B	meth	HIST1H4B	YES	36
meth_HIST2H2AC	meth	HIST2H2AC	YES	10
meth_HIST3H3	meth	HIST3H3	YES	16
meth_HIVEP1	meth	HIVEP1	YES	19
meth_HLCS	meth	HLCS	YES	27
meth_HMBS	meth	HMBS	YES	9
meth_HMGB1	meth	HMGB1	YES	124
meth_HMGCS1	meth	HMGCS1	YES	37
meth_HNRNPA0	meth	HNRNPA0	YES	15
meth_HNRNPD	meth	HNRNPD	YES	51
meth_HNRNPH1	meth	HNRNPH1	YES	18
meth_HOXB6	meth	HOXB6	YES	13
meth_HRK	meth	HRK	YES	9
meth_HRSP12	meth	HRSP12	YES	6
meth_HSD17B11	meth	HSD17B11	YES	12
meth_HSD17B8	meth	HSD17B8	YES	22
meth_HSPB1	meth	HSPB1	YES	50
meth_HYOU1	meth	HYOU1	YES	21
meth_IDI1	meth	IDI1	YES	16
meth_IFNGR1	meth	IFNGR1	YES	17
meth_IFT74	meth	IFT74	YES	23
meth_IL20	meth	IL20	YES	11
meth_ILDR2	meth	ILDR2	YES	9
meth_IMPA1	meth	IMPA1	YES	23
meth_IMPAD1	meth	IMPAD1	YES	25
meth_ING2	meth	ING2	YES	35
meth_ING3	meth	ING3	YES	16

meth_INHBC	meth	INHBC	YES	12
meth_INIP	meth	INIP	YES	7
meth_INPP5A	meth	INPP5A	YES	14
meth_IQCD	meth	IQCD	YES	1
meth_IRF2BP2	meth	IRF2BP2	YES	6
meth_ISCA2	meth	ISCA2	YES	13
meth_ISCU	meth	ISCU	YES	18
meth_ISLR	meth	ISLR	YES	6
meth_ITFG1	meth	ITFG1	YES	4
meth_ITFG3	meth	ITFG3	YES	1
meth_ITGAV	meth	ITGAV	YES	84
meth_ITIH1	meth	ITIH1	YES	9
meth_ITPA	meth	ITPA	YES	17
meth_ITPR1	meth	ITPR1	YES	50
meth_JARID2	meth	JARID2	YES	30
meth_JDP2	meth	JDP2	YES	16
meth_KAT8	meth	KAT8	YES	31
meth_KBTBD8	meth	KBTBD8	YES	14
meth_KCNIP2.AS1	meth	KCNIP2.AS1	NO	0
meth_KCNK15	meth	KCNK15	YES	13
meth_KCNQ1	meth	KCNQ1	YES	69
meth_KCTD15	meth	KCTD15	YES	4
meth_KDM5B	meth	KDM5B	YES	39
meth_KDSR	meth	KDSR	YES	12
meth_KIF14	meth	KIF14	YES	51
meth_KIF9	meth	KIF9	YES	18
meth_KLHDC10	meth	KLHDC10	YES	4
meth_KLHL11	meth	KLHL11	YES	9
meth_KLHL32	meth	KLHL32	YES	8
meth_KMT2E	meth	KMT2E	YES	23
meth_KPNA5	meth	KPNA5	YES	15
meth_LACTB	meth	LACTB	YES	7
meth_LAMP1	meth	LAMP1	YES	46
meth_LAPTM4B	meth	LAPTM4B	YES	5
meth_LASP1	meth	LASP1	YES	17
meth_LCN6	meth	LCN6	YES	2
meth_LDHD	meth	LDHD	YES	10
meth_LEMD2	meth	LEMD2	YES	18
meth_LENG1	meth	LENG1	YES	4
meth_LIMA1	meth	LIMA1	YES	17
meth_LINC01089	meth	LINC01089	NO	0
meth_LINC01465	meth	LINC01465	NO	0
meth_LIPC	meth	LIPC	YES	28
meth_LL09NC01.251B2.3	meth	LL09NC01.251B2.3	NO	0
meth_LMO1	meth	LMO1	YES	8
meth_LMTK2	meth	LMTK2	YES	28
meth_LRRC20	meth	LRRC20	YES	1

meth_LRRC23	meth	LRRC23	YES	4
meth_LRRC59	meth	LRRC59	YES	11
meth_LRRC8D	meth	LRRC8D	YES	16
meth_LRRFIP2	meth	LRRFIP2	YES	6
meth_LSM14A	meth	LSM14A	YES	15
meth_MAFG	meth	MAFG	YES	19
meth_MAN1A1	meth	MAN1A1	YES	17
meth_MAN2C1	meth	MAN2C1	YES	15
meth_MANEA	meth	MANEA	YES	8
meth_MAP2K3	meth	MAP2K3	YES	34
meth_MAP2K4	meth	MAP2K4	YES	43
meth_MAP3K8	meth	MAP3K8	YES	25
meth_MAP3K9	meth	MAP3K9	YES	28
meth_MAPK14	meth	MAPK14	YES	92
meth_MASP2	meth	MASP2	YES	18
meth_MAU2	meth	MAU2	YES	13
meth_MCM3	meth	MCM3	YES	22
meth_MCM8	meth	MCM8	YES	19
meth_MCUR1	meth	MCUR1	YES	13
meth_MDH1	meth	MDH1	YES	24
meth_MEAF6	meth	MEAF6	YES	23
meth_MED19	meth	MED19	YES	10
meth_MEIS2	meth	MEIS2	YES	26
meth_METTL21A	meth	METTL21A	YES	14
meth_MFHAS1	meth	MFHAS1	YES	5
meth_MGMT	meth	MGMT	YES	31
meth_MGST3	meth	MGST3	YES	19
meth_MICALL1	meth	MICALL1	YES	26
meth_MIF4GD	meth	MIF4GD	YES	8
meth_MINPP1	meth	MINPP1	YES	18
meth_MIR1181	meth	MIR1181	NO	0
meth_MIR1273F	meth	MIR1273F	NO	0
meth_MIR320A	meth	MIR320A	YES	3
meth_MIR4453	meth	MIR4453	NO	0
meth_MIR6125	meth	MIR6125	NO	0
meth_MIR636	meth	MIR636	NO	0
meth_MIR639	meth	MIR639	NO	0
meth_MIR6508	meth	MIR6508	NO	0
meth_MIR6781	meth	MIR6781	NO	0
meth_MLLT1	meth	MLLT1	YES	12
meth_MLXIP	meth	MLXIP	YES	16
meth_MNT	meth	MNT	YES	19
meth_MOB1A	meth	MOB1A	YES	7
meth_MOK	meth	MOK	YES	19
meth_MPC1	meth	MPC1	YES	14
meth_MPHOSPH8	meth	MPHOSPH8	YES	19
meth_MPPE1	meth	MPPE1	YES	20

meth_MRPL47	meth	MRPL47	YES	14
meth_MRPL57	meth	MRPL57	YES	10
meth_MRPS10	meth	MRPS10	YES	9
meth_MRPS25	meth	MRPS25	YES	7
meth_MSANTD2	meth	MSANTD2	NO	0
meth_MSH2	meth	MSH2	YES	65
meth_MSRB1	meth	MSRB1	YES	20
meth_MSRB2	meth	MSRB2	YES	14
meth_MTA1	meth	MTA1	YES	36
meth_MTHFD1	meth	MTHFD1	YES	38
meth_MTHFD1L	meth	MTHFD1L	YES	22
meth_MTIF2	meth	MTIF2	YES	15
meth_MXD3	meth	MXD3	YES	11
meth_MYC	meth	MYC	YES	73
meth_MYO1C	meth	MYO1C	YES	52
meth_MYO9B	meth	MYO9B	YES	40
meth_MYOZ3	meth	MYOZ3	YES	8
meth_MZT2A	meth	MZT2A	YES	8
meth_NADK2	meth	NADK2	YES	12
meth_NASP	meth	NASP	YES	19
meth_NAT9	meth	NAT9	YES	5
meth_NBN	meth	NBN	YES	50
meth_NDUFA10	meth	NDUFA10	YES	13
meth_NDUFAB1	meth	NDUFAB1	YES	25
meth_NDUFAF4	meth	NDUFAF4	YES	8
meth_NDUFB2	meth	NDUFB2	YES	9
meth_NDUFB6	meth	NDUFB6	YES	13
meth_NDUFS8	meth	NDUFS8	YES	17
meth_NEDD9	meth	NEDD9	YES	23
meth_NHLRC3	meth	NHLRC3	YES	4
meth_NKTR	meth	NKTR	YES	10
meth_NLK	meth	NLK	YES	33
meth_NME6	meth	NME6	YES	18
meth_NMU	meth	NMU	YES	20
meth_NNMT	meth	NNMT	YES	11
meth_NNT	meth	NNT	YES	17
meth_NOL4L	meth	NOL4L	YES	3
meth_NPAS2	meth	NPAS2	YES	26
meth_NPC1	meth	NPC1	YES	49
meth_NPL	meth	NPL	YES	10
meth_NR3C2	meth	NR3C2	YES	22
meth_NR4A3	meth	NR4A3	YES	70
meth_NSUN6	meth	NSUN6	YES	10
meth_OPTN	meth	OPTN	YES	41
meth_OSBPL11	meth	OSBPL11	YES	10
meth_OSBPL8	meth	OSBPL8	YES	24
meth_OSGIN1	meth	OSGIN1	YES	10

meth_OSTC	meth	OSTC	YES	8
meth_P4HA1	meth	P4HA1	YES	19
meth_PAFAH2	meth	PAFAH2	YES	9
meth_PAPD7	meth	PAPD7	YES	17
meth_PARP4	meth	PARP4	YES	24
meth_PARPG1	meth	PARPG1	NO	0
meth_PBK	meth	PBK	YES	17
meth_PCCB	meth	PCCB	YES	16
meth_PCM1	meth	PCM1	YES	35
meth_PER3	meth	PER3	YES	13
meth_PEX19	meth	PEX19	YES	23
meth_PGD	meth	PGD	YES	11
meth_PI4KA	meth	PI4KA	YES	25
meth_PIAS4	meth	PIAS4	YES	28
meth_PIEZO1	meth	PIEZO1	YES	20
meth_PIGG	meth	PIGG	YES	14
meth_PIGT	meth	PIGT	YES	14
meth_PIGU	meth	PIGU	YES	13
meth_PIGV	meth	PIGV	YES	13
meth_PIK3CA	meth	PIK3CA	YES	67
meth_PITPNB	meth	PITPNB	YES	12
meth_PKLR	meth	PKLR	YES	29
meth_PLEKHA1	meth	PLEKHA1	YES	31
meth_PLGRKT	meth	PLGRKT	YES	9
meth_POLG	meth	POLG	YES	27
meth_POLR2K	meth	POLR2K	YES	35
meth_POLR3K	meth	POLR3K	YES	18
meth_POM121	meth	POM121	YES	29
meth_POMK	meth	POMK	YES	20
meth_POP4	meth	POP4	YES	19
meth_POU6F1	meth	POU6F1	YES	14
meth_PPCDC	meth	PPCDC	YES	9
meth_PPL	meth	PPL	YES	17
meth_PPP1R12A	meth	PPP1R12A	YES	29
meth_PPP1R15B	meth	PPP1R15B	YES	13
meth_PRDM2	meth	PRDM2	YES	19
meth_PRDX3	meth	PRDX3	YES	41
meth_PRH1	meth	PRH1	NO	0
meth_PRMT5	meth	PRMT5	YES	46
meth_PRPF4B	meth	PRPF4B	YES	18
meth_PRRC2A	meth	PRRC2A	YES	7
meth_PSMA5	meth	PSMA5	YES	44
meth_PSMC3	meth	PSMC3	YES	55
meth_PSPN	meth	PSPN	YES	10
meth_PTDSS2	meth	PTDSS2	YES	10
meth_PTGR2	meth	PTGR2	YES	7
meth_PTPN1	meth	PTPN1	YES	54

meth_PTRH1	meth	PTRH1	YES	5
meth_PURA	meth	PURA	YES	29
meth_PYCRL	meth	PYCRL	YES	6
meth_R3HDM1	meth	R3HDM1	YES	2
meth_RAB10	meth	RAB10	YES	54
meth_RAB30	meth	RAB30	YES	17
meth_RAB3GAP2	meth	RAB3GAP2	YES	21
meth_RAB4B	meth	RAB4B	YES	16
meth_RAB7A	meth	RAB7A	YES	61
meth_RAB8B	meth	RAB8B	YES	36
meth_RABL2A	meth	RABL2A	YES	12
meth_RABL6	meth	RABL6	YES	8
meth_RACGAP1	meth	RACGAP1	YES	50
meth_RAD17	meth	RAD17	YES	22
meth_RAD21	meth	RAD21	YES	33
meth_RANGAP1	meth	RANGAP1	YES	35
meth_RAP2A	meth	RAP2A	YES	27
meth_RAPGEF3	meth	RAPGEF3	YES	35
meth_RBPJ	meth	RBPJ	YES	85
meth_RBSN	meth	RBSN	YES	25
meth_RFC2	meth	RFC2	YES	24
meth_RFT1	meth	RFT1	YES	8
meth_RFX5	meth	RFX5	YES	13
meth_RHEBL1	meth	RHEBL1	YES	12
meth_RHOA	meth	RHOA	YES	78
meth_RIOK3	meth	RIOK3	YES	28
meth_RIPK2	meth	RIPK2	YES	82
meth_RMRP	meth	RMRP	NO	0
meth_RN7SL521P	meth	RN7SL521P	NO	0
meth_RNASEH2C	meth	RNASEH2C	YES	3
meth_RNF122	meth	RNF122	YES	9
meth_RNF138	meth	RNF138	YES	20
meth_RNF19A	meth	RNF19A	YES	19
meth_RNF25	meth	RNF25	YES	9
meth_RNF41	meth	RNF41	YES	36
meth_RNF44	meth	RNF44	YES	4
meth_RNF6	meth	RNF6	YES	24
meth_RNU6.510P	meth	RNU6.510P	NO	0
meth_ROCK1	meth	ROCK1	YES	63
meth_ROPN1L	meth	ROPN1L	YES	4
meth_RP11.102M11.2	meth	RP11.102M11.2	NO	0
meth_RP11.114F3.4	meth	RP11.114F3.4	NO	0
meth_RP11.126K1.2	meth	RP11.126K1.2	NO	0
meth_RP11.159G9.5	meth	RP11.159G9.5	NO	0
meth_RP11.15A1.7	meth	RP11.15A1.7	NO	0
meth_RP11.166B2.8	meth	RP11.166B2.8	NO	0
meth_RP11.193F5.1	meth	RP11.193F5.1	NO	0

meth_RP11.214K3.25	meth	RP11.214K3.25	NO	0
meth_RP11.277A4.4	meth	RP11.277A4.4	NO	0
meth_RP11.295G20.2	meth	RP11.295G20.2	NO	0
meth_RP11.299J3.8	meth	RP11.299J3.8	NO	0
meth_RP11.29G8.3	meth	RP11.29G8.3	NO	0
meth_RP11.335G20.7	meth	RP11.335G20.7	NO	0
meth_RP11.342M1.3	meth	RP11.342M1.3	NO	0
meth_RP11.366L5.1	meth	RP11.366L5.1	NO	0
meth_RP11.399K21.11	meth	RP11.399K21.11	NO	0
meth_RP11.410L14.2	meth	RP11.410L14.2	NO	0
meth_RP11.415I12.3	meth	RP11.415I12.3	NO	0
meth_RP11.458J1.1	meth	RP11.458J1.1	NO	0
meth_RP11.482M8.1	meth	RP11.482M8.1	NO	0
meth_RP11.540D14.8	meth	RP11.540D14.8	NO	0
meth_RP11.57H14.2	meth	RP11.57H14.2	NO	0
meth_RP11.61K9.3	meth	RP11.61K9.3	NO	0
meth_RP11.705O1.8	meth	RP11.705O1.8	NO	0
meth_RP11.775C24.5	meth	RP11.775C24.5	NO	0
meth_RP11.814H16.2	meth	RP11.814H16.2	NO	0
meth_RP11.92B11.4	meth	RP11.92B11.4	NO	0
meth_RP3.465N24.6	meth	RP3.465N24.6	NO	0
meth_RP4.816N1.6	meth	RP4.816N1.6	NO	0
meth_RPE	meth	RPE	YES	15
meth_RPL13	meth	RPL13	YES	21
meth_RPL18A	meth	RPL18A	YES	18
meth_RPL19	meth	RPL19	YES	19
meth_RPL35	meth	RPL35	YES	21
meth_RPLP1	meth	RPLP1	YES	21
meth_RPN1	meth	RPN1	YES	17
meth_RPS13	meth	RPS13	YES	26
meth_RPS14	meth	RPS14	YES	29
meth_RPS19BP1	meth	RPS19BP1	YES	8
meth_RPS3	meth	RPS3	YES	92
meth_RSPH3	meth	RSPH3	YES	4
meth_RTN3	meth	RTN3	YES	16
meth_RTN4	meth	RTN4	YES	37
meth_S100A5	meth	S100A5	YES	8
meth_SAMD12	meth	SAMD12	YES	3
meth_SAP130	meth	SAP130	YES	7
meth_SAP18	meth	SAP18	YES	23
meth_SAT2	meth	SAT2	YES	13
meth_SBNO2	meth	SBNO2	YES	18
meth_SCGB3A2	meth	SCGB3A2	YES	3
meth_SDF2L1	meth	SDF2L1	YES	14
meth_SEC11A	meth	SEC11A	YES	13
meth_SEC23B	meth	SEC23B	YES	16
meth_SELP	meth	SELP	YES	34

meth_SEMA6C	meth	SEMA6C	YES	8
meth_SENP1	meth	SENP1	YES	20
meth_SEPSECS	meth	SEPSECS	YES	14
meth_SETD6	meth	SETD6	YES	15
meth_SETDB2	meth	SETDB2	YES	24
meth_SGMS1	meth	SGMS1	YES	26
meth_SHFM1	meth	SHFM1	YES	6
meth_SIDT1	meth	SIDT1	YES	4
meth_SIKE1	meth	SIKE1	YES	5
meth_SKP1	meth	SKP1	YES	33
meth_SLC15A4	meth	SLC15A4	YES	16
meth_SLC25A19	meth	SLC25A19	YES	16
meth_SLC25A51	meth	SLC25A51	YES	8
meth_SLC27A4	meth	SLC27A4	YES	27
meth_SLC27A5	meth	SLC27A5	YES	29
meth_SLC35D1	meth	SLC35D1	YES	19
meth_SLC35E2	meth	SLC35E2	YES	2
meth_SLC35F6	meth	SLC35F6	YES	17
meth_SLC37A3	meth	SLC37A3	YES	10
meth_SLC38A1	meth	SLC38A1	YES	24
meth_SLC43A1	meth	SLC43A1	YES	14
meth_SLC43A2	meth	SLC43A2	YES	14
meth_SLC9A1	meth	SLC9A1	YES	85
meth_SLCO1C1	meth	SLCO1C1	YES	15
meth_SMAD7	meth	SMAD7	YES	64
meth_SMC5	meth	SMC5	YES	25
meth_SMPD1	meth	SMPD1	YES	30
meth_SNAP23	meth	SNAP23	YES	32
meth_SNORD38	meth	SNORD38	NO	0
meth_SNRPG	meth	SNRPG	YES	30
meth_SOCS5	meth	SOCS5	YES	25
meth_SOX12	meth	SOX12	YES	16
meth_SOX4	meth	SOX4	YES	60
meth_SPAG1	meth	SPAG1	YES	7
meth_SPSB1	meth	SPSB1	YES	9
meth_SPSB2	meth	SPSB2	YES	9
meth_SRD5A3.AS1	meth	SRD5A3.AS1	NO	0
meth_SRP54	meth	SRP54	YES	25
meth_SRPRB	meth	SRPRB	YES	15
meth_SRSF6	meth	SRSF6	YES	26
meth_ST6GAL1	meth	ST6GAL1	YES	19
meth_STAMBP	meth	STAMBP	YES	25
meth_STARD5	meth	STARD5	YES	10
meth_STARD7	meth	STARD7	YES	5
meth_STAT1	meth	STAT1	YES	68
meth_STK11	meth	STK11	YES	65
meth_STON2	meth	STON2	YES	17

meth_STRN	meth	STRN	YES	20
meth_STX16	meth	STX16	YES	24
meth_STX18	meth	STX18	YES	21
meth_SUCLG1	meth	SUCLG1	YES	21
meth_SULF2	meth	SULF2	YES	33
meth_SUPT4H1	meth	SUPT4H1	YES	24
meth_SYCP2	meth	SYCP2	YES	16
meth_SYNGR4	meth	SYNGR4	YES	4
meth_SYS1.DBNDD2	meth	SYS1.DBNDD2	NO	0
meth_TAB2	meth	TAB2	YES	32
meth_TACO1	meth	TACO1	YES	4
meth_TAF1C	meth	TAF1C	YES	17
meth_TAL2	meth	TAL2	YES	13
meth_TAPBP	meth	TAPBP	YES	30
meth_TARS2	meth	TARS2	YES	18
meth_TBC1D19	meth	TBC1D19	YES	3
meth_TBPL2	meth	TBPL2	YES	9
meth_TBX19	meth	TBX19	YES	16
meth_TCEA1	meth	TCEA1	YES	23
meth_TCTN2	meth	TCTN2	YES	11
meth_TESK2	meth	TESK2	YES	22
meth_TFAM	meth	TFAM	YES	27
meth_TFCP2	meth	TFCP2	YES	15
meth_THAP1	meth	THAP1	YES	20
meth_THAP2	meth	THAP2	YES	4
meth_THAP7	meth	THAP7	YES	15
meth_THRSP	meth	THRSP	YES	12
meth_TIAL1	meth	TIAL1	YES	18
meth_TINF2	meth	TINF2	YES	19
meth_TLE3	meth	TLE3	YES	9
meth_TLK1	meth	TLK1	YES	16
meth_TMED4	meth	TMED4	YES	10
meth_TMED9	meth	TMED9	YES	20
meth_TMEM126A	meth	TMEM126A	YES	6
meth_TMEM161A	meth	TMEM161A	YES	7
meth_TMEM183A	meth	TMEM183A	YES	3
meth_TMEM206	meth	TMEM206	YES	3
meth_TMEM207	meth	TMEM207	YES	2
meth_TMEM241	meth	TMEM241	YES	8
meth_TMEM254	meth	TMEM254	YES	2
meth_TMEM260	meth	TMEM260	YES	2
meth_TMEM33	meth	TMEM33	YES	19
meth_TMEM81	meth	TMEM81	YES	2
meth_TMEM86A	meth	TMEM86A	YES	2
meth_TMPO	meth	TMPO	YES	14
meth_TMTC2	meth	TMTC2	YES	6
meth_TNS1	meth	TNS1	YES	13

meth_TOMM7	meth	TOMM7	YES	18
meth_TOR1A	meth	TOR1A	YES	50
meth_TP53BP1	meth	TP53BP1	YES	37
meth_TPRKB	meth	TPRKB	YES	7
meth_TRAPPC10	meth	TRAPPC10	YES	19
meth_TRIB1	meth	TRIB1	YES	23
meth_TRIM28	meth	TRIM28	YES	55
meth_TRIM45	meth	TRIM45	YES	9
meth_TRIP13	meth	TRIP13	YES	20
meth_TRMT1	meth	TRMT1	YES	15
meth_TROVE2	meth	TROVE2	YES	14
meth_TSFM	meth	TSFM	YES	12
meth_TSN	meth	TSN	YES	18
meth_TTLL4	meth	TTLL4	YES	15
meth_TUBA3E	meth	TUBA3E	YES	14
meth_TUBB	meth	TUBB	YES	37
meth_TXNL1	meth	TXNL1	YES	16
meth_TXNRD1	meth	TXNRD1	YES	44
meth_TYRO3	meth	TYRO3	YES	46
meth_UBE2N	meth	UBE2N	YES	46
meth_UBE2Q1	meth	UBE2Q1	YES	17
meth_UBL3	meth	UBL3	YES	4
meth_UBL7	meth	UBL7	YES	1
meth_UBLCP1	meth	UBLCP1	YES	7
meth_UFM1	meth	UFM1	YES	10
meth_UGGT1	meth	UGGT1	YES	18
meth_UGT2B4	meth	UGT2B4	YES	14
meth_UHRF2	meth	UHRF2	YES	19
meth_UQCRC2	meth	UQCRC2	YES	21
meth_URI1	meth	URI1	YES	24
meth_USF2	meth	USF2	YES	23
meth_USP33	meth	USP33	YES	38
meth_USP5	meth	USP5	YES	18
meth_VAMP2	meth	VAMP2	YES	60
meth_VASP	meth	VASP	YES	27
meth_VDAC2	meth	VDAC2	YES	23
meth_VGLL4	meth	VGLL4	YES	4
meth_VPS13A	meth	VPS13A	YES	12
meth_VPS18	meth	VPS18	YES	30
meth_WBSCR16	meth	WBSCR16	YES	3
meth_WDR31	meth	WDR31	YES	1
meth_WDR59	meth	WDR59	YES	10
meth_WDR6	meth	WDR6	YES	12
meth_WDYHV1	meth	WDYHV1	YES	8
meth_WWC1	meth	WWC1	YES	25
meth_WWP2	meth	WWP2	YES	34
meth_XPO1	meth	XPO1	YES	42

meth_XPR1	meth	XPR1	YES	17
meth_YBX1	meth	YBX1	YES	37
meth_YIPF4	meth	YIPF4	YES	7
meth_YWHAG	meth	YWHAG	YES	28
meth_ZBTB20	meth	ZBTB20	YES	13
meth_ZBTB26	meth	ZBTB26	YES	11
meth_ZBTB3	meth	ZBTB3	YES	6
meth_ZBTB7A	meth	ZBTB7A	YES	14
meth_ZC3H10	meth	ZC3H10	YES	3
meth_ZC3H7B	meth	ZC3H7B	YES	6
meth_ZFAND5	meth	ZFAND5	YES	16
meth_ZHX1.C8orf76	meth	ZHX1.C8orf76	NO	0
meth_ZMAT2	meth	ZMAT2	YES	9
meth_ZMAT3	meth	ZMAT3	YES	17
meth_ZNF250	meth	ZNF250	YES	8
meth_ZNF267	meth	ZNF267	YES	9
meth_ZNF330	meth	ZNF330	YES	9
meth_ZNF33B	meth	ZNF33B	YES	8
meth_ZNF362	meth	ZNF362	YES	6
meth_ZNF385A	meth	ZNF385A	YES	34
meth_ZNF444	meth	ZNF444	YES	9
meth_ZNF517	meth	ZNF517	YES	7
meth_ZNF555	meth	ZNF555	YES	8
meth_ZNF561	meth	ZNF561	YES	7
meth_ZNF622	meth	ZNF622	YES	18
meth_ZNF638	meth	ZNF638	YES	14
meth_ZNF653	meth	ZNF653	YES	6
meth_ZNF764	meth	ZNF764	YES	8
meth_ZNF776	meth	ZNF776	YES	7
meth_ZNHIT3	meth	ZNHIT3	YES	5
meth_ZSCAN9	meth	ZSCAN9	YES	8
mirna_MIR1224	miRNA	MIR1224	NO	0
mirna_MIR1243	miRNA	MIR1243	NO	0
mirna_MIR132	miRNA	MIR132	YES	8
mirna_MIR1468	miRNA	MIR1468	YES	1
mirna_MIR2113	miRNA	MIR2113	NO	0
mirna_MIR2116	miRNA	MIR2116	NO	0
mirna_MIR212	miRNA	MIR212	YES	4
mirna_MIR3609	miRNA	MIR3609	NO	0
mirna_MIR374B	miRNA	MIR374B	YES	1
mirna_MIR378A	miRNA	MIR378A	YES	2
mirna_MIR3919	miRNA	MIR3919	NO	0
mirna_MIR4529	miRNA	MIR4529	NO	0
mirna_MIR483	miRNA	MIR483	YES	3
mirna_MIR487B	miRNA	MIR487B	YES	1
mirna_MIR500B	miRNA	MIR500B	NO	0
mirna_MIR539	miRNA	MIR539	NO	0

mirna_MIR5683	miRNA	MIR5683	NO	0
mirna_MIR625	miRNA	MIR625	YES	1
mirna_MIR708	miRNA	MIR708	NO	0
mirna_MIR892B	miRNA	MIR892B	NO	0
mRNA_CYB561	mRNA	CYB561	YES	11
mRNA_SPAG9	mRNA	SPAG9	YES	26
mRNA_NFIX	mRNA	NFIX	YES	15
mRNA_FYN	mRNA	FYN	YES	109
mRNA_WIZ	mRNA	WIZ	YES	11
mRNA_ISL1	mRNA	ISL1	YES	80
mRNA_PHLDB1	mRNA	PHLDB1	YES	5
mRNA_INSRR	mRNA	INSRR	YES	21
mRNA_ARHGAP31	mRNA	ARHGAP31	YES	11
mRNA_MRI1	mRNA	MRI1	YES	14
mRNA_HOXC8	mRNA	HOXC8	YES	13
mRNA_ADAM28	mRNA	ADAM28	YES	12
mRNA_HDAC9	mRNA	HDAC9	YES	37
mRNA_KIF1B	mRNA	KIF1B	YES	35
mRNA_CBLN4	mRNA	CBLN4	YES	5
mRNA_KCNH2	mRNA	KCNH2	YES	52
mRNA_POLR3E	mRNA	POLR3E	YES	12
mRNA_RIMBP2	mRNA	RIMBP2	YES	5
mRNA_ARSF	mRNA	ARSF	YES	12
mRNA_ZNF275	mRNA	ZNF275	YES	7
mRNA_MEF2BNB-MEF2B	mRNA	MEF2BNB-MEF2B	YES	10
mRNA_KIF26A	mRNA	KIF26A	YES	16
mRNA_GAL	mRNA	GAL	YES	33
mRNA_CFAP20	mRNA	CFAP20	YES	17
mRNA_MAP4K4	mRNA	MAP4K4	YES	22
mRNA_VASH1	mRNA	VASH1	YES	19
mRNA_RPS6KA6	mRNA	RPS6KA6	YES	24
mRNA_CLASP1	mRNA	CLASP1	YES	62
mRNA_PAG1	mRNA	PAG1	YES	20
mRNA_GPR137B	mRNA	GPR137B	YES	5
mRNA_NAALAD2	mRNA	NAALAD2	YES	17
mRNA_EPB41L2	mRNA	EPB41L2	YES	31
mRNA_DCT	mRNA	DCT	YES	21
mRNA_CHRNA3	mRNA	CHRNA3	YES	37
mRNA_COL19A1	mRNA	COL19A1	YES	15
mRNA_NOA1	mRNA	NOA1	YES	14
mRNA_WNT11	mRNA	WNT11	YES	65
mRNA_AQP6	mRNA	AQP6	YES	18
mRNA_ACHE	mRNA	ACHE	YES	58
mRNA_GNAS	mRNA	GNAS	YES	76
mRNA_CFAP61	mRNA	CFAP61	YES	10
mRNA_CHGB	mRNA	CHGB	YES	7
mRNA_PPP2R3C	mRNA	PPP2R3C	YES	18

mRNA_DPYSL2	mRNA	DPYSL2	YES	42
mRNA_DFNB31	mRNA	DFNB31	YES	12
mRNA_HNRNPH3	mRNA	HNRNPH3	YES	13
mRNA_TPTEP1	mRNA	TPTEP1	NO	0
mRNA_RASD2	mRNA	RASD2	YES	21
mRNA_CERK	mRNA	CERK	YES	19
mRNA_ABHD4	mRNA	ABHD4	YES	5
mRNA_DDHD1	mRNA	DDHD1	YES	9
mRNA_CHGA	mRNA	CHGA	YES	33
mRNA_BRMS1L	mRNA	BRMS1L	YES	10
mRNA_PCSK1N	mRNA	PCSK1N	YES	14
mRNA_HTATSF1	mRNA	HTATSF1	YES	12
mRNA_KLHL4	mRNA	KLHL4	YES	10
mRNA_METRN	mRNA	METRN	YES	7
mRNA_MAZ	mRNA	MAZ	YES	15
mRNA_SLC6A2	mRNA	SLC6A2	YES	24
mRNA_TUSC3	mRNA	TUSC3	YES	18
mRNA_URI1	mRNA	URI1	YES	24
mRNA_ERF	mRNA	ERF	YES	14
mRNA_HOXA5	mRNA	HOXA5	YES	44
mRNA_CLIP2	mRNA	CLIP2	YES	8
mRNA_PTGDS	mRNA	PTGDS	YES	27
mRNA_PALD1	mRNA	PALD1	YES	9
mRNA_UNC5B	mRNA	UNC5B	YES	13
mRNA_ARHGAP21	mRNA	ARHGAP21	YES	20
mRNA_SORCS1	mRNA	SORCS1	YES	5
mRNA_ODAM	mRNA	ODAM	YES	17
mRNA_KIAA1211	mRNA	KIAA1211	NO	0
mRNA_LAMTOR3	mRNA	LAMTOR3	YES	26
mRNA_GAB1	mRNA	GAB1	YES	24
mRNA_KLHL5	mRNA	KLHL5	YES	10
mRNA_RNF141	mRNA	RNF141	YES	6
mRNA_ST8SIA1	mRNA	ST8SIA1	YES	16
mRNA_ASF1A	mRNA	ASF1A	YES	18
mRNA_MDGA1	mRNA	MDGA1	YES	14
mRNA_GPR63	mRNA	GPR63	YES	12
mRNA_SMAP1	mRNA	SMAP1	YES	9
mRNA_PACRG	mRNA	PACRG	YES	22
mRNA_QKI	mRNA	QKI	YES	22
mRNA_BTN2A1	mRNA	BTN2A1	YES	7
mRNA_C7	mRNA	C7	YES	12
mRNA_BCL6	mRNA	BCL6	YES	61
mRNA_ARL6	mRNA	ARL6	YES	37
mRNA_POMC	mRNA	POMC	YES	25
mRNA_TLX2	mRNA	TLX2	YES	16
mRNA_TACR1	mRNA	TACR1	YES	67
mRNA_CCDC88A	mRNA	CCDC88A	YES	37

mRNA_PLCD4	mRNA	PLCD4	YES	23
mRNA_DLX2	mRNA	DLX2	YES	36
mRNA_AMPD2	mRNA	AMPD2	YES	14
mRNA_KCNC4	mRNA	KCNC4	YES	19
mRNA_WARS2	mRNA	WARS2	YES	13
mRNA_CNN3	mRNA	CNN3	YES	16
mRNA_CHRNB4	mRNA	CHRNB4	YES	39
mRNA_CAMSAP2	mRNA	CAMSAP2	YES	14
mRNA_YPEL5	mRNA	YPEL5	YES	5
mRNA_CRHR1	mRNA	CRHR1	YES	60
mRNA_KCNJ5	mRNA	KCNJ5	YES	22
mRNA_SV2C	mRNA	SV2C	YES	13
mRNA_SEPT7	mRNA	SEPT7	YES	37
mRNA_KLHL7	mRNA	KLHL7	YES	13
mRNA_DBH	mRNA	DBH	YES	44
mRNA_IL13RA2	mRNA	IL13RA2	YES	11
mRNA_GPR83	mRNA	GPR83	YES	11
mRNA_PMS2P5	mRNA	PMS2P5	NO	0
mRNA_CHST8	mRNA	CHST8	YES	13
mRNA_SNRNP27	mRNA	SNRNP27	YES	9
mRNA_SOX21	mRNA	SOX21	YES	16
mRNA_TMX4	mRNA	TMX4	YES	9
mRNA_ZNF384	mRNA	ZNF384	YES	10
mRNA_ELK1	mRNA	ELK1	YES	29
mRNA_DOCK4	mRNA	DOCK4	YES	22
mRNA_VGF	mRNA	VGF	YES	24
mRNA_LRRC4	mRNA	LRRC4	YES	18
mRNA_HOXD3	mRNA	HOXD3	YES	24
mRNA_ALDH1A2	mRNA	ALDH1A2	YES	52
mRNA_TPH1	mRNA	TPH1	YES	19
mRNA_ARHGEF6	mRNA	ARHGEF6	YES	18
mRNA_ZSWIM6	mRNA	ZSWIM6	YES	3
mRNA_PYY	mRNA	PYY	YES	15
mRNA_LLGL1	mRNA	LLGL1	YES	26
mRNA_GCH1	mRNA	GCH1	YES	47
mRNA_RAP1GAP2	mRNA	RAP1GAP2	YES	13
mRNA_TBC1D14	mRNA	TBC1D14	YES	17
mRNA_LANCL2	mRNA	LANCL2	YES	14
mRNA_DDC	mRNA	DDC	YES	32
mRNA_BTBD3	mRNA	BTBD3	YES	11
mRNA_SYT4	mRNA	SYT4	YES	58
mRNA_CASP9	mRNA	CASP9	YES	43
mRNA_RFXAP	mRNA	RFXAP	YES	6
mRNA_SPIRE1	mRNA	SPIRE1	YES	22
mRNA_NAV1	mRNA	NAV1	YES	10
mRNA_CRB1	mRNA	CRB1	YES	15
mRNA_FHOD3	mRNA	FHOD3	YES	14

mRNA_PNPLA8	mRNA	PNPLA8	YES	29
mRNA_SRPK2	mRNA	SRPK2	YES	32
mRNA_MRAP2	mRNA	MRAP2	YES	17
mRNA_PRPH	mRNA	PRPH	YES	9
mRNA_DOCK10	mRNA	DOCK10	YES	15
mRNA_C2orf49	mRNA	C2orf49	YES	6
mRNA_GATA4	mRNA	GATA4	YES	76
mRNA_TMOD1	mRNA	TMOD1	YES	20
mRNA_SLC31A1	mRNA	SLC31A1	YES	19
mRNA_IGFBPL1	mRNA	IGFBPL1	YES	4
mRNA_MGARP	mRNA	MGARP	YES	16
mRNA_FCHSD2	mRNA	FCHSD2	YES	5
mRNA_RDX	mRNA	RDX	YES	58
mRNA_SMAD6	mRNA	SMAD6	YES	49
mRNA_STRA6	mRNA	STRA6	YES	43
mRNA_ASCC1	mRNA	ASCC1	YES	10
mRNA_SHF	mRNA	SHF	YES	4
mRNA_FGF2	mRNA	FGF2	YES	83
mRNA_CLSTN3	mRNA	CLSTN3	YES	22
mRNA_PHLDA1	mRNA	PHLDA1	YES	9
mRNA_VPS33A	mRNA	VPS33A	YES	27
mRNA_RHOF	mRNA	RHOF	YES	15
mRNA_CYP11A1	mRNA	CYP11A1	YES	71
mRNA_ST8SIA2	mRNA	ST8SIA2	YES	19
mRNA_ADCYAP1	mRNA	ADCYAP1	YES	58
mRNA_C18orf8	mRNA	C18orf8	YES	2
mRNA_PNMT	mRNA	PNMT	YES	7
mRNA_STRIP1	mRNA	STRIP1	YES	8
mRNA_RGS5	mRNA	RGS5	YES	8
mRNA_XPR1	mRNA	XPR1	YES	17
mRNA_RGS16	mRNA	RGS16	YES	12
mRNA_FAM163A	mRNA	FAM163A	YES	2
mRNA_LHX9	mRNA	LHX9	YES	14
mRNA_CEP170	mRNA	CEP170	YES	11
mRNA_SYT2	mRNA	SYT2	YES	25
mRNA_CALM2	mRNA	CALM2	YES	61
mRNA_THSD7B	mRNA	THSD7B	YES	2
mRNA_STAC	mRNA	STAC	YES	10
mRNA_KIAA0226	mRNA	KIAA0226	YES	9
mRNA_ECE2	mRNA	ECE2	YES	23
mRNA_VWA5B2	mRNA	VWA5B2	NO	0
mRNA_SLC10A4	mRNA	SLC10A4	YES	10
mRNA_MARCH1	mRNA	MARCH1	YES	24
mRNA_MYO10	mRNA	MYO10	YES	34
mRNA_PAM	mRNA	PAM	YES	53
mRNA_GFRA3	mRNA	GFRA3	YES	19
mRNA_PRSS35	mRNA	PRSS35	YES	5

mRNA_VIP	mRNA	VIP	YES	21
mRNA_GNA12	mRNA	GNA12	YES	33
mRNA_CHST7	mRNA	CHST7	YES	13
mRNA_LPAR4	mRNA	LPAR4	YES	13
mRNA_ZNF711	mRNA	ZNF711	YES	10
mRNA_ARHGAP36	mRNA	ARHGAP36	YES	6
mRNA_STAR	mRNA	STAR	YES	80
mRNA_RSPO2	mRNA	RSPO2	YES	18
mRNA_VLDLR	mRNA	VLDLR	YES	37
mRNA_NOTCH1	mRNA	NOTCH1	YES	191
mRNA_CYP17A1	mRNA	CYP17A1	YES	54
mRNA_TENM4	mRNA	TENM4	YES	26
mRNA_ZC3H12C	mRNA	ZC3H12C	YES	8
mRNA_DRD2	mRNA	DRD2	YES	128
mRNA_ROM1	mRNA	ROM1	YES	12
mRNA_PLCH2	mRNA	PLCH2	YES	20
mRNA_FEZ1	mRNA	FEZ1	YES	25
mRNA_DCP1B	mRNA	DCP1B	YES	16
mRNA_FRMD4A	mRNA	FRMD4A	YES	5
mRNA_SACS	mRNA	SACS	YES	14
mRNA_FAM168B	mRNA	FAM168B	YES	8
mRNA_GPATCH11	mRNA	GPATCH11	YES	6
mRNA_GUCY1A2	mRNA	GUCY1A2	YES	15
mRNA_SCOC	mRNA	SCOC	YES	11
mRNA_CHST9	mRNA	CHST9	YES	16
mRNA_FAM69A	mRNA	FAM69A	YES	4
mRNA_SRSF12	mRNA	SRSF12	YES	12
mRNA_JAM2	mRNA	JAM2	YES	12
mRNA_ANKRD40	mRNA	ANKRD40	YES	4
mRNA_ZFYVE27	mRNA	ZFYVE27	YES	23
mRNA_SAMD8	mRNA	SAMD8	YES	20
mRNA_GHRL	mRNA	GHRL	YES	73
mRNA_CACNA2D3	mRNA	CACNA2D3	YES	12
mRNA_GDPD5	mRNA	GDPD5	YES	24
mRNA_CACHD1	mRNA	CACHD1	YES	2
mRNA_SCUBE1	mRNA	SCUBE1	YES	20
mRNA_ACE	mRNA	ACE	YES	61
mRNA_S100B	mRNA	S100B	YES	37
mRNA_SIK3	mRNA	SIK3	YES	15
mRNA_SHC1	mRNA	SHC1	YES	49
mRNA_COX7A1	mRNA	COX7A1	YES	9
mRNA_CYGB	mRNA	CYGB	YES	25
mRNA_RAVER1	mRNA	RAVER1	YES	5
mRNA_TAL1	mRNA	TAL1	YES	60
mRNA_VANGL2	mRNA	VANGL2	YES	57
mRNA_RFTN2	mRNA	RFTN2	YES	8
mRNA_H3F3A	mRNA	H3F3A	YES	47

mRNA_FEV	mRNA	FEV	YES	18
mRNA_DCLK3	mRNA	DCLK3	YES	15
mRNA_RCHY1	mRNA	RCHY1	YES	19
mRNA_ARHGEF3	mRNA	ARHGEF3	YES	12
mRNA_HAND2	mRNA	HAND2	YES	67
mRNA_STARD4	mRNA	STARD4	YES	12
mRNA_RHOBTB3	mRNA	RHOBTB3	YES	17
mRNA_CARTPT	mRNA	CARTPT	YES	26
mRNA_SLC29A4	mRNA	SLC29A4	YES	10
mRNA_KIAA1324L	mRNA	KIAA1324L	YES	2
mRNA_USP49	mRNA	USP49	YES	20
mRNA_PHKG1	mRNA	PHKG1	YES	21
mRNA_EML5	mRNA	EML5	YES	9
mRNA_TTC8	mRNA	TTC8	YES	36
mRNA_NGB	mRNA	NGB	YES	11
mRNA_OXGR1	mRNA	OXGR1	YES	7
mRNA_VDAC2	mRNA	VDAC2	YES	23
mRNA_SLC18A2	mRNA	SLC18A2	YES	48
mRNA_RET	mRNA	RET	YES	66
mRNA_ZNF219	mRNA	ZNF219	YES	18
mRNA_GPR176	mRNA	GPR176	YES	12
mRNA_GALR1	mRNA	GALR1	YES	19
mRNA_SCG5	mRNA	SCG5	YES	12
mRNA_ISLR2	mRNA	ISLR2	YES	7
mRNA_IGF2	mRNA	IGF2	YES	54
mRNA_TUBA1A	mRNA	TUBA1A	YES	26
mRNA_BSCL2	mRNA	BSCL2	YES	13
mRNA_NT5DC2	mRNA	NT5DC2	YES	4
mRNA_SEPT2	mRNA	SEPT2	YES	37
mRNA_GFRA2	mRNA	GFRA2	YES	16
mRNA_GDNF	mRNA	GDNF	YES	43
mRNA_PPIP5K1	mRNA	PPIP5K1	YES	22
mRNA_TSPAN5	mRNA	TSPAN5	YES	8
mRNA_SLC35G2	mRNA	SLC35G2	YES	5
mRNA_PARM1	mRNA	PARM1	YES	13
mRNA_SCN9A	mRNA	SCN9A	YES	26
mRNA_COL22A1	mRNA	COL22A1	YES	5
mRNA_ZEB2	mRNA	ZEB2	YES	37
mRNA_CHRNA5	mRNA	CHRNA5	YES	25
mRNA_ROBO1	mRNA	ROBO1	YES	31
mRNA_TPST1	mRNA	TPST1	YES	9
mRNA_CHD3	mRNA	CHD3	YES	30
mRNA_UBE2E3	mRNA	UBE2E3	YES	15
mRNA_SIMC1	mRNA	SIMC1	YES	1
mRNA_PFKFB3	mRNA	PFKFB3	YES	18
mRNA_KCNS3	mRNA	KCNS3	YES	21
mRNA_GSTA4	mRNA	GSTA4	YES	11

mRNA_TANC2	mRNA	TANC2	YES	2
mRNA_FEZ2	mRNA	FEZ2	YES	7
mRNA_KCNK3	mRNA	KCNK3	YES	28
mRNA_KRT9	mRNA	KRT9	YES	14
mRNA_SRGAP2C	mRNA	SRGAP2C	YES	12
mRNA_SCG2	mRNA	SCG2	YES	24
mRNA_ADAMTS20	mRNA	ADAMTS20	YES	17
mRNA_INSM1	mRNA	INSM1	YES	39
mRNA_PEAK1	mRNA	PEAK1	YES	19
mRNA_ZHX3	mRNA	ZHX3	YES	17
mRNA_CHST1	mRNA	CHST1	YES	15
mRNA_GRAMD2	mRNA	GRAMD2	YES	1
mRNA_CHRNA7	mRNA	CHRNA7	YES	86
mRNA_CLCF1	mRNA	CLCF1	YES	23
mRNA_LIPT2	mRNA	LIPT2	YES	11
mRNA_PRIMA1	mRNA	PRIMA1	YES	8
mRNA_BDNF	mRNA	BDNF	YES	48
mRNA_FIBIN	mRNA	FIBIN	YES	3
mRNA_RAB39A	mRNA	RAB39A	YES	19
mRNA_FJX1	mRNA	FJX1	YES	4
mRNA_MKRN3	mRNA	MKRN3	YES	6
mRNA_ZFPM1	mRNA	ZFPM1	YES	46
mRNA_TH	mRNA	TH	YES	100
mRNA_MAB21L1	mRNA	MAB21L1	YES	12
mRNA_HOXC9	mRNA	HOXC9	YES	12
mRNA_PENK	mRNA	PENK	YES	45
mRNA_SOX2	mRNA	SOX2	YES	70
mRNA_MAB21L2	mRNA	MAB21L2	YES	8
mRNA_TMIE	mRNA	TMIE	YES	4
mRNA_ADO	mRNA	ADO	YES	9
mRNA_KCNB2	mRNA	KCNB2	YES	24
mRNA_SLC35D3	mRNA	SLC35D3	YES	11
mRNA_PLCXD3	mRNA	PLCXD3	YES	7
mRNA_BEGAIN	mRNA	BEGAIN	YES	6
mRNA_PCBP3	mRNA	PCBP3	YES	13
mRNA_RP1L1	mRNA	RP1L1	YES	6
mRNA_SLC35F3	mRNA	SLC35F3	YES	4
mRNA_FAM162B	mRNA	FAM162B	YES	2
mRNA_DENND5A	mRNA	DENND5A	YES	16
mRNA_DIABLO	mRNA	DIABLO	YES	17
mRNA_CLDN5	mRNA	CLDN5	YES	24
mRNA_CCSER1	mRNA	CCSER1	NO	0
mRNA_SRPK3	mRNA	SRPK3	YES	20
mRNA_SLIT3	mRNA	SLIT3	YES	20
mRNA_CCR10	mRNA	CCR10	YES	16
mRNA_POU3F2	mRNA	POU3F2	YES	36
mRNA_MUC6	mRNA	MUC6	YES	7

mRNA_TMEM121	mRNA	TMEM121	YES	5
mRNA_LRRC37B	mRNA	LRRC37B	YES	3
mRNA_DLK1	mRNA	DLK1	YES	13
mRNA_RPL12P4	mRNA	RPL12P4	NO	0
mRNA_PTCH1	mRNA	PTCH1	YES	85
mRNA_PCLO	mRNA	PCLO	YES	22
mRNA_SAMD11	mRNA	SAMD11	YES	6
mRNA_SPRY4	mRNA	SPRY4	YES	12
mRNA_HBA2	mRNA	HBA2	YES	27
mRNA_LITAF	mRNA	LITAF	YES	40
mRNA_NKAPL	mRNA	NKAPL	YES	8
mRNA_SPOCK3	mRNA	SPOCK3	YES	12
mRNA_SRGAP2B	mRNA	SRGAP2B	YES	6
mRNA_ZKSCAN5	mRNA	ZKSCAN5	YES	10
mRNA_RP11-452G18.2	mRNA	RP11-452G18.2	NO	0
mRNA_GPX1P1	mRNA	GPX1P1	NO	0
mRNA_HOXC6	mRNA	HOXC6	YES	14
mRNA_NTRK1	mRNA	NTRK1	YES	89
mRNA_COPS8	mRNA	COPS8	YES	15
mRNA_APCDD1L	mRNA	APCDD1L	YES	2
mRNA_SHISA4	mRNA	SHISA4	YES	2
mRNA_L1CAM	mRNA	L1CAM	YES	28
mRNA_PHACTR4	mRNA	PHACTR4	YES	22
mRNA_PTPN20A	mRNA	PTPN20A	YES	8
mRNA_C6orf25	mRNA	C6orf25	YES	5
mRNA_C2CD4B	mRNA	C2CD4B	YES	4
mRNA_RP11-706O15.5	mRNA	RP11-706O15.5	NO	0
mRNA_DPF3	mRNA	DPF3	YES	11
mRNA_ITSN1	mRNA	ITSN1	YES	37
mRNA_DUXAP8	mRNA	DUXAP8	NO	0
mRNA_LINGO4	mRNA	LINGO4	YES	3
mRNA_PRCD	mRNA	PRCD	YES	7
mRNA_EML6	mRNA	EML6	YES	5
mRNA_HMX1	mRNA	HMX1	YES	10
mRNA_RP11-54O7.3	mRNA	RP11-54O7.3	NO	0
mRNA_CERS1	mRNA	CERS1	YES	19
mRNA_EIF4BP3	mRNA	EIF4BP3	NO	0
mRNA_LINC01117	mRNA	LINC01117	NO	0
mRNA_POT1-AS1	mRNA	POT1-AS1	NO	0
mRNA_PRRT4	mRNA	PRRT4	YES	2
mRNA_DUXAP10	mRNA	DUXAP10	NO	0
mRNA_RP11-120J1.1	mRNA	RP11-120J1.1	NO	0
mRNA_AC004540.4	mRNA	AC004540.4	NO	0
mRNA_AC010970.2	mRNA	AC010970.2	NO	0
mRNA_AC074289.1	mRNA	AC074289.1	NO	0
mRNA_UQCRFS1P1	mRNA	UQCRFS1P1	NO	0
mRNA_RP4-813D12.3	mRNA	RP4-813D12.3	NO	0

mRNA_KIAA0125	mRNA	KIAA0125	NO	0
mRNA_DANCR	mRNA	DANCR	NO	0
mRNA_CTD-2328D6.1	mRNA	CTD-2328D6.1	NO	0
mRNA_CH17-437K3.1	mRNA	CH17-437K3.1	NO	0
mRNA_SOX21-AS1	mRNA	SOX21-AS1	NO	0
mRNA_RP11-398K22.12	mRNA	RP11-398K22.12	NO	0
mRNA_RPL5P4	mRNA	RPL5P4	NO	0
mRNA_KLHL7-AS1	mRNA	KLHL7-AS1	NO	0
mRNA_APCDD1L-AS1	mRNA	APCDD1L-AS1	NO	0
mRNA_CYP21A2	mRNA	CYP21A2	YES	21
mRNA_TRAF3IP2-AS1	mRNA	TRAF3IP2-AS1	NO	0
mRNA_AC004987.9	mRNA	AC004987.9	NO	0
mRNA_RPL5P34	mRNA	RPL5P34	NO	0
mRNA_RP11-706O15.3	mRNA	RP11-706O15.3	NO	0
mRNA_RPSAP9	mRNA	RPSAP9	NO	0
mRNA_HMGN2P5	mRNA	HMGN2P5	NO	0
mRNA_HNRNPUL2-BSCL2	mRNA	HNRNPUL2-BSCL2	YES	5
mRNA_EIF3EP1	mRNA	EIF3EP1	NO	0
mRNA_SNRPGP10	mRNA	SNRPGP10	NO	0
mRNA_RPS2P7	mRNA	RPS2P7	NO	0
mRNA_H3F3AP4	mRNA	H3F3AP4	NO	0
mRNA_VLDLR-AS1	mRNA	VLDLR-AS1	NO	0
mRNA_MKLN1-AS	mRNA	MKLN1-AS	NO	0
mRNA_HAND2-AS1	mRNA	HAND2-AS1	NO	0
mRNA_HOXD-AS2	mRNA	HOXD-AS2	NO	0
mRNA_AC010980.2	mRNA	AC010980.2	NO	0
mRNA_ST3GAL6-AS1	mRNA	ST3GAL6-AS1	NO	0
mRNA_RP11-254B13.1	mRNA	RP11-254B13.1	NO	0
mRNA_RPS2P5	mRNA	RPS2P5	NO	0
mRNA_LINC01296	mRNA	LINC01296	NO	0
mRNA_OXCT1-AS1	mRNA	OXCT1-AS1	NO	0
mRNA_HAS2-AS1	mRNA	HAS2-AS1	NO	0
mRNA_ZNF286B	mRNA	ZNF286B	YES	7
mRNA_RP11-8L2.1	mRNA	RP11-8L2.1	NO	0
mRNA_CTD-2516F10.2	mRNA	CTD-2516F10.2	NO	0
mRNA_TRNP1	mRNA	TRNP1	YES	12
mRNA_C6orf3	mRNA	C6orf3	NO	0
mRNA_FAM222A-AS1	mRNA	FAM222A-AS1	NO	0
mRNA_TRIL	mRNA	TRIL	YES	9
mRNA_RP11-283G6.3	mRNA	RP11-283G6.3	NO	0
mRNA_RP11-192H23.4	mRNA	RP11-192H23.4	NO	0
mRNA_CTD-2314G24.2	mRNA	CTD-2314G24.2	NO	0
mRNA_SH3RF3-AS1	mRNA	SH3RF3-AS1	NO	0
mRNA_TGFBR3L	mRNA	TGFBR3L	YES	2
mRNA_RP11-16P6.1	mRNA	RP11-16P6.1	NO	0
mRNA_RP11-244O19.1	mRNA	RP11-244O19.1	NO	0
mRNA_TPBGL	mRNA	TPBGL	YES	2

mRNA_RP11-650L12.2	mRNA	RP11-650L12.2	NO	0
mRNA_MIA	mRNA	MIA	YES	4
mRNA_RP11-192H23.8	mRNA	RP11-192H23.8	NO	0
mRNA_RP11-815I9.4	mRNA	RP11-815I9.4	NO	0
mRNA_RPL17	mRNA	RPL17	YES	18
mRNA_SRGAP2	mRNA	SRGAP2	YES	18
mRNA_STRADA	mRNA	STRADA	YES	20
mRNA_CBX3P2	mRNA	CBX3P2	NO	0
mRNA_GDF10	mRNA	GDF10	YES	17
mRNA_RP11-384O8.1	mRNA	RP11-384O8.1	NO	0
mRNA_CTB-55O6.12	mRNA	CTB-55O6.12	NO	0
mRNA_GABRQ	mRNA	GABRQ	YES	23
mRNA_RAET1E-AS1	mRNA	RAET1E-AS1	NO	0
mRNA_ZIM2-AS1	mRNA	ZIM2-AS1	NO	0
mRNA_RP1-153G14.4	mRNA	RP1-153G14.4	NO	0
mRNA_RP11-393I2.4	mRNA	RP11-393I2.4	NO	0
mRNA_CASC15	mRNA	CASC15	NO	0
mRNA_DOC2B	mRNA	DOC2B	YES	16
mRNA_RP11-47A8.5	mRNA	RP11-47A8.5	NO	0
mRNA_RP1-101A2.1	mRNA	RP1-101A2.1	NO	0
mRNA_DGKK	mRNA	DGKK	YES	17
mRNA_FUT8-AS1	mRNA	FUT8-AS1	NO	0
mRNA_MARCKS	mRNA	MARCKS	YES	20
mRNA_CH507-513H4.1	mRNA	CH507-513H4.1	NO	0
mRNA_AC234582.1	mRNA	AC234582.1	NO	0
mRNA_AL589743.1	mRNA	AL589743.1	NO	0
STV_AC003005.4	STV	AC003005.4	NO	0
STV_AKR1C6P	STV	AKR1C6P	NO	0
STV_ARHGEF34P	STV	ARHGEF34P	NO	0
STV_CCDC144CP	STV	CCDC144CP	NO	0
STV_FAM90A27P	STV	FAM90A27P	NO	0
STV_FDPSP5	STV	FDPSP5	NO	0
STV_HMMR.AS1	STV	HMMR.AS1	NO	0
STV_HOXB.AS1	STV	HOXB.AS1	NO	0
STV_IGKV2D.14	STV	IGKV2D.14	NO	0
STV_KCNK12	STV	KCNK12	YES	12
STV_KCTD9P2	STV	KCTD9P2	NO	0
STV_L34079.2	STV	L34079.2	NO	0
STV_MT1F	STV	MT1F	YES	10
STV_RP11.155D18.12	STV	RP11.155D18.12	NO	0
STV_RP11.1E11.2	STV	RP11.1E11.2	NO	0
STV_RP11.575L7.8	STV	RP11.575L7.8	NO	0
STV_RP11.7M8.2	STV	RP11.7M8.2	NO	0
STV_SLC25A5	STV	SLC25A5	YES	29
STV_SS18L2	STV	SS18L2	YES	2
STV_TRIM53CP	STV	TRIM53CP	NO	0
STV_USP17L8	STV	USP17L8	YES	5

STV_ZNF969P	STV	ZNF969P	NO	0

APPENDIX L

Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations	Cancers_In_Rank
meth_KCNQ1	meth	KCNQ1	YES	69	BRCA,CRAD,ESCA,KIRC,KIRP,OV,PRAD,TGCT,UCEC
meth_PIK3CA	meth	PIK3CA	YES	67	BRCA,HNSC,LGG,LUSC,OV,PCPG,SARC,THCA,THYM
meth_IL20	meth	IL20	YES	11	BLCA,BRCA,CESC,CRAD,HNSC,KIRC,OV,STAD,UCEC
meth_STON2	meth	STON2	YES	17	BLCA,BRCA,CRAD,HNSC,LUAD,LUSC,PRAD,STAD
meth_RP11.540D14.8	meth	RP11.540D14.8	NO	0	BLCA,BRCA,CESC,CRAD,KIRC,KIRP,LGG,UCEC
meth_AGT	meth	AGT	YES	111	KIRP,LIHC,LUSC,PAAD,SARC,STAD,TGCT,THCA
mRNA_HAS2-AS1	mRNA	HAS2-AS1	NO	0	BLCA,CRAD,KIRC,LGG,OV,SARC,TGCT,UCEC
mRNA_XPR1	mRNA	XPR1	YES	17	CESC,ESCA,LIHC,LUAD,PRAD,THCA,UCEC
mRNA_NFIX	mRNA	NFIX	YES	15	BLCA,BRCA,KIRP,LUSC,PCPG,PRAD,SARC
meth_MGMT	meth	MGMT	YES	31	BRCA,CESC,LIHC,PCPG,PRAD,THCA,UCEC
meth_C16orf87	meth	C16orf87	YES	1	CRAD,ESCA,LIHC,PAAD,SARC,STAD,UCEC
meth_NPL	meth	NPL	YES	10	BLCA,BRCA,CRAD,KIRP,LGG,PAAD,PRAD
meth_CRAT	meth	CRAT	YES	15	CRAD,HNSC,LUAD,LUSC,OV,PAAD,THYM
mRNA_HOXD-AS2	mRNA	HOXD-AS2	NO	0	CESC,CRAD,HNSC,KIRP,LGG,LIHC,LUAD
meth_TLK1	meth	TLK1	YES	16	BLCA,KIRC,LUAD,PCPG,PRAD,THCA,THYM
meth_ALDH18A1	meth	ALDH18A1	YES	26	KIRC,LUAD,LUSC,PAAD,THCA,THYM,UCEC
mRNA_CACHD1	mRNA	CACHD1	YES	2	CRAD,KIRP,LUSC,OV,PAAD,PCPG,THCA
mRNA_PHACTR4	mRNA	PHACTR4	YES	22	CESC,CRAD,LIHC,OV,STAD,THYM,UCEC
meth_FLRT1	meth	FLRT1	YES	32	BRCA,KIRP,LUSC,PAAD,PCPG,UCEC
mRNA_HNRNPUL2-BSCL2	mRNA	HNRNPUL2-BSCL2	YES	5	ESCA,HNSC,LGG,OV,STAD,THCA
meth_ACSF2	meth	ACSF2	YES	12	BRCA,CRAD,HNSC,LGG,LIHC,SARC
meth_ARG1	meth	ARG1	YES	53	BLCA,CRAD,KIRP,LIHC,PRAD,THCA
meth_SYCP2	meth	SYCP2	YES	16	BRCA,CESC,CRAD,KIRP,LUAD,PCPG
meth_LIPC	meth	LIPC	YES	28	BLCA,BRCA,KIRC,KIRP,LGG,PRAD
mRNA_RAET1E-AS1	mRNA	RAET1E-AS1	NO	0	BLCA,CESC,CRAD,ESCA,SARC,STAD
mRNA_MKLN1-AS	mRNA	MKLN1-AS	NO	0	BLCA,KIRC,KIRP,LUSC,PAAD,PCPG
meth_SLC35F6	meth	SLC35F6	YES	17	BLCA,BRCA,TGCT,THCA,THYM,UCEC
meth_ALDH1B1	meth	ALDH1B1	YES	12	BLCA,LUAD,LUSC,OV,PAAD,STAD
mRNA_PAG1	mRNA	PAG1	YES	20	BLCA,CRAD,HNSC,KIRP,PRAD,THYM
mRNA_EPB41L2	mRNA	EPB41L2	YES	31	CRAD,HNSC,LUSC,PCPG,SARC,TGCT
mRNA_EIF4BP3	mRNA	EIF4BP3	NO	0	CESC,ESCA,HNSC,OV,STAD,THCA
mRNA_ZFYVE27	mRNA	ZFYVE27	YES	23	BRCA,KIRC,KIRP,LGG,PAAD,PCPG
meth_FAM131A	meth	FAM131A	YES	1	BRCA,HNSC,KIRC,LUAD,LUSC,STAD
mRNA_RP11-398K22.12	mRNA	RP11-398K22.12	NO	0	ESCA,HNSC,LGG,LUSC,THCA,THYM
meth_CIB3	meth	CIB3	YES	4	BRCA,CRAD,ESCA,PAAD,STAD,THYM
meth_C2CD2	meth	C2CD2	YES	4	BLCA,BRCA,CESC,LGG,LUSC,PRAD
mRNA_MKRN3	mRNA	MKRN3	YES	6	CRAD,HNSC,KIRP,LGG,STAD,THCA
meth_RIOK3	meth	RIOK3	YES	28	ESCA,PCPG,SARC,STAD,TGCT,UCEC
mRNA_AC004987.9	mRNA	AC004987.9	NO	0	BLCA,CESC,OV,PAAD,STAD,UCEC
meth_RABL6	meth	RABL6	YES	8	CESC,CRAD,HNSC,KIRP,LIHC,OV
mRNA_KCNS3	mRNA	KCNS3	YES	21	BLCA,HNSC,LUAD,LUSC,PRAD,UCEC
mRNA_MARCKS	mRNA	MARCKS	YES	20	BRCA,LIHC,PAAD,SARC,THCA,UCEC
meth_FABP7	meth	FABP7	YES	20	CRAD,HNSC,KIRC,LGG,LIHC,OV
meth_LDHD	meth	LDHD	YES	10	KIRC,KIRP,LGG,LIHC,LUAD,UCEC
meth_SIDT1	meth	SIDT1	YES	4	BLCA,BRCA,HNSC,LIHC,PRAD,THYM
meth_SCGB3A2	meth	SCGB3A2	YES	3	ESCA,HNSC,KIRC,LGG,PRAD,THCA
mRNA_RPS6KA6	mRNA	RPS6KA6	YES	24	CESC,CRAD,LUAD,PRAD,TGCT,THYM
mRNA_POT1-AS1	mRNA	POT1-AS1	NO	0	CESC,CRAD,LUSC,PRAD,SARC,THYM
meth_NDUFAF4	meth	NDUFAF4	YES	8	CESC,CRAD,LUAD,LUSC,THCA,UCEC
meth_ABHD14A.ACY1	meth	ABHD14A.ACY1	NO	0	CRAD,KIRC,KIRP,LIHC,PAAD,UCEC
meth_THRSP	meth	THRSP	YES	12	ESCA,KIRC,LUAD,PAAD,PRAD,THCA
meth_PI4KA	meth	PI4KA	YES	25	BLCA,CESC,KIRC,LIHC,OV
mRNA_VDAC2	mRNA	VDAC2	YES	23	BRCA,ESCA,HNSC,STAD,UCEC
meth_PSPN	meth	PSPN	YES	10	BLCA,BRCA,KIRC,PRAD,UCEC
mRNA_RP11-8L2.1	mRNA	RP11-8L2.1	NO	0	BLCA,LUSC,OV,SARC,UCEC
meth_SLCO1C1	meth	SLCO1C1	YES	15	BLCA,HNSC,LUSC,TGCT,THCA
meth_NNMT	meth	NNMT	YES	11	CRAD,KIRC,KIRP,PRAD,SARC
mRNA_VLDLR	mRNA	VLDLR	YES	37	BLCA,CRAD,KIRC,KIRP,UCEC
meth_PKLR	meth	PKLR	YES	29	CESC,CRAD,KIRC,LIHC,UCEC
meth_TRAPPC10	meth	TRAPPC10	YES	19	CESC,CRAD,ESCA,HNSC,KIRC
meth_ITIH1	meth	ITIH1	YES	9	BLCA,KIRC,LIHC,SARC,THYM
mRNA_ZFPM1	mRNA	ZFPM1	YES	46	BLCA,CRAD,PRAD,STAD,UCEC
meth_CAP1P2	meth	CAP1P2	NO	0	BLCA,BRCA,STAD,THCA,UCEC
meth_PPL	meth	PPL	YES	17	BLCA,CESC,PAAD,SARC,UCEC
mRNA_RFXAP	mRNA	RFXAP	YES	6	CRAD,ESCA,HNSC,KIRC,STAD
meth_JDP2	meth	JDP2	YES	16	BRCA,KIRP,PRAD,STAD,UCEC
meth_SLC27A5	meth	SLC27A5	YES	29	CRAD,KIRP,LGG,LIHC,UCEC
mRNA_ARHGEF3	mRNA	ARHGEF3	YES	12	BLCA,LIHC,SARC,THYM,UCEC
mRNA_TUSC3	mRNA	TUSC3	YES	18	CRAD,LUAD,LUSC,PAAD,THYM
mRNA_KCNC4	mRNA	KCNC4	YES	19	BLCA,CRAD,TGCT,THCA,THYM
meth_ANKRD46	meth	ANKRD46	YES	2	BLCA,HNSC,KIRC,OV,TGCT
meth_HAO2	meth	HAO2	YES	17	KIRC,KIRP,LUAD,PCPG,SARC

meth_HINT3	meth	HINT3	YES	6	CRAD,LUAD,LUSC,OV,STAD
mRNA_HMGN2P5	mRNA	HMGN2P5	NO	0	CRAD,HNSC,LGG,LUSC,STAD
meth_MYOZ3	meth	MYOZ3	YES	8	CESC,CRAD,HNSC,PRAD,THYM
mRNA_GRAMD2	mRNA	GRAMD2	YES	1	KIRP,LIHC,LUAD,LUSC,PCPG
meth_ARID1B	meth	ARID1B	YES	19	CRAD,HNSC,LUAD,OV,UCEC
meth_ZNF776	meth	ZNF776	YES	7	BRCA,CESC,KIRC,LUAD,THCA
meth_HSD17B11	meth	HSD17B11	YES	12	HNSC,KIRC,LIHC,THCA,THYM
meth_KCTD15	meth	KCTD15	YES	4	BLCA,ESCA,KIRC,LGG,THYM
mRNA_DOCK4	mRNA	DOCK4	YES	22	BLCA,CESC,KIRP,PAAD,PRAD
mRNA_SNRNP27	mRNA	SNRNP27	YES	9	CESC,PAAD,PCPG,STAD,TGCT
mRNA_ADAM28	mRNA	ADAM28	YES	12	BLCA,KIRP,PAAD,PRAD,TGCT
mRNA_PLCH2	mRNA	PLCH2	YES	20	HNSC,LUSC,PAAD,PRAD,SARC
meth_CLCNKB	meth	CLCNKB	YES	20	BRCA,CRAD,ESCA,LUAD,THCA
meth_PTPN1	meth	PTPN1	YES	54	CRAD,LUSC,OV,TGCT,THYM
meth_SETD6	meth	SETD6	YES	15	BLCA,LUSC,PCPG,SARC,THCA
meth_RNF41	meth	RNF41	YES	36	KIRC,OV,SARC,THYM,UCEC
meth_ZFAND5	meth	ZFAND5	YES	16	BLCA,OV,PAAD,STAD,TGCT
meth_UQCRC2	meth	UQCRC2	YES	21	CESC,ESCA,LIHC,LUSC,OV
meth_VASP	meth	VASP	YES	27	CESC,ESCA,OV,PAAD,THYM
meth_CLPTM1L	meth	CLPTM1L	YES	3	BLCA,ESCA,PAAD,SARC,UCEC
mRNA_SNRPGP10	mRNA	SNRPGP10	NO	0	BLCA,BRCA,ESCA,LGG,PRAD
mRNA_CALM2	mRNA	CALM2	YES	61	BRCA,PAAD,PCPG,TGCT,THCA
mirna_MIR378A	miRNA	MIR378A	YES	2	HNSC,LIHC,LUAD,PCPG,THYM
meth_CUTA	meth	CUTA	YES	8	ESCA,SARC,STAD,TGCT,THYM
mRNA_ERF	mRNA	ERF	YES	14	BRCA,KIRP,LIHC,PRAD,THYM
meth_NHLRC3	meth	NHLRC3	YES	4	BRCA,LUSC,OV,STAD,THCA
mRNA_RCHY1	mRNA	RCHY1	YES	19	BLCA,CRAD,LUAD,PAAD,PCPG
meth_ANGPTL3	meth	ANGPTL3	YES	37	HNSC,LGG,OV,SARC,THCA
mRNA_STRADA	mRNA	STRADA	YES	20	CRAD,LGG,LUSC,PRAD
mRNA_HNRNPH3	mRNA	HNRNPH3	YES	13	CESC,HNSC,THYM,UCEC
mRNA_BTN2A1	mRNA	BTN2A1	YES	7	HNSC,PAAD,PRAD,STAD
meth_EMCN	meth	EMCN	YES	9	PRAD,THCA,THYM,UCEC
mRNA_ZHX3	mRNA	ZHX3	YES	17	KIRC,KIRP,LGG,LIHC
meth_F2	meth	F2	YES	58	BRCA,LIHC,LUAD,TGCT
meth_OSGIN1	meth	OSGIN1	YES	10	HNSC,LUAD,LUSC,THCA
meth_KBTBD8	meth	KBTBD8	YES	14	BLCA,KIRC,LGG,PAAD
meth_NADK2	meth	NADK2	YES	12	BRCA,KIRP,LIHC,STAD
meth_PIEZO1	meth	PIEZO1	YES	20	BRCA,CRAD,TGCT,UCEC
meth_ZNF267	meth	ZNF267	YES	9	BLCA,KIRC,PRAD,UCEC
mRNA_ST8SIA1	mRNA	ST8SIA1	YES	16	BRCA,HNSC,LGG,PAAD
meth_CLDN16	meth	CLDN16	YES	15	CRAD,KIRP,PAAD,UCEC
mRNA_RPL5P34	mRNA	RPL5P34	NO	0	BRCA,ESCA,PRAD,STAD
mRNA_RNF141	mRNA	RNF141	YES	6	ESCA,HNSC,LGG,PRAD
meth_RP11.299J3.8	meth	RP11.299J3.8	NO	0	BRCA,CRAD,ESCA,LUAD
meth_COG6	meth	COG6	YES	11	HNSC,SARC,THCA,THYM
mRNA_GNA12	mRNA	GNA12	YES	33	BLCA,HNSC,LUSC,TGCT
meth_ATP6AP1L	meth	ATP6AP1L	YES	6	LUAD,LUSC,PCPG,STAD
meth_DIO2	meth	DIO2	YES	16	CESC,ESCA,PRAD,UCEC
mRNA_HOXC9	mRNA	HOXC9	YES	12	BRCA,CRAD,KIRC,THCA
meth_CTD.2544N14.3	meth	CTD.2544N14.3	NO	0	BRCA,CESC,KIRP,THCA
meth_CYP17A1	meth	CYP17A1	YES	54	BLCA,CRAD,LGG,THCA
mRNA_RPL5P4	mRNA	RPL5P4	NO	0	ESCA,KIRP,STAD,UCEC
mirna_MIR708	miRNA	MIR708	NO	0	HNSC,LGG,LUSC,THYM
mRNA_MEF2BNB-MEF2B	mRNA	MEF2BNB-MEF2B	YES	10	LGG,LUSC,STAD,UCEC
meth_FAM84B	meth	FAM84B	YES	3	BRCA,OV,PAAD,THYM
meth_GOLT1A	meth	GOLT1A	YES	7	BLCA,BRCA,HNSC,LIHC
meth_MLXIP	meth	MLXIP	YES	16	CESC,HNSC,KIRC,PCPG
mRNA_DCP1B	mRNA	DCP1B	YES	16	HNSC,LUSC,OV,TGCT
meth_DDR2	meth	DDR2	YES	41	CESC,PRAD,SARC,TGCT
meth_FGF1	meth	FGF1	YES	57	BLCA,BRCA,LUAD,LUSC
meth_TOR1A	meth	TOR1A	YES	50	BRCA,KIRC,STAD,THCA
mRNA_GPR63	mRNA	GPR63	YES	12	CRAD,LUAD,PRAD,SARC
meth_ADCY7	meth	ADCY7	YES	29	HNSC,OV,PRAD,UCEC
mRNA_CCSER1	mRNA	CCSER1	NO	0	BLCA,KIRP,LGG,SARC
meth_CTC.492K19.7	meth	CTC.492K19.7	NO	0	HNSC,LUAD,OV,THYM
mRNA_GUCY1A2	mRNA	GUCY1A2	YES	15	KIRC,KIRP,LGG,SARC
meth_HOXB6	meth	HOXB6	YES	13	LUAD,LUSC,THCA,UCEC
meth_TAL2	meth	TAL2	YES	13	BLCA,BRCA,CRAD,PRAD
mRNA_SPAG9	mRNA	SPAG9	YES	26	KIRP,LGG,OV,SARC
meth_DYNLL2	meth	DYNLL2	YES	34	BRCA,SARC,THCA,THYM
mRNA_STRIP1	mRNA	STRIP1	YES	8	KIRC,LIHC,TGCT,THYM
meth_FAM47E	meth	FAM47E	YES	3	BRCA,LUSC,OV,PRAD
meth_ELP3	meth	ELP3	YES	30	CESC,LUSC,OV,THYM

mRNA_PAM	mRNA	PAM	YES	53	LUAD,LUSC,PCPG,THCA
meth_UFM1	meth	UFM1	YES	10	BRCA,LUAD,LUSC,THCA
mRNA_FEZ1	mRNA	FEZ1	YES	25	HNSC,LGG,LUSC,PCPG
meth_C1orf43	meth	C1orf43	YES	4	HNSC,PAAD,PCPG,STAD
meth_EGF	meth	EGF	YES	67	BRCA,KIRC,SARC,THYM
meth_AP000692.10	meth	AP000692.10	NO	0	BRCA,KIRC,LUAD,TGCT
meth_FKBP14	meth	FKBP14	YES	11	BLCA,LUAD,THCA,UCEC
mRNA_MAZ	mRNA	MAZ	YES	15	KIRP,PRAD,STAD,THCA
mRNA_CTD-2314G24.2	mRNA	CTD-2314G24.2	NO	0	BLCA,LUSC,PRAD,THYM
mRNA_COX7A1	mRNA	COX7A1	YES	9	BLCA,KIRC,OV,UCEC
mRNA_CNN3	mRNA	CNN3	YES	16	KIRP,LGG,SARC,THYM
meth_DBF4	meth	DBF4	YES	11	HNSC,KIRP,LGG,SARC
meth_APOM	meth	APOM	YES	25	BLCA,KIRC,LIHC,PRAD
meth_GJA1	meth	GJA1	YES	88	PAAD,PRAD,THCA,THYM
meth_RP11.482M8.1	meth	RP11.482M8.1	NO	0	KIRP,LGG,LUSC,PAAD
meth_MOK	meth	MOK	YES	19	PAAD,PCPG,SARC,THCA
meth_FKBP1A	meth	FKBP1A	YES	60	CESC,CRAD,KIRC,UCEC
meth_GGTLC1	meth	GGTLC1	YES	7	KIRC,LUAD,TGCT,THCA
mRNA_SOX2	mRNA	SOX2	YES	70	LGG,LIHC,LUSC,PAAD
meth_HABP4	meth	HABP4	YES	13	BRCA,ESCA,PCPG,THCA
mRNA_ADAMTS20	mRNA	ADAMTS20	YES	17	LUAD,PRAD,THCA,UCEC
meth_TARS2	meth	TARS2	YES	18	BLCA,BRCA,OV,PCPG
meth_LRRC8D	meth	LRRC8D	YES	16	CESC,KIRP,SARC,TGCT
meth_CUL2	meth	CUL2	YES	21	LGG,LIHC,SARC,THYM
meth_WDYHV1	meth	WDYHV1	YES	8	HNSC,KIRP,LUSC,OV
mRNA_ZNF275	mRNA	ZNF275	YES	7	CRAD,OV,STAD,TGCT
meth_SGMS1	meth	SGMS1	YES	26	HNSC,KIRC,STAD,THCA
meth_ISLR	meth	ISLR	YES	6	CESC,KIRP,SARC,THYM
meth_FAM195A	meth	FAM195A	YES	1	BRCA,CESC,PRAD,TGCT
meth_CALU	meth	CALU	YES	15	BRCA,CESC,LIHC,TGCT
meth_RNU6.510P	meth	RNU6.510P	NO	0	ESCA,KIRC,THCA,UCEC
mRNA_WIZ	mRNA	WIZ	YES	11	BLCA,KIRC,OV,SARC
mRNA_FEV	mRNA	FEV	YES	18	BLCA,CESC,CRAD,LIHC
meth_RAPGEF3	meth	RAPGEF3	YES	35	CESC,LUAD,SARC,THYM
meth_CLDN15	meth	CLDN15	YES	11	CESC,LUSC,PAAD,PRAD
meth_LMO1	meth	LMO1	YES	8	CRAD,ESCA,KIRC,LUAD
mRNA_FIBIN	mRNA	FIBIN	YES	3	ESCA,KIRC,KIRP,LUAD
mRNA_CHD3	mRNA	CHD3	YES	30	LIHC,PRAD,STAD,UCEC
meth_ROPN1L	meth	ROPN1L	YES	4	KIRP,THCA,THYM,UCEC
meth_ATP6V1H	meth	ATP6V1H	YES	24	BRCA,LIHC,STAD,TGCT
meth_PPCDC	meth	PPCDC	YES	9	CRAD,LUAD,PCPG,THCA
mRNA_SRSF12	mRNA	SRSF12	YES	12	CRAD,PAAD,PRAD,UCEC
meth_MCM3	meth	MCM3	YES	22	BLCA,LGG,LUAD,THCA
mRNA_SIMC1	mRNA	SIMC1	YES	1	BLCA,CRAD,LGG,SARC
meth_TAB2	meth	TAB2	YES	32	ESCA,HNSC,KIRC,OV
meth_RNF19A	meth	RNF19A	YES	19	BLCA,LUAD,OV,THCA
meth_TMEM81	meth	TMEM81	YES	2	CRAD,KIRP,LIHC,TGCT
meth_PSMC3	meth	PSMC3	YES	55	ESCA,PAAD,SARC,STAD
mRNA_BRMS1L	mRNA	BRMS1L	YES	10	ESCA,KIRC,PAAD,THYM
mRNA_PHLDA1	mRNA	PHLDA1	YES	9	OV,PRAD,TGCT,UCEC
meth_NEDD9	meth	NEDD9	YES	23	KIRP,LIHC,LUAD,SARC
mRNA_NAV1	mRNA	NAV1	YES	10	BLCA,HNSC,KIRP,PCPG
meth_ZNF764	meth	ZNF764	YES	8	HNSC,LUAD,PAAD,THYM
mirna_MIR500B	miRNA	MIR500B	NO	0	KIRC,KIRP,PCPG,SARC
mRNA_LRRC37B	mRNA	LRRC37B	YES	3	CRAD,OV,PCPG,THYM

APPENDIX M

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	Age	Age		NO	0
2	mRNA_FCGR2A	mRNA	FCGR2A	YES	10
3	mRNA_SLFN11	mRNA	SLFN11	YES	11
4	mRNA_RGS19	mRNA	RGS19	YES	16
5	mRNA_FAM227B	mRNA	FAM227B	NO	0
6	METH_AKNAD1	METH	AKNAD1	YES	1
7	mRNA_SHC1	mRNA	SHC1	YES	49
8	mRNA_TADA2B	mRNA	TADA2B	YES	20
9	mRNA_PAX5	mRNA	PAX5	YES	29
11	METH_MAP2K2	METH	MAP2K2	YES	60
11	mRNA_ARL4C	mRNA	ARL4C	YES	16
12	STV_CDK4	STV	CDK4	YES	63
13	METH_TERC	METH	TERC	NO	0
15	METH_NFATC3	METH	NFATC3	YES	24
16	METH_SLC10A1	METH	SLC10A1	YES	16
16	mRNA_GCNT4	mRNA	GCNT4	YES	18
17	METH_HADHA	METH	HADHA	YES	30
18	METH_HOXA10.HOXA9	METH	HOXA10.HOXA9	NO	0
19	mRNA_CLDN1	mRNA	CLDN1	YES	39
20	mRNA_RP11-1055B8.1	mRNA	RP11-1055B8.1	NO	0
21	mRNA_RP11-403A3.3	mRNA	RP11-403A3.3	NO	0
22	mirna_MIR146A	miRNA	MIR146A	YES	1
24	mRNA_INHBA	mRNA	INHBA	YES	66
24	mRNA_TMEM189	mRNA	TMEM189	YES	8
26	STV_FGFRL1	STV	FGFRL1	YES	17
27	METH_GPR22	METH	GPR22	YES	11
27	mRNA_FOSL1	mRNA	FOSL1	YES	41
29	mRNA_DACT2	mRNA	DACT2	YES	14
29	STV_CAMK2N2	STV	CAMK2N2	YES	8
31	mRNA_LRMP	mRNA	LRMP	YES	19
32	METH_MAPK13	METH	MAPK13	YES	26
33	mRNA_SMIM14	mRNA	SMIM14	YES	5
34	mRNA_GALNT16	mRNA	GALNT16	YES	11
35	mRNA_TNC	mRNA	TNC	YES	34
36	METH_IL1R1	METH	IL1R1	YES	24
36	mRNA_IFITM2	mRNA	IFITM2	YES	15
37	mRNA_SFPQ	mRNA	SFPQ	YES	40
39	mRNA_SLC25A35	mRNA	SLC25A35	YES	8
39	mRNA_TUBB2B	mRNA	TUBB2B	YES	16
40	mRNA_PLEKHA8P1	mRNA	PLEKHA8P1	NO	0
41	mRNA_TRPV4	mRNA	TRPV4	YES	84
42	mRNA_NR2E1	mRNA	NR2E1	YES	53
44	METH_TBC1D8	METH	TBC1D8	YES	10
44	mRNA_FOXP3	mRNA	FOXP3	YES	85
45	mirna_MIR6503	miRNA	MIR6503	NO	0
46	mRNA_AP000439.3	mRNA	AP000439.3	NO	0
47	mRNA_MSL3P1	mRNA	MSL3P1	NO	0
48	mRNA_PHYHD1	mRNA	PHYHD1	YES	5
49	mRNA_AC098820.3	mRNA	AC098820.3	NO	0
51	METH_ALDOA	METH	ALDOA	YES	39
51	METH_CCL28	METH	CCL28	YES	14
53	METH_RP11.387A1.5	METH	RP11.387A1.5	NO	0
54	mRNA_GDPD2	mRNA	GDPD2	YES	15
54	mRNA_LY96	mRNA	LY96	YES	29
55	mRNA_TBC1D10A	mRNA	TBC1D10A	YES	20
57	mRNA_PAXIP1-AS1	mRNA	PAXIP1-AS1	NO	0
58	STV_MRGPRX1	STV	MRGPRX1	YES	9
59	METH_VIL1	METH	VIL1	YES	52
60	mRNA_NCOA5	mRNA	NCOA5	YES	10

61	mRNA_BCAR3	mRNA	BCAR3	YES	11
61	mRNA_AC092667.2	mRNA	AC092667.2	NO	0
64	mRNA_ZBTB32	mRNA	ZBTB32	YES	15
64	mRNA_FAM210B	mRNA	FAM210B	YES	2
65	METH_CNTRL	METH	CNTRL	YES	16
65	mRNA_LINC00941	mRNA	LINC00941	NO	0
67	mRNA_TIGD6	mRNA	TIGD6	YES	3
69	mRNA_CH17-360D5.2	mRNA	CH17-360D5.2	NO	0
70	STV_VMAC	STV	VMAC	YES	1
70	STV_ZMYM6NB	STV	ZMYM6NB	YES	1
71	mRNA_IRX4	mRNA	IRX4	YES	7
71	mRNA_C19orf35	mRNA	C19orf35	YES	4
73	mRNA_CTD-2357A8.3	mRNA	CTD-2357A8.3	NO	0
74	mRNA_GIMAP6	mRNA	GIMAP6	YES	4
75	STV_UBE2Q1	STV	UBE2Q1	YES	17
76	mRNA_RP5-943J3.2	mRNA	RP5-943J3.2	NO	0
77	METH_VAT1	METH	VAT1	YES	13
78	mRNA_ASMTL	mRNA	ASMTL	YES	9
79	mRNA_PRKAG2	mRNA	PRKAG2	YES	40
79	mRNA_CTSL	mRNA	CTSL	YES	29
80	mRNA_RP11-212I21.2	mRNA	RP11-212I21.2	NO	0
82	mRNA_IL1RAP	mRNA	IL1RAP	YES	26
83	mRNA_IPO5P1	mRNA	IPO5P1	NO	0
84	mRNA_P2RY6	mRNA	P2RY6	YES	19
85	mirna_MIR374A	miRNA	MIR374A	YES	1
86	mRNA_TGFB1	mRNA	TGFB1	YES	229
86	mRNA_VMAC	mRNA	VMAC	YES	1
87	STV_RBM23	STV	RBM23	YES	6
89	mRNA_MPHOSPH10	mRNA	MPHOSPH10	YES	17
90	METH_MAT1A	METH	MAT1A	YES	15
91	mRNA_VOPP1	mRNA	VOPP1	YES	10
92	mRNA_DCBLD1	mRNA	DCBLD1	YES	3
93	STV_C9orf173	STV	C9orf173	NO	0
94	mRNA_IFNE	mRNA	IFNE	YES	18
95	mRNA_UBXN6	mRNA	UBXN6	YES	17
95	mRNA_RP11-774O3.3	mRNA	RP11-774O3.3	NO	0
97	mirna_MIR629	miRNA	MIR629	NO	0
98	METH_SIPA1L1	METH	SIPA1L1	YES	25
98	mRNA_THUMPD1	mRNA	THUMPD1	YES	5
99	mRNA_LPXN	mRNA	LPXN	YES	23
100	mRNA_OLR1	mRNA	OLR1	YES	23
102	METH_SIK2	METH	SIK2	YES	18
103	mRNA_MXD3	mRNA	MXD3	YES	11
103	mRNA_RP5-968P14.2	mRNA	RP5-968P14.2	NO	0
105	mRNA_SLC29A3	mRNA	SLC29A3	YES	13
106	METH_KCNG3	METH	KCNG3	YES	19
106	METH_METTL4	METH	METTL4	YES	8
108	METH_FEN1	METH	FEN1	YES	37
108	mRNA_PTGIR	mRNA	PTGIR	YES	20
110	METH_ERP27	METH	ERP27	YES	3
111	mRNA_RP5-1042I8.7	mRNA	RP5-1042I8.7	NO	0
113	METH_GTF2IRD1	METH	GTF2IRD1	YES	15
113	mRNA_TMEM184A	mRNA	TMEM184A	YES	14
114	METH_IDO1	METH	IDO1	YES	31
114	STV_BZW1	STV	BZW1	YES	6
115	mRNA_LINC00996	mRNA	LINC00996	NO	0
116	mRNA_HLA-DMB	mRNA	HLA-DMB	YES	17
118	METH_GALNT3	METH	GALNT3	YES	20
120	STV_TMEM139	STV	TMEM139	YES	3
121	mRNA_ELAC1	mRNA	ELAC1	YES	13

122	mRNA_S100A10	mRNA	S100A10	YES	18
123	METH_AC003006.7	METH	AC003006.7	NO	0
123	mRNA_RP11-473M20.5	mRNA	RP11-473M20.5	NO	0
124	mRNA_RP11-266L9.8	mRNA	RP11-266L9.8	NO	0
125	STV_ZNHIT2	STV	ZNHIT2	YES	2
126	METH_EXOSC2	METH	EXOSC2	YES	24
126	mRNA_CCT6B	mRNA	CCT6B	YES	15
128	mRNA_SMDT1	mRNA	SMDT1	YES	15
129	mRNA_ZYG11A	mRNA	ZYG11A	YES	4
130	METH_TBX4	METH	TBX4	YES	13
132	mRNA_CTD-2547L24.3	mRNA	CTD-2547L24.3	NO	0
134	mRNA_CCNG2	mRNA	CCNG2	YES	5
135	mRNA_FCGR3A	mRNA	FCGR3A	YES	10
136	METH_MMP7	METH	MMP7	YES	23
137	METH_SOCS4	METH	SOCS4	YES	12
137	mRNA_GALNT2	mRNA	GALNT2	YES	24
138	mRNA_C3orf67	mRNA	C3orf67	NO	0
138	mRNA_PCDHGB3	mRNA	PCDHGB3	YES	9
140	mRNA_SLC11A1	mRNA	SLC11A1	YES	63
141	METH_MESP1	METH	MESP1	YES	47
142	mRNA_IL12RB2	mRNA	IL12RB2	YES	16
144	METH_SEC22C	METH	SEC22C	YES	13
146	mRNA_PRKCH	mRNA	PRKCH	YES	34
147	mRNA_TRIM11	mRNA	TRIM11	YES	21
148	mRNA_GAB3	mRNA	GAB3	YES	2
149	mirna_MIR4777	miRNA	MIR4777	NO	0
150	mRNA_FCRL3	mRNA	FCRL3	YES	3
150	STV_DTL	STV	DTL	YES	27
151	mirna_MIR511	miRNA	MIR511	NO	0
152	mRNA_VAV3	mRNA	VAV3	YES	40
152	mRNA_LAPTM5	mRNA	LAPTM5	YES	8
153	STV_C12orf54	STV	C12orf54	NO	0
154	METH_MAP3K7	METH	MAP3K7	YES	56
156	STV_ASB1	STV	ASB1	YES	9
157	mRNA_RP11-798K23.5	mRNA	RP11-798K23.5	NO	0
158	mRNA_PELO	mRNA	PELO	YES	23
159	mRNA_RAB9A	mRNA	RAB9A	YES	30
160	mRNA_DLX5	mRNA	DLX5	YES	41
160	mRNA_IL24	mRNA	IL24	YES	18
162	mRNA_ADRBK2	mRNA	ADRBK2	YES	11
162	STV_SSRP1	STV	SSRP1	YES	16
163	STV_SLC6A12	STV	SLC6A12	YES	16
164	mRNA_LILRB5	mRNA	LILRB5	YES	7
164	STV_ACBD6	STV	ACBD6	YES	5
165	METH_A4GALT	METH	A4GALT	YES	16
165	STV_DYRK4	STV	DYRK4	YES	16
168	STV_SPAG7	STV	SPAG7	YES	2
169	mRNA_ZSWIM7	mRNA	ZSWIM7	YES	10
169	mRNA_RP11-830F9.5	mRNA	RP11-830F9.5	NO	0
170	METH_SERPINA6	METH	SERPINA6	YES	9
171	mRNA_IRX5	mRNA	IRX5	YES	16
171	mRNA_RUFY4	mRNA	RUFY4	YES	2
173	mRNA_BDKRB2	mRNA	BDKRB2	YES	31
176	METH_DGKQ	METH	DGKQ	YES	52
177	mRNA_LSP1	mRNA	LSP1	YES	11
178	mRNA_EVI2B	mRNA	EVI2B	YES	3
179	METH_CCSER2	METH	CCSER2	YES	3
179	STV_PRR22	STV	PRR22	NO	0
181	METH_LEP	METH	LEP	YES	112
182	mRNA_PSD4	mRNA	PSD4	YES	10

183	mRNA_IRF5	mRNA	IRF5	YES	26
184	mirna_MIR182	miRNA	MIR182	YES	1
185	mRNA_MED11	mRNA	MED11	YES	10
185	STV_LPAR2	STV	LPAR2	YES	16
186	STV_OR10G8	STV	OR10G8	YES	11
189	mRNA_RYR3	mRNA	RYR3	YES	32
192	STV_MEOX1	STV	MEOX1	YES	22
192	STV_NSL1	STV	NSL1	YES	15
193	mRNA_RP11-792A8.4	mRNA	RP11-792A8.4	NO	0
194	METH_SAMM50	METH	SAMM50	YES	13
194	mRNA_LIMK2	mRNA	LIMK2	YES	18
195	mRNA_SLC7A7	mRNA	SLC7A7	YES	19
197	mRNA_ST8SIA4	mRNA	ST8SIA4	YES	16
197	mRNA_UBASH3B	mRNA	UBASH3B	YES	22
198	CNV_RN7SL560P	CNV	RN7SL560P	NO	0
199	mRNA_ZNF200	mRNA	ZNF200	YES	7
199	mRNA_GIMAP5	mRNA	GIMAP5	YES	22
200	mRNA_TOX2	mRNA	TOX2	YES	9
200	mRNA_IRX3	mRNA	IRX3	YES	14
201	METH_GABRA5	METH	GABRA5	YES	38
202	mRNA_GPR87	mRNA	GPR87	YES	12
202	mRNA_HCAR3	mRNA	HCAR3	YES	9
204	METH_C12orf40	METH	C12orf40	YES	1
205	STV_SMN1	STV	SMN1	YES	23
206	mRNA_FBXO46	mRNA	FBXO46	YES	1
207	mRNA_ADORA1	mRNA	ADORA1	YES	79
209	METH_RBBP8NL	METH	RBBP8NL	YES	1
210	mirna_MIR2114	miRNA	MIR2114	NO	0
210	mRNA_RP11-58E21.3	mRNA	RP11-58E21.3	NO	0
211	mRNA_LINC00539	mRNA	LINC00539	NO	0
213	STV_ARF6	STV	ARF6	YES	54
214	mRNA_CD5	mRNA	CD5	YES	14
215	mRNA_COPS4	mRNA	COPS4	YES	17
216	mRNA_RPSAP52	mRNA	RPSAP52	NO	0
217	mRNA_PSAP	mRNA	PSAP	YES	41
219	mRNA_LAMC2	mRNA	LAMC2	YES	18
219	mRNA_MTATP6P1	mRNA	MTATP6P1	NO	0
221	mRNA_HOXA2	mRNA	HOXA2	YES	24
222	mRNA_STX11	mRNA	STX11	YES	16
222	mRNA_NAB1	mRNA	NAB1	YES	9
223	STV_PHKG1P1	STV	PHKG1P1	NO	0
225	mRNA_CCL21	mRNA	CCL21	YES	55
225	STV_MFSD1	STV	MFSD1	YES	4
227	mRNA_TRIM52-AS1	mRNA	TRIM52-AS1	NO	0
227	STV_CDR2L	STV	CDR2L	YES	1
228	mRNA_JAG1	mRNA	JAG1	YES	58
228	mRNA_FCGR1B	mRNA	FCGR1B	YES	14
229	mRNA_MYH16	mRNA	MYH16	NO	0
230	METH_KRTAP6.1	METH	KRTAP6.1	NO	0
230	mRNA_ASB8	mRNA	ASB8	YES	5
231	STV_CYB5R1	STV	CYB5R1	YES	20
232	mRNA_SYCP2	mRNA	SYCP2	YES	16
233	mRNA_SLC9A2	mRNA	SLC9A2	YES	18
235	mirna_MIR3690	miRNA	MIR3690	NO	0
235	mirna_MIR520B	miRNA	MIR520B	NO	0
236	mRNA_TSPAN32	mRNA	TSPAN32	YES	18
237	STV_CTC.454I21.3	STV	CTC.454I21.3	NO	0
238	mRNA_PPP1R1C	mRNA	PPP1R1C	YES	10
239	mRNA_ASRGL1	mRNA	ASRGL1	YES	10
240	mRNA_RP13-463N16.6	mRNA	RP13-463N16.6	NO	0

242	METH_ANKMY2	METH	ANKMY2	YES	6
243	mRNA_LINC00861	mRNA	LINC00861	NO	0
243	mRNA_ABHD14A	mRNA	ABHD14A	YES	5
245	METH_AMPD3	METH	AMPD3	YES	22
246	mRNA_CEACAM4	mRNA	CEACAM4	YES	4
247	STV_BEGAIN	STV	BEGAIN	YES	6
248	STV_TMEM156	STV	TMEM156	YES	2
249	mRNA_MBOAT1	mRNA	MBOAT1	YES	12
250	mRNA_MAST2	mRNA	MAST2	YES	23
252	METH_C6orf211	METH	C6orf211	NO	0
252	mRNA_LDLR	mRNA	LDLR	YES	75
253	METH_KRTAP19.5	METH	KRTAP19.5	NO	0
254	mRNA_ANXA2	mRNA	ANXA2	YES	77
255	mRNA_IGHE	mRNA	IGHE	YES	19
256	mRNA_ICOSLG	mRNA	ICOSLG	YES	15
257	METH_SIRT7	METH	SIRT7	YES	18
258	mRNA_CATSPERG	mRNA	CATSPERG	YES	10
259	mRNA_DEPTOR	mRNA	DEPTOR	YES	8
262	mRNA_SIRT3	mRNA	SIRT3	YES	21
263	METH_TSTA3	METH	TSTA3	YES	18
263	mRNA_CYB5D2	mRNA	CYB5D2	YES	6
264	mRNA_UCN2	mRNA	UCN2	YES	17
265	mRNA_AC092171.4	mRNA	AC092171.4	NO	0
265	mRNA_MAP3K14-AS1	mRNA	MAP3K14-AS1	NO	0
267	mRNA_JOSD1	mRNA	JOSD1	YES	11
270	mRNA_FUT1	mRNA	FUT1	YES	13
271	METH_TAMM41	METH	TAMM41	YES	11
272	METH_POLG2	METH	POLG2	YES	22
272	STV_ZNRF4	STV	ZNRF4	YES	10
273	CNV_TOR1B	CNV	TOR1B	YES	18
275	mRNA_FAM83A	mRNA	FAM83A	YES	6
275	mRNA_TCEB3-AS1	mRNA	TCEB3-AS1	NO	0
277	mRNA_NRROS	mRNA	NRROS	YES	10
279	METH_RPS2	METH	RPS2	YES	25
279	mRNA_CATSPERB	mRNA	CATSPERB	YES	11
280	mRNA_ZC3H8	mRNA	ZC3H8	YES	26
280	STV_FCGR1A	STV	FCGR1A	YES	18
281	mRNA_ABCD2	mRNA	ABCD2	YES	20
281	mRNA_MPI	mRNA	MPI	YES	12
282	METH_ANKRD13C	METH	ANKRD13C	YES	8
283	mRNA_CD7	mRNA	CD7	YES	11
283	mRNA_S100A14	mRNA	S100A14	YES	16
284	STV_ATP6V1G3	STV	ATP6V1G3	YES	14
285	mRNA_ZNF541	mRNA	ZNF541	YES	15
285	STV_GFRA2	STV	GFRA2	YES	16
286	mRNA_MRFAP1L1	mRNA	MRFAP1L1	YES	2
288	mRNA_PLLP	mRNA	PLLP	YES	13
288	mRNA_TRAF3	mRNA	TRAF3	YES	34
291	mRNA_CCR8	mRNA	CCR8	YES	16
292	mRNA_CD38	mRNA	CD38	YES	38
294	mRNA_TNFAIP8	mRNA	TNFAIP8	YES	7
295	mRNA_LY9	mRNA	LY9	YES	11
297	METH_BATF2	METH	BATF2	YES	10
298	mRNA_SERPINE1	mRNA	SERPINE1	YES	45
298	mRNA_NUP85	mRNA	NUP85	YES	36
299	METH_GALR2	METH	GALR2	YES	30
300	mRNA_RP11-327P2.5	mRNA	RP11-327P2.5	NO	0
301	METH_FAT2	METH	FAT2	YES	11
301	STV_HM13	STV	HM13	YES	23
302	METH_KRTAP19.6	METH	KRTAP19.6	NO	0

302	STV_SDHD	STV	SDHD	YES	15
303	mRNA_C22orf23	mRNA	C22orf23	YES	4
304	mRNA_FOXN1	mRNA	FOXN1	YES	34
305	mRNA_A4GALT	mRNA	A4GALT	YES	16
305	mRNA_PFN4	mRNA	PFN4	YES	7
306	METH_IL27RA	METH	IL27RA	YES	15
307	mRNA_AC144450.2	mRNA	AC144450.2	NO	0
309	mRNA_GIMAP1	mRNA	GIMAP1	YES	8
311	METH_KLC3	METH	KLC3	YES	12
312	mRNA_C7orf55	mRNA	C7orf55	YES	1
313	mRNA_EFNA3	mRNA	EFNA3	YES	11
315	mRNA_ZNF516	mRNA	ZNF516	YES	18
315	mRNA_HPGDS	mRNA	HPGDS	YES	21
316	METH_MUCL1	METH	MUCL1	YES	6
317	METH_GALM	METH	GALM	YES	11
317	mRNA_RGL4	mRNA	RGL4	YES	5
318	STV_POLR2L	STV	POLR2L	YES	34
319	mRNA_ZNF561-AS1	mRNA	ZNF561-AS1	NO	0
321	METH_TSSK4	METH	TSSK4	YES	18
321	mRNA_HID1	mRNA	HID1	YES	13
322	mRNA_AZGP1	mRNA	AZGP1	YES	15
324	METH_GAL3ST4	METH	GAL3ST4	YES	16
324	mRNA_CALB2	mRNA	CALB2	YES	10
325	mRNA_RP11-297D21.4	mRNA	RP11-297D21.4	NO	0
327	mRNA_PLAU	mRNA	PLAU	YES	30
329	METH_GYPC	METH	GYPC	YES	15
329	STV_MSI1	STV	MSI1	YES	11
330	STV_NET1	STV	NET1	YES	20
331	mRNA_BAG3	mRNA	BAG3	YES	27
331	mRNA_STX18	mRNA	STX18	YES	21
332	mRNA_ERO1L	mRNA	ERO1L	YES	20
333	mRNA_ZIC2	mRNA	ZIC2	YES	19
333	mRNA_GPSM3	mRNA	GPSM3	YES	14
334	mRNA_ICOS	mRNA	ICOS	YES	16
335	mRNA_TAGAP	mRNA	TAGAP	YES	6
338	mRNA_CLEC4A	mRNA	CLEC4A	YES	12
338	mRNA_CFAP36	mRNA	CFAP36	YES	3
341	mRNA_IL4R	mRNA	IL4R	YES	30
342	mRNA_ATP2A3	mRNA	ATP2A3	YES	21
343	mRNA_KIAA1522	mRNA	KIAA1522	YES	1
344	STV_HIST1H2BO	STV	HIST1H2BO	YES	9
345	mRNA_EDARADD	mRNA	EDARADD	YES	7
345	STV_POLR3A	STV	POLR3A	YES	21
346	mRNA_KLHL35	mRNA	KLHL35	YES	4
348	mRNA_BAIAP2-AS1	mRNA	BAIAP2-AS1	NO	0
349	mRNA_ARHGAP22	mRNA	ARHGAP22	YES	14
349	STV_AL022328.1	STV	AL022328.1	NO	0
351	METH_CCSER1	METH	CCSER1	NO	0
352	mRNA_CLGN	mRNA	CLGN	YES	12
353	mRNA_RP11-463J17.2	mRNA	RP11-463J17.2	NO	0
354	METH_KRTAP19.2	METH	KRTAP19.2	NO	0
354	mRNA_LINC01237	mRNA	LINC01237	NO	0
356	STV_RP5.966M1.6	STV	RP5.966M1.6	NO	0
357	mRNA_EMR1	mRNA	EMR1	YES	13
358	mRNA_ELOVL5	mRNA	ELOVL5	YES	28
358	mRNA_RP11-262H14.3	mRNA	RP11-262H14.3	NO	0
360	METH_HSPG2	METH	HSPG2	YES	32
360	mRNA_WBP5	mRNA	WBP5	YES	1
361	METH_HCG4P11	METH	HCG4P11	NO	0
361	mRNA_ZNF341	mRNA	ZNF341	YES	8

362	METH_GLIS3	METH	GLIS3	YES	10
363	STV_CHCHD2	STV	CHCHD2	YES	10
365	mRNA_HK3	mRNA	HK3	YES	27
366	mRNA_GPR84	mRNA	GPR84	YES	17
367	mRNA_SLC22A15	mRNA	SLC22A15	YES	8
368	mRNA_P2RY8	mRNA	P2RY8	YES	12
370	METH_IER2	METH	IER2	YES	11
371	mRNA_BCAS4	mRNA	BCAS4	YES	3
371	mRNA_HIST2H2BF	mRNA	HIST2H2BF	YES	10
373	mRNA_RP1L1	mRNA	RP1L1	YES	6
375	mRNA_CMIP	mRNA	CMIP	YES	5
376	mRNA_FGD2	mRNA	FGD2	YES	30
376	mRNA_RP11-319G6.1	mRNA	RP11-319G6.1	NO	0
377	mRNA_CD84	mRNA	CD84	YES	18
377	mRNA_MIATNB	mRNA	MIATNB	NO	0
378	mRNA_RP11-378A13.1	mRNA	RP11-378A13.1	NO	0
379	mRNA_HOXD11	mRNA	HOXD11	YES	23
380	mRNA_RP5-1021I20.1	mRNA	RP5-1021I20.1	NO	0
381	mRNA_UPK3A	mRNA	UPK3A	YES	15
382	METH_MMP3	METH	MMP3	YES	20
383	STV_ALYREF	STV	ALYREF	YES	23
384	METH_FAM207A	METH	FAM207A	YES	1
384	mRNA_CREM	mRNA	CREM	YES	23
385	mRNA_TOLLIP-AS1	mRNA	TOLLIP-AS1	NO	0
386	METH_CLDN17	METH	CLDN17	YES	15
386	mRNA_POPDC3	mRNA	POPDC3	YES	7
390	mRNA_RP11-527N22.2	mRNA	RP11-527N22.2	NO	0
392	CNV_C9orf114	CNV	C9orf114	YES	3
392	STV_OR8B12	STV	OR8B12	YES	12
394	mRNA_RP4-758J18.10	mRNA	RP4-758J18.10	NO	0
395	STV_CST9	STV	CST9	YES	8
396	mRNA_RNASE2	mRNA	RNASE2	YES	18
397	mRNA_GIMAP7	mRNA	GIMAP7	YES	12
397	mRNA_HHIP-AS1	mRNA	HHIP-AS1	NO	0
399	mirna_MIR1323	miRNA	MIR1323	NO	0
399	mRNA_GPD1L	mRNA	GPD1L	YES	31
400	mRNA_TAS1R3	mRNA	TAS1R3	YES	16
400	STV_CD300LD	STV	CD300LD	YES	6
401	mRNA_ZIC5	mRNA	ZIC5	YES	7
401	STV_UBE2U	STV	UBE2U	YES	14
402	mRNA_EFCAB11	mRNA	EFCAB11	YES	2
402	STV_PGK1	STV	PGK1	YES	21
403	mRNA_IRAK3	mRNA	IRAK3	YES	37
404	mRNA_RP11-46J23.1	mRNA	RP11-46J23.1	NO	0
406	METH_RGL3	METH	RGL3	YES	8
407	mirna_MIR3655	miRNA	MIR3655	NO	0
409	METH_SLC15A3	METH	SLC15A3	YES	14
410	METH_EPHA2	METH	EPHA2	YES	77
410	STV_HOMER2	STV	HOMER2	YES	28
412	METH_PPP1R9A	METH	PPP1R9A	YES	51
412	STV_RP5.1096D14.3	STV	RP5.1096D14.3	NO	0
413	mRNA_SRSF3	mRNA	SRSF3	YES	18
415	mRNA_TLR10	mRNA	TLR10	YES	15
417	mRNA_CD209	mRNA	CD209	YES	35
417	mRNA_CHIT1	mRNA	CHIT1	YES	20
420	STV_B3GNTL1	STV	B3GNTL1	YES	2
422	mRNA_RGS10	mRNA	RGS10	YES	12
422	mRNA_RP1-199J3.5	mRNA	RP1-199J3.5	NO	0
423	STV_ULK3	STV	ULK3	YES	17
424	METH_TPM2	METH	TPM2	YES	16

425	mRNA_TMEM173	mRNA	TMEM173	YES	41
426	mRNA_XG	mRNA	XG	YES	6
426	STV_APOLD1	STV	APOLD1	YES	15
427	mRNA_IL18BP	mRNA	IL18BP	YES	10
427	mRNA_RP1-68D18.4	mRNA	RP1-68D18.4	NO	0
430	mRNA_SOX7	mRNA	SOX7	YES	14
431	mRNA_SDCBP	mRNA	SDCBP	YES	63
431	STV_BRI3BP	STV	BRI3BP	YES	4
432	mRNA_BIK	mRNA	BIK	YES	16
433	mRNA_SPNS3	mRNA	SPNS3	YES	10
433	STV_CRYGC	STV	CRYGC	YES	7
435	mRNA_TLDC1	mRNA	TLDC1	YES	3
436	METH_CYP26C1	METH	CYP26C1	YES	20
436	mRNA_TTC39A-AS1	mRNA	TTC39A-AS1	NO	0
437	STV_PPP2R3C	STV	PPP2R3C	YES	18
439	mRNA_HSPA7	mRNA	HSPA7	NO	0
440	CNV_TBC1D13	CNV	TBC1D13	YES	11
440	METH_PDE6H	METH	PDE6H	YES	12
441	mRNA_CCDC125	mRNA	CCDC125	YES	2
443	mRNA_RP4-694B14.8	mRNA	RP4-694B14.8	NO	0
444	METH_BNC2	METH	BNC2	YES	13
445	mRNA_FBXO43	mRNA	FBXO43	YES	8
445	mRNA_RP11-166P13.3	mRNA	RP11-166P13.3	NO	0
447	mRNA_TRIM65	mRNA	TRIM65	YES	7
449	mRNA_NLRP3	mRNA	NLRP3	YES	49
450	STV_LRRN4CL	STV	LRRN4CL	YES	2
451	STV_PSMD4	STV	PSMD4	YES	38
452	mRNA_CLDND2	mRNA	CLDND2	YES	2
453	METH_PAM	METH	PAM	YES	53
454	mRNA_LTF	mRNA	LTF	YES	68
456	mRNA_RBM45	mRNA	RBM45	YES	8
458	mRNA_LRRC25	mRNA	LRRC25	YES	3
458	STV_IL18BP	STV	IL18BP	YES	10
462	CNV_DOLK	CNV	DOLK	YES	13
463	mRNA_TTC6	mRNA	TTC6	YES	1
463	mRNA_PPP1R26-AS1	mRNA	PPP1R26-AS1	NO	0
464	mRNA_PXN-AS1	mRNA	PXN-AS1	NO	0
464	STV_MRPL14	STV	MRPL14	YES	10
465	CNV_FKSG63	CNV	FKSG63	NO	0
466	mRNA_HIST1H2AE	mRNA	HIST1H2AE	YES	9
466	STV_TRBV21OR9.2	STV	TRBV21OR9.2	NO	0
467	mRNA_TBC1D10C	mRNA	TBC1D10C	YES	18
468	METH_EPB41L1	METH	EPB41L1	YES	13
469	STV_SLC26A11	STV	SLC26A11	YES	28
470	mRNA_BIN2	mRNA	BIN2	YES	12
471	mRNA_MZB1	mRNA	MZB1	YES	12
473	METH_FSBP	METH	FSBP	YES	6
473	mRNA_CDCP1	mRNA	CDCP1	YES	5
474	mRNA_GCNT1	mRNA	GCNT1	YES	20
475	METH_TUBB3	METH	TUBB3	YES	18
477	mRNA_P2RY13	mRNA	P2RY13	YES	14
478	mRNA_SIGLEC9	mRNA	SIGLEC9	YES	10
478	mRNA_GZMM	mRNA	GZMM	YES	14
479	CNV_IER5L	CNV	IER5L	NO	0
479	METH_SLC19A3	METH	SLC19A3	YES	11
480	mRNA_YBX3	mRNA	YBX3	YES	35
481	mRNA_VPS11	mRNA	VPS11	YES	39
483	mRNA_CLEC4E	mRNA	CLEC4E	YES	13
484	mRNA_KLRB1	mRNA	KLRB1	YES	8
485	mRNA_MMP1	mRNA	MMP1	YES	18

485	mRNA_RP11-747H7.3	mRNA	RP11-747H7.3	NO	0
486	METH_LIPA	METH	LIPA	YES	19
487	STV_AC022007.5	STV	AC022007.5	NO	0
487	STV_RPL7P61	STV	RPL7P61	NO	0
488	mRNA_MOB3A	mRNA	MOB3A	YES	2
489	mRNA_HLA-DQB1	mRNA	HLA-DQB1	YES	31
490	mRNA_CSF2RB	mRNA	CSF2RB	YES	24
490	mRNA_MNDA	mRNA	MNDA	YES	18
491	mRNA_ARHGEF1	mRNA	ARHGEF1	YES	16
493	mRNA_KCNA3	mRNA	KCNA3	YES	20
494	STV_FAM213A	STV	FAM213A	YES	7
496	mirna_MIR5684	miRNA	MIR5684	NO	0
497	mRNA_MCOLN2	mRNA	MCOLN2	YES	7
498	mRNA_SLC6A11	mRNA	SLC6A11	YES	17
499	mRNA_CDS1	mRNA	CDS1	YES	17
500	mRNA_EPHX3	mRNA	EPHX3	YES	8
501	mRNA_VSIG4	mRNA	VSIG4	YES	8
502	mRNA_NFAM1	mRNA	NFAM1	YES	18
503	mRNA_RP5-1039K5.12	mRNA	RP5-1039K5.12	NO	0
504	mRNA_DGKD	mRNA	DGKD	YES	34
505	METH_TMEM200A	METH	TMEM200A	YES	2
505	mRNA_RALGAPA2	mRNA	RALGAPA2	YES	11
507	STV_PYDC1	STV	PYDC1	YES	12
509	mRNA_PEX11G	mRNA	PEX11G	YES	10
510	STV_METTL20	STV	METTL20	YES	3
510	STV_MSANTD4	STV	MSANTD4	YES	2
511	STV_TMEM8A	STV	TMEM8A	YES	10
512	mRNA_CHRNA3	mRNA	CHRNA3	YES	37
514	METH_KRT36	METH	KRT36	YES	10
515	METH_KRTAP19.7	METH	KRTAP19.7	NO	0
515	mRNA_PLEKHM2	mRNA	PLEKHM2	YES	8
516	mRNA_LUZP1	mRNA	LUZP1	YES	6
518	mRNA_ZNF683	mRNA	ZNF683	YES	16
519	mRNA_TAF1D	mRNA	TAF1D	YES	12
520	mRNA_RASSF5	mRNA	RASSF5	YES	15
521	mRNA_MAZ	mRNA	MAZ	YES	15
521	STV_RP11.457K10.2	STV	RP11.457K10.2	NO	0
523	METH_HOXD12	METH	HOXD12	YES	12
524	mRNA_SEPT9	mRNA	SEPT9	YES	20
525	mRNA_SPINT1	mRNA	SPINT1	YES	18
525	mRNA_HCAR2	mRNA	HCAR2	YES	14
526	METH_RUFY1	METH	RUFY1	YES	16
526	STV_VNN2	STV	VNN2	YES	12
527	mirna_MIR766	miRNA	MIR766	YES	1
527	mRNA_RNASE6	mRNA	RNASE6	YES	21
528	STV_SPON2	STV	SPON2	YES	23
529	METH_WFDC8	METH	WFDC8	YES	5
531	mRNA_GPR114	mRNA	GPR114	YES	8
532	mRNA_TLE2	mRNA	TLE2	YES	15
535	mRNA_ZG16B	mRNA	ZG16B	YES	6
535	mRNA_C11orf71	mRNA	C11orf71	NO	0
537	mRNA_THEMIS2	mRNA	THEMIS2	YES	7
538	STV_RGS19	STV	RGS19	YES	16
539	mRNA_CREB3L4	mRNA	CREB3L4	YES	22
540	mRNA_FAT2	mRNA	FAT2	YES	11
540	mRNA_RP11-540A21.2	mRNA	RP11-540A21.2	NO	0
541	mRNA_C12orf54	mRNA	C12orf54	NO	0
543	mRNA_CAV1	mRNA	CAV1	YES	141
543	STV_TRMT12	STV	TRMT12	YES	4
544	mRNA_CD99	mRNA	CD99	YES	9

544	mRNA_TC2N	mRNA	TC2N	YES	6
545	mRNA_HLA-DQB1-AS1	mRNA	HLA-DQB1-AS1	NO	0
545	STV_SMIM12	STV	SMIM12	YES	2
546	STV_LGALS14	STV	LGALS14	YES	5
547	mRNA_RP11-1094M14.8	mRNA	RP11-1094M14.8	NO	0
549	mRNA_HMGXB3	mRNA	HMGXB3	YES	6
550	mRNA_TNIP3	mRNA	TNIP3	YES	12
550	mRNA_LINC00937	mRNA	LINC00937	NO	0
552	mRNA_GNLY	mRNA	GNLY	YES	10
553	STV_CCNE1	STV	CCNE1	YES	27
555	mRNA_NME4	mRNA	NME4	YES	26
556	mRNA_IP6K2	mRNA	IP6K2	YES	24
557	METH_MLC1	METH	MLC1	YES	29
557	STV_UBE2Q2P10	STV	UBE2Q2P10	NO	0
558	mRNA_SH2B3	mRNA	SH2B3	YES	11
561	mRNA_SIGLEC14	mRNA	SIGLEC14	YES	9
562	STV_CTB.55O6.8	STV	CTB.55O6.8	NO	0
563	mRNA_NLRC4	mRNA	NLRC4	YES	31
564	STV_DBN1	STV	DBN1	YES	29
565	STV_CISD3	STV	CISD3	YES	5
566	mRNA_CLEC2D	mRNA	CLEC2D	YES	10
567	METH_SLC22A1	METH	SLC22A1	YES	35
567	mRNA_TMEM71	mRNA	TMEM71	YES	3
568	mRNA_LCP1	mRNA	LCP1	YES	36
569	METH_DDI2	METH	DDI2	YES	5
569	mRNA_ARFIP2	mRNA	ARFIP2	YES	20
570	mRNA_CTD-2341M24.1	mRNA	CTD-2341M24.1	NO	0
571	mRNA_HLA-DMA	mRNA	HLA-DMA	YES	23
571	mRNA_AC139100.3	mRNA	AC139100.3	NO	0
573	mRNA_TLE6	mRNA	TLE6	YES	9
575	mRNA_PPAPDC1B	mRNA	PPAPDC1B	YES	7
575	mRNA_C4orf3	mRNA	C4orf3	YES	2
576	mRNA_PTGDR2	mRNA	PTGDR2	YES	23
578	mRNA_RP1-317E23.3	mRNA	RP1-317E23.3	NO	0
581	STV_TFPI2	STV	TFPI2	YES	11
583	mRNA_IFFO1	mRNA	IFFO1	YES	2
584	mRNA_MAML3	mRNA	MAML3	YES	10
587	STV_HID1	STV	HID1	YES	13
588	mRNA_TMEM109	mRNA	TMEM109	YES	17
588	mRNA_RP11-705C15.2	mRNA	RP11-705C15.2	NO	0
589	mRNA_TMEM168	mRNA	TMEM168	YES	3
590	mRNA_SPSB1	mRNA	SPSB1	YES	9
590	mRNA_CCL4	mRNA	CCL4	YES	32
591	STV_DNPH1	STV	DNPH1	YES	18
592	METH_CLDN16	METH	CLDN16	YES	15
592	mRNA_SH3BGRL3	mRNA	SH3BGRL3	YES	15
594	mRNA_RRN3P2	mRNA	RRN3P2	NO	0
595	mRNA_C6orf226	mRNA	C6orf226	YES	1
595	STV_COMTD1	STV	COMTD1	YES	8
596	METH_AC062028.1	METH	AC062028.1	NO	0
597	mRNA_SH2D3C	mRNA	SH2D3C	YES	9
597	mRNA_AP4B1	mRNA	AP4B1	YES	15
598	CNV_DOLPP1	CNV	DOLPP1	YES	11
600	STV_SPPL2A	STV	SPPL2A	YES	25
601	mRNA_MYO1G	mRNA	MYO1G	YES	28
601	mRNA_RAB6C-AS1	mRNA	RAB6C-AS1	NO	0
602	mRNA_AOAH	mRNA	AOAH	YES	10
603	mirna_MIR6502	miRNA	MIR6502	NO	0
605	mRNA_HLA-DQA2	mRNA	HLA-DQA2	YES	28
607	mRNA_ARSI	mRNA	ARSI	YES	12

607	STV_ZNF580	STV	ZNF580	YES	15
608	mRNA_ADAMDEC1	mRNA	ADAMDEC1	YES	11
609	METH_HDAC7	METH	HDAC7	YES	33
609	mRNA_ZNF205-AS1	mRNA	ZNF205-AS1	NO	0
610	mRNA_RP11-727F15.12	mRNA	RP11-727F15.12	NO	0
611	mRNA_LAG3	mRNA	LAG3	YES	12
612	mirna_MIR3616	miRNA	MIR3616	NO	0
613	mRNA_TM4SF19-AS1	mRNA	TM4SF19-AS1	NO	0
614	mRNA_LDLRAP1	mRNA	LDLRAP1	YES	40
614	mRNA_GJC3	mRNA	GJC3	YES	11
615	METH_TM4SF4	METH	TM4SF4	YES	4
615	mRNA_LINC00327	mRNA	LINC00327	NO	0
618	mRNA_TESPA1	mRNA	TESPA1	YES	9
620	mRNA_NUMA1	mRNA	NUMA1	YES	69
621	STV_FAM32A	STV	FAM32A	YES	7
622	mRNA_CLSTN1	mRNA	CLSTN1	YES	27
622	mRNA_MMP28	mRNA	MMP28	YES	12
624	mRNA_TYK2	mRNA	TYK2	YES	30
626	mRNA_APCDD1	mRNA	APCDD1	YES	9
626	mRNA_SCAMP1-AS1	mRNA	SCAMP1-AS1	NO	0
628	mRNA_SFXN2	mRNA	SFXN2	YES	11
628	mRNA_JUP	mRNA	JUP	YES	68
630	mRNA_CSF1	mRNA	CSF1	YES	52
630	STV_HRCT1	STV	HRCT1	YES	2
631	mRNA_S1PR4	mRNA	S1PR4	YES	15
632	mRNA_PYGL	mRNA	PYGL	YES	32
632	mRNA_PPP1R18	mRNA	PPP1R18	YES	5
633	METH_TSC2	METH	TSC2	YES	61
634	mRNA_ARVCF	mRNA	ARVCF	YES	9
635	mRNA_ULK1	mRNA	ULK1	YES	42
636	STV_UNCX	STV	UNCX	YES	15
638	mirna_MIR5694	miRNA	MIR5694	NO	0
639	mRNA_DCLK3	mRNA	DCLK3	YES	15
640	mRNA_TMEM127	mRNA	TMEM127	YES	11
640	mRNA_RP11-848P1.2	mRNA	RP11-848P1.2	NO	0
641	METH_PIK3C2A	METH	PIK3C2A	YES	35
644	mirna_MIR4510	miRNA	MIR4510	NO	0
644	STV_CTB.54O9.9	STV	CTB.54O9.9	NO	0
645	mRNA_C10orf128	mRNA	C10orf128	YES	2
645	mRNA_IGHV3-20	mRNA	IGHV3-20	YES	17
646	mRNA_NCF2	mRNA	NCF2	YES	35
648	mirna_MIR24	miRNA	MIR24	NO	0
648	mRNA_GALNT7	mRNA	GALNT7	YES	14
649	STV_IL4I1	STV	IL4I1	YES	8
650	STV_CHKA	STV	CHKA	YES	25
651	mRNA_HIST1H2BC	mRNA	HIST1H2BC	YES	17
654	mRNA_C12orf60	mRNA	C12orf60	NO	0
655	STV_MIOX	STV	MIOX	YES	15
657	mRNA_PRKAG2-AS1	mRNA	PRKAG2-AS1	NO	0
659	METH_GLTSCR1	METH	GLTSCR1	YES	1
659	mRNA_IL22RA2	mRNA	IL22RA2	YES	10
660	mRNA_IL10RB-AS1	mRNA	IL10RB-AS1	NO	0
661	mRNA_GZMA	mRNA	GZMA	YES	18
662	STV_PRKACA	STV	PRKACA	YES	79
664	mirna_MIR142	miRNA	MIR142	YES	1
664	mirna_MIR527	miRNA	MIR527	NO	0
665	mRNA_PIK3CG	mRNA	PIK3CG	YES	61
666	mRNA_GZMB	mRNA	GZMB	YES	17
666	mRNA_EEF2K	mRNA	EEF2K	YES	29
667	STV_ADAR	STV	ADAR	YES	41

668	METH_COG5	METH	COG5	YES	14
668	STV_VLDLR.AS1	STV	VLDLR.AS1	NO	0
669	mRNA_LINC00704	mRNA	LINC00704	NO	0
670	mRNA_CNGB1	mRNA	CNGB1	YES	40
670	mRNA_MSN	mRNA	MSN	YES	57
671	STV_UBP1	STV	UBP1	YES	13
673	mRNA_NRL	mRNA	NRL	YES	20
674	mRNA_FMNL1	mRNA	FMNL1	YES	27
675	mirna_MIR521	miRNA	MIR521	NO	0
676	CNV_TOR1A	CNV	TOR1A	YES	50
676	mRNA_FPR2	mRNA	FPR2	YES	34
677	METH_LARP7	METH	LARP7	YES	9
677	METH_ZNF541	METH	ZNF541	YES	15
678	mirna_MIR15A	miRNA	MIR15A	YES	15
679	STV_CLIC1	STV	CLIC1	YES	29
680	METH_TAF5	METH	TAF5	YES	22
681	mRNA_P2RY10	mRNA	P2RY10	YES	12
681	mRNA_PLEKHG3	mRNA	PLEKHG3	YES	3
682	mRNA_IRF8	mRNA	IRF8	YES	31
683	STV_FBXO28	STV	FBXO28	YES	5
685	mRNA_PITPNM2	mRNA	PITPNM2	YES	13
689	mRNA_IL2RB	mRNA	IL2RB	YES	19
690	mRNA_P2RX5	mRNA	P2RX5	YES	23
691	mRNA_PTGS2	mRNA	PTGS2	YES	100
692	mRNA_MIR205HG	mRNA	MIR205HG	NO	0
693	METH_SLC6A12	METH	SLC6A12	YES	16
693	mRNA_SCIMP	mRNA	SCIMP	YES	8
695	mRNA_ARRB2	mRNA	ARRB2	YES	86
696	mRNA_GREB1	mRNA	GREB1	YES	3
697	mRNA_FCER1G	mRNA	FCER1G	YES	54
698	mRNA_ZNF165	mRNA	ZNF165	YES	8
698	mRNA_HNRNPA1P21	mRNA	HNRNPA1P21	NO	0
699	mRNA_CLPSL1	mRNA	CLPSL1	YES	6
700	mRNA_AMPD3	mRNA	AMPD3	YES	22
702	mRNA_POLR3E	mRNA	POLR3E	YES	12
702	mRNA_FBLIM1	mRNA	FBLIM1	YES	16
703	STV_PARD6A	STV	PARD6A	YES	32
705	mRNA_HVCN1	mRNA	HVCN1	YES	22
706	mRNA_GNAI2	mRNA	GNAI2	YES	43
707	mRNA_STEAP1B	mRNA	STEAP1B	YES	4
707	mRNA_FAM47E	mRNA	FAM47E	YES	3
708	mRNA_PPP2R3B	mRNA	PPP2R3B	YES	12
709	mRNA_IFI30	mRNA	IFI30	YES	14
710	mRNA_CTD-2186M15.3	mRNA	CTD-2186M15.3	NO	0
711	mRNA_RP11-174G6.5	mRNA	RP11-174G6.5	NO	0
712	mirna_MIR548T	miRNA	MIR548T	NO	0
715	mRNA_CYP26B1	mRNA	CYP26B1	YES	39
716	mRNA_C1orf74	mRNA	C1orf74	NO	0
717	mRNA_PADI1	mRNA	PADI1	YES	11
718	mRNA_MICALL1	mRNA	MICALL1	YES	26
718	STV_NLGN3	STV	NLGN3	YES	51
719	mRNA_TLE3	mRNA	TLE3	YES	9
719	STV_CEACAM21	STV	CEACAM21	YES	2
721	mRNA_ZDHHC5	mRNA	ZDHHC5	YES	12
721	mRNA_GPC5	mRNA	GPC5	YES	17
722	METH_AC009133.24	METH	AC009133.24	NO	0
722	mRNA_FCRL2	mRNA	FCRL2	YES	7
723	STV_IGHV3.52	STV	IGHV3.52	NO	0
724	mRNA_TMEM156	mRNA	TMEM156	YES	2
724	mRNA_TIGIT	mRNA	TIGIT	YES	17

725	mRNA_SLC6A14	mRNA	SLC6A14	YES	18
726	STV_C2CD4B	STV	C2CD4B	YES	4
727	mRNA_CDK2AP1	mRNA	CDK2AP1	YES	9
727	mRNA_MTFR1L	mRNA	MTFR1L	YES	4
728	mRNA_CD109	mRNA	CD109	YES	22
728	mRNA_RP11-356I2.4	mRNA	RP11-356I2.4	NO	0
730	mRNA_DCUN1D3	mRNA	DCUN1D3	YES	16
731	mRNA_URB1-AS1	mRNA	URB1-AS1	NO	0
732	METH_ENSA	METH	ENSA	YES	22
734	mRNA_CTD-2015H6.3	mRNA	CTD-2015H6.3	NO	0
736	METH_EMC7	METH	EMC7	YES	6
738	STV_SIDT2	STV	SIDT2	YES	13
739	METH_MAPK9	METH	MAPK9	YES	71
741	mRNA_HNRNPCP1	mRNA	HNRNPCP1	NO	0
742	STV_GPSM1	STV	GPSM1	YES	18
744	METH_C17orf75	METH	C17orf75	YES	3
744	mRNA_STAT4	mRNA	STAT4	YES	17
745	METH_HMGCL	METH	HMGCL	YES	26
746	mRNA_THBD	mRNA	THBD	YES	23
747	mRNA_ZNF101	mRNA	ZNF101	YES	8
749	mRNA_PITPNM3	mRNA	PITPNM3	YES	15
752	METH_TMEM101	METH	TMEM101	YES	6
752	mirna_MIR195	miRNA	MIR195	YES	7
753	mRNA_ITGAX	mRNA	ITGAX	YES	19
754	mRNA_H1FX	mRNA	H1FX	YES	8
755	mRNA_CCR2	mRNA	CCR2	YES	53
756	STV_LYN	STV	LYN	YES	134
757	mRNA_TNFAIP8L2	mRNA	TNFAIP8L2	YES	6
758	mRNA_LMAN2L	mRNA	LMAN2L	YES	13
759	STV_PSMG3	STV	PSMG3	YES	1
760	METH_KRT81	METH	KRT81	YES	8
760	STV_SOX6	STV	SOX6	YES	38
761	mRNA_KDF1	mRNA	KDF1	YES	17
762	STV_RP11.294C11.2	STV	RP11.294C11.2	NO	0
763	METH_BLK	METH	BLK	YES	26
763	mRNA_RP11-259O2.1	mRNA	RP11-259O2.1	NO	0
764	METH_MAN2A2	METH	MAN2A2	YES	19
765	STV_FBRSL1	STV	FBRSL1	YES	1
768	mRNA_PCED1B	mRNA	PCED1B	YES	1
768	mRNA_RP11-723O4.6	mRNA	RP11-723O4.6	NO	0
769	mRNA_MT-ND4	mRNA	MT-ND4	YES	19
770	mRNA_AR	mRNA	AR	YES	97
771	STV_ITPKA	STV	ITPKA	YES	19
772	mRNA_C16orf54	mRNA	C16orf54	YES	2
773	mRNA_NRG1	mRNA	NRG1	YES	96
773	mRNA_CLEC12A	mRNA	CLEC12A	YES	7
774	mRNA_SSR3	mRNA	SSR3	YES	7
774	STV_GK2	STV	GK2	YES	18
775	mRNA_TNKS1BP1	mRNA	TNKS1BP1	YES	21
776	mRNA_PI15	mRNA	PI15	YES	6
780	mRNA_SATB1-AS1	mRNA	SATB1-AS1	NO	0
780	mRNA_LYN	mRNA	LYN	YES	134
781	mRNA_DGUOK-AS1	mRNA	DGUOK-AS1	NO	0
782	mRNA_PTHLH	mRNA	PTHLH	YES	30
782	mRNA_ZC3H12D	mRNA	ZC3H12D	YES	11
784	mRNA_HOXB6	mRNA	HOXB6	YES	13
784	mRNA_SATB1	mRNA	SATB1	YES	29
785	STV_HNRNPCL4	STV	HNRNPCL4	YES	3
785	STV_LIPA	STV	LIPA	YES	19
786	mRNA_ZNF831	mRNA	ZNF831	YES	10

787	METH_PKP3	METH	PKP3	YES	22
787	mRNA_RASGRP1	mRNA	RASGRP1	YES	49
788	STV_MCMDC2	STV	MCMDC2	YES	9
790	mRNA_FGF17	mRNA	FGF17	YES	25
791	mRNA_C10orf82	mRNA	C10orf82	NO	0
792	mRNA_PIK3CD	mRNA	PIK3CD	YES	53
795	STV_SLC7A6	STV	SLC7A6	YES	17
796	mRNA_MCCC2	mRNA	MCCC2	YES	15
796	STV_IGLV3.21	STV	IGLV3.21	NO	0
798	mRNA_RP11-624M8.1	mRNA	RP11-624M8.1	NO	0
799	mRNA_CCL17	mRNA	CCL17	YES	23
800	METH_C20orf203	METH	C20orf203	NO	0
800	STV_RBM38	STV	RBM38	YES	17
801	mRNA_COL6A5	mRNA	COL6A5	YES	7
801	mRNA_LINC01480	mRNA	LINC01480	NO	0
802	mRNA_DHRS7B	mRNA	DHRS7B	YES	8
802	mRNA_CIB2	mRNA	CIB2	YES	24
803	METH_TP53AIP1	METH	TP53AIP1	YES	5
804	mRNA_AE000661.37	mRNA	AE000661.37	NO	0
805	METH_FBXL19.AS1	METH	FBXL19.AS1	NO	0
806	mirna_MIR4687	miRNA	MIR4687	NO	0
806	mRNA_TRPM2-AS	mRNA	TRPM2-AS	NO	0
808	mirna_MIR526A	miRNA	MIR526A	NO	0
809	mRNA_LINC00939	mRNA	LINC00939	NO	0
809	STV_TFAP2B	STV	TFAP2B	YES	64
810	mRNA_GNB1	mRNA	GNB1	YES	44
811	STV_ECEL1	STV	ECEL1	YES	11
812	mRNA_GJB3	mRNA	GJB3	YES	17
817	mRNA_NINL	mRNA	NINL	YES	12
818	mRNA_CD79A	mRNA	CD79A	YES	20
819	mRNA_CNOT3	mRNA	CNOT3	YES	18
819	mRNA_LRRC29	mRNA	LRRC29	YES	1
820	mRNA_SLC25A19	mRNA	SLC25A19	YES	16
820	mRNA_AC005082.12	mRNA	AC005082.12	NO	0
822	mRNA_PILRA	mRNA	PILRA	YES	11
824	mRNA_HLA-DRB5	mRNA	HLA-DRB5	YES	29
824	mRNA_HIST1H2BG	mRNA	HIST1H2BG	YES	17
825	mRNA_RAB6C	mRNA	RAB6C	YES	18
826	STV_DCD	STV	DCD	YES	12
827	mRNA_STAT5A	mRNA	STAT5A	YES	66
828	mRNA_CCDC92	mRNA	CCDC92	YES	7
829	METH_CLCA2	METH	CLCA2	YES	23
829	STV_MBL3P	STV	MBL3P	NO	0
830	mRNA_CD1E	mRNA	CD1E	YES	20
831	mRNA_H3F3B	mRNA	H3F3B	YES	45
832	mRNA_ICAM3	mRNA	ICAM3	YES	14
834	mRNA_CNR2	mRNA	CNR2	YES	28
836	STV_DDX3Y	STV	DDX3Y	YES	18
837	mRNA_PDPN	mRNA	PDPN	YES	53
838	mRNA_NCF1C	mRNA	NCF1C	NO	0
838	STV_TPTE2P5	STV	TPTE2P5	NO	0
839	mRNA_GMFG	mRNA	GMFG	YES	16
839	mRNA_AF001548.5	mRNA	AF001548.5	NO	0
840	STV_SLC25A22	STV	SLC25A22	YES	15
841	mRNA_SSTR3	mRNA	SSTR3	YES	30
841	STV_MRPS21	STV	MRPS21	YES	5
842	mRNA_MIPOL1	mRNA	MIPOL1	YES	3
842	mRNA_TIFAB	mRNA	TIFAB	YES	22
843	mRNA_GAS2L1	mRNA	GAS2L1	YES	16
844	mRNA_ARIH2OS	mRNA	ARIH2OS	YES	2

844	STV_HUS1	STV	HUS1	YES	25
845	METH_AGPAT2	METH	AGPAT2	YES	20
851	mRNA_TBXAS1	mRNA	TBXAS1	YES	26
851	STV_DEFB115	STV	DEFB115	YES	5
852	mRNA_ZNF542P	mRNA	ZNF542P	NO	0
853	METH_CCDC13	METH	CCDC13	YES	13
856	METH_CCER1	METH	CCER1	YES	1
856	mRNA_CCL5	mRNA	CCL5	YES	88
857	mRNA_ECEL1	mRNA	ECEL1	YES	11
858	mRNA_SLC38A5	mRNA	SLC38A5	YES	11
859	mRNA_VPS37C	mRNA	VPS37C	YES	18
860	mRNA_IL27RA	mRNA	IL27RA	YES	15
860	mRNA_C9orf84	mRNA	C9orf84	NO	0
861	mRNA_RGS1	mRNA	RGS1	YES	16
861	mRNA_TTLL1	mRNA	TTLL1	YES	13
862	mRNA_ARID5A	mRNA	ARID5A	YES	22
863	mRNA_ARHGAP30	mRNA	ARHGAP30	YES	8
864	mRNA_CAPS	mRNA	CAPS	YES	5
864	mRNA_AC016700.5	mRNA	AC016700.5	NO	0
865	mRNA_EFNA4	mRNA	EFNA4	YES	13
866	STV_NTS	STV	NTS	YES	7
868	mRNA_RND3	mRNA	RND3	YES	13
870	mRNA_CARD8-AS1	mRNA	CARD8-AS1	NO	0
871	CNV_LINC00963	CNV	LINC00963	NO	0
871	mRNA_MMP25	mRNA	MMP25	YES	18
872	mRNA_ZNF135	mRNA	ZNF135	YES	10
873	STV_PMS2CL	STV	PMS2CL	NO	0
875	METH_YPEL1	METH	YPEL1	YES	4
875	mRNA_DUSP16	mRNA	DUSP16	YES	18
877	mRNA_HCK	mRNA	HCK	YES	61
877	mRNA_HNRNPA1	mRNA	HNRNPA1	YES	34
878	mRNA_HMGN2P17	mRNA	HMGN2P17	NO	0
879	mRNA_KIAA1244	mRNA	KIAA1244	YES	7
880	mRNA_FLT3LG	mRNA	FLT3LG	YES	26
880	mRNA_RP11-483P21.2	mRNA	RP11-483P21.2	NO	0
881	mRNA_CCR1	mRNA	CCR1	YES	38
881	STV_MTL5	STV	MTL5	YES	9
883	mRNA_ABCA7	mRNA	ABCA7	YES	41
884	STV_CSRP2	STV	CSRP2	YES	7
885	mRNA_NUCB2	mRNA	NUCB2	YES	12
885	mRNA_CCNA1	mRNA	CCNA1	YES	15
886	METH_EMC10	METH	EMC10	YES	4
888	mRNA_TNFRSF13B	mRNA	TNFRSF13B	YES	14
889	mRNA_ACP5	mRNA	ACP5	YES	23
891	mirna_MIR516B	miRNA	MIR516B	NO	0
892	mRNA_TM9SF3	mRNA	TM9SF3	YES	2
892	mRNA_CCZ1B	mRNA	CCZ1B	YES	8
893	METH_TSC1	METH	TSC1	YES	63
894	mRNA_SRSF7	mRNA	SRSF7	YES	21
894	STV_TRBV5.5	STV	TRBV5.5	NO	0
895	mRNA_CD244	mRNA	CD244	YES	21
896	mirna_MIR520H	miRNA	MIR520H	NO	0
897	STV_CES1P1	STV	CES1P1	NO	0
899	STV_EBI3	STV	EBI3	YES	15
901	mRNA_LIPA	mRNA	LIPA	YES	19
902	mirna_MIR641	miRNA	MIR641	NO	0
903	mRNA_CR1	mRNA	CR1	YES	26
905	mRNA_IDH1-AS1	mRNA	IDH1-AS1	NO	0
906	STV_CLDN9	STV	CLDN9	YES	14
907	mRNA_RP4-769N13.6	mRNA	RP4-769N13.6	NO	0

908	METH_PADI1	METH	PADI1	YES	11
909	mRNA_SRGN	mRNA	SRGN	YES	21
910	METH_UGDH	METH	UGDH	YES	16
910	STV_RAB3GAP1	STV	RAB3GAP1	YES	31
912	METH_APOD	METH	APOD	YES	36
912	mRNA_CXorf40B	mRNA	CXorf40B	NO	0
913	mRNA_HNRNPD	mRNA	HNRNPD	YES	51
914	mRNA_FCRL6	mRNA	FCRL6	YES	4
916	METH_RNU2.17P	METH	RNU2.17P	NO	0
916	mRNA_BCDIN3D	mRNA	BCDIN3D	YES	12
917	mRNA_AC007879.7	mRNA	AC007879.7	NO	0
918	mRNA_HOXB5	mRNA	HOXB5	YES	19
918	mRNA_CTC-329D1.2	mRNA	CTC-329D1.2	NO	0
919	METH_ZCWPW1	METH	ZCWPW1	YES	2
920	mRNA_SERPINB1	mRNA	SERPINB1	YES	11
921	mRNA_CALML5	mRNA	CALML5	YES	8
922	STV_EIF3K	STV	EIF3K	YES	16
923	STV_TMEM248	STV	TMEM248	YES	3
924	METH_PLA2G4E.AS1	METH	PLA2G4E.AS1	NO	0
925	STV_CEP72	STV	CEP72	YES	15
932	mRNA_ITGAE	mRNA	ITGAE	YES	9
932	mRNA_PITPNA-AS1	mRNA	PITPNA-AS1	NO	0
933	STV_C2orf27A	STV	C2orf27A	NO	0
934	mRNA_CLEC10A	mRNA	CLEC10A	YES	9
934	mRNA_HCLS1	mRNA	HCLS1	YES	33
935	mRNA_LRPAP1	mRNA	LRPAP1	YES	31
935	STV_RNF11	STV	RNF11	YES	17
937	mRNA_SEC16A	mRNA	SEC16A	YES	13
938	mRNA_SLITRK6	mRNA	SLITRK6	YES	26
938	mRNA_FAM212A	mRNA	FAM212A	YES	7
939	mRNA_SELPLG	mRNA	SELPLG	YES	16
940	mRNA_COQ7	mRNA	COQ7	YES	17
940	mRNA_LINC00959	mRNA	LINC00959	NO	0
942	mRNA_RP11-417E7.1	mRNA	RP11-417E7.1	NO	0
944	mRNA_ACOX3	mRNA	ACOX3	YES	19
945	mRNA_C1orf162	mRNA	C1orf162	YES	2
946	METH_AGR2	METH	AGR2	YES	20
947	mRNA_C19orf45	mRNA	C19orf45	NO	0
948	mRNA_FUT7	mRNA	FUT7	YES	15
949	mRNA_C1orf21	mRNA	C1orf21	YES	1
949	STV_GJD4	STV	GJD4	YES	8
950	mRNA_STK11IP	mRNA	STK11IP	YES	4
950	mRNA_HSPB2	mRNA	HSPB2	YES	9
952	mirna_MIR548D	miRNA	MIR548D	NO	0
953	mirna_MIR518A	miRNA	MIR518A	NO	0
954	mRNA_GPR55	mRNA	GPR55	YES	16
955	mRNA_ODF3L1	mRNA	ODF3L1	NO	0
957	mRNA_SMCO2	mRNA	SMCO2	YES	2
957	mRNA_EMR4P	mRNA	EMR4P	NO	0
958	mRNA_DENND3	mRNA	DENND3	YES	7
959	mRNA_RALB	mRNA	RALB	YES	29
960	mRNA_LAT	mRNA	LAT	YES	34
963	mRNA_ACOT7	mRNA	ACOT7	YES	20
964	mRNA_ACVR2B-AS1	mRNA	ACVR2B-AS1	NO	0
965	mRNA_TNFAIP3	mRNA	TNFAIP3	YES	78
965	mRNA_SEMA3B-AS1	mRNA	SEMA3B-AS1	NO	0
966	mRNA_ITGAL	mRNA	ITGAL	YES	30
969	mRNA_SIPA1L3	mRNA	SIPA1L3	YES	15
970	mRNA_ATP1A4	mRNA	ATP1A4	YES	24
971	STV_C11orf80	STV	C11orf80	YES	4

972	mRNA_FOXA1	mRNA	FOXA1	YES	54
972	mRNA_CXCR6	mRNA	CXCR6	YES	16
973	CNV_NTMT1	CNV	NTMT1	YES	20
973	mRNA_CDH3	mRNA	CDH3	YES	29
974	mRNA_AQP5	mRNA	AQP5	YES	21
975	METH_RP11.1149O23.3	METH	RP11.1149O23.3	NO	0
975	mRNA_FOXP1	mRNA	FOXP1	YES	74
977	METH_BHMT2	METH	BHMT2	YES	15
977	mRNA_AP001062.7	mRNA	AP001062.7	NO	0
978	mRNA_CCR10	mRNA	CCR10	YES	16
978	mRNA_AC144450.1	mRNA	AC144450.1	NO	0
980	mRNA_MMP13	mRNA	MMP13	YES	23
981	METH_AOC1	METH	AOC1	YES	34
981	mRNA_AC093642.5	mRNA	AC093642.5	NO	0
983	STV_RP11.463C8.4	STV	RP11.463C8.4	NO	0
984	mRNA_AES	mRNA	AES	YES	20
984	STV_RP11.411B10.5	STV	RP11.411B10.5	NO	0
985	METH_CDKL1	METH	CDKL1	YES	16
986	mRNA_NCF1	mRNA	NCF1	YES	45
987	METH_HIST1H2AC	METH	HIST1H2AC	YES	10
988	METH_EHF	METH	EHF	YES	17
989	mirna_MIR141	miRNA	MIR141	YES	6
990	METH_LRRC32	METH	LRRC32	YES	12
993	mRNA_SLC7A5	mRNA	SLC7A5	YES	25
995	mRNA_RP11-876N24.4	mRNA	RP11-876N24.4	NO	0
996	STV_IRF6	STV	IRF6	YES	25
997	mRNA_MS4A6A	mRNA	MS4A6A	YES	2
997	STV_MAPK12	STV	MAPK12	YES	33
998	mirna_MIR516A	miRNA	MIR516A	NO	0
998	mRNA_PTPN7	mRNA	PTPN7	YES	12
999	mRNA_PLXNA1	mRNA	PLXNA1	YES	16
1000	METH_LRFN3	METH	LRFN3	YES	15
1001	METH_SLC2A5	METH	SLC2A5	YES	27
1002	mRNA_BTK	mRNA	BTK	YES	61
1002	STV_PAEP	STV	PAEP	YES	11
1003	mirna_MIR4736	miRNA	MIR4736	NO	0
1003	mRNA_CD48	mRNA	CD48	YES	18
1005	mirna_MIR517A	miRNA	MIR517A	NO	0
1006	STV_LY6G6C	STV	LY6G6C	YES	10
1007	mirna_MIR518F	miRNA	MIR518F	NO	0
1008	mRNA_RAP2B	mRNA	RAP2B	YES	26
1008	mRNA_CLEC2L	mRNA	CLEC2L	YES	3
1011	mRNA_VWA2	mRNA	VWA2	YES	10
1012	mRNA_HLA-DPB1	mRNA	HLA-DPB1	YES	31
1013	STV_TNNC2	STV	TNNC2	YES	11
1014	mRNA_GRAP	mRNA	GRAP	YES	16
1015	mRNA_UPRT	mRNA	UPRT	YES	14
1015	mRNA_TNFRSF19	mRNA	TNFRSF19	YES	13
1016	METH_MET	METH	MET	YES	50
1017	mRNA_CAPN1	mRNA	CAPN1	YES	29
1018	STV_CBLL1	STV	CBLL1	YES	18
1020	STV_DPP9.AS1	STV	DPP9.AS1	NO	0
1021	mRNA_CNTNAP3	mRNA	CNTNAP3	YES	6
1022	CNV_snoU13.ENSG00000238298.1	CNV	snoU13.ENSG00000238298.1	NO	0
1023	mRNA_PCDHGA9	mRNA	PCDHGA9	YES	11
1025	mRNA_FAM65B	mRNA	FAM65B	YES	6
1026	mRNA_RAB27B	mRNA	RAB27B	YES	25
1028	mRNA_ITGB6	mRNA	ITGB6	YES	23
1029	mRNA_C19orf47	mRNA	C19orf47	YES	2
1030	mRNA_DMRT2	mRNA	DMRT2	YES	18

1031	mirna_MIR516A	miRNA	MIR516A	NO	0
1031	mRNA_NAIP	mRNA	NAIP	YES	29
1032	mRNA_APBB1IP	mRNA	APBB1IP	YES	14
1032	STV_FAM86HP	STV	FAM86HP	NO	0
1033	mRNA_WFDC2	mRNA	WFDC2	YES	12
1035	mRNA_CYP1B1	mRNA	CYP1B1	YES	53
1035	STV_ROGDI	STV	ROGDI	YES	8
1036	mRNA_PYROXD2	mRNA	PYROXD2	YES	4
1037	mRNA_WFS1	mRNA	WFS1	YES	45
1038	mRNA_ITPRIP	mRNA	ITPRIP	YES	6
1038	mRNA_IRAK4	mRNA	IRAK4	YES	33
1039	mRNA_CYTH4	mRNA	CYTH4	YES	9
1040	mRNA_HLA-DPB2	mRNA	HLA-DPB2	NO	0
1041	STV_C8orf58	STV	C8orf58	YES	1
1043	mRNA_ADAMTS17	mRNA	ADAMTS17	YES	10
1044	STV_HRAS	STV	HRAS	YES	74
1047	METH_PIGR	METH	PIGR	YES	17
1047	mRNA_PLEC	mRNA	PLEC	YES	23
1048	mRNA_SLC7A10	mRNA	SLC7A10	YES	19
1049	METH_MMP27	METH	MMP27	YES	13
1049	mRNA_CACNA1D	mRNA	CACNA1D	YES	35
1050	STV_ANKRD9	STV	ANKRD9	YES	2
1050	STV_MTPN	STV	MTPN	YES	23
1051	mRNA_RP11-502I4.3	mRNA	RP11-502I4.3	NO	0
1052	METH_TRAP1	METH	TRAP1	YES	22
1053	mRNA_IGSF3	mRNA	IGSF3	YES	7
1055	mRNA_DEF6	mRNA	DEF6	YES	11
1055	mRNA_PTPRC	mRNA	PTPRC	YES	66
1056	mRNA_SPTY2D1-AS1	mRNA	SPTY2D1-AS1	YES	2
1056	STV_UCN2	STV	UCN2	YES	17
1057	mRNA_RAB5B	mRNA	RAB5B	YES	25
1058	mRNA_TBC1D16	mRNA	TBC1D16	YES	9
1059	mRNA_SLC7A4	mRNA	SLC7A4	YES	9
1059	mRNA_RP11-964E11.2	mRNA	RP11-964E11.2	NO	0
1060	mRNA_ABCA3	mRNA	ABCA3	YES	20
1064	STV_USHBP1	STV	USHBP1	YES	2
1066	mRNA_EMC10	mRNA	EMC10	YES	4
1066	mRNA_NUP50-AS1	mRNA	NUP50-AS1	NO	0
1067	mRNA_CD86	mRNA	CD86	YES	48
1068	mRNA_NHLH2	mRNA	NHLH2	YES	20
1069	mRNA_ARHGAP15	mRNA	ARHGAP15	YES	9
1069	mRNA_HLCS	mRNA	HLCS	YES	27
1070	mRNA_KIAA0922	mRNA	KIAA0922	YES	1
1071	STV_LINC00862	STV	LINC00862	NO	0
1073	METH_HSP90AA1	METH	HSP90AA1	YES	65
1073	mRNA_RHOV	mRNA	RHOV	YES	13
1074	mRNA_CD274	mRNA	CD274	YES	23
1075	METH_HYAL2	METH	HYAL2	YES	67
1076	mRNA_MUL1	mRNA	MUL1	YES	43
1076	mRNA_SIRPB1	mRNA	SIRPB1	YES	11
1077	mRNA_ARHGEF35	mRNA	ARHGEF35	NO	0
1078	METH_NKX3.2	METH	NKX3.2	NO	0
1080	mRNA_SH2D1B	mRNA	SH2D1B	YES	11
1081	mRNA_U47924.31	mRNA	U47924.31	NO	0
1083	mRNA_KIAA0125	mRNA	KIAA0125	NO	0
1085	mRNA_TNFRSF1B	mRNA	TNFRSF1B	YES	34
1085	mRNA_SH3PXD2A	mRNA	SH3PXD2A	YES	15
1086	STV_RP11.155G14.6	STV	RP11.155G14.6	NO	0
1089	METH_CXADR	METH	CXADR	YES	49
1092	mRNA_AC079767.4	mRNA	AC079767.4	NO	0

1093	mRNA_SAMD3	mRNA	SAMD3	YES	1
1093	mRNA_RP3-483K16.4	mRNA	RP3-483K16.4	NO	0
1094	STV_LIMD2	STV	LIMD2	YES	4
1095	mRNA_ZNF331	mRNA	ZNF331	YES	8
1095	mRNA_MPEG1	mRNA	MPEG1	YES	2
1096	mRNA_NECAP2	mRNA	NECAP2	YES	10
1097	mRNA_SSR4P1	mRNA	SSR4P1	NO	0
1097	STV_ACKR4	STV	ACKR4	YES	19
1098	mRNA_CD300C	mRNA	CD300C	YES	9
1099	mRNA_LILRA5	mRNA	LILRA5	YES	7
1099	STV_TNFRSF18	STV	TNFRSF18	YES	22
1100	mRNA_DACH1	mRNA	DACH1	YES	26
1101	mRNA_XCR1	mRNA	XCR1	YES	14
1102	mRNA_SMPD3	mRNA	SMPD3	YES	20
1102	STV_SPATA32	STV	SPATA32	YES	3
1103	METH_HCG9	METH	HCG9	NO	0
1104	mRNA_RP11-750H9.5	mRNA	RP11-750H9.5	NO	0
1106	METH_ATF7IP2	METH	ATF7IP2	YES	6
1108	mRNA_POU2F2	mRNA	POU2F2	YES	21
1109	mRNA_ACSF3	mRNA	ACSF3	YES	15
1110	mRNA_DSE	mRNA	DSE	YES	12
1110	STV_RP11.499P20.2	STV	RP11.499P20.2	NO	0
1111	mRNA_PKIB	mRNA	PKIB	YES	10
1112	mRNA_RP11-486B10.4	mRNA	RP11-486B10.4	NO	0
1112	mRNA_SH3RF3-AS1	mRNA	SH3RF3-AS1	NO	0
1113	mRNA_SIRPG	mRNA	SIRPG	YES	13
1114	mRNA_LSM6	mRNA	LSM6	YES	22
1115	mRNA_CYP2T1P	mRNA	CYP2T1P	NO	0
1115	STV_ZNF620	STV	ZNF620	YES	7
1117	mRNA_CD68	mRNA	CD68	YES	10
1117	mRNA_GBGT1	mRNA	GBGT1	YES	14
1119	mRNA_NAGK	mRNA	NAGK	YES	14
1121	mRNA_ITK	mRNA	ITK	YES	33
1122	mRNA_TNFRSF18	mRNA	TNFRSF18	YES	22
1123	mRNA_BATF	mRNA	BATF	YES	26
1123	STV_RPRML	STV	RPRML	YES	2
1124	mRNA_FGR	mRNA	FGR	YES	54
1125	mRNA_GYS1	mRNA	GYS1	YES	16
1125	mRNA_CMKLR1	mRNA	CMKLR1	YES	20
1126	mRNA_SIRPB2	mRNA	SIRPB2	YES	2
1127	METH_TSHZ1	METH	TSHZ1	YES	15
1128	METH_ASB5	METH	ASB5	YES	7
1128	mRNA_FCGR2B	mRNA	FCGR2B	YES	58
1129	mRNA_CCL13	mRNA	CCL13	YES	28
1130	mRNA_CTC-205M6.1	mRNA	CTC-205M6.1	NO	0
1131	mRNA_PXN	mRNA	PXN	YES	32
1132	mRNA_CTD-2020K17.1	mRNA	CTD-2020K17.1	NO	0
1133	mRNA_IL18RAP	mRNA	IL18RAP	YES	10
1133	mRNA_FZD6	mRNA	FZD6	YES	37
1134	mRNA_STAB1	mRNA	STAB1	YES	19
1134	mRNA_CCND3	mRNA	CCND3	YES	21
1135	METH_PTRH2	METH	PTRH2	YES	11
1135	mRNA_SH2D2A	mRNA	SH2D2A	YES	12
1136	mRNA_NFATC2	mRNA	NFATC2	YES	38
1137	mRNA_KREMEN2	mRNA	KREMEN2	YES	9
1137	STV_RPS29	STV	RPS29	YES	21
1138	mRNA_C5AR1	mRNA	C5AR1	YES	46
1142	STV_CLLU1	STV	CLLU1	YES	1
1143	STV_H2AFJ	STV	H2AFJ	YES	10
1144	METH_KRT38	METH	KRT38	YES	7

1145	METH_HIST1H3J	METH	HIST1H3J	YES	32
1145	mRNA_RABGEF1	mRNA	RABGEF1	YES	20
1146	METH_LRPPRC	METH	LRPPRC	YES	30
1146	mRNA_IGSF22	mRNA	IGSF22	YES	11
1147	STV_BFAR	STV	BFAR	YES	20
1149	mRNA_CDKN2D	mRNA	CDKN2D	YES	27
1153	mRNA_TNFRSF8	mRNA	TNFRSF8	YES	24
1154	mRNA_CDYL2	mRNA	CDYL2	YES	5
1155	STV_APH1B	STV	APH1B	YES	17
1156	mRNA_AP5B1	mRNA	AP5B1	YES	6
1158	mRNA_LY86	mRNA	LY86	YES	10
1159	mRNA_SLC10A3	mRNA	SLC10A3	YES	9
1160	STV_UQCC3	STV	UQCC3	YES	13
1161	mRNA_MIR635	mRNA	MIR635	NO	0
1161	STV_SPATA31A1	STV	SPATA31A1	YES	3
1162	mRNA_LEF1-AS1	mRNA	LEF1-AS1	NO	0
1162	mRNA_RP13-977J11.2	mRNA	RP13-977J11.2	NO	0
1163	mRNA_HTR7	mRNA	HTR7	YES	18
1166	STV_TRAV3	STV	TRAV3	YES	1
1167	mRNA_FAM53B	mRNA	FAM53B	YES	4
1168	mRNA_CLEC7A	mRNA	CLEC7A	YES	29
1168	mRNA_EPPK1	mRNA	EPPK1	YES	3
1169	mRNA_SLC2A10	mRNA	SLC2A10	YES	22
1171	mRNA_NCR3	mRNA	NCR3	YES	23
1171	mRNA_AC002467.7	mRNA	AC002467.7	NO	0
1173	STV_ESRP1	STV	ESRP1	YES	11
1175	mRNA_CDNF	mRNA	CDNF	YES	6
1175	mRNA_LILRB3	mRNA	LILRB3	YES	14
1177	mRNA_TBL2	mRNA	TBL2	YES	9
1177	mRNA_MYO1B	mRNA	MYO1B	YES	28
1178	METH_PRPS1L1	METH	PRPS1L1	YES	16
1178	mRNA_MAN2B1	mRNA	MAN2B1	YES	19
1179	STV_SNRPD3	STV	SNRPD3	YES	42
1180	CNV_SET	CNV	SET	YES	24
1181	METH_ELK3	METH	ELK3	YES	22
1182	METH_ADARB1	METH	ADARB1	YES	32
1182	STV_LCN15	STV	LCN15	YES	5
1183	STV_KAAG1	STV	KAAG1	YES	2
1185	STV_HOXD1	STV	HOXD1	YES	10
1186	STV_GJB3	STV	GJB3	YES	17
1187	STV_NTMT1	STV	NTMT1	YES	20
1188	mRNA_AC133644.2	mRNA	AC133644.2	NO	0
1189	mRNA_CCDC64B	mRNA	CCDC64B	YES	3
1191	mRNA_RP5-875H18.9	mRNA	RP5-875H18.9	NO	0
1192	mRNA_SOX15	mRNA	SOX15	YES	22
1192	mRNA_SEPN1	mRNA	SEPN1	YES	6
1196	METH_ACP1	METH	ACP1	YES	16
1196	mRNA_LIMA1	mRNA	LIMA1	YES	17
1198	mRNA_KLRD1	mRNA	KLRD1	YES	15
1199	METH_BMP1	METH	BMP1	YES	26
1199	METH_NEK7	METH	NEK7	YES	22
1200	mRNA_CR2	mRNA	CR2	YES	22
1201	mRNA_RP1-193H18.2	mRNA	RP1-193H18.2	NO	0
1202	mRNA_CACNA2D4	mRNA	CACNA2D4	YES	15
1203	mRNA_SLC7A8	mRNA	SLC7A8	YES	27
1203	mRNA_CD160	mRNA	CD160	YES	14
1205	mRNA_FSCN1	mRNA	FSCN1	YES	43
1205	mRNA_CSF2RA	mRNA	CSF2RA	YES	16
1207	mRNA_LIX1L	mRNA	LIX1L	YES	5
1208	mRNA_TTC39A	mRNA	TTC39A	YES	4

1209	STV_COQ3	STV	COQ3	YES	18
1210	mRNA_MFNG	mRNA	MFNG	YES	15
1210	STV_PCYOX1	STV	PCYOX1	YES	16
1214	STV_TRIM72	STV	TRIM72	YES	24
1216	METH_ITGAX	METH	ITGAX	YES	19
1218	mRNA_ITGB7	mRNA	ITGB7	YES	26
1218	mRNA_PDCD1	mRNA	PDCD1	YES	16
1219	mRNA_TPP1	mRNA	TPP1	YES	25
1220	mRNA_SIGLEC17P	mRNA	SIGLEC17P	NO	0
1221	METH_COL6A3	METH	COL6A3	YES	18
1223	mRNA_IKZF3	mRNA	IKZF3	YES	28
1224	mRNA_NFATC1	mRNA	NFATC1	YES	30
1224	STV_DPH3	STV	DPH3	YES	9
1225	STV_SRM	STV	SRM	YES	11
1226	METH_DEF6	METH	DEF6	YES	11
1228	METH_CDK5	METH	CDK5	YES	121
1228	STV_IFT57	STV	IFT57	YES	29
1229	mRNA_BZW2	mRNA	BZW2	YES	7
1230	mRNA_ATP1B2	mRNA	ATP1B2	YES	31
1230	STV_GRM2	STV	GRM2	YES	26
1232	mRNA_TRAF1	mRNA	TRAF1	YES	15
1233	mRNA_RIN3	mRNA	RIN3	YES	13
1233	mRNA_HIST3H2A	mRNA	HIST3H2A	YES	10
1234	mRNA_USB1	mRNA	USB1	YES	10
1234	STV_FKBP3	STV	FKBP3	YES	10
1235	mirna_MIR4446	miRNA	MIR4446	YES	1
1236	mRNA_PLCL2	mRNA	PLCL2	YES	18
1236	STV_RP11.125O5.2	STV	RP11.125O5.2	NO	0
1237	mRNA_SNX12	mRNA	SNX12	YES	17
1237	STV_RAPSN	STV	RAPSN	YES	22
1239	METH_TMEM229B	METH	TMEM229B	YES	2
1239	mRNA_HLA-DRB1	mRNA	HLA-DRB1	YES	64
1240	mRNA_TRAC	mRNA	TRAC	YES	2
1241	mRNA_CTC-523E23.3	mRNA	CTC-523E23.3	NO	0
1243	mRNA_MSR1	mRNA	MSR1	YES	24
1243	mRNA_GAS6	mRNA	GAS6	YES	95
1244	mRNA_RHCE	mRNA	RHCE	YES	7
1245	mRNA_RNF183	mRNA	RNF183	YES	9
1246	mRNA_VAV1	mRNA	VAV1	YES	40
1247	mirna_MIR521	miRNA	MIR521	NO	0
1247	mRNA_IL18	mRNA	IL18	YES	57
1248	mRNA_C1QC	mRNA	C1QC	YES	15
1250	mRNA_STK10	mRNA	STK10	YES	26
1254	METH_CRB3	METH	CRB3	YES	14
1254	STV_GOLGA8R	STV	GOLGA8R	YES	1
1255	mRNA_STMN1	mRNA	STMN1	YES	32
1256	mRNA_IFNAR2	mRNA	IFNAR2	YES	20
1257	mirna_MIR16	miRNA	MIR16	NO	0
1257	mRNA_Z97634.3	mRNA	Z97634.3	NO	0
1258	mirna_MIR6499	miRNA	MIR6499	NO	0
1259	mRNA_CCL19	mRNA	CCL19	YES	60
1260	mRNA_PIK3R5	mRNA	PIK3R5	YES	21
1260	mRNA_RP11-635N19.1	mRNA	RP11-635N19.1	NO	0
1261	mirna_MIR4501	miRNA	MIR4501	NO	0
1263	mRNA_MSX1	mRNA	MSX1	YES	62
1264	mirna_MIR548S	miRNA	MIR548S	NO	0
1266	mRNA_EPHB6	mRNA	EPHB6	YES	17
1267	mRNA_CCR4	mRNA	CCR4	YES	24
1268	mRNA_GDPGP1	mRNA	GDPGP1	YES	9
1269	mRNA_CD163L1	mRNA	CD163L1	YES	6

1271	mRNA_MYB	mRNA	MYB	YES	36
1271	STV_FAM187A	STV	FAM187A	YES	2
1272	CNV_CCBL1	CNV	CCBL1	YES	23
1273	CNV_ZER1	CNV	ZER1	YES	6
1273	mRNA_PDXDC1	mRNA	PDXDC1	YES	8
1274	mRNA_ZNF587B	mRNA	ZNF587B	YES	6
1275	mRNA_ESR1	mRNA	ESR1	YES	86
1275	mRNA_LINC01503	mRNA	LINC01503	NO	0
1276	mRNA_CFP	mRNA	CFP	YES	15
1276	mRNA_TRGV5	mRNA	TRGV5	YES	1
1279	mRNA_RAB5C	mRNA	RAB5C	YES	22
1279	STV_RP11.807H22.6	STV	RP11.807H22.6	NO	0
1280	mirna_MIR576	miRNA	MIR576	YES	1
1281	mRNA_RAG1	mRNA	RAG1	YES	38
1283	mRNA_CXCL13	mRNA	CXCL13	YES	38
1284	mRNA_TMEM87A	mRNA	TMEM87A	YES	4
1287	mRNA_PARVG	mRNA	PARVG	YES	11
1287	mRNA_PYHIN1	mRNA	PYHIN1	YES	4
1289	mRNA_LINC01144	mRNA	LINC01144	NO	0
1291	mRNA_SRSF2	mRNA	SRSF2	YES	25
1292	mRNA_GPR183	mRNA	GPR183	YES	25
1293	METH_RP11.145E5.5	METH	RP11.145E5.5	NO	0
1293	mRNA_RP11-353N14.2	mRNA	RP11-353N14.2	NO	0
1294	METH_CTBP1	METH	CTBP1	YES	36
1294	mRNA_SIK1	mRNA	SIK1	YES	33
1295	mRNA_PLCB2	mRNA	PLCB2	YES	19
1298	METH_BDH1	METH	BDH1	YES	27
1298	mRNA_CASS4	mRNA	CASS4	YES	7
1299	mRNA_RASAL3	mRNA	RASAL3	YES	14
1299	mRNA_SIRPA	mRNA	SIRPA	YES	10
1300	mRNA_PNP	mRNA	PNP	YES	33
1303	mRNA_EBI3	mRNA	EBI3	YES	15
1304	mRNA_CD52	mRNA	CD52	YES	9
1304	STV_ADORA3	STV	ADORA3	YES	19
1305	METH_FANCD2OS	METH	FANCD2OS	NO	0
1306	STV_GDF6	STV	GDF6	YES	22
1311	mRNA_SLC38A6	mRNA	SLC38A6	YES	10
1311	mRNA_CSF1R	mRNA	CSF1R	YES	60
1312	mRNA_FLI1	mRNA	FLI1	YES	23
1313	mRNA_SNAI3	mRNA	SNAI3	YES	15
1314	mRNA_MFN2	mRNA	MFN2	YES	28
1314	mRNA_YTHDF2	mRNA	YTHDF2	YES	12
1315	mRNA_DNAJB1	mRNA	DNAJB1	YES	22
1317	mRNA_RASGRP2	mRNA	RASGRP2	YES	22
1317	mRNA_MT-ND1	mRNA	MT-ND1	YES	19
1320	mRNA_SP140	mRNA	SP140	YES	14
1321	STV_KRTAP4.11	STV	KRTAP4.11	NO	0
1321	STV_TTC24	STV	TTC24	YES	1
1322	mRNA_SLC41A3	mRNA	SLC41A3	YES	8
1323	STV_ACTR10	STV	ACTR10	YES	12
1324	mRNA_CD40	mRNA	CD40	YES	63
1325	mRNA_SLC15A3	mRNA	SLC15A3	YES	14
1326	METH_ZSCAN16	METH	ZSCAN16	YES	8
1327	METH_AARS	METH	AARS	YES	28
1327	mRNA_PLEKHO2	mRNA	PLEKHO2	YES	3
1328	mRNA_PAK6	mRNA	PAK6	YES	27
1329	mRNA_IL31RA	mRNA	IL31RA	YES	32
1330	mRNA_PRSS16	mRNA	PRSS16	YES	11
1331	mRNA_SYK	mRNA	SYK	YES	93
1332	mRNA_PLCH2	mRNA	PLCH2	YES	20

1334	METH_ENOX1	METH	ENOX1	YES	10
1334	mRNA_EYA2	mRNA	EYA2	YES	27
1336	METH_RRM2	METH	RRM2	YES	20
1337	mRNA_PANX1	mRNA	PANX1	YES	34
1337	mRNA_MEX3D	mRNA	MEX3D	YES	9
1338	STV_BAMBI	STV	BAMBI	YES	18
1339	mRNA_IRF2	mRNA	IRF2	YES	20
1340	mRNA_TMEM42	mRNA	TMEM42	YES	2
1340	mRNA_LAMB3	mRNA	LAMB3	YES	14
1342	METH_KIAA1468	METH	KIAA1468	YES	2
1342	mRNA_CTC-523E23.11	mRNA	CTC-523E23.11	NO	0
1343	mirna_MIR548AW	miRNA	MIR548AW	NO	0
1343	STV_MVP	STV	MVP	YES	24
1346	STV_PRSS2	STV	PRSS2	YES	20
1347	METH_TFAP2B	METH	TFAP2B	YES	64
1347	STV_RP11.317G6.1	STV	RP11.317G6.1	NO	0
1348	mRNA_FAM78A	mRNA	FAM78A	NO	0
1348	STV_THBD	STV	THBD	YES	23
1349	mRNA_LGALS9C	mRNA	LGALS9C	YES	3
1351	METH_RP11.540D14.8	METH	RP11.540D14.8	NO	0
1353	mRNA_SLAMF1	mRNA	SLAMF1	YES	43
1353	mRNA_FNBP1	mRNA	FNBP1	YES	16
1354	METH_CD72	METH	CD72	YES	10
1356	STV_SYNGR4	STV	SYNGR4	YES	4
1357	STV_IRAK1BP1	STV	IRAK1BP1	YES	8
1358	METH_DTX3L	METH	DTX3L	YES	17
1359	mRNA_STRBP	mRNA	STRBP	YES	13
1360	STV_AGAP10P	STV	AGAP10P	NO	0
1361	CNV_ZDHHC12	CNV	ZDHHC12	YES	9
1361	mRNA_CTB-113I20.2	mRNA	CTB-113I20.2	NO	0
1362	mRNA_OCRL	mRNA	OCRL	YES	43
1363	METH_ANXA7	METH	ANXA7	YES	28
1364	METH_CAMSAP1	METH	CAMSAP1	YES	9
1364	STV_ANO4	STV	ANO4	YES	16
1365	mRNA_GNG7	mRNA	GNG7	YES	13
1366	METH_NOSIP	METH	NOSIP	YES	14
1366	mRNA_LAD1	mRNA	LAD1	YES	6
1367	METH_SLPI	METH	SLPI	YES	25
1367	mRNA_AACSP1	mRNA	AACSP1	NO	0
1368	mRNA_LINC01341	mRNA	LINC01341	NO	0
1369	mRNA_LAMA3	mRNA	LAMA3	YES	19
1371	mRNA_PKM	mRNA	PKM	YES	50
1371	mRNA_OMA1	mRNA	OMA1	YES	22
1372	mRNA_CYP4F23P	mRNA	CYP4F23P	NO	0
1374	mRNA_ICAM2	mRNA	ICAM2	YES	14
1374	mRNA_RPLP1P6	mRNA	RPLP1P6	NO	0
1375	mRNA_PFKFB4	mRNA	PFKFB4	YES	16
1376	mRNA_RPL3L	mRNA	RPL3L	YES	19
1376	mRNA_THYN1	mRNA	THYN1	YES	1
1378	METH_TBCD	METH	TBCD	YES	25
1378	mRNA_YKT6	mRNA	YKT6	YES	33
1380	mRNA_LGMN	mRNA	LGMN	YES	22
1381	STV_LENG1	STV	LENG1	YES	4
1381	STV_RP11.1267H10.3	STV	RP11.1267H10.3	NO	0
1382	mRNA_COL7A1	mRNA	COL7A1	YES	24
1385	mRNA_SCMH1	mRNA	SCMH1	YES	15
1386	METH_HIST1H2AG	METH	HIST1H2AG	YES	11
1387	STV_BAP1	STV	BAP1	YES	29
1389	STV_RP11.597A11.10	STV	RP11.597A11.10	NO	0
1391	mRNA_PSTPIP1	mRNA	PSTPIP1	YES	18

1393	mRNA_S100A11	mRNA	S100A11	YES	21
1393	mRNA_KBTBD8	mRNA	KBTBD8	YES	14
1394	METH_CASP8	METH	CASP8	YES	72
1394	mRNA_EXOC3-AS1	mRNA	EXOC3-AS1	NO	0
1395	mRNA_BCL11B	mRNA	BCL11B	YES	40
1396	mRNA_ENO1	mRNA	ENO1	YES	37
1396	mRNA_PSD2	mRNA	PSD2	YES	12
1397	mRNA_HIST2H2BE	mRNA	HIST2H2BE	YES	15
1399	mRNA_TRBV7-9	mRNA	TRBV7-9	YES	1
1401	METH_KRT80	METH	KRT80	YES	8
1401	mRNA_CYP1B1-AS1	mRNA	CYP1B1-AS1	NO	0
1402	mRNA_C22orf29	mRNA	C22orf29	YES	4
1403	mirna_MIR643	miRNA	MIR643	NO	0
1403	mRNA_OLFM2	mRNA	OLFM2	YES	14
1404	mRNA_ITGAM	mRNA	ITGAM	YES	26
1405	mRNA_PLTP	mRNA	PLTP	YES	10
1405	mRNA_RGS18	mRNA	RGS18	YES	7
1406	METH_TSHZ3	METH	TSHZ3	YES	25
1406	STV_MRPL47	STV	MRPL47	YES	14
1408	mRNA_C1orf228	mRNA	C1orf228	YES	1
1410	mRNA_SPAG7	mRNA	SPAG7	YES	2
1410	mRNA_LL22NC03-75H12.2	mRNA	LL22NC03-75H12.2	NO	0
1411	mRNA_LYPD6	mRNA	LYPD6	YES	14
1413	mRNA_SIGLEC1	mRNA	SIGLEC1	YES	11
1414	mRNA_WASF2	mRNA	WASF2	YES	32
1415	mRNA_RHOH	mRNA	RHOH	YES	22
1416	mirna_MIR520F	miRNA	MIR520F	NO	0
1417	mRNA_JAZF1	mRNA	JAZF1	YES	11
1421	mRNA_CCL8	mRNA	CCL8	YES	31
1422	mRNA_ACSL3	mRNA	ACSL3	YES	35
1422	STV_CKS1B	STV	CKS1B	YES	17
1423	METH_KRT86	METH	KRT86	YES	9
1423	mRNA_RNASE1	mRNA	RNASE1	YES	12
1424	mRNA_FGF9	mRNA	FGF9	YES	53
1424	STV_EMC6	STV	EMC6	YES	9
1425	STV_ACYP1	STV	ACYP1	YES	4
1425	STV_TRAJ26	STV	TRAJ26	NO	0
1428	mRNA_TCEAL4	mRNA	TCEAL4	YES	7
1428	STV_DPCD	STV	DPCD	YES	10
1429	STV_OGFR	STV	OGFR	YES	10
1430	mRNA_BZRAP1-AS1	mRNA	BZRAP1-AS1	NO	0
1431	mRNA_ISL1	mRNA	ISL1	YES	80
1432	mRNA_GJB5	mRNA	GJB5	YES	12
1433	STV_PDCD1	STV	PDCD1	YES	16
1434	mRNA_SRSF1	mRNA	SRSF1	YES	32
1435	STV_CCDC71	STV	CCDC71	NO	0
1436	mRNA_GNGT2	mRNA	GNGT2	YES	9
1437	STV_PM20D2	STV	PM20D2	YES	7
1438	mRNA_C12orf79	mRNA	C12orf79	NO	0
1439	METH_CCDC89	METH	CCDC89	YES	3
1439	STV_ZNF426	STV	ZNF426	YES	8
1440	mRNA_CA8	mRNA	CA8	YES	7
1444	METH_APOA1	METH	APOA1	YES	113
1444	STV_DOLPP1	STV	DOLPP1	YES	11
1445	mRNA_PPM1J	mRNA	PPM1J	YES	5
1446	mRNA_RP11-71E19.1	mRNA	RP11-71E19.1	NO	0
1446	mRNA_CTD-2555C10.3	mRNA	CTD-2555C10.3	NO	0
1448	STV_MYOZ2	STV	MYOZ2	YES	11
1449	mRNA_PTPN6	mRNA	PTPN6	YES	59
1450	METH_SRCAP	METH	SRCAP	YES	20

1450	STV_ZNF728	STV	ZNF728	YES	5
1453	METH_RASGRP3	METH	RASGRP3	YES	22
1453	mRNA_NTF4	mRNA	NTF4	YES	21
1454	mRNA_SLC52A3	mRNA	SLC52A3	YES	11
1455	mRNA_SLC7A3	mRNA	SLC7A3	YES	15
1456	METH_SEC14L4	METH	SEC14L4	YES	6
1456	mRNA_IRF6	mRNA	IRF6	YES	25
1457	mRNA_LINC01268	mRNA	LINC01268	NO	0
1459	STV_SDC3	STV	SDC3	YES	14
1460	mRNA_CD82	mRNA	CD82	YES	7
1460	mRNA_LILRA6	mRNA	LILRA6	YES	4
1461	METH_CTD.2371O3.3	METH	CTD.2371O3.3	NO	0
1461	mRNA_CXCR3	mRNA	CXCR3	YES	36
1462	mRNA_RP11-750B16.1	mRNA	RP11-750B16.1	NO	0
1463	mRNA_OGG1	mRNA	OGG1	YES	42
1465	mRNA_MEF2B	mRNA	MEF2B	YES	14
1466	STV_PRKCSH	STV	PRKCSH	YES	20
1467	mRNA_MS4A1	mRNA	MS4A1	YES	13
1468	mRNA_RNASEH2B	mRNA	RNASEH2B	YES	11
1468	mRNA_RP11-435O5.2	mRNA	RP11-435O5.2	NO	0
1469	CNV_FAM73B	CNV	FAM73B	YES	2
1469	METH_PDGFRB	METH	PDGFRB	YES	108
1470	mRNA_GZMH	mRNA	GZMH	YES	9
1471	mRNA_GPR37L1	mRNA	GPR37L1	YES	19
1471	mRNA_LTA	mRNA	LTA	YES	27
1472	mRNA_PITHD1	mRNA	PITHD1	YES	2
1473	mRNA_ZNF587	mRNA	ZNF587	YES	8
1475	STV_PSORS1C1	STV	PSORS1C1	NO	0
1476	METH_ZG16B	METH	ZG16B	YES	6
1477	mRNA_NCF1B	mRNA	NCF1B	NO	0
1479	mRNA_TNK1	mRNA	TNK1	YES	25
1480	mRNA_CAMK4	mRNA	CAMK4	YES	29
1480	STV_SNRPB2	STV	SNRPB2	YES	19
1483	STV_SWSAP1	STV	SWSAP1	YES	12
1484	METH_GOLPH3L	METH	GOLPH3L	YES	16
1486	mirna_MIR520A	miRNA	MIR520A	NO	0
1487	mRNA_AIF1	mRNA	AIF1	YES	49
1488	mRNA_SLAMF6	mRNA	SLAMF6	YES	15
1490	mRNA_RP11-46A10.5	mRNA	RP11-46A10.5	NO	0
1491	STV_OR5M11	STV	OR5M11	YES	12
1492	mRNA_ITGAD	mRNA	ITGAD	YES	11
1492	mRNA_RP11-299J3.8	mRNA	RP11-299J3.8	NO	0
1493	STV_CTD.3148I10.9	STV	CTD.3148I10.9	NO	0
1494	STV_SFXN5	STV	SFXN5	YES	13
1494	STV_SPIC	STV	SPIC	YES	14
1495	mRNA_PLA2G4C	mRNA	PLA2G4C	YES	23
1496	mRNA_TRBV25-1	mRNA	TRBV25-1	YES	1
1498	mRNA_KLC3	mRNA	KLC3	YES	12
1498	mRNA_P4HTM	mRNA	P4HTM	YES	14
1499	mRNA_KIAA1324	mRNA	KIAA1324	YES	18
1499	mRNA_KEL	mRNA	KEL	YES	19
1500	mRNA_FERMT3	mRNA	FERMT3	YES	17
1502	mRNA_PRSS8	mRNA	PRSS8	YES	19
1502	mRNA_PRAME	mRNA	PRAME	YES	15
1503	mRNA_RP11-61J19.5	mRNA	RP11-61J19.5	NO	0
1504	mirna_MIR4424	miRNA	MIR4424	NO	0
1505	mRNA_TUBBP5	mRNA	TUBBP5	NO	0
1506	mRNA_METTL20	mRNA	METTL20	YES	3
1507	mRNA_AC147651.4	mRNA	AC147651.4	NO	0
1509	mRNA_MOB3C	mRNA	MOB3C	YES	2

1510	mRNA_FGFBP1	mRNA	FGFBP1	YES	15
1510	mRNA_RP11-519G16.5	mRNA	RP11-519G16.5	NO	0
1511	STV_CBWD3	STV	CBWD3	YES	2
1512	METH_GTDC1	METH	GTDC1	YES	3
1512	METH_OXR1	METH	OXR1	YES	14
1513	mRNA_ANXA2R	mRNA	ANXA2R	YES	1
1513	STV_DDX12P	STV	DDX12P	NO	0
1515	mRNA_ADAMTS8	mRNA	ADAMTS8	YES	15
1516	mRNA_HMHA1	mRNA	HMHA1	YES	8
1517	mRNA_FLNB	mRNA	FLNB	YES	30
1517	mRNA_COL26A1	mRNA	COL26A1	YES	12
1518	mRNA_SFXN5	mRNA	SFXN5	YES	13
1520	mRNA_TENM2	mRNA	TENM2	YES	33
1520	mRNA_PATL2	mRNA	PATL2	YES	10
1522	METH_ASGR2	METH	ASGR2	YES	14
1523	mRNA_MAPKBP1	mRNA	MAPKBP1	YES	14
1524	METH_AHCTF1	METH	AHCTF1	YES	27
1525	mRNA_NAT6	mRNA	NAT6	YES	4
1526	METH_KRT32	METH	KRT32	YES	7
1526	STV_TPPP	STV	TPPP	YES	16
1527	mRNA_CD101	mRNA	CD101	YES	7
1528	mRNA_ATP6AP1L	mRNA	ATP6AP1L	YES	6
1530	METH_RP4.683L5.1	METH	RP4.683L5.1	NO	0
1530	mRNA_NUDT16L1	mRNA	NUDT16L1	YES	6
1531	mRNA_MAP3K4	mRNA	MAP3K4	YES	28
1533	mRNA_PROB1	mRNA	PROB1	NO	0
1534	mirna_MIR4453	miRNA	MIR4453	NO	0
1536	mRNA_DST	mRNA	DST	YES	50
1538	mRNA_SLC38A2	mRNA	SLC38A2	YES	24
1539	mRNA_MYH7B	mRNA	MYH7B	YES	10
1540	mRNA_RP5-1024G6.5	mRNA	RP5-1024G6.5	NO	0
1541	mRNA_LINC00426	mRNA	LINC00426	NO	0
1542	mRNA_TMEM87B	mRNA	TMEM87B	YES	3
1542	STV_GPR21	STV	GPR21	YES	12
1546	mRNA_CXorf21	mRNA	CXorf21	NO	0
1547	mirna_MIR183	miRNA	MIR183	YES	1
1549	METH_AGER	METH	AGER	YES	46
1550	mRNA_RP11-770J1.3	mRNA	RP11-770J1.3	NO	0
1550	mRNA_RP11-89K11.1	mRNA	RP11-89K11.1	NO	0
1551	STV_GART	STV	GART	YES	27
1552	mRNA_WASIR2	mRNA	WASIR2	NO	0
1553	mRNA_GAPT	mRNA	GAPT	YES	7
1555	mRNA_HLA-DQA1	mRNA	HLA-DQA1	YES	30
1556	mRNA_HIVEP3	mRNA	HIVEP3	YES	15
1556	STV_A4GNT	STV	A4GNT	YES	13
1558	mRNA_SOCS1	mRNA	SOCS1	YES	30
1559	METH_MEOX1	METH	MEOX1	YES	22
1559	mRNA_RP11-51F16.1	mRNA	RP11-51F16.1	NO	0
1560	METH_KCNJ1	METH	KCNJ1	YES	17
1561	mRNA_TCL1A	mRNA	TCL1A	YES	18
1561	mRNA_RLTPR	mRNA	RLTPR	YES	1
1564	mRNA_HLA-DOB	mRNA	HLA-DOB	YES	17
1565	mirna_MIR580	miRNA	MIR580	NO	0
1565	mRNA_CD2	mRNA	CD2	YES	28
1566	CNV_NCS1	CNV	NCS1	YES	26
1566	mRNA_LRRC27	mRNA	LRRC27	YES	2
1567	METH_GLTSCR2	METH	GLTSCR2	YES	5
1567	mRNA_RP11-400N9.1	mRNA	RP11-400N9.1	NO	0
1568	STV_C16orf89	STV	C16orf89	YES	5
1568	STV_TFPT	STV	TFPT	YES	15

1569	mRNA_CCDC149	mRNA	CCDC149	NO	0
1570	mRNA_NOMO1	mRNA	NOMO1	YES	5
1571	mRNA_FPR3	mRNA	FPR3	YES	18
1572	mRNA_CSRNP1	mRNA	CSRNP1	YES	17
1574	mRNA_GPR82	mRNA	GPR82	YES	7
1574	mRNA_VMO1	mRNA	VMO1	YES	4
1576	mRNA_AGR3	mRNA	AGR3	YES	7
1577	mRNA_RP11-259K5.2	mRNA	RP11-259K5.2	NO	0
1577	mRNA_DGCR11	mRNA	DGCR11	NO	0
1578	mRNA_CTD-2583A14.8	mRNA	CTD-2583A14.8	NO	0
1578	STV_COQ7	STV	COQ7	YES	17
1579	STV_GFAP	STV	GFAP	YES	37
1581	mRNA_C5orf56	mRNA	C5orf56	NO	0
1582	STV_ZNF526	STV	ZNF526	YES	6
1583	mRNA_CIITA	mRNA	CIITA	YES	35
1584	mRNA_FYB	mRNA	FYB	YES	13
1584	mRNA_EXT2	mRNA	EXT2	YES	27
1586	mRNA_AKNA	mRNA	AKNA	YES	14
1588	mRNA_FCGR2C	mRNA	FCGR2C	YES	2
1589	mRNA_ALOX5AP	mRNA	ALOX5AP	YES	26
1590	METH_UNC93A	METH	UNC93A	YES	5
1591	METH_HLA.DOA	METH	HLA.DOA	NO	0
1593	mRNA_C1QA	mRNA	C1QA	YES	15
1594	mRNA_GNA15	mRNA	GNA15	YES	20
1594	STV_EMC9	STV	EMC9	YES	3
1595	mRNA_CADPS2	mRNA	CADPS2	YES	20
1595	mRNA_IGSF9	mRNA	IGSF9	YES	15
1599	METH_SH3BP2	METH	SH3BP2	YES	6
1600	mRNA_SAMSN1	mRNA	SAMSN1	YES	10
1601	mRNA_GMEB1	mRNA	GMEB1	YES	15
1602	mRNA_CARD6	mRNA	CARD6	YES	4
1604	METH_HHIPL2	METH	HHIPL2	YES	5
1604	mRNA_IKZF1	mRNA	IKZF1	YES	31
1605	mRNA_RP11-707M3.3	mRNA	RP11-707M3.3	NO	0
1605	STV_CDH15	STV	CDH15	YES	14
1606	mirna_MIR191	miRNA	MIR191	YES	2
1606	mRNA_MATR3	mRNA	MATR3	YES	12
1607	mRNA_CIDECP	mRNA	CIDECP	NO	0
1608	mRNA_PCP2	mRNA	PCP2	YES	4
1608	mRNA_MT-ND3	mRNA	MT-ND3	YES	17
1609	mRNA_S1PR5	mRNA	S1PR5	YES	10
1611	mRNA_TRBV20-1	mRNA	TRBV20-1	YES	1
1611	mRNA_RP11-540O11.1	mRNA	RP11-540O11.1	NO	0
1612	mRNA_AZGP1P1	mRNA	AZGP1P1	NO	0
1612	mRNA_RP11-620J15.3	mRNA	RP11-620J15.3	NO	0
1613	mRNA_CBFA2T3	mRNA	CBFA2T3	YES	21
1614	mRNA_GALNT6	mRNA	GALNT6	YES	13
1615	STV_DKK3	STV	DKK3	YES	13
1616	STV_NFKBIE	STV	NFKBIE	YES	9
1617	mRNA_CTB-113P19.4	mRNA	CTB-113P19.4	NO	0
1618	STV_IGHG4	STV	IGHG4	YES	24
1621	STV_VPS16	STV	VPS16	YES	27
1622	mRNA_CTDSP1	mRNA	CTDSP1	YES	16
1622	mRNA_CDC37L1-AS1	mRNA	CDC37L1-AS1	NO	0
1623	STV_SSX2IP	STV	SSX2IP	YES	21
1624	mRNA_DHRS13	mRNA	DHRS13	YES	6
1624	mRNA_SIGLEC7	mRNA	SIGLEC7	YES	8
1625	METH_VPS51	METH	VPS51	YES	24
1627	STV_RIMS3	STV	RIMS3	YES	11
1628	mRNA_CSF2	mRNA	CSF2	YES	38

1628	STV_CEND1	STV	CEND1	YES	10
1629	METH_CBLC	METH	CBLC	YES	22
1629	mRNA_COL4A6	mRNA	COL4A6	YES	13
1630	METH_GON4L	METH	GON4L	YES	9
1630	mRNA_SLC6A15	mRNA	SLC6A15	YES	20
1631	mRNA_ACAP1	mRNA	ACAP1	YES	10
1634	mRNA_SEPT6	mRNA	SEPT6	YES	25
1635	METH_RIT1	METH	RIT1	YES	15
1635	mirna_MIR4645	miRNA	MIR4645	NO	0
1636	mRNA_ALPPL2	mRNA	ALPPL2	YES	12
1637	mirna_MIR518A	miRNA	MIR518A	NO	0
1637	mRNA_PLA2G15	mRNA	PLA2G15	YES	25
1638	mRNA_DOCK8	mRNA	DOCK8	YES	13
1638	mRNA_TMEM254	mRNA	TMEM254	YES	2
1639	STV_RP11.512M8.5	STV	RP11.512M8.5	NO	0
1640	mRNA_KRT5	mRNA	KRT5	YES	18
1641	STV_EIF6	STV	EIF6	YES	27
1642	METH_NDUFA2	METH	NDUFA2	YES	10
1643	mRNA_TREM2	mRNA	TREM2	YES	28
1644	mRNA_CYP4X1	mRNA	CYP4X1	YES	14
1646	mirna_MIR208B	miRNA	MIR208B	YES	4
1648	mRNA_DUSP7	mRNA	DUSP7	YES	27
1649	METH_PRKCDBP	METH	PRKCDBP	YES	2
1651	CNV_CRAT	CNV	CRAT	YES	15
1654	mRNA_RP6-159A1.4	mRNA	RP6-159A1.4	NO	0
1655	mRNA_BEND5	mRNA	BEND5	YES	6
1657	mRNA_ZNF689	mRNA	ZNF689	YES	8
1658	METH_CLIC6	METH	CLIC6	YES	14
1658	METH_HPS3	METH	HPS3	YES	6
1659	mirna_MIR181A	miRNA	MIR181A	NO	0
1661	mRNA_LINC00958	mRNA	LINC00958	NO	0
1661	mRNA_HEIH	mRNA	HEIH	NO	0
1662	mRNA_CD3G	mRNA	CD3G	YES	24
1662	mRNA_C1orf186	mRNA	C1orf186	YES	3
1665	mRNA_KHDRBS1	mRNA	KHDRBS1	YES	34
1666	STV_TIMD4	STV	TIMD4	YES	3
1667	mirna_MIR548F	miRNA	MIR548F	NO	0
1668	mRNA_PLEK2	mRNA	PLEK2	YES	12
1668	STV_RP11.894P9.2	STV	RP11.894P9.2	NO	0
1669	mRNA_HNRNPA3P6	mRNA	HNRNPA3P6	NO	0
1669	STV_AES	STV	AES	YES	20
1670	mRNA_NEDD1	mRNA	NEDD1	YES	17
1671	mRNA_MT-CO3	mRNA	MT-CO3	YES	13
1672	STV_FRAT1	STV	FRAT1	YES	6
1674	STV_PGAM4	STV	PGAM4	YES	15
1675	mRNA_PKD2L1	mRNA	PKD2L1	YES	39
1676	STV_TNFAIP8	STV	TNFAIP8	YES	7
1677	CNV_USP20	CNV	USP20	YES	23
1678	mRNA_MPP1	mRNA	MPP1	YES	12
1678	STV_GCKR	STV	GCKR	YES	26
1681	METH_AASS	METH	AASS	YES	16
1682	mRNA_PDE6G	mRNA	PDE6G	YES	18
1683	mRNA_ZNF582	mRNA	ZNF582	YES	7
1684	METH_HORMAD1	METH	HORMAD1	YES	15
1684	mRNA_GIMAP2	mRNA	GIMAP2	YES	6
1685	mRNA_NDUFAF3	mRNA	NDUFAF3	YES	6
1686	METH_MFSD5	METH	MFSD5	YES	8
1686	mRNA_MYO3A	mRNA	MYO3A	YES	29
1687	mRNA_TMC8	mRNA	TMC8	YES	18
1688	METH_LCN2	METH	LCN2	YES	36

1689	METH_ACAP2	METH	ACAP2	YES	10
1689	mRNA_ZNF586	mRNA	ZNF586	YES	8
1690	mRNA_MUCL1	mRNA	MUCL1	YES	6
1692	mRNA_PIK3R6	mRNA	PIK3R6	YES	20
1692	STV_LIN28A	STV	LIN28A	YES	39
1695	mRNA_ARNTL2	mRNA	ARNTL2	YES	18
1697	mRNA_CDH19	mRNA	CDH19	YES	7
1698	mRNA_TADA3	mRNA	TADA3	YES	30
1698	STV_TEX101	STV	TEX101	YES	6
1700	mRNA_RP5-1028K7.2	mRNA	RP5-1028K7.2	NO	0
1703	mRNA_SCAMP4	mRNA	SCAMP4	YES	4
1704	mRNA_FOXD1	mRNA	FOXD1	YES	28
1704	STV_PDAP1	STV	PDAP1	YES	6
1705	METH_KRT35	METH	KRT35	YES	8
1705	mRNA_RALA	mRNA	RALA	YES	35
1706	STV_FREM3	STV	FREM3	YES	9
1706	STV_RAP2C	STV	RAP2C	YES	24
1708	mRNA_MAP3K9	mRNA	MAP3K9	YES	28
1709	mRNA_SLC3A2	mRNA	SLC3A2	YES	27
1710	mirna_MIR4444	miRNA	MIR4444	NO	0
1710	STV_DAK	STV	DAK	YES	8
1711	mRNA_STK17A	mRNA	STK17A	YES	16
1711	mRNA_HLA-DRA	mRNA	HLA-DRA	YES	38
1712	mRNA_PHOSPHO2	mRNA	PHOSPHO2	YES	6
1712	mRNA_RP11-876N24.3	mRNA	RP11-876N24.3	NO	0
1713	METH_RP11.60L3.1	METH	RP11.60L3.1	NO	0
1714	mRNA_JADE2	mRNA	JADE2	YES	18
1716	mRNA_MYH9	mRNA	MYH9	YES	72
1717	mRNA_PCAT6	mRNA	PCAT6	NO	0
1718	mRNA_JAK2	mRNA	JAK2	YES	123
1718	mRNA_PRF1	mRNA	PRF1	YES	23
1719	mRNA_EOMES	mRNA	EOMES	YES	40
1720	METH_ACVR2A	METH	ACVR2A	YES	53
1721	mRNA_SIX1	mRNA	SIX1	YES	76
1722	METH_HTATIP2	METH	HTATIP2	YES	18
1723	mRNA_TRG-AS1	mRNA	TRG-AS1	NO	0
1724	mRNA_PPP4R1	mRNA	PPP4R1	YES	8
1725	METH_BSCL2	METH	BSCL2	YES	13
1725	mRNA_HINFP	mRNA	HINFP	YES	32
1726	mRNA_JAK3	mRNA	JAK3	YES	52
1726	mRNA_RP11-430C7.5	mRNA	RP11-430C7.5	NO	0
1727	mRNA_DKK4	mRNA	DKK4	YES	8
1730	mRNA_SEPT1	mRNA	SEPT1	YES	8
1731	mirna_MIR3613	miRNA	MIR3613	NO	0
1732	STV_VKORC1L1	STV	VKORC1L1	YES	11
1734	STV_SPATA1	STV	SPATA1	NO	0
1735	STV_IKZF5	STV	IKZF5	YES	13
1736	mRNA_BRWD1-AS2	mRNA	BRWD1-AS2	NO	0
1737	STV_PHF13	STV	PHF13	YES	12
1738	mRNA_AMTN	mRNA	AMTN	YES	14
1740	STV_UBE2D2	STV	UBE2D2	YES	22
1741	mRNA_ADAMTSL4	mRNA	ADAMTSL4	YES	15
1741	STV_RP1.27O5.3	STV	RP1.27O5.3	NO	0
1742	mRNA_LILRA2	mRNA	LILRA2	YES	9
1744	mRNA_CARD16	mRNA	CARD16	YES	22
1744	mRNA_MT-RNR1	mRNA	MT-RNR1	NO	0
1745	mRNA_C1QB	mRNA	C1QB	YES	16
1746	mRNA_COL17A1	mRNA	COL17A1	YES	17
1746	STV_COX7B2	STV	COX7B2	YES	8
1747	mRNA_CHRM4	mRNA	CHRM4	YES	19

1748	mRNA_KRT19	mRNA	KRT19	YES	23
1750	mRNA_LILRA4	mRNA	LILRA4	YES	5
1751	mRNA_CCZ1	mRNA	CCZ1	YES	12
1751	mRNA_LINC00926	mRNA	LINC00926	NO	0
1752	mRNA_TLR1	mRNA	TLR1	YES	35
1754	mRNA_TMEM59	mRNA	TMEM59	YES	22
1755	METH_DNAAF1	METH	DNAAF1	YES	24
1756	METH_F7	METH	F7	YES	49
1757	mRNA_IL6	mRNA	IL6	YES	132
1758	mRNA_CLECL1	mRNA	CLECL1	YES	4
1759	METH_ARF5	METH	ARF5	YES	18
1759	mRNA_TNFSF10	mRNA	TNFSF10	YES	30
1760	mRNA_ARHGEF38	mRNA	ARHGEF38	YES	6
1762	METH_TNIP3	METH	TNIP3	YES	12
1763	mRNA_PLEK	mRNA	PLEK	YES	34
1765	mRNA_RAB37	mRNA	RAB37	YES	19
1766	METH_ZNF133	METH	ZNF133	YES	9
1767	mRNA_PSEN2	mRNA	PSEN2	YES	79
1767	mRNA_AC012146.7	mRNA	AC012146.7	NO	0
1769	STV_ZNF816	STV	ZNF816	YES	10
1770	METH_CHRD	METH	CHRD	YES	22
1773	mRNA_AL031587.1	mRNA	AL031587.1	NO	0
1774	mRNA_RP11-284N8.3	mRNA	RP11-284N8.3	NO	0
1774	STV_OR2V2	STV	OR2V2	YES	11
1775	mRNA_HCST	mRNA	HCST	YES	10
1775	mRNA_EPHA1-AS1	mRNA	EPHA1-AS1	NO	0
1776	mRNA_CD44	mRNA	CD44	YES	42
1776	STV_MAP3K3	STV	MAP3K3	YES	25
1777	mRNA_BHLHE40-AS1	mRNA	BHLHE40-AS1	NO	0
1778	mRNA_ADPRH	mRNA	ADPRH	YES	8
1779	mRNA_IFNG	mRNA	IFNG	YES	99
1780	mRNA_GCSAM	mRNA	GCSAM	YES	10
1780	STV_PRSS56	STV	PRSS56	YES	7
1781	mRNA_TMEM115	mRNA	TMEM115	YES	18
1782	mRNA_TRBV19	mRNA	TRBV19	YES	1
1783	mRNA_JUNB	mRNA	JUNB	YES	43
1783	STV_CCR4	STV	CCR4	YES	24
1785	mRNA_HOXC13	mRNA	HOXC13	YES	16
1786	mRNA_PVT1	mRNA	PVT1	NO	0
1787	METH_RAB25	METH	RAB25	YES	19
1787	mRNA_ST8SIA6-AS1	mRNA	ST8SIA6-AS1	NO	0
1788	mRNA_RAB11A	mRNA	RAB11A	YES	62
1789	mRNA_CTB-58E17.5	mRNA	CTB-58E17.5	NO	0
1790	STV_C14orf159	STV	C14orf159	YES	9
1791	STV_SLC38A7	STV	SLC38A7	YES	30
1792	mRNA_RP11-301O19.1	mRNA	RP11-301O19.1	NO	0
1793	mRNA_XXbac-B135H6.18	mRNA	XXbac-B135H6.18	NO	0
1794	mRNA_TMED3	mRNA	TMED3	YES	17
1795	mRNA_SCGB1D2	mRNA	SCGB1D2	YES	2
1799	mRNA_PTPN22	mRNA	PTPN22	YES	58
1800	mRNA_ME3	mRNA	ME3	YES	15
1801	mRNA_CYB5R1	mRNA	CYB5R1	YES	20
1802	STV_PEX16	STV	PEX16	YES	17
1805	mRNA_RP11-755F10.1	mRNA	RP11-755F10.1	NO	0
1806	mRNA_CLUL1	mRNA	CLUL1	YES	2
1806	mRNA_TNFRSF4	mRNA	TNFRSF4	YES	22
1807	STV_IGKV1.5	STV	IGKV1.5	NO	0
1808	mRNA_NFATC3	mRNA	NFATC3	YES	24
1810	mRNA_SKAP1	mRNA	SKAP1	YES	22
1811	mRNA_HIST1H2BD	mRNA	HIST1H2BD	YES	11

1813	mRNA_ANKLE2	mRNA	ANKLE2	YES	16
1814	STV_RGS4	STV	RGS4	YES	15
1816	mRNA_CCR7	mRNA	CCR7	YES	64
1817	mRNA_CTSC	mRNA	CTSC	YES	39
1817	mRNA_PPP1R3D	mRNA	PPP1R3D	YES	10
1818	mRNA_CRNDE	mRNA	CRNDE	NO	0
1819	mRNA_AP000695.4	mRNA	AP000695.4	NO	0
1820	METH_INO80C	METH	INO80C	YES	14
1820	mRNA_CYP27C1	mRNA	CYP27C1	YES	20
1821	mRNA_MT-CO2	mRNA	MT-CO2	YES	20
1821	STV_KRT36	STV	KRT36	YES	10
1822	METH_HIATL1	METH	HIATL1	YES	4
1822	mRNA_RAC1	mRNA	RAC1	YES	87
1824	mRNA_KCNC2	mRNA	KCNC2	YES	52
1826	mRNA_RP11-499E18.1	mRNA	RP11-499E18.1	NO	0
1826	STV_CSN1S1	STV	CSN1S1	YES	4
1827	mRNA_ADAMTSL5	mRNA	ADAMTSL5	YES	7
1829	mirna_MIR1283	miRNA	MIR1283	NO	0
1831	METH_GS1.279B7.2	METH	GS1.279B7.2	NO	0
1833	mRNA_RIN1	mRNA	RIN1	YES	12
1834	mRNA_MIR155HG	mRNA	MIR155HG	NO	0
1835	mRNA_SIAH2	mRNA	SIAH2	YES	32
1835	STV_HMGA1	STV	HMGA1	YES	42
1836	METH_EXT1	METH	EXT1	YES	34
1836	mRNA_RP11-477H21.2	mRNA	RP11-477H21.2	NO	0
1837	mRNA_RIN2	mRNA	RIN2	YES	12
1838	STV_C12orf49	STV	C12orf49	YES	2
1838	STV_KB.67B5.12	STV	KB.67B5.12	NO	0
1839	mRNA_GPR65	mRNA	GPR65	YES	18
1840	METH_CCDC102B	METH	CCDC102B	YES	1
1840	mRNA_SH3PXD2A-AS1	mRNA	SH3PXD2A-AS1	NO	0
1842	mRNA_FCRL1	mRNA	FCRL1	YES	3
1844	mRNA_RP5-1065J22.8	mRNA	RP5-1065J22.8	NO	0
1845	mRNA_MAP3K6	mRNA	MAP3K6	YES	15
1846	mirna_MIR519C	miRNA	MIR519C	YES	3
1846	mRNA_RP11-10K16.1	mRNA	RP11-10K16.1	NO	0
1847	mRNA_PPFIBP2	mRNA	PPFIBP2	YES	7
1848	mRNA_MCC	mRNA	MCC	YES	16
1849	CNV_ENDOG	CNV	ENDOG	YES	27
1850	mRNA_GFI1	mRNA	GFI1	YES	26
1850	mRNA_CALML3	mRNA	CALML3	YES	4
1851	mRNA_IL21R	mRNA	IL21R	YES	7
1852	mRNA_BST1	mRNA	BST1	YES	33
1853	mRNA_UGT3A2	mRNA	UGT3A2	YES	10
1854	STV_RP3.468K18.7	STV	RP3.468K18.7	NO	0
1855	mRNA_BMPR1B	mRNA	BMPR1B	YES	52
1857	mRNA_PHLDB2	mRNA	PHLDB2	YES	20
1858	mRNA_CCL22	mRNA	CCL22	YES	22
1859	mRNA_CD6	mRNA	CD6	YES	24
1859	mRNA_RCSD1	mRNA	RCSD1	YES	4
1860	mRNA_SNX20	mRNA	SNX20	YES	14
1862	mRNA_SLC16A1	mRNA	SLC16A1	YES	30
1863	METH_SLC46A3	METH	SLC46A3	YES	6
1863	mRNA_DTX1	mRNA	DTX1	YES	24
1864	mRNA_LAMP5	mRNA	LAMP5	YES	15
1864	STV_B4GALT5	STV	B4GALT5	YES	15
1865	STV_TAF1B	STV	TAF1B	YES	22
1866	mRNA_CBX4	mRNA	CBX4	YES	24
1868	mRNA_SIT1	mRNA	SIT1	YES	13
1870	METH_RNASE1	METH	RNASE1	YES	12

1871	METH_HSF2BP	METH	HSF2BP	YES	6
1872	mRNA_IL17RC	mRNA	IL17RC	YES	13
1872	STV_KRT31	STV	KRT31	YES	11
1873	mirna_MIR523	miRNA	MIR523	YES	3
1873	mRNA_SLC46A2	mRNA	SLC46A2	YES	12
1875	mRNA_ZNF350-AS1	mRNA	ZNF350-AS1	NO	0
1876	STV_TMEM68	STV	TMEM68	YES	4
1877	mRNA_THUMPD2	mRNA	THUMPD2	YES	6
1877	mRNA_RPS6KA4	mRNA	RPS6KA4	YES	29
1880	mRNA_ADAMTS19	mRNA	ADAMTS19	YES	9
1881	mRNA_C10orf54	mRNA	C10orf54	YES	2
1881	mRNA_LEF1	mRNA	LEF1	YES	105
1883	METH_NIT1	METH	NIT1	YES	9
1884	METH_FYB	METH	FYB	YES	13
1886	mRNA_CTBS	mRNA	CTBS	YES	12
1886	mRNA_NRTN	mRNA	NRTN	YES	14
1888	METH_NELFE	METH	NELFE	YES	21
1888	mRNA_CD79B	mRNA	CD79B	YES	22
1889	mirna_MIR31	miRNA	MIR31	YES	6
1890	mRNA_TUBB6	mRNA	TUBB6	YES	14
1892	mRNA_PHF12	mRNA	PHF12	YES	16
1893	METH_KRT15	METH	KRT15	YES	12
1894	METH_EMCN	METH	EMCN	YES	9
1896	mRNA_TMEM256-PLSCR3	mRNA	TMEM256-PLSCR3	YES	13
1897	mRNA_FBXL12	mRNA	FBXL12	YES	9
1899	METH_ANGPT1	METH	ANGPT1	YES	50
1899	mRNA_FRAT2	mRNA	FRAT2	YES	7
1902	mRNA_C1QL4	mRNA	C1QL4	YES	7
1903	STV_AC093642.5	STV	AC093642.5	NO	0
1904	mirna_MIR16	miRNA	MIR16	NO	0
1904	mRNA_RP1-34B20.4	mRNA	RP1-34B20.4	NO	0
1907	mRNA_PIGM	mRNA	PIGM	YES	9
1908	mRNA_RP11-156E6.1	mRNA	RP11-156E6.1	NO	0
1911	mRNA_KCNK6	mRNA	KCNK6	YES	18
1911	mRNA_NXN	mRNA	NXN	YES	16
1912	mRNA_BATF3	mRNA	BATF3	YES	15
1913	mRNA_AHNAK2	mRNA	AHNAK2	YES	10
1913	mRNA_DUSP28	mRNA	DUSP28	YES	8
1914	mRNA_TPD52	mRNA	TPD52	YES	10
1915	mRNA_ANAPC4	mRNA	ANAPC4	YES	19
1915	mRNA_OSM	mRNA	OSM	YES	28
1916	mRNA_NABP1	mRNA	NABP1	YES	15
1916	STV_SLC36A1	STV	SLC36A1	YES	26
1917	STV_BNIP2	STV	BNIP2	YES	23
1918	mRNA_RNF19B	mRNA	RNF19B	YES	17
1919	STV_CTD.2014N11.2	STV	CTD.2014N11.2	NO	0
1920	mRNA_FPR1	mRNA	FPR1	YES	28
1920	STV_TTLL10	STV	TTLL10	YES	7
1921	mRNA_ABHD12	mRNA	ABHD12	YES	13
1922	mRNA_CPA6	mRNA	CPA6	YES	11
1922	mRNA_RP11-539L10.3	mRNA	RP11-539L10.3	NO	0
1923	mRNA_CYSLTR1	mRNA	CYSLTR1	YES	22
1925	mRNA_SIGLEC10	mRNA	SIGLEC10	YES	6
1926	mRNA_FAM83H	mRNA	FAM83H	YES	9
1926	mRNA_CTD-3214H19.6	mRNA	CTD-3214H19.6	NO	0
1928	mRNA_TLR7	mRNA	TLR7	YES	43
1929	STV_C8orf86	STV	C8orf86	NO	0
1929	STV_PRAME	STV	PRAME	YES	15
1930	mRNA_LA16c-380H5.1	mRNA	LA16c-380H5.1	NO	0
1930	STV_FHAD1	STV	FHAD1	YES	1

1932	mRNA_NBPF8	mRNA	NBPF8	NO	0
1933	METH_LRRC7	METH	LRRC7	YES	14
1935	mRNA_CMAHP	mRNA	CMAHP	NO	0
1936	mRNA_BCL2A1	mRNA	BCL2A1	YES	18
1936	STV_CTC.435M10.3	STV	CTC.435M10.3	NO	0
1938	mRNA_EHBP1L1	mRNA	EHBP1L1	YES	4
1938	mRNA_PCAT7	mRNA	PCAT7	NO	0
1939	mRNA_TNS4	mRNA	TNS4	YES	9
1941	METH_KRTAP4.2	METH	KRTAP4.2	NO	0
1942	mRNA_CORO1A	mRNA	CORO1A	YES	62
1942	mRNA_ANXA8	mRNA	ANXA8	YES	16
1943	STV_STARD6	STV	STARD6	YES	5
1944	mRNA_PTPLAD2	mRNA	PTPLAD2	YES	4
1945	mRNA_TUSC2	mRNA	TUSC2	YES	18
1945	mRNA_HLA-DRB6	mRNA	HLA-DRB6	NO	0
1946	mRNA_FMOD	mRNA	FMOD	YES	15
1947	mRNA_APOBEC3G	mRNA	APOBEC3G	YES	29
1947	STV_SLC30A2	STV	SLC30A2	YES	22
1948	mRNA_RP11-147L13.11	mRNA	RP11-147L13.11	NO	0
1948	STV_IGHJ6	STV	IGHJ6	NO	0
1951	METH_ENDOU	METH	ENDOU	YES	22
1951	mRNA_TCEAL1	mRNA	TCEAL1	YES	7
1952	mRNA_SLC27A4	mRNA	SLC27A4	YES	27
1952	mRNA_ANXA2P2	mRNA	ANXA2P2	NO	0
1954	mRNA_RAB1A	mRNA	RAB1A	YES	40
1956	mRNA_NKG7	mRNA	NKG7	YES	5
1956	mRNA_LCK	mRNA	LCK	YES	65
1957	mRNA_RP11-848G14.5	mRNA	RP11-848G14.5	NO	0
1959	mRNA_RRAD	mRNA	RRAD	YES	12
1961	STV_ZNF705G	STV	ZNF705G	YES	7
1962	mRNA_SPHK1	mRNA	SPHK1	YES	59
1963	mRNA_TOB1-AS1	mRNA	TOB1-AS1	NO	0
1965	mRNA_DNAJC5B	mRNA	DNAJC5B	YES	2
1965	mRNA_THEMIS	mRNA	THEMIS	YES	11
1968	mRNA_LAIR1	mRNA	LAIR1	YES	11
1968	STV_RP11.707M1.1	STV	RP11.707M1.1	NO	0
1969	METH_PSD3	METH	PSD3	YES	13
1970	mRNA_HIST1H4H	mRNA	HIST1H4H	YES	36
1970	STV_ZNF385C	STV	ZNF385C	YES	3
1971	mRNA_AMOTL1	mRNA	AMOTL1	YES	14
1972	mRNA_RP11-356O9.2	mRNA	RP11-356O9.2	NO	0
1973	mRNA_CLCA2	mRNA	CLCA2	YES	23
1973	STV_RPL15	STV	RPL15	YES	21
1975	STV_RP11.438J1.1	STV	RP11.438J1.1	NO	0
1976	mRNA_PP14571	mRNA	PP14571	NO	0
1976	mRNA_LYRM9	mRNA	LYRM9	NO	0
1977	STV_ROPN1L	STV	ROPN1L	YES	4
1979	mirna_MIR4668	miRNA	MIR4668	NO	0
1980	mRNA_TNNT1	mRNA	TNNT1	YES	11
1981	mRNA_CD59	mRNA	CD59	YES	31
1982	mRNA_CEACAM21	mRNA	CEACAM21	YES	2
1984	mRNA_CTA-292E10.6	mRNA	CTA-292E10.6	NO	0
1985	mRNA_CD200R1	mRNA	CD200R1	YES	10
1986	mRNA_ZNF329	mRNA	ZNF329	YES	7
1987	METH_CERS3	METH	CERS3	YES	14
1987	STV_POU3F4	STV	POU3F4	YES	18
1988	STV_RP11.322E11.6	STV	RP11.322E11.6	NO	0
1989	mRNA_MBLAC1	mRNA	MBLAC1	YES	2
1990	mRNA_PTP4A2	mRNA	PTP4A2	YES	17
1990	mRNA_RP11-92K15.3	mRNA	RP11-92K15.3	NO	0

1991	mRNA_RASGEF1B	mRNA	RASGEF1B	YES	9
1992	mRNA_UBASH3A	mRNA	UBASH3A	YES	7
1992	STV_MTA3	STV	MTA3	YES	18
1994	mRNA_SLC25A38	mRNA	SLC25A38	YES	11
1994	mRNA_GNG10	mRNA	GNG10	YES	11
1995	mRNA_CD53	mRNA	CD53	YES	16
1996	mRNA_PRAM1	mRNA	PRAM1	YES	7
1996	STV_GEM	STV	GEM	YES	24
1997	mRNA_TM4SF19	mRNA	TM4SF19	YES	2
2000	STV_FCGR3A	STV	FCGR3A	YES	10
2001	mRNA_SPIB	mRNA	SPIB	YES	13
2001	STV_DHRS4L2	STV	DHRS4L2	YES	3
2002	mRNA_LINC01272	mRNA	LINC01272	NO	0
2003	CNV_HMGA1P4	CNV	HMGA1P4	NO	0
2005	STV_BCKDHA	STV	BCKDHA	YES	14
2007	mRNA_LAT2	mRNA	LAT2	YES	18
2009	mRNA_CTBP1-AS2	mRNA	CTBP1-AS2	NO	0
2009	STV_C16orf71	STV	C16orf71	NO	0
2010	mRNA_AC004381.6	mRNA	AC004381.6	NO	0
2011	mRNA_WAS	mRNA	WAS	YES	40
2011	mRNA_LRRC37A5P	mRNA	LRRC37A5P	NO	0
2013	mRNA_ANXA8L1	mRNA	ANXA8L1	YES	4
2013	STV_GOLGA6L4	STV	GOLGA6L4	YES	1
2014	mRNA_FCGR1A	mRNA	FCGR1A	YES	18
2014	STV_CTD.2619J13.8	STV	CTD.2619J13.8	NO	0
2015	METH_MEG3	METH	MEG3	NO	0
2015	mRNA_MIR31HG	mRNA	MIR31HG	NO	0
2016	METH_KARS	METH	KARS	YES	42
2017	METH_SERPINF1	METH	SERPINF1	YES	34
2018	mRNA_NSUN7	mRNA	NSUN7	YES	4
2019	mRNA_CD33	mRNA	CD33	YES	18
2020	mRNA_MMP7	mRNA	MMP7	YES	23
2022	mRNA_MKNK1	mRNA	MKNK1	YES	21
2023	STV_MRPL45	STV	MRPL45	YES	9
2026	STV_RAB6C	STV	RAB6C	YES	18
2027	STV_CRY1	STV	CRY1	YES	43
2027	STV_PTH2R	STV	PTH2R	YES	12
2029	METH_CHMP4B	METH	CHMP4B	YES	46
2029	STV_CDC23	STV	CDC23	YES	22
2032	mRNA_TBC1D8	mRNA	TBC1D8	YES	10
2033	mRNA_TLR6	mRNA	TLR6	YES	55
2036	mRNA_EREG	mRNA	EREG	YES	59
2037	mirna_MIR519D	miRNA	MIR519D	YES	4
2038	mRNA_PLS3	mRNA	PLS3	YES	13
2040	mRNA_NLRC3	mRNA	NLRC3	YES	25
2041	mRNA_BARX2	mRNA	BARX2	YES	17
2041	mRNA_CTSZ	mRNA	CTSZ	YES	36
2043	mRNA_PAK4	mRNA	PAK4	YES	34
2044	mRNA_SERTAD2	mRNA	SERTAD2	YES	9
2046	mRNA_AL133493.2	mRNA	AL133493.2	NO	0
2047	mRNA_LILRB1	mRNA	LILRB1	YES	55
2048	mirna_MIR4772	miRNA	MIR4772	NO	0
2049	mRNA_CTSW	mRNA	CTSW	YES	13
2050	mirna_MIR4491	miRNA	MIR4491	NO	0
2051	mRNA_ITGB2-AS1	mRNA	ITGB2-AS1	NO	0
2052	mRNA_GPR141	mRNA	GPR141	YES	7
2052	mRNA_AC016735.1	mRNA	AC016735.1	NO	0
2053	mRNA_NLRP2	mRNA	NLRP2	YES	15
2054	METH_CNTD2	METH	CNTD2	YES	4
2054	STV_TYMP	STV	TYMP	YES	22

2055	METH_PAQR7	METH	PAQR7	YES	11
2055	mRNA_CDC42BPG	mRNA	CDC42BPG	YES	17
2056	METH_ANKRD42	METH	ANKRD42	YES	9
2056	mRNA_CTSF	mRNA	CTSF	YES	12
2057	mRNA_CMPK1	mRNA	CMPK1	YES	27
2058	STV_TRPT1	STV	TRPT1	YES	7
2059	STV_LIPE.AS1	STV	LIPE.AS1	NO	0
2059	STV_RAB43	STV	RAB43	YES	17
2060	mRNA_EMID1	mRNA	EMID1	YES	5
2061	mRNA_CEP128	mRNA	CEP128	YES	4
2061	STV_RP11.267N12.2	STV	RP11.267N12.2	NO	0
2063	mRNA_TIMP1	mRNA	TIMP1	YES	39
2063	mRNA_ZNF652	mRNA	ZNF652	YES	7
2064	STV_STRN3	STV	STRN3	YES	20
2065	mirna_MIR2355	miRNA	MIR2355	NO	0
2065	mRNA_TTC7A	mRNA	TTC7A	YES	6
2067	mRNA_SDK2	mRNA	SDK2	YES	11
2068	CNV_PPP2R4	CNV	PPP2R4	YES	24
2069	STV_RHOBTB2	STV	RHOBTB2	YES	11
2070	STV_RP11.294C11.3	STV	RP11.294C11.3	NO	0
2070	STV_SERPINE2	STV	SERPINE2	YES	45
2071	mirna_MIR522	miRNA	MIR522	YES	3
2072	mRNA_SH3RF2	mRNA	SH3RF2	YES	9
2073	METH_SACS	METH	SACS	YES	14
2073	mRNA_RP3-475N16.1	mRNA	RP3-475N16.1	NO	0
2074	mirna_MIR7702	miRNA	MIR7702	NO	0
2074	mRNA_RNF122	mRNA	RNF122	YES	9
2075	mRNA_B3GNT4	mRNA	B3GNT4	YES	14
2076	STV_FAM124B	STV	FAM124B	YES	4
2077	STV_CYS1	STV	CYS1	YES	10
2078	mirna_MIR525	miRNA	MIR525	NO	0
2079	mirna_MIR152	miRNA	MIR152	YES	1
2079	mRNA_CEP170B	mRNA	CEP170B	YES	3
2082	mRNA_GANAB	mRNA	GANAB	YES	18
2084	METH_BRIX1	METH	BRIX1	YES	5
2085	mRNA_RP11-395N3.2	mRNA	RP11-395N3.2	NO	0
2085	STV_NCK1	STV	NCK1	YES	49
2086	mRNA_ITM2C	mRNA	ITM2C	YES	15
2087	mRNA_CAP2	mRNA	CAP2	YES	14
2088	STV_PIGV	STV	PIGV	YES	13
2089	STV_HIST1H4H	STV	HIST1H4H	YES	36
2090	mRNA_LAMC3	mRNA	LAMC3	YES	11
2090	mRNA_ITGB4	mRNA	ITGB4	YES	31
2091	METH_PHLDA2	METH	PHLDA2	YES	11
2092	mRNA_RPAIN	mRNA	RPAIN	YES	11
2093	mRNA_CBWD5	mRNA	CBWD5	YES	2
2094	mRNA_AC093323.3	mRNA	AC093323.3	NO	0
2095	mRNA_FASLG	mRNA	FASLG	YES	54
2097	mRNA_RUNDC1	mRNA	RUNDC1	YES	7
2099	mRNA_CHFR	mRNA	CHFR	YES	19
2100	STV_SLC26A10	STV	SLC26A10	YES	19
2102	STV_SLCO4C1	STV	SLCO4C1	YES	17
2105	mRNA_CD28	mRNA	CD28	YES	46
2106	METH_KLRAP1	METH	KLRAP1	NO	0
2107	mRNA_WDFY4	mRNA	WDFY4	YES	3
2107	mRNA_BIN1	mRNA	BIN1	YES	33
2108	mRNA_SH3TC1	mRNA	SH3TC1	YES	3
2108	mRNA_C11orf45	mRNA	C11orf45	YES	1
2109	STV_HPR	STV	HPR	YES	8
2110	mirna_MIR524	miRNA	MIR524	NO	0

2111	mRNA_PVRL3	mRNA	PVRL3	YES	17
2111	STV_ILKAP	STV	ILKAP	YES	12
2112	mRNA_REEP4	mRNA	REEP4	YES	10
2114	METH_DDOST	METH	DDOST	YES	20
2114	mRNA_TP53	mRNA	TP53	YES	144
2115	METH_CACNA2D3	METH	CACNA2D3	YES	12
2115	METH_TRIM15	METH	TRIM15	YES	12
2116	STV_GDPGP1	STV	GDPGP1	YES	9
2117	mRNA_FOSL2	mRNA	FOSL2	YES	20
2118	mRNA_ATP6V1B2	mRNA	ATP6V1B2	YES	30
2119	mRNA_ZNF880	mRNA	ZNF880	YES	5
2122	METH_LIN54	METH	LIN54	YES	8
2122	mRNA_LY75	mRNA	LY75	YES	11
2123	STV_C1RL	STV	C1RL	YES	11
2125	mRNA_CTD-2314G24.2	mRNA	CTD-2314G24.2	NO	0
2126	mRNA_HDAC7	mRNA	HDAC7	YES	33
2127	mRNA_GZMK	mRNA	GZMK	YES	6
2128	mRNA_HSPA8	mRNA	HSPA8	YES	77
2129	mRNA_ABI3	mRNA	ABI3	YES	8
2129	mRNA_SCML4	mRNA	SCML4	YES	5
2131	mRNA_TRBV5-1	mRNA	TRBV5-1	YES	1
2132	STV_DNAJC9	STV	DNAJC9	YES	10
2133	mRNA_FGL2	mRNA	FGL2	YES	7
2133	mRNA_CXorf40A	mRNA	CXorf40A	YES	1
2134	STV_GDF3	STV	GDF3	YES	29
2135	METH_C19orf54	METH	C19orf54	NO	0
2135	mRNA_RGS13	mRNA	RGS13	YES	10
2137	mirna_MIR526B	miRNA	MIR526B	NO	0
2137	STV_B3GALT6	STV	B3GALT6	YES	17
2139	mRNA_SPI1	mRNA	SPI1	YES	50
2140	METH_AC104532.2	METH	AC104532.2	NO	0
2140	mRNA_TRAF3IP2	mRNA	TRAF3IP2	YES	11
2141	STV_RCOR2	STV	RCOR2	YES	13
2142	mRNA_HNRNPA2B1	mRNA	HNRNPA2B1	YES	37
2143	mRNA_BTBD10	mRNA	BTBD10	YES	6
2143	STV_IL31	STV	IL31	YES	4
2145	METH_AC073342.12	METH	AC073342.12	NO	0
2145	mRNA_S100A16	mRNA	S100A16	YES	13
2146	mRNA_LY6G5C	mRNA	LY6G5C	YES	7
2149	mRNA_ARSJ	mRNA	ARSJ	YES	12
2150	METH_IL10	METH	IL10	YES	80
2151	mRNA_RBMX	mRNA	RBMX	YES	36
2154	mRNA_ARHGEF5	mRNA	ARHGEF5	YES	29
2155	STV_GTPBP6	STV	GTPBP6	YES	4
2156	STV_HIST1H2BL	STV	HIST1H2BL	YES	10
2157	mirna_MIR518E	miRNA	MIR518E	YES	3
2158	mRNA_TTPAL	mRNA	TTPAL	YES	4
2158	mRNA_CXCR2P1	mRNA	CXCR2P1	NO	0
2159	mRNA_CTD-3074O7.5	mRNA	CTD-3074O7.5	NO	0
2161	STV_ZNF100	STV	ZNF100	YES	7
2163	mRNA_PLCG2	mRNA	PLCG2	YES	36
2165	STV_RP11.419C5.2	STV	RP11.419C5.2	NO	0
2167	mirna_MIR516B	miRNA	MIR516B	NO	0
2167	STV_THOC3	STV	THOC3	YES	18
2168	STV_GOLGA8K	STV	GOLGA8K	YES	1
2169	mirna_MIR518C	miRNA	MIR518C	NO	0
2170	mRNA_CYTIP	mRNA	CYTIP	YES	8
2170	mRNA_HS3ST3A1	mRNA	HS3ST3A1	YES	9
2171	METH_MMP8	METH	MMP8	YES	18
2172	mRNA_OSBPL5	mRNA	OSBPL5	YES	19

2172	STV_UBE2QL1	STV	UBE2QL1	YES	8
2173	mRNA_CYB561	mRNA	CYB561	YES	11
2173	STV_C1orf204	STV	C1orf204	YES	2
2174	STV_MRGPRF	STV	MRGPRF	YES	10
2175	METH_C10orf11	METH	C10orf11	YES	1
2175	STV_TNFAIP8L2	STV	TNFAIP8L2	YES	6
2176	mRNA_CCDC69	mRNA	CCDC69	YES	6
2177	mRNA_ZNF703	mRNA	ZNF703	YES	22
2180	CNV_PRRX2	CNV	PRRX2	YES	14
2180	mRNA_CGB7	mRNA	CGB7	YES	8
2181	mRNA_CTLA4	mRNA	CTLA4	YES	22
2182	STV_KLHL21	STV	KLHL21	YES	13
2182	STV_SMAD1	STV	SMAD1	YES	62
2184	mRNA_HAPLN3	mRNA	HAPLN3	YES	8
2184	STV_CWF19L1	STV	CWF19L1	YES	4
2186	mirna_MIR5691	miRNA	MIR5691	NO	0
2186	STV_TUBG1	STV	TUBG1	YES	32
2187	mRNA_RP11-98D18.9	mRNA	RP11-98D18.9	NO	0
2188	mRNA_ZNF552	mRNA	ZNF552	YES	8
2189	mRNA_RUNX3	mRNA	RUNX3	YES	28
2190	mRNA_HAUS1	mRNA	HAUS1	YES	18
2190	STV_MKNK2	STV	MKNK2	YES	27
2192	mRNA_CTA-292E10.9	mRNA	CTA-292E10.9	NO	0
2194	mRNA_HLA-DQB2	mRNA	HLA-DQB2	YES	27
2194	STV_SZRD1	STV	SZRD1	NO	0
2195	mRNA_ADA	mRNA	ADA	YES	72
2196	mRNA_SH2D1A	mRNA	SH2D1A	YES	13
2197	mRNA_C2CD4D	mRNA	C2CD4D	YES	3
2198	mRNA_RGS20	mRNA	RGS20	YES	11
2198	mRNA_CTC1	mRNA	CTC1	YES	26
2199	mRNA_CCL18	mRNA	CCL18	YES	23
2201	mRNA_CLEC5A	mRNA	CLEC5A	YES	21
2201	mRNA_CH17-360D5.3	mRNA	CH17-360D5.3	NO	0
2202	mRNA_C22orf34	mRNA	C22orf34	NO	0
2202	mRNA_RP11-407N17.5	mRNA	RP11-407N17.5	NO	0
2204	STV_MAFA	STV	MAFA	YES	15
2205	mRNA_P2RX2	mRNA	P2RX2	YES	46
2205	mRNA_C17orf67	mRNA	C17orf67	YES	2
2206	mRNA_PLA2G2D	mRNA	PLA2G2D	YES	21
2206	mRNA_TBX1	mRNA	TBX1	YES	71
2208	mRNA_CD8A	mRNA	CD8A	YES	26
2209	mirna_MIR133B	miRNA	MIR133B	YES	7
2209	mRNA_ICOSLG	mRNA	ICOSLG	YES	15
2213	mRNA_CHI3L2	mRNA	CHI3L2	YES	7
2214	CNV_NUP188	CNV	NUP188	YES	23
2216	mRNA_RP11-672L10.6	mRNA	RP11-672L10.6	NO	0
2217	mRNA_RP11-693N9.2	mRNA	RP11-693N9.2	NO	0
2217	mRNA_RP11-50I19.2	mRNA	RP11-50I19.2	NO	0
2218	mRNA_ZBTB42	mRNA	ZBTB42	YES	11
2219	METH_CTD.2600O9.1	METH	CTD.2600O9.1	NO	0
2221	mRNA_RP11-505K9.1	mRNA	RP11-505K9.1	NO	0
2224	mRNA_SOWAHD	mRNA	SOWAHD	YES	1
2226	mRNA_ZNF30	mRNA	ZNF30	YES	8
2227	STV_PAGE4	STV	PAGE4	YES	3
2228	STV_AMY1C	STV	AMY1C	YES	13
2229	mRNA_RRAS2	mRNA	RRAS2	YES	16
2229	mRNA_CD72	mRNA	CD72	YES	10
2230	STV_SUSD2	STV	SUSD2	YES	11
2231	mRNA_ELOVL1	mRNA	ELOVL1	YES	22
2231	STV_LINC00479	STV	LINC00479	NO	0

2232	mRNA_GMNN	mRNA	GMNN	YES	19
2232	mRNA_CD300A	mRNA	CD300A	YES	30
2233	mRNA_RP11-579D7.4	mRNA	RP11-579D7.4	NO	0
2234	mRNA_DUSP2	mRNA	DUSP2	YES	16
2234	STV_KLRG2	STV	KLRG2	YES	3
2235	mirna_MIR3922	miRNA	MIR3922	NO	0
2235	mRNA_MAP2K6	mRNA	MAP2K6	YES	45
2236	mRNA_ACOXL	mRNA	ACOXL	YES	16
2236	STV_PNKP	STV	PNKP	YES	37
2237	STV_IZUMO1	STV	IZUMO1	YES	14
2238	mRNA_CD80	mRNA	CD80	YES	30
2238	mRNA_RP11-195F19.5	mRNA	RP11-195F19.5	NO	0
2240	mRNA_ELP6	mRNA	ELP6	YES	8
2241	METH_CYP4F3	METH	CYP4F3	YES	23
2242	METH_WHSC1	METH	WHSC1	YES	19
2242	mRNA_SH3RF1	mRNA	SH3RF1	YES	15
2243	mRNA_FAM129C	mRNA	FAM129C	NO	0
2243	STV_DAPL1	STV	DAPL1	YES	11
2245	mRNA_KLRG1	mRNA	KLRG1	YES	11
2246	STV_AC006486.9	STV	AC006486.9	NO	0
2247	mRNA_CTC-338M12.5	mRNA	CTC-338M12.5	NO	0
2249	mRNA_N4BP3	mRNA	N4BP3	YES	4
2250	METH_AC005609.17	METH	AC005609.17	NO	0
2250	mRNA_NFKBIA	mRNA	NFKBIA	YES	58
2252	METH_PNPLA2	METH	PNPLA2	YES	26
2252	mRNA_SNHG1	mRNA	SNHG1	NO	0
2254	METH_C19orf52	METH	C19orf52	NO	0
2255	mRNA_HIST1H2BN	mRNA	HIST1H2BN	YES	10
2258	STV_PPP2R5D	STV	PPP2R5D	YES	30
2259	mRNA_MIR4458HG	mRNA	MIR4458HG	NO	0
2260	METH_NLN	METH	NLN	YES	15
2261	mRNA_ZFHX3	mRNA	ZFHX3	YES	30
2263	STV_GRB10	STV	GRB10	YES	17
2264	mRNA_RASA4CP	mRNA	RASA4CP	NO	0
2266	mRNA_RP11-326I11.3	mRNA	RP11-326I11.3	NO	0
2267	mRNA_SMAP2	mRNA	SMAP2	YES	5
2267	STV_ANGEL1	STV	ANGEL1	YES	7
2268	mirna_MIR519A	miRNA	MIR519A	NO	0
2268	STV_RP11.404F10.2	STV	RP11.404F10.2	NO	0
2269	mRNA_HEXIM2	mRNA	HEXIM2	YES	16
2269	STV_TMEM140	STV	TMEM140	YES	3
2273	mRNA_CD19	mRNA	CD19	YES	21
2274	mirna_MIR425	miRNA	MIR425	YES	3
2275	mirna_MIR519A	miRNA	MIR519A	NO	0
2275	mRNA_LZTR1	mRNA	LZTR1	YES	4
2276	STV_APOF	STV	APOF	YES	11
2277	mRNA_ZNF239	mRNA	ZNF239	YES	12
2278	METH_RP11.104H15.7	METH	RP11.104H15.7	NO	0
2278	mRNA_EFNB1	mRNA	EFNB1	YES	22
2279	mirna_MIR96	miRNA	MIR96	YES	2
2279	mRNA_PAFAH2	mRNA	PAFAH2	YES	9
2280	mRNA_RP11-848P1.3	mRNA	RP11-848P1.3	NO	0
2281	mRNA_FAM83F	mRNA	FAM83F	NO	0
2281	mRNA_SNHG19	mRNA	SNHG19	NO	0
2282	mRNA_AC022007.5	mRNA	AC022007.5	NO	0
2283	mRNA_KCTD1	mRNA	KCTD1	YES	11
2284	CNV_C9orf50	CNV	C9orf50	NO	0
2285	mRNA_EFCC1	mRNA	EFCC1	YES	1
2286	STV_SCRT1	STV	SCRT1	YES	13
2287	mRNA_CD1B	mRNA	CD1B	YES	17

2288	mRNA_SPN	mRNA	SPN	YES	34
2289	STV_B3GALNT1	STV	B3GALNT1	YES	12
2290	mRNA_MS4A7	mRNA	MS4A7	YES	2
2290	STV_GJB7	STV	GJB7	YES	7
2292	mRNA_RBMS1	mRNA	RBMS1	YES	9
2294	mRNA_GJB4	mRNA	GJB4	YES	11
2294	STV_AC093690.1	STV	AC093690.1	NO	0
2298	mRNA_ITPKC	mRNA	ITPKC	YES	12
2300	STV_CAPN10	STV	CAPN10	YES	19
2301	mRNA_TREML2	mRNA	TREML2	YES	8
2301	mRNA_LINC00910	mRNA	LINC00910	NO	0
2302	STV_TBX18	STV	TBX18	YES	23
2303	METH_FAM83A	METH	FAM83A	YES	6
2304	mRNA_RP3-402G11.26	mRNA	RP3-402G11.26	NO	0
2305	mRNA_MS4A14	mRNA	MS4A14	YES	2
2306	mRNA_CYBB	mRNA	CYBB	YES	54
2307	mRNA_BMF	mRNA	BMF	YES	17
2307	mRNA_LITAF	mRNA	LITAF	YES	40
2309	mRNA_TARDBP	mRNA	TARDBP	YES	30
2310	mirna_MIR520C	miRNA	MIR520C	NO	0
2313	mRNA_KCNJ5	mRNA	KCNJ5	YES	22
2314	CNV_HMCN2	CNV	HMCN2	YES	12
2316	mRNA_PYCR1	mRNA	PYCR1	YES	15
2318	mRNA_WIPF1	mRNA	WIPF1	YES	17
2319	METH_ABCA6	METH	ABCA6	YES	12
2320	mRNA_IL2RA	mRNA	IL2RA	YES	34
2324	mRNA_CYP27B1	mRNA	CYP27B1	YES	33
2324	mRNA_RASGRP4	mRNA	RASGRP4	YES	24
2325	mRNA_HIST1H1PS1	mRNA	HIST1H1PS1	NO	0
2326	mirna_MIR520E	miRNA	MIR520E	NO	0
2326	mRNA_IL2RG	mRNA	IL2RG	YES	22
2327	mRNA_HOXC13-AS	mRNA	HOXC13-AS	NO	0
2328	mRNA_FAM159A	mRNA	FAM159A	YES	2
2328	mRNA_VPS9D1-AS1	mRNA	VPS9D1-AS1	NO	0
2329	STV_ZACN	STV	ZACN	YES	14
2330	METH_SCGB2A2	METH	SCGB2A2	YES	4
2330	STV_CALM2	STV	CALM2	YES	61
2331	CNV_SH3GLB2	CNV	SH3GLB2	YES	6
2332	METH_TTLL2	METH	TTLL2	YES	4
2332	mRNA_CD1C	mRNA	CD1C	YES	18
2333	mRNA_CD83	mRNA	CD83	YES	15
2333	STV_HSF4	STV	HSF4	YES	21
2334	mRNA_MFSD1	mRNA	MFSD1	YES	4
2334	mRNA_FAAH2	mRNA	FAAH2	YES	8
2335	mRNA_BTLA	mRNA	BTLA	YES	11
2336	mRNA_CCAR1	mRNA	CCAR1	YES	17
2337	METH_C2orf61	METH	C2orf61	NO	0
2337	mirna_MIR27A	miRNA	MIR27A	YES	4
2340	STV_BMS1P8	STV	BMS1P8	NO	0
2340	STV_RP11.302B13.5	STV	RP11.302B13.5	NO	0
2341	mRNA_PARP15	mRNA	PARP15	YES	11
2341	mRNA_ADCY6	mRNA	ADCY6	YES	34
2343	mRNA_GPR18	mRNA	GPR18	YES	17
2344	mRNA_OVOL1	mRNA	OVOL1	YES	19
2345	STV_WDR36	STV	WDR36	YES	14
2346	mRNA_PRNP	mRNA	PRNP	YES	86
2347	METH_ARHGAP35	METH	ARHGAP35	YES	44
2348	mRNA_CD1A	mRNA	CD1A	YES	17
2349	mRNA_ZNF749	mRNA	ZNF749	YES	7
2350	mRNA_CD300E	mRNA	CD300E	YES	7

2351	mRNA_GPR153	mRNA	GPR153	YES	7
2351	STV_ZNF497	STV	ZNF497	YES	6
2353	mRNA_TYROBP	mRNA	TYROBP	YES	20
2354	mRNA_ARHGAP9	mRNA	ARHGAP9	YES	11
2356	mRNA_PEX11A	mRNA	PEX11A	YES	15
2356	mRNA_MILR1	mRNA	MILR1	YES	7
2357	mRNA_ADK	mRNA	ADK	YES	20
2357	mRNA_IFNWP19	mRNA	IFNWP19	NO	0
2358	STV_AC096579.13	STV	AC096579.13	NO	0
2359	METH_MIR10B	METH	MIR10B	YES	2
2361	mRNA_CD163	mRNA	CD163	YES	12
2362	mirna_MIR150	miRNA	MIR150	YES	5
2362	STV_CNBD1	STV	CNBD1	NO	0
2363	mRNA_IL10	mRNA	IL10	YES	80
2367	mRNA_CD37	mRNA	CD37	YES	9
2368	METH_KRT33A	METH	KRT33A	YES	6
2368	mRNA_RP11-793H13.11	mRNA	RP11-793H13.11	NO	0
2369	mRNA_SCPEP1	mRNA	SCPEP1	YES	12
2371	mRNA_LINC01451	mRNA	LINC01451	NO	0
2372	mirna_MIR519B	miRNA	MIR519B	YES	5
2375	mRNA_POLN	mRNA	POLN	YES	17
2375	mRNA_RERE	mRNA	RERE	YES	25
2376	mRNA_DOK2	mRNA	DOK2	YES	11
2377	mRNA_MTRNR2L1	mRNA	MTRNR2L1	YES	2
2379	mRNA_TRAF3IP3	mRNA	TRAF3IP3	YES	5
2380	METH_PRR5	METH	PRR5	YES	9
2381	mRNA_LCP2	mRNA	LCP2	YES	15
2382	mRNA_FCN1	mRNA	FCN1	YES	26
2382	mRNA_LILRB4	mRNA	LILRB4	YES	15
2384	mRNA_ATP6AP1	mRNA	ATP6AP1	YES	31
2384	STV_C12orf74	STV	C12orf74	NO	0
2385	CNV_PTGES	CNV	PTGES	YES	25
2387	mRNA_SH3KBP1	mRNA	SH3KBP1	YES	26
2387	STV_KLHL12	STV	KLHL12	YES	21
2388	mRNA_LILRB2	mRNA	LILRB2	YES	39
2389	CNV_ASB6	CNV	ASB6	YES	7
2389	mRNA_IL16	mRNA	IL16	YES	18
2390	STV_ASMTL	STV	ASMTL	YES	9
2391	METH_RASL11A	METH	RASL11A	YES	12
2391	mRNA_CCDC88B	mRNA	CCDC88B	YES	14
2392	mirna_MIR1283	miRNA	MIR1283	NO	0
2393	mRNA_ITGA4	mRNA	ITGA4	YES	39
2394	mRNA_SDC3	mRNA	SDC3	YES	14
2395	mRNA_RP11-150O12.1	mRNA	RP11-150O12.1	NO	0
2395	STV_TMEM196	STV	TMEM196	YES	2
2396	mRNA_GATA3-AS1	mRNA	GATA3-AS1	NO	0
2397	mRNA_ATG7	mRNA	ATG7	YES	48
2397	STV_JMJD7	STV	JMJD7	YES	1
2398	mRNA_CRTAM	mRNA	CRTAM	YES	20
2399	mRNA_ALPP	mRNA	ALPP	YES	15
2400	mirna_MIR3927	miRNA	MIR3927	NO	0
2400	STV_CES1P2	STV	CES1P2	NO	0
2403	mRNA_RP11-367J11.3	mRNA	RP11-367J11.3	NO	0
2404	METH_GSTP1	METH	GSTP1	YES	73
2405	mRNA_F3	mRNA	F3	YES	29
2405	STV_RP11.706C16.8	STV	RP11.706C16.8	NO	0
2408	CNV_FNBP1	CNV	FNBP1	YES	16
2408	mRNA_CCNT2-AS1	mRNA	CCNT2-AS1	NO	0
2409	CNV_GPR107	CNV	GPR107	YES	8
2409	mRNA_BDKRB1	mRNA	BDKRB1	YES	26

2410	METH_ALDH16A1	METH	ALDH16A1	YES	6
2410	mRNA_HIST1H3E	mRNA	HIST1H3E	YES	32
2411	STV_CTD.2510F5.6	STV	CTD.2510F5.6	NO	0
2412	STV_NIP7	STV	NIP7	YES	9
2416	STV_SEPT14	STV	SEPT14	YES	7
2417	mRNA_KLF7	mRNA	KLF7	YES	18
2418	mRNA_TBX21	mRNA	TBX21	YES	18
2420	mRNA_PTGFRN	mRNA	PTGFRN	YES	9
2423	STV_RNF121	STV	RNF121	YES	9
2425	mRNA_CTSV	mRNA	CTSV	YES	42
2425	mRNA_CD3D	mRNA	CD3D	YES	20
2428	STV_OPA1	STV	OPA1	YES	49
2429	STV_PLA2G12B	STV	PLA2G12B	YES	7
2430	mRNA_C21orf2	mRNA	C21orf2	YES	14
2431	mRNA_ITGA6	mRNA	ITGA6	YES	52
2431	mRNA_MAP4K1	mRNA	MAP4K1	YES	23
2432	mRNA_LL21NC02-21A1.1	mRNA	LL21NC02-21A1.1	NO	0
2433	mRNA_HIST1H2AC	mRNA	HIST1H2AC	YES	10
2434	mRNA_MTL5	mRNA	MTL5	YES	9
2435	mRNA_KLHL21	mRNA	KLHL21	YES	13
2437	mRNA_HSPA2	mRNA	HSPA2	YES	37
2438	mRNA_PORCN	mRNA	PORCN	YES	15
2439	mRNA_FAM110A	mRNA	FAM110A	YES	5
2440	mRNA_DOPEY2	mRNA	DOPEY2	YES	12
2440	mRNA_BTG2	mRNA	BTG2	YES	30
2441	STV_SAPCD1	STV	SAPCD1	NO	0
2442	STV_NDUFB2	STV	NDUFB2	YES	9
2444	mRNA_HNRNPL	mRNA	HNRNPL	YES	19
2445	mRNA_EIF2AK4	mRNA	EIF2AK4	YES	48
2446	mRNA_ITPRIPL1	mRNA	ITPRIPL1	YES	3
2447	mRNA_ARHGAP25	mRNA	ARHGAP25	YES	6
2447	STV_SYNM	STV	SYNM	YES	18
2448	METH_SLC25A16	METH	SLC25A16	YES	11
2450	STV_MUC6	STV	MUC6	YES	7
2451	mRNA_PGBD2	mRNA	PGBD2	NO	0
2451	STV_SLC35B1	STV	SLC35B1	YES	12
2452	mRNA_CD4	mRNA	CD4	YES	71
2453	mRNA_CLEC17A	mRNA	CLEC17A	YES	7
2454	mRNA_CCR5	mRNA	CCR5	YES	40
2455	mRNA_MT3	mRNA	MT3	YES	81
2456	mRNA_NUP50	mRNA	NUP50	YES	25
2456	mRNA_AJUBA	mRNA	AJUBA	YES	48
2457	mRNA_GABPB1	mRNA	GABPB1	YES	12
2458	mRNA_C1orf64	mRNA	C1orf64	NO	0
2460	STV_FAM216B	STV	FAM216B	NO	0
2461	mRNA_FAM126A	mRNA	FAM126A	YES	11
2462	mRNA_AC079922.3	mRNA	AC079922.3	NO	0
2463	mRNA_DYNLL1	mRNA	DYNLL1	YES	52
2463	STV_GPX5	STV	GPX5	YES	11
2464	mRNA_CHTF8	mRNA	CHTF8	YES	11
2465	mirna_MIR1537	miRNA	MIR1537	NO	0
2465	mirna_MIR4522	miRNA	MIR4522	NO	0
2466	METH_MGST1	METH	MGST1	YES	30
2467	mRNA_CD40LG	mRNA	CD40LG	YES	33
2467	mRNA_RP11-546D6.3	mRNA	RP11-546D6.3	NO	0
2468	mRNA_P4HA2	mRNA	P4HA2	YES	16
2469	METH_LRP2BP	METH	LRP2BP	YES	2
2469	mRNA_MED9	mRNA	MED9	YES	7
2470	mRNA_SUMO2	mRNA	SUMO2	YES	13
2471	STV_MRPL52	STV	MRPL52	YES	10

2473	mRNA_RP11-796E2.4	mRNA	RP11-796E2.4	NO	0
2473	STV_HNRNPL	STV	HNRNPL	YES	19
2474	mRNA_IL3RA	mRNA	IL3RA	YES	14
2474	STV_KBTBD4	STV	KBTBD4	YES	7
2477	METH_C7orf55	METH	C7orf55	YES	1
2477	mRNA_TRBV28	mRNA	TRBV28	YES	1
2478	mRNA_FAIM3	mRNA	FAIM3	YES	4
2478	STV_ISL2	STV	ISL2	YES	14
2480	STV_AVPR1B	STV	AVPR1B	YES	18
2482	mRNA_HNRNPA3	mRNA	HNRNPA3	YES	20
2482	mRNA_TCEAL3	mRNA	TCEAL3	YES	5
2483	mRNA_IL2ORB	mRNA	IL2ORB	YES	17
2486	mRNA_HLA-DOA	mRNA	HLA-DOA	YES	19
2488	STV_AP5Z1	STV	AP5Z1	YES	13
2491	mRNA_GOLPH3L	mRNA	GOLPH3L	YES	16
2492	mRNA_MS4A4A	mRNA	MS4A4A	YES	2
2494	STV_STARD4	STV	STARD4	YES	12
2495	METH_LDHAL6A	METH	LDHAL6A	YES	9
2495	mRNA_YIPF1	mRNA	YIPF1	YES	6
2496	mRNA_LYL1	mRNA	LYL1	YES	13
2496	STV_CWC15	STV	CWC15	YES	11
2497	mRNA_PVRL2	mRNA	PVRL2	YES	34
2497	mRNA_HCAR1	mRNA	HCAR1	YES	7
2499	mRNA_CCL2	mRNA	CCL2	YES	122
2500	mRNA_AC005077.12	mRNA	AC005077.12	NO	0
2500	STV_NAA10	STV	NAA10	YES	23
2501	mRNA_PARD6G-AS1	mRNA	PARD6G-AS1	NO	0
2502	mirna_MIR4444	miRNA	MIR4444	NO	0
2504	mRNA_RAB38	mRNA	RAB38	YES	38
2504	STV_ADCK5	STV	ADCK5	YES	8
2505	mRNA_SLA	mRNA	SLA	YES	15
2506	METH_AC004231.2	METH	AC004231.2	NO	0
2507	mirna_MIR24	miRNA	MIR24	NO	0
2508	mRNA_CXCR4	mRNA	CXCR4	YES	51
2510	mRNA_TTC9	mRNA	TTC9	YES	1
2511	mirna_MIR23A	miRNA	MIR23A	YES	5
2512	mRNA_RPL29P19	mRNA	RPL29P19	NO	0
2513	mRNA_HMGB2	mRNA	HMGB2	YES	72
2514	METH_CCL16	METH	CCL16	YES	23
2514	STV_C15orf61	STV	C15orf61	YES	1
2517	METH_Telomerase.vert	METH	Telomerase.vert	NO	0
2517	mRNA_MTERF2	mRNA	MTERF2	YES	9
2518	mRNA_ARHGAP4	mRNA	ARHGAP4	YES	21
2518	STV_CNIH1	STV	CNIH1	YES	14
2519	mRNA_FCRLA	mRNA	FCRLA	YES	4
2519	mRNA_C19orf38	mRNA	C19orf38	YES	2
2520	STV_LY96	STV	LY96	YES	29
2521	mRNA_SNAP23	mRNA	SNAP23	YES	32
2522	mRNA_STARD5	mRNA	STARD5	YES	10
2523	mRNA_MYO1F	mRNA	MYO1F	YES	17
2523	mRNA_CTD-2006C1.2	mRNA	CTD-2006C1.2	NO	0
2524	mRNA_STON2	mRNA	STON2	YES	17
2525	mRNA_AC068282.3	mRNA	AC068282.3	NO	0
2526	METH_JMY	METH	JMY	YES	20
2527	mRNA_IGSF6	mRNA	IGSF6	YES	6
2527	STV_CCNJL	STV	CCNJL	YES	2
2528	mRNA_FCRL5	mRNA	FCRL5	YES	4
2528	mRNA_TRBC2	mRNA	TRBC2	YES	2
2529	mRNA_E2F2	mRNA	E2F2	YES	21
2530	mRNA_UBE2D4	mRNA	UBE2D4	YES	13

2531	mRNA_SLC26A11	mRNA	SLC26A11	YES	28
2531	STV_GTF2I	STV	GTF2I	YES	20
2532	mRNA_CST7	mRNA	CST7	YES	11
2532	mRNA_AC018804.7	mRNA	AC018804.7	NO	0
2533	mRNA_INPP1	mRNA	INPP1	YES	10
2534	mRNA_TCF7	mRNA	TCF7	YES	30
2537	mRNA_UBA7	mRNA	UBA7	YES	19
2538	mRNA_DNAJC10	mRNA	DNAJC10	YES	24
2539	mRNA_PTAFR	mRNA	PTAFR	YES	57
2540	mRNA_GPR171	mRNA	GPR171	YES	11
2540	STV_MCUR1	STV	MCUR1	YES	13
2541	mRNA_MSANTD3	mRNA	MSANTD3	YES	1
2542	mRNA_NCKIPSD	mRNA	NCKIPSD	YES	12
2543	mRNA_SERPINB9P1	mRNA	SERPINB9P1	NO	0
2543	STV_IGKJ2	STV	IGKJ2	NO	0
2544	mirna_MIR4778	miRNA	MIR4778	NO	0
2545	mRNA_DLX6	mRNA	DLX6	YES	15
2546	STV_RELA	STV	RELA	YES	116
2548	mRNA_GIMAP4	mRNA	GIMAP4	YES	4
2549	mRNA_FAM26F	mRNA	FAM26F	YES	8
2552	mRNA_L3HYPDH	mRNA	L3HYPDH	YES	4
2552	mRNA_MT-RNR2	mRNA	MT-RNR2	NO	0
2554	mRNA_KIR2DL4	mRNA	KIR2DL4	YES	9
2555	STV_TBX10	STV	TBX10	YES	7
2556	mirna_MIR520D	miRNA	MIR520D	NO	0
2556	mRNA_SH3RF3	mRNA	SH3RF3	YES	2
2557	METH_RAD51L3.RFFL	METH	RAD51L3.RFFL	NO	0
2558	mRNA_STK39	mRNA	STK39	YES	47
2559	mirna_MIR3667	miRNA	MIR3667	NO	0
2559	mRNA_SRP68	mRNA	SRP68	YES	20
2561	mRNA_SYNGR2	mRNA	SYNGR2	YES	8
2561	mRNA_SLFN12L	mRNA	SLFN12L	YES	3
2562	METH_CCNC	METH	CCNC	YES	15
2562	STV_H2AFZ	STV	H2AFZ	YES	17
2563	METH_FGFBP2	METH	FGFBP2	YES	3
2563	STV_GADD45B	STV	GADD45B	YES	14
2564	mirna_MIR206	miRNA	MIR206	YES	4
2566	mirna_MIR4473	miRNA	MIR4473	NO	0
2567	mRNA_SLA2	mRNA	SLA2	YES	31
2568	mRNA_KRT83	mRNA	KRT83	YES	11
2568	STV_AF230666.2	STV	AF230666.2	NO	0
2569	METH_TMEM100	METH	TMEM100	YES	25
2571	mRNA_TLR2	mRNA	TLR2	YES	88
2571	mRNA_FAM163A	mRNA	FAM163A	YES	2
2573	METH_IL1RN	METH	IL1RN	YES	37
2575	mRNA_TIMD4	mRNA	TIMD4	YES	3
2575	mRNA_LGALS9	mRNA	LGALS9	YES	57
2576	METH_MEPE	METH	MEPE	YES	12
2577	mRNA_HOXD10	mRNA	HOXD10	YES	29
2578	STV_CD6	STV	CD6	YES	24
2579	mRNA_TLR8	mRNA	TLR8	YES	38
2580	mRNA_VPREB3	mRNA	VPREB3	YES	6
2584	mirna_MIR1277	miRNA	MIR1277	NO	0
2584	STV_SLC9B1P3	STV	SLC9B1P3	NO	0
2585	mRNA_MYBPH	mRNA	MYBPH	YES	14
2588	mRNA_KANSL1-AS1	mRNA	KANSL1-AS1	NO	0
2588	STV_RGCC	STV	RGCC	YES	42
2589	mRNA_SPATA7	mRNA	SPATA7	YES	16
2589	mRNA_NCKAP1L	mRNA	NCKAP1L	YES	49
2590	mRNA_NPL	mRNA	NPL	YES	10

2590	mRNA_AC109826.1	mRNA	AC109826.1	NO	0
2592	mRNA_FOXK1	mRNA	FOXK1	YES	19
2593	CNV_C9orf78	CNV	C9orf78	YES	3
2594	STV_SNRPN	STV	SNRPN	YES	19
2596	mRNA_GVINP1	mRNA	GVINP1	NO	0
2596	STV_CXCL17	STV	CXCL17	YES	11
2597	mirna_MIR4724	miRNA	MIR4724	NO	0
2598	mRNA_TLX1	mRNA	TLX1	YES	14
2598	STV_UROS	STV	UROS	YES	14
2599	mRNA_VIPR1-AS1	mRNA	VIPR1-AS1	NO	0
2600	STV_CMPK2	STV	CMPK2	YES	18
2601	STV_LDHA	STV	LDHA	YES	33
2605	mRNA_LTB	mRNA	LTB	YES	16
2605	mRNA_CH507-42P11.8	mRNA	CH507-42P11.8	NO	0
2607	mRNA_PCBP3	mRNA	PCBP3	YES	13
2610	mRNA_CERKL	mRNA	CERKL	YES	15
2611	STV_RP11.983P16.4	STV	RP11.983P16.4	NO	0
2612	mirna_MIR517C	miRNA	MIR517C	NO	0
2612	mRNA_ELOVL4	mRNA	ELOVL4	YES	21
2613	mRNA_CCDC3	mRNA	CCDC3	YES	5
2613	mRNA_CCL4L1	mRNA	CCL4L1	YES	6
2614	mRNA_FAHD2B	mRNA	FAHD2B	YES	4
2615	mRNA_TRAT1	mRNA	TRAT1	YES	22
2615	mRNA_DLG5-AS1	mRNA	DLG5-AS1	NO	0
2617	STV_SLC39A1	STV	SLC39A1	YES	19
2619	METH_CD180	METH	CD180	YES	12
2620	STV_C1QTNF9B.AS1	STV	C1QTNF9B.AS1	NO	0
2621	STV_HIST1H3A	STV	HIST1H3A	YES	32
2621	STV_OR10AC1	STV	OR10AC1	NO	0
2622	mRNA_EHD1	mRNA	EHD1	YES	44
2623	mRNA_RENBP	mRNA	RENBP	YES	17
2623	mRNA_C11orf21	mRNA	C11orf21	YES	1
2625	METH_KISS1	METH	KISS1	YES	19
2626	mRNA_MMP10	mRNA	MMP10	YES	15
2626	mRNA_HLA-DPA1	mRNA	HLA-DPA1	YES	35
2629	METH_TMEM110	METH	TMEM110	YES	13
2629	mRNA_MAP7D1	mRNA	MAP7D1	YES	7
2631	STV_MAPK7	STV	MAPK7	YES	56
2632	mRNA_RHBDD2	mRNA	RHBDD2	YES	9
2633	mRNA_BLK	mRNA	BLK	YES	26
2634	mRNA_ATPAF2	mRNA	ATPAF2	YES	5
2635	mRNA_MBOAT7	mRNA	MBOAT7	YES	16
2636	mRNA_IGFLR1	mRNA	IGFLR1	YES	4
2638	METH_KALRN	METH	KALRN	YES	51
2638	STV_HNF4G	STV	HNF4G	YES	18
2639	STV_OR8K3	STV	OR8K3	YES	12
2639	STV_STKLD1	STV	STKLD1	YES	5
2640	METH_ZNF689	METH	ZNF689	YES	8
2640	mRNA_AVPI1	mRNA	AVPI1	YES	3
2641	mRNA_SIGLEC16	mRNA	SIGLEC16	NO	0
2641	STV_MRPL21	STV	MRPL21	YES	11
2644	METH_GRM5	METH	GRM5	YES	41
2647	mRNA_RAMP1	mRNA	RAMP1	YES	29
2648	mRNA_C9orf91	mRNA	C9orf91	YES	1
2648	STV_LHFPL1	STV	LHFPL1	YES	2
2649	mRNA_SSH3	mRNA	SSH3	YES	15
2650	CNV_WDR34	CNV	WDR34	YES	18
2650	mirna_MIR518D	miRNA	MIR518D	NO	0
2653	mRNA_C12orf65	mRNA	C12orf65	YES	9
2654	mRNA_AC005682.5	mRNA	AC005682.5	NO	0

2654	STV_PNPLA5	STV	PNPLA5	YES	11
2656	mRNA_GPR174	mRNA	GPR174	YES	9
2657	mRNA_NPRL2	mRNA	NPRL2	YES	15
2657	STV_TXN	STV	TXN	YES	42
2658	mRNA_RP11-323C15.2	mRNA	RP11-323C15.2	NO	0
2659	mRNA_LGALS9B	mRNA	LGALS9B	YES	3
2660	mRNA_SPRY3	mRNA	SPRY3	YES	6
2660	STV_PLAGL1	STV	PLAGL1	YES	20
2661	mRNA_GYG1	mRNA	GYG1	YES	16
2662	mRNA_LINC00528	mRNA	LINC00528	NO	0
2664	mRNA_TNFRSF13C	mRNA	TNFRSF13C	YES	15
2665	mRNA_ACKR4	mRNA	ACKR4	YES	19
2666	STV_RPP38	STV	RPP38	YES	13
2667	METH_CCR4	METH	CCR4	YES	24
2669	METH_MGAT4C	METH	MGAT4C	YES	11
2669	STV_KCNMB3P1	STV	KCNMB3P1	NO	0
2672	mRNA_KIAA0930	mRNA	KIAA0930	NO	0
2672	STV_ANKRD60	STV	ANKRD60	YES	1
2673	METH_LTB	METH	LTB	YES	16
2673	mRNA_MARCO	mRNA	MARCO	YES	21
2676	mRNA_BTG1	mRNA	BTG1	YES	15
2676	mRNA_RP11-291B21.2	mRNA	RP11-291B21.2	NO	0
2678	mRNA_GNAI1	mRNA	GNAI1	YES	44
2678	mRNA_SOX14	mRNA	SOX14	YES	17
2679	mRNA_POU2AF1	mRNA	POU2AF1	YES	14
2681	mRNA_CCDC171	mRNA	CCDC171	YES	4
2682	mRNA_THSD1	mRNA	THSD1	YES	6
2682	mRNA_SETMAR	mRNA	SETMAR	YES	45
2683	mRNA_CD1D	mRNA	CD1D	YES	32
2684	METH_NPVF	METH	NPVF	YES	5
2685	mRNA_REPS2	mRNA	REPS2	YES	8
2685	mRNA_PLEKHG5	mRNA	PLEKHG5	YES	21
2686	mRNA_ARHGDIB	mRNA	ARHGDIB	YES	21
2687	mRNA_STK17B	mRNA	STK17B	YES	18
2687	mRNA_C3AR1	mRNA	C3AR1	YES	26
2688	METH_ABCB11	METH	ABCB11	YES	24
2688	mRNA_OSCAR	mRNA	OSCAR	YES	9
2690	mRNA_MRC1	mRNA	MRC1	YES	21
2691	METH_AC069368.3	METH	AC069368.3	NO	0
2691	mRNA_RNASEH1-AS1	mRNA	RNASEH1-AS1	NO	0
2692	mRNA_CDH1	mRNA	CDH1	YES	75
2693	mRNA_SERPINB9	mRNA	SERPINB9	YES	24
2694	mRNA_PKP3	mRNA	PKP3	YES	22
2696	mirna_MIR498	miRNA	MIR498	NO	0
2698	mRNA_NT5M	mRNA	NT5M	YES	14
2698	STV_ZFR2	STV	ZFR2	YES	2
2699	mRNA_DPEP2	mRNA	DPEP2	YES	12
2700	STV_GABARAPL1	STV	GABARAPL1	YES	27
2702	mRNA_DOCK2	mRNA	DOCK2	YES	33
2702	STV_MRPS25	STV	MRPS25	YES	7
2703	STV_MAGEH1	STV	MAGEH1	YES	3
2707	mRNA_CD8B	mRNA	CD8B	YES	19
2708	mRNA_ATP10D	mRNA	ATP10D	YES	19
2708	mRNA_GJA1	mRNA	GJA1	YES	88
2709	METH_PDE6A	METH	PDE6A	YES	16
2710	mRNA_ELL3	mRNA	ELL3	YES	21
2711	METH_CTD.2330K9.2	METH	CTD.2330K9.2	NO	0
2711	STV_PVRL2	STV	PVRL2	YES	34
2712	mRNA_AD000864.6	mRNA	AD000864.6	NO	0
2712	STV_RP11.571M6.7	STV	RP11.571M6.7	NO	0

2715	mRNA_SLAMF8	mRNA	SLAMF8	YES	8
2715	mRNA_LINC00683	mRNA	LINC00683	NO	0
2717	mRNA_AC005682.6	mRNA	AC005682.6	NO	0
2717	STV_ANGPTL3	STV	ANGPTL3	YES	37
2719	mRNA_GRAP2	mRNA	GRAP2	YES	21
2720	mRNA_ARMCX5	mRNA	ARMCX5	YES	1
2721	mRNA_SNAI2	mRNA	SNAI2	YES	57
2721	mRNA_SLCO5A1	mRNA	SLCO5A1	YES	8
2722	mRNA_CD247	mRNA	CD247	YES	20
2723	METH_AC002539.1	METH	AC002539.1	NO	0
2724	METH_CD226	METH	CD226	YES	28
2725	mRNA_FOLR2	mRNA	FOLR2	YES	20
2725	mRNA_THAP7-AS1	mRNA	THAP7-AS1	NO	0
2726	mRNA_TNFSF8	mRNA	TNFSF8	YES	17
2726	mRNA_CD300LB	mRNA	CD300LB	YES	6
2728	mirna_MIR518B	miRNA	MIR518B	YES	8
2728	STV_DDOST	STV	DDOST	YES	20
2730	STV_ZNF22	STV	ZNF22	YES	9
2731	STV_TATDN2	STV	TATDN2	YES	12
2732	mRNA_OVOL2	mRNA	OVOL2	YES	33
2732	mRNA_SPINT2	mRNA	SPINT2	YES	19
2734	METH_PSMD1	METH	PSMD1	YES	41
2736	mirna_MIR205	miRNA	MIR205	YES	3
2736	mRNA_NAPA	mRNA	NAPA	YES	33
2738	CNV_RN7SL159P	CNV	RN7SL159P	NO	0
2738	STV_PTCHD3P3	STV	PTCHD3P3	NO	0
2740	STV_TRGV8	STV	TRGV8	YES	1
2741	mRNA_AC005077.14	mRNA	AC005077.14	NO	0
2742	STV_IAPP	STV	IAPP	YES	26
2744	mRNA_PCED1B-AS1	mRNA	PCED1B-AS1	NO	0
2748	mRNA_HEMK1	mRNA	HEMK1	YES	12
2748	mRNA_LIMD2	mRNA	LIMD2	YES	4
2749	mRNA_CD3E	mRNA	CD3E	YES	52
2750	mRNA_CECR1	mRNA	CECR1	YES	15
2751	mRNA_HNRNPKP1	mRNA	HNRNPKP1	NO	0
2752	METH_CLDN1	METH	CLDN1	YES	39
2753	METH_CP	METH	CP	YES	19
2753	mRNA_STAP1	mRNA	STAP1	YES	29
2755	METH_FMO2	METH	FMO2	YES	19
2755	mRNA_CYP2U1	mRNA	CYP2U1	YES	18
2757	METH_RP11.164H13.1	METH	RP11.164H13.1	NO	0
2758	STV_B3GAT2	STV	B3GAT2	YES	12
2760	mRNA_GATA3	mRNA	GATA3	YES	152
2761	mRNA_PITPNB	mRNA	PITPNB	YES	12
2762	METH_MIR423	METH	MIR423	YES	3
2762	STV_STYXL1	STV	STYXL1	YES	7
2763	mRNA_PAX1	mRNA	PAX1	YES	20
2764	mRNA_TMEM194B	mRNA	TMEM194B	YES	1
2765	METH_KRT13	METH	KRT13	YES	14
2766	METH_DPCR1	METH	DPCR1	YES	3
2766	mRNA_RP11-686D22.4	mRNA	RP11-686D22.4	NO	0
2768	mRNA_DGKA	mRNA	DGKA	YES	22
2768	mRNA_AC006129.2	mRNA	AC006129.2	NO	0
2769	mRNA_MMP3	mRNA	MMP3	YES	20
2769	STV_AC069154.4	STV	AC069154.4	NO	0
2771	STV_HDAC5	STV	HDAC5	YES	49
2772	METH_EIF5A2	METH	EIF5A2	YES	24
2773	CNV_RN7SL665P	CNV	RN7SL665P	NO	0
2773	mRNA_CTD-2583A14.11	mRNA	CTD-2583A14.11	NO	0
2774	METH_AP000347.2	METH	AP000347.2	NO	0

2774	STV_LAT	STV	LAT	YES	34
2777	STV_AC104073.2	STV	AC104073.2	NO	0
2778	mRNA_PPP1R15A	mRNA	PPP1R15A	YES	39
2778	mRNA_TMIGD2	mRNA	TMIGD2	YES	13
2780	METH_EPSTI1	METH	EPSTI1	NO	0
2781	mRNA_TRPV2	mRNA	TRPV2	YES	26
2782	mRNA_CACNB3	mRNA	CACNB3	YES	26
2783	STV_HMGN2P8	STV	HMGN2P8	NO	0
2785	mRNA_RP11-58O9.2	mRNA	RP11-58O9.2	NO	0
2786	mRNA_IL7R	mRNA	IL7R	YES	26
2787	STV_CALHM3	STV	CALHM3	YES	8
2788	mRNA_TP53AIP1	mRNA	TP53AIP1	YES	5
2788	mRNA_CLEC1A	mRNA	CLEC1A	YES	8
2789	mirna_MIR512	miRNA	MIR512	NO	0
2789	mRNA_MKRN2OS	mRNA	MKRN2OS	NO	0
2790	mRNA_CCDC85C	mRNA	CCDC85C	YES	5
2790	mRNA_RP4-737E23.2	mRNA	RP4-737E23.2	NO	0
2791	METH_TUBAL3	METH	TUBAL3	YES	9
2793	METH_GAST	METH	GAST	YES	7
2794	mRNA_TSPAN13	mRNA	TSPAN13	YES	8
2795	mirna_MIR4796	miRNA	MIR4796	NO	0
2796	mRNA_RTBDN	mRNA	RTBDN	YES	7
2796	mRNA_ANKRD18B	mRNA	ANKRD18B	YES	2
2798	METH_CCL14	METH	CCL14	YES	22
2798	mRNA_GAL3ST4	mRNA	GAL3ST4	YES	16
2799	METH_AC007319.1	METH	AC007319.1	NO	0
2802	STV_TMC6	STV	TMC6	YES	16
2803	METH_S100A8	METH	S100A8	YES	52
2803	mRNA_CD177	mRNA	CD177	YES	10
2804	mRNA_TMEM241	mRNA	TMEM241	YES	8
2804	mRNA_CD300LF	mRNA	CD300LF	YES	16
2805	mRNA_CTSS	mRNA	CTSS	YES	33
2805	mRNA_LINC00963	mRNA	LINC00963	NO	0
2806	STV_CCR8	STV	CCR8	YES	16
2806	STV_SDSL	STV	SDSL	YES	10
2807	CNV_PKN3	CNV	PKN3	YES	18
2807	STV_CFL1	STV	CFL1	YES	41
2810	mRNA_RP11-159H10.3	mRNA	RP11-159H10.3	NO	0
2812	mRNA_PITPNC1	mRNA	PITPNC1	YES	14
2812	mRNA_PPM1M	mRNA	PPM1M	YES	9
2813	mirna_MIR519E	miRNA	MIR519E	NO	0
2813	STV_RNASE8	STV	RNASE8	YES	12
2814	METH_CD47	METH	CD47	YES	21
2815	mRNA_C10orf55	mRNA	C10orf55	NO	0
2816	mRNA_C1orf54	mRNA	C1orf54	YES	1
2818	mirna_MIR520G	miRNA	MIR520G	NO	0
2819	mRNA_HOXD13	mRNA	HOXD13	YES	31
2820	mRNA_PASK	mRNA	PASK	YES	20
2820	mRNA_KCNT2	mRNA	KCNT2	YES	13
2822	mRNA_CH17-340M24.3	mRNA	CH17-340M24.3	NO	0
2822	STV_OLFML1	STV	OLFML1	YES	2
2823	mRNA_FGD3	mRNA	FGD3	YES	21
2825	mRNA_ITGB2	mRNA	ITGB2	YES	57
2826	mRNA_HYAL2	mRNA	HYAL2	YES	67
2828	mRNA_TFDP2	mRNA	TFDP2	YES	27
2829	METH_LZTFL1	METH	LZTFL1	YES	7
2830	STV_CKLF	STV	CKLF	YES	13
2831	STV_MRPL20	STV	MRPL20	YES	15
2832	STV_ARHGDIA	STV	ARHGDIA	YES	33
2833	mRNA_RNF166	mRNA	RNF166	YES	6

2833	mRNA_VWA1	mRNA	VWA1	YES	12
2834	mRNA_RAB7B	mRNA	RAB7B	YES	22
2834	STV_MPP2	STV	MPP2	YES	22
2835	mRNA_CPA4	mRNA	CPA4	YES	12
2836	mRNA_EMR2	mRNA	EMR2	YES	17
2837	mRNA_ARL11	mRNA	ARL11	YES	7
2837	mRNA_CRYGS	mRNA	CRYGS	YES	3
2839	mirna_MIR3194	miRNA	MIR3194	NO	0
2839	STV_RPS9	STV	RPS9	YES	28
2843	mRNA_DNAH17	mRNA	DNAH17	YES	21
2843	mRNA_RP11-54H7.4	mRNA	RP11-54H7.4	NO	0
2844	mRNA_RBM47	mRNA	RBM47	YES	5
2845	mRNA_SLC7A1	mRNA	SLC7A1	YES	12
2845	STV_SLC28A1	STV	SLC28A1	YES	14
2846	mRNA_AC010524.2	mRNA	AC010524.2	NO	0
2847	mRNA_MIXL1	mRNA	MIXL1	YES	31
2848	METH_DUSP15	METH	DUSP15	YES	17
2849	mRNA_NIPAL2	mRNA	NIPAL2	YES	5
2850	mRNA_TRDC	mRNA	TRDC	YES	1
2851	mRNA_CARD8	mRNA	CARD8	YES	22
2852	mRNA_RP11-486I11.2	mRNA	RP11-486I11.2	NO	0
2852	STV_NNAT	STV	NNAT	YES	8
2853	STV_NAB2	STV	NAB2	YES	16
2854	mRNA_CNTRL	mRNA	CNTRL	YES	16
2855	mRNA_CD96	mRNA	CD96	YES	14
2856	mRNA_CNKSR1	mRNA	CNKSR1	YES	12
2857	METH_DHFR	METH	DHFR	YES	32
2858	mRNA_RP11-597D13.9	mRNA	RP11-597D13.9	NO	0
2858	STV_FLJ40288	STV	FLJ40288	NO	0
2859	mirna_MIR512	miRNA	MIR512	NO	0
2860	CNV_snoU13.ENSG00000239055.1	CNV	snoU13.ENSG00000239055.1	NO	0
2861	mRNA_ZAP70	mRNA	ZAP70	YES	44
2862	METH_FAM172A	METH	FAM172A	YES	2
2866	mirna_MIR515	miRNA	MIR515	NO	0
2866	mRNA_KIAA0368	mRNA	KIAA0368	YES	21
2868	METH_INTS1	METH	INTS1	YES	11
2868	mRNA_SASH3	mRNA	SASH3	YES	17
2869	mRNA_COTL1	mRNA	COTL1	YES	14
2870	METH_HOPX	METH	HOPX	YES	17
2870	mRNA_IL17RA	mRNA	IL17RA	YES	20
2872	mRNA_KRTCAP3	mRNA	KRTCAP3	YES	2
2873	mRNA_TNFSF13B	mRNA	TNFSF13B	YES	25
2874	mRNA_C16orf58	mRNA	C16orf58	YES	2
2874	mRNA_TMEM132E	mRNA	TMEM132E	YES	2
2875	mRNA_CD226	mRNA	CD226	YES	28
2879	mRNA_APOBEC3H	mRNA	APOBEC3H	YES	18
2879	STV_SEPT5	STV	SEPT5	YES	19
2880	mirna_MIR517B	miRNA	MIR517B	NO	0
2883	mRNA_PDE7A	mRNA	PDE7A	YES	9
2884	mRNA_EXT1	mRNA	EXT1	YES	34
2885	mRNA_PGK1	mRNA	PGK1	YES	21
2886	STV_USF1	STV	USF1	YES	37
2888	mRNA_CRELD1	mRNA	CRELD1	YES	5
2889	mRNA_AC007318.5	mRNA	AC007318.5	NO	0
2889	mRNA_HIST4H4	mRNA	HIST4H4	YES	36
2890	mRNA_RAB25	mRNA	RAB25	YES	19
2890	STV_KRTAP27.1	STV	KRTAP27.1	NO	0
2891	mRNA_HTRA4	mRNA	HTRA4	YES	10
2892	mRNA_FFAR2	mRNA	FFAR2	YES	26
2893	STV_HSPA12B	STV	HSPA12B	YES	3

2893	STV_RP11.536C10.25	STV	RP11.536C10.25	NO	0
2894	mRNA_CD74	mRNA	CD74	YES	85
2894	mRNA_SCGB2A1	mRNA	SCGB2A1	YES	3
2896	mRNA_CD27	mRNA	CD27	YES	31
2897	STV_RP11.583F2.1	STV	RP11.583F2.1	NO	0
2899	mRNA_NCF4	mRNA	NCF4	YES	26
2900	mirna_MIR155	miRNA	MIR155	YES	32
2900	mRNA_ADAP2	mRNA	ADAP2	YES	15
2901	mRNA_CTC-251D13.1	mRNA	CTC-251D13.1	NO	0
2901	STV_DECR2	STV	DECR2	YES	11
2903	mRNA_RP6-65G23.3	mRNA	RP6-65G23.3	NO	0
2904	CNV_PHYHD1	CNV	PHYHD1	YES	5
2905	mRNA_FCER2	mRNA	FCER2	YES	17
2906	STV_RRP8	STV	RRP8	YES	23
2907	mRNA_NEURL2	mRNA	NEURL2	YES	7
2908	mRNA_SIGLEC11	mRNA	SIGLEC11	YES	4
2909	mRNA_RAC2	mRNA	RAC2	YES	38
2909	mRNA_TM4SF1-AS1	mRNA	TM4SF1-AS1	NO	0
2910	STV_MRGPRE	STV	MRGPRE	YES	9
2912	METH_LA16c.395F10.2	METH	LA16c.395F10.2	NO	0
2913	STV_RP11.434D12.1	STV	RP11.434D12.1	NO	0
2914	mRNA_INPP5D	mRNA	INPP5D	YES	42
2915	STV_NUDT16L1	STV	NUDT16L1	YES	6
2916	mRNA_LINC01260	mRNA	LINC01260	NO	0
2916	mRNA_LINC01023	mRNA	LINC01023	NO	0
2917	mRNA_RBBP8NL	mRNA	RBBP8NL	YES	1
2917	mRNA_PTPN2	mRNA	PTPN2	YES	54
2919	mRNA_AC011899.9	mRNA	AC011899.9	NO	0
2919	STV_ZNF777	STV	ZNF777	YES	10
2920	mRNA_LILRA1	mRNA	LILRA1	YES	10
2921	mRNA_PRKCQ	mRNA	PRKCQ	YES	47
2922	STV_TMEM242	STV	TMEM242	YES	3
2925	mRNA_BNC1	mRNA	BNC1	YES	13
2925	STV_ARPC1B	STV	ARPC1B	YES	19
2927	mRNA_LINC01215	mRNA	LINC01215	NO	0
2928	mRNA_ZNF485	mRNA	ZNF485	YES	7
2930	mRNA_MT-ATP6	mRNA	MT-ATP6	YES	19
2931	STV_NDUFA9	STV	NDUFA9	YES	18
2932	mRNA_FAM174B	mRNA	FAM174B	YES	2
2932	STV_ZNF808	STV	ZNF808	YES	8
2934	mRNA_LST1	mRNA	LST1	YES	13
2935	mRNA_IL34	mRNA	IL34	YES	12
2936	METH_AAGAB	METH	AAGAB	YES	6
2936	STV_GSTTP1	STV	GSTTP1	NO	0
2937	mRNA_CETP	mRNA	CETP	YES	32
2937	mRNA_GP1BA	mRNA	GP1BA	YES	26
2939	METH_RBM47	METH	RBM47	YES	5
2939	mRNA_TDRD5	mRNA	TDRD5	YES	9
2940	mRNA_RP11-876N24.5	mRNA	RP11-876N24.5	NO	0
2940	STV_ZNF618	STV	ZNF618	YES	6
2941	mRNA_KLHL6	mRNA	KLHL6	YES	9
2942	mRNA_TAX1BP3	mRNA	TAX1BP3	YES	20
2942	STV_KPNA4	STV	KPNA4	YES	17
2944	mirna_MIR4482	miRNA	MIR4482	NO	0
2944	mRNA_CTD-2410N18.3	mRNA	CTD-2410N18.3	NO	0
2945	METH_KRT31	METH	KRT31	YES	11
2946	mRNA_PSG4	mRNA	PSG4	YES	4
2946	STV_IL9R	STV	IL9R	YES	15
2947	CNV_C9orf106	CNV	C9orf106	NO	0
2948	mirna_MIR515	miRNA	MIR515	NO	0

2948	mRNA_RP11-158I9.8	mRNA	RP11-158I9.8	NO	0
2951	STV_RP5.864K19.6	STV	RP5.864K19.6	NO	0
2952	mRNA_IL10RA	mRNA	IL10RA	YES	12
2952	STV_RP1.225E12.3	STV	RP1.225E12.3	NO	0
2953	mRNA_RP1-140A9.1	mRNA	RP1-140A9.1	NO	0
2954	mRNA_ZNF385A	mRNA	ZNF385A	YES	34
2955	mRNA_DRAM1	mRNA	DRAM1	YES	9
2956	mRNA_IL12RB1	mRNA	IL12RB1	YES	26
2956	mRNA_ZDHHC18	mRNA	ZDHHC18	YES	9
2958	mRNA_SLFN13	mRNA	SLFN13	YES	3
2959	mRNA_LY6K	mRNA	LY6K	YES	9
2964	mRNA_NDST2	mRNA	NDST2	YES	15
2964	STV_PAIP1	STV	PAIP1	YES	14
2965	mRNA_PTPRF	mRNA	PTPRF	YES	25
2966	mRNA_CD180	mRNA	CD180	YES	12
2967	METH_FKBP9P1	METH	FKBP9P1	NO	0
2967	mRNA_CSTF3	mRNA	CSTF3	YES	14
2968	mRNA_TNFRSF9	mRNA	TNFRSF9	YES	22
2969	STV_PATE4	STV	PATE4	YES	8
2970	mRNA_GPR115	mRNA	GPR115	YES	8
2972	mRNA_MAL	mRNA	MAL	YES	19
2972	STV_THAP10	STV	THAP10	YES	4
2974	mRNA_MDFI	mRNA	MDFI	YES	16
2977	CNV_LRRC8A	CNV	LRRC8A	YES	20
2977	mRNA_MTA3	mRNA	MTA3	YES	18
2978	mRNA_GPR68	mRNA	GPR68	YES	14
2978	STV_ART5	STV	ART5	YES	8
2979	STV_LINC01098	STV	LINC01098	NO	0
2980	mRNA_IL17REL	mRNA	IL17REL	YES	3
2981	mRNA_CBX3	mRNA	CBX3	YES	22
2982	STV_NAF1	STV	NAF1	YES	19
2983	mRNA_SEMA3E	mRNA	SEMA3E	YES	18
2984	mRNA_ELP3	mRNA	ELP3	YES	30
2984	STV_SP8	STV	SP8	YES	11
2985	mRNA_NUDT19	mRNA	NUDT19	YES	10
2986	mRNA_LMNA	mRNA	LMNA	YES	33
2986	mRNA_RP5-1171I10.5	mRNA	RP5-1171I10.5	NO	0
2987	METH_TRAK1	METH	TRAK1	YES	13
2988	mRNA_DOK3	mRNA	DOK3	YES	8
2988	mRNA_APOBEC3D	mRNA	APOBEC3D	YES	13
2989	mRNA_DEGS2	mRNA	DEGS2	YES	13
2989	mRNA_TMEM184B	mRNA	TMEM184B	YES	4
2990	mRNA_GS1-124K5.4	mRNA	GS1-124K5.4	NO	0
2990	STV_RP1.122O8.7	STV	RP1.122O8.7	NO	0
2992	mRNA_ESRP2	mRNA	ESRP2	YES	13
2992	mRNA_CD69	mRNA	CD69	YES	12
2993	mRNA_RUSC1	mRNA	RUSC1	YES	21
2994	mRNA_PDCD1LG2	mRNA	PDCD1LG2	YES	14
2994	STV_MTMR1	STV	MTMR1	YES	15
2995	mRNA_GPR132	mRNA	GPR132	YES	9
2997	mRNA_OSBP2	mRNA	OSBP2	YES	8
2998	mRNA_FRMD6	mRNA	FRMD6	YES	11
2999	mRNA_XCL2	mRNA	XCL2	YES	21
2999	STV_SPRR2A	STV	SPRR2A	YES	10
3000	mRNA_GSDMC	mRNA	GSDMC	YES	9
3000	mRNA_RGL2	mRNA	RGL2	YES	13
3001	METH_AP4S1	METH	AP4S1	YES	9
3001	METH_PVRL4	METH	PVRL4	YES	10
3002	STV_CD47	STV	CD47	YES	21
3003	mRNA_AC092580.4	mRNA	AC092580.4	NO	0

3003	mRNA_ZSCAN16-AS1	mRNA	ZSCAN16-AS1	NO	0
3004	mRNA_CXCL9	mRNA	CXCL9	YES	26
3004	STV_POM121	STV	POM121	YES	29
3005	mRNA_PRKCQ-AS1	mRNA	PRKCQ-AS1	NO	0
3005	mRNA_BMPR1B-AS1	mRNA	BMPR1B-AS1	NO	0
3006	mRNA_MLPH	mRNA	MLPH	YES	18
3006	STV_MMP24	STV	MMP24	YES	26

APPENDIX N

Rank	Full_Name	Data_Type	HUGO_GENE	GO_Annotated	Number_Of_GO_Annotations
1	Age	Age		NO	0
2	METH_CACNB2	METH	CACNB2	YES	32
3	CNV_PALM	CNV	PALM	YES	32
4	METH_DDR2	METH	DDR2	YES	41
5	mRNA_SLC22A5	mRNA	SLC22A5	YES	33
6	mRNA_TBC1D10C	mRNA	TBC1D10C	YES	18
8	METH_TP63	METH	TP63	YES	103
8	STV_ATP6V0A1	STV	ATP6V0A1	YES	38
9	STV_ARL4C	STV	ARL4C	YES	16
10	METH_CACNG4	METH	CACNG4	YES	20
12	CNV_FAM49B	CNV	FAM49B	YES	12
12	METH_ATRAID	METH	ATRAID	YES	15
13	CNV_GNA15	CNV	GNA15	YES	20
14	mRNA_PDLIM5	mRNA	PDLIM5	YES	22
16	mRNA_LRRK2	mRNA	LRRK2	YES	157
16	mRNA_MICALL1	mRNA	MICALL1	YES	26
19	METH_MIP	METH	MIP	YES	21
19	STV_RPL32	STV	RPL32	YES	18
20	CNV_HCK	CNV	HCK	YES	61
20	mRNA_PIK3R3	mRNA	PIK3R3	YES	12
22	METH_RAB15	METH	RAB15	YES	16
22	mRNA_PIM1	mRNA	PIM1	YES	32
23	METH_C2	METH	C2	YES	17
24	METH_PAM	METH	PAM	YES	53
27	CNV_SORBS2	CNV	SORBS2	YES	23
28	mRNA_TSHR	mRNA	TSHR	YES	38
29	METH_CD80	METH	CD80	YES	30
29	METH_EPPIN	METH	EPPIN	YES	15
30	METH_KLHL10	METH	KLHL10	YES	12
30	METH_SLURP1	METH	SLURP1	YES	14
32	STV_MYH7	STV	MYH7	YES	31
34	mRNA_CUZD1	mRNA	CUZD1	YES	11
35	METH_SNX4	METH	SNX4	YES	22
35	mRNA_PPIA	mRNA	PPIA	YES	36
36	CNV_HYAL3	CNV	HYAL3	YES	19
37	mRNA_SEMA3A	mRNA	SEMA3A	YES	47
38	CNV_HTR3D	CNV	HTR3D	YES	12
38	METH_ADAM2	METH	ADAM2	YES	18
40	CNV_NPRL2	CNV	NPRL2	YES	15
41	CNV_EFNA2	CNV	EFNA2	YES	13
41	STV_EHD2	STV	EHD2	YES	32
43	CNV_AHSG	CNV	AHSG	YES	28
43	mRNA_INHBA	mRNA	INHBA	YES	66
45	mRNA_SNAI2	mRNA	SNAI2	YES	57
46	STV_STRAP	STV	STRAP	YES	19
47	mRNA_SEMA7A	mRNA	SEMA7A	YES	23

47	STV_PPP2R1A	STV	PPP2R1A	YES	49
48	mRNA_EPHA2	mRNA	EPHA2	YES	77
49	mRNA_ASPH	mRNA	ASPH	YES	45
51	CNV_POLR2H	CNV	POLR2H	YES	35
52	STV_BDNF	STV	BDNF	YES	48
52	STV_EIF2B3	STV	EIF2B3	YES	20
53	mRNA_CNTN4	mRNA	CNTN4	YES	16
55	mRNA_HERPUD1	mRNA	HERPUD1	YES	25
55	mRNA_NPC2	mRNA	NPC2	YES	25
56	STV_TMPRSS15	STV	TMPRSS15	YES	11
58	METH_CER1	METH	CER1	YES	25
59	mRNA_E2F4	mRNA	E2F4	YES	33
60	mRNA_ARL3	mRNA	ARL3	YES	36
60	mRNA_KYNU	mRNA	KYNU	YES	19
61	CNV_SAFB	CNV	SAFB	YES	19
63	mRNA_TUBA3D	mRNA	TUBA3D	YES	18
63	mRNA_UNC13D	mRNA	UNC13D	YES	25
64	STV_GTSE1	STV	GTSE1	YES	18
66	STV_MACF1	STV	MACF1	YES	28
66	STV_N4BP2L2	STV	N4BP2L2	YES	10
69	METH_GPR65	METH	GPR65	YES	18
69	METH_LRRC32	METH	LRRC32	YES	12
70	mRNA_TUBA1B	mRNA	TUBA1B	YES	22
72	METH_HTR1F	METH	HTR1F	YES	15
73	CNV_AGO2	CNV	AGO2	YES	65
74	CNV_FZD6	CNV	FZD6	YES	37
75	METH_ACOX1	METH	ACOX1	YES	34
75	METH_NOL3	METH	NOL3	YES	44
76	mRNA_CDC14A	mRNA	CDC14A	YES	30
77	METH_AMPD3	METH	AMPD3	YES	22
78	mRNA_ELF4	mRNA	ELF4	YES	20
78	mRNA_MSX1	mRNA	MSX1	YES	62
81	CNV_NRBP2	CNV	NRBP2	YES	13
81	mRNA_ARL4C	mRNA	ARL4C	YES	16
82	mRNA_CLCNKB	mRNA	CLCNKB	YES	20
83	METH_PLAC8	METH	PLAC8	YES	11
84	CNV_IFNA14	CNV	IFNA14	YES	20
85	mRNA_KLK3	mRNA	KLK3	YES	16
86	mRNA_HTR7	mRNA	HTR7	YES	18
86	STV_TNIK	STV	TNIK	YES	33
87	CNV_EPPK1	CNV	EPPK1	YES	3
89	mRNA_ACPP	mRNA	ACPP	YES	31
91	mRNA_SMURF1	mRNA	SMURF1	YES	41
92	METH_TMEM119	METH	TMEM119	YES	19
93	METH_CYP4F12	METH	CYP4F12	YES	30
93	METH_UGT2A1	METH	UGT2A1	YES	12
94	CNV_CDKN2A	CNV	CDKN2A	YES	65

95	STV_OR2A4	STV	OR2A4	YES	21
97	METH_GRM4	METH	GRM4	YES	21
97	mRNA_IL13RA2	mRNA	IL13RA2	YES	11
100	mRNA_PPP1R14B	mRNA	PPP1R14B	YES	6
100	STV_ZEB2	STV	ZEB2	YES	37
102	mRNA_BCL2	mRNA	BCL2	YES	173
103	METH_AGXT2	METH	AGXT2	YES	17
104	METH_KIF5B	METH	KIF5B	YES	43
104	METH_SCARB1	METH	SCARB1	YES	60
105	mRNA_GRAP2	mRNA	GRAP2	YES	21
105	mRNA_IL23A	mRNA	IL23A	YES	44
107	STV_IL36B	STV	IL36B	YES	12
108	METH_OR2A4	METH	OR2A4	YES	21
110	STV_GFRA1	STV	GFRA1	YES	18
112	METH_TRPV5	METH	TRPV5	YES	22
112	STV_PCSK5	STV	PCSK5	YES	38
113	mRNA_IL1RAP	mRNA	IL1RAP	YES	26
114	METH_CRB2	METH	CRB2	YES	23
114	METH_TPM3	METH	TPM3	YES	21
115	STV_VSX1	STV	VSX1	YES	15
116	METH_USP4	METH	USP4	YES	21
116	STV_CCL21	STV	CCL21	YES	55
118	mRNA_RAG1	mRNA	RAG1	YES	38
119	CNV_CLDN16	CNV	CLDN16	YES	15
120	METH_MUCL1	METH	MUCL1	YES	6
120	mRNA_RAB10	mRNA	RAB10	YES	54
121	CNV_MTSS1	CNV	MTSS1	YES	26
122	mRNA_CACNA1I	mRNA	CACNA1I	YES	26
123	METH_HEYL	METH	HEYL	YES	44
124	METH_FOLR2	METH	FOLR2	YES	20
124	mRNA_SIRT3	mRNA	SIRT3	YES	21
125	CNV_MTBP	CNV	MTBP	YES	8
126	CNV_ARHGEF26	CNV	ARHGEF26	YES	11
129	METH_APOBEC3C	METH	APOBEC3C	YES	17
129	METH_MX2	METH	MX2	YES	25
131	mRNA_GJC3	mRNA	GJC3	YES	11
132	METH_PITPNM3	METH	PITPNM3	YES	15
132	METH_TMEM100	METH	TMEM100	YES	25
134	METH_TAT	METH	TAT	YES	24
135	CNV_CACNA2D2	CNV	CACNA2D2	YES	20
137	CNV_MAFA	CNV	MAFA	YES	15
137	METH_ANKRD13C	METH	ANKRD13C	YES	8
138	CNV_USP13	CNV	USP13	YES	32
138	mRNA_SORD	mRNA	SORD	YES	32
139	METH_LYZ	METH	LYZ	YES	23
139	mRNA_PDE9A	mRNA	PDE9A	YES	23
141	mRNA_SLC4A5	mRNA	SLC4A5	YES	26

144	STV_DDIT4	STV	DDIT4	YES	24
145	mRNA_TGFB1	mRNA	TGFB1	YES	229
146	CNV_MYLK2	CNV	MYLK2	YES	27
146	METH_RGS3	METH	RGS3	YES	12
148	CNV_PRKCD	CNV	PRKCD	YES	91
149	CNV_YWHAZ	CNV	YWHAZ	YES	35
149	mRNA_PTX3	mRNA	PTX3	YES	21
150	METH_MSR1	METH	MSR1	YES	24
151	CNV_SLC38A3	CNV	SLC38A3	YES	28
152	mRNA_P2RY6	mRNA	P2RY6	YES	19
152	STV_SSTR5	STV	SSTR5	YES	19
153	STV_RP1L1	STV	RP1L1	YES	6
154	mRNA_FADD	mRNA	FADD	YES	70
156	STV_NLRP6	STV	NLRP6	YES	24
157	METH_HK1	METH	HK1	YES	31
157	METH_MYH7	METH	MYH7	YES	31
158	mRNA_YWHAZ	mRNA	YWHAZ	YES	35
159	CNV_TRA2B	CNV	TRA2B	YES	24
160	mRNA_APH1B	mRNA	APH1B	YES	17
161	STV_NEDD4	STV	NEDD4	YES	63
162	STV_SIRT1	STV	SIRT1	YES	166
163	mRNA_WT1	mRNA	WT1	YES	66
163	STV_RBPJ	STV	RBPJ	YES	85
165	mRNA_RNASE2	mRNA	RNASE2	YES	18
166	STV_BOK	STV	BOK	YES	53
168	METH_CASP1	METH	CASP1	YES	50
168	METH_LAG3	METH	LAG3	YES	12
169	mRNA_HMGA1	mRNA	HMGA1	YES	42
169	STV_OR1A2	STV	OR1A2	YES	12
172	METH_HP	METH	HP	YES	24
173	mRNA_TXNRD1	mRNA	TXNRD1	YES	44
174	CNV_DCP1A	CNV	DCP1A	YES	19
175	METH_TAS2R16	METH	TAS2R16	YES	15
175	STV_MGMT	STV	MGMT	YES	31
176	mRNA_SEPT1	mRNA	SEPT1	YES	8
177	mRNA_CITED1	mRNA	CITED1	YES	59
179	CNV_CACNA2D3	CNV	CACNA2D3	YES	12
179	mRNA_PLAU	mRNA	PLAU	YES	30
180	CNV_SLC25A23	CNV	SLC25A23	YES	22
182	METH_RUNX1	METH	RUNX1	YES	38
183	mRNA_VAMP2	mRNA	VAMP2	YES	60
183	STV_GNAS	STV	GNAS	YES	76
184	CNV_PRKCI	CNV	PRKCI	YES	57
184	STV_CLIC5	STV	CLIC5	YES	21
188	METH_CASP8	METH	CASP8	YES	72
189	mRNA_IL15RA	mRNA	IL15RA	YES	23
190	STV_GTPBP10	STV	GTPBP10	YES	10

190	STV_UVRAG	STV	UVRAG	YES	35
191	CNV_ACY1	CNV	ACY1	YES	13
192	CNV_MUSTN1	CNV	MUSTN1	YES	4
192	METH_CYP1A2	METH	CYP1A2	YES	53
193	METH_CCR7	METH	CCR7	YES	64
193	STV_SLCO1B1	STV	SLCO1B1	YES	15
195	STV_ATP6V1A	STV	ATP6V1A	YES	27
197	METH_XPNPEP1	METH	XPNPEP1	YES	13
198	METH_CSF2	METH	CSF2	YES	38
199	mRNA_CUX2	mRNA	CUX2	YES	22
199	mRNA_FOSL1	mRNA	FOSL1	YES	41
201	STV_GNG2	STV	GNG2	YES	16
203	STV_FSCN2	STV	FSCN2	YES	18
204	CNV_FLNB	CNV	FLNB	YES	30
204	CNV_HM13	CNV	HM13	YES	23
205	STV_RAB7A	STV	RAB7A	YES	61
206	CNV_IFNA4	CNV	IFNA4	YES	22
206	mRNA_GRIN3A	mRNA	GRIN3A	YES	31
207	CNV_EIF5A2	CNV	EIF5A2	YES	24
208	METH_FLT3	METH	FLT3	YES	51
209	METH_POT1	METH	POT1	YES	33
209	mRNA_GDF9	mRNA	GDF9	YES	18
212	METH_MGAM	METH	MGAM	YES	22
213	STV_KCNH1	STV	KCNH1	YES	44
214	mRNA_CDA	mRNA	CDA	YES	23
214	mRNA_SLC2A1	mRNA	SLC2A1	YES	54
215	CNV_HSF1	CNV	HSF1	YES	112
215	mRNA_LYPD1	mRNA	LYPD1	YES	14
217	METH_CCL22	METH	CCL22	YES	22
217	METH_KRT17	METH	KRT17	YES	21
219	mRNA_AR	mRNA	AR	YES	97
219	STV_DUS2	STV	DUS2	YES	17
223	STV_PDE4D	STV	PDE4D	YES	51
223	STV_SLC12A2	STV	SLC12A2	YES	29
224	METH_IL1R1	METH	IL1R1	YES	24
226	STV_ZFYVE21	STV	ZFYVE21	YES	11
227	METH_TCAP	METH	TCAP	YES	32
227	mRNA_PLA2G12A	mRNA	PLA2G12A	YES	21
228	CNV_TRIM59	CNV	TRIM59	YES	17
228	METH_UCN2	METH	UCN2	YES	17
230	CNV_MYC	CNV	MYC	YES	73
230	mRNA_CCBE1	mRNA	CCBE1	YES	23
231	mRNA_GCLM	mRNA	GCLM	YES	30
233	METH_NUP93	METH	NUP93	YES	31
234	METH_RNASE6	METH	RNASE6	YES	21
236	CNV_CDKN2B	CNV	CDKN2B	YES	30
236	mRNA_NEDD4L	mRNA	NEDD4L	YES	55

237	CNV_TRAIP	CNV	TRAIP	YES	16
238	METH_CCL14	METH	CCL14	YES	22
239	mRNA_KCNIP2	mRNA	KCNIP2	YES	34
239	mRNA_TCF7	mRNA	TCF7	YES	30
240	METH_TRPM8	METH	TRPM8	YES	27
242	STV_RASD1	STV	RASD1	YES	17
243	mRNA_ADRB1	mRNA	ADRB1	YES	59
245	CNV_BCL6	CNV	BCL6	YES	61
246	CNV_RFT1	CNV	RFT1	YES	8
247	METH_SMG7	METH	SMG7	YES	17
248	mRNA_AMIGO1	mRNA	AMIGO1	YES	24
250	CNV_GPIHBP1	CNV	GPIHBP1	YES	35
250	METH_LIMS2	METH	LIMS2	YES	15
253	METH_RIN1	METH	RIN1	YES	12
254	mRNA_ITGA6	mRNA	ITGA6	YES	52
255	METH_EFNA2	METH	EFNA2	YES	13
255	METH_PIK3CG	METH	PIK3CG	YES	61
256	METH_CD33	METH	CD33	YES	18
257	METH_FZD9	METH	FZD9	YES	43
258	METH_GCKR	METH	GCKR	YES	26
259	METH_POU1F1	METH	POU1F1	YES	33
259	mRNA_ZNF350	mRNA	ZNF350	YES	17
260	CNV_SPPL2B	CNV	SPPL2B	YES	27
260	mRNA_ULBP2	mRNA	ULBP2	YES	11
261	CNV_PLK5	CNV	PLK5	YES	14
261	METH_SPI1	METH	SPI1	YES	50
262	STV_BTK	STV	BTK	YES	61
265	METH_ABL2	METH	ABL2	YES	40
267	METH_EVI5	METH	EVI5	YES	20
269	METH_LIF	METH	LIF	YES	47
270	mRNA_PDE5A	mRNA	PDE5A	YES	22
270	STV_TRIAP1	STV	TRIAP1	YES	24
271	CNV_TUBB4A	CNV	TUBB4A	YES	25
272	METH_MMP20	METH	MMP20	YES	18
272	STV_EIF2A	STV	EIF2A	YES	19
275	CNV_KCNMB3	CNV	KCNMB3	YES	16
276	METH_DYRK2	METH	DYRK2	YES	29
276	STV_WWOX	STV	WWOX	YES	29
277	CNV_SLC25A32	CNV	SLC25A32	YES	14
278	METH_IL23A	METH	IL23A	YES	44
279	CNV_GNL3	CNV	GNL3	YES	21
279	mRNA_PASK	mRNA	PASK	YES	20
281	mRNA_ARPC2	mRNA	ARPC2	YES	29
281	mRNA_EGFR	mRNA	EGFR	YES	176
282	CNV_CFD	CNV	CFD	YES	17
283	METH_ATP2B1	METH	ATP2B1	YES	40
283	STV_FABP3	STV	FABP3	YES	28

284	mRNA_AFP	mRNA	AFP	YES	14
285	METH_SPG7	METH	SPG7	YES	22
287	METH_PDE6H	METH	PDE6H	YES	12
288	METH_UMOD	METH	UMOD	YES	30
288	STV_RAB32	STV	RAB32	YES	31
289	CNV_GNAI2	CNV	GNAI2	YES	43
289	mRNA_PBX3	mRNA	PBX3	YES	19
290	mRNA_TUBA1C	mRNA	TUBA1C	YES	20
292	STV_IFNE	STV	IFNE	YES	18
293	mRNA_PDIA2	mRNA	PDIA2	YES	19
296	METH_MYOM2	METH	MYOM2	YES	18
296	mRNA_ACTN4	mRNA	ACTN4	YES	58
297	mRNA_CUBN	mRNA	CUBN	YES	39
299	METH_ARIH2	METH	ARIH2	YES	22
299	mRNA_DNAAF1	mRNA	DNAAF1	YES	24
301	METH_CHRNA9	METH	CHRNA9	YES	24
302	mRNA_NME5	mRNA	NME5	YES	19
303	METH_MKI67	METH	MKI67	YES	25
303	mRNA_TUBA4A	mRNA	TUBA4A	YES	24
304	METH_APOE	METH	APOE	YES	151
304	STV_NR1H3	STV	NR1H3	YES	58
305	CNV_WDR6	CNV	WDR6	YES	12
307	STV_BRCC3	STV	BRCC3	YES	36
307	STV_UCN2	STV	UCN2	YES	17
308	CNV_ELANE	CNV	ELANE	YES	48
310	METH_OAS2	METH	OAS2	YES	29
311	mRNA_PTPRN2	mRNA	PTPRN2	YES	29
312	METH_AKR1B10	METH	AKR1B10	YES	18
313	METH_RGS8	METH	RGS8	YES	16
314	STV_PGBD1	STV	PGBD1	YES	7
315	METH_HNF4A	METH	HNF4A	YES	47
318	METH_AQP2	METH	AQP2	YES	50
318	STV_HSD17B4	STV	HSD17B4	YES	29
319	mRNA_TBX3	mRNA	TBX3	YES	56
320	CNV_IFNA7	CNV	IFNA7	YES	22
321	METH_SERPINC1	METH	SERPINC1	YES	22
321	mRNA_RAP2B	mRNA	RAP2B	YES	26
322	mRNA_CEL	mRNA	CEL	YES	23
322	mRNA_FSCN1	mRNA	FSCN1	YES	43
324	METH_SLC26A3	METH	SLC26A3	YES	40
324	STV_UTS2	STV	UTS2	YES	30
325	mRNA_GFRA1	mRNA	GFRA1	YES	18
325	STV_ABI1	STV	ABI1	YES	39
326	CNV_GFM1	CNV	GFM1	YES	12
327	METH_CHRM5	METH	CHRM5	YES	22
327	METH_UHRF1	METH	UHRF1	YES	40
329	mRNA_FLT3	mRNA	FLT3	YES	51

330	STV_CDK9	STV	CDK9	YES	54
331	mRNA_DAPK2	mRNA	DAPK2	YES	30
332	STV_PDCL3	STV	PDCL3	YES	16
333	mirna_LET7G	miRNA	LET7G	NO	0
334	mRNA_SERPINE1	mRNA	SERPINE1	YES	45
335	mRNA_CDK6	mRNA	CDK6	YES	61
336	STV_ELMOD1	STV	ELMOD1	YES	6
337	CNV_REM1	CNV	REM1	YES	12
337	METH_SDC4	METH	SDC4	YES	34
339	METH_NPFFR2	METH	NPFFR2	YES	19
341	METH_PI3	METH	PI3	YES	16
342	STV_HIP1R	STV	HIP1R	YES	57
343	mRNA_RXRG	mRNA	RXRG	YES	22
345	STV_HIST1H2BJ	STV	HIST1H2BJ	YES	21
346	CNV_DVL3	CNV	DVL3	YES	27
347	METH_GRAP2	METH	GRAP2	YES	21
348	CNV_LAMB2	CNV	LAMB2	YES	31
350	mRNA_HOXB13	mRNA	HOXB13	YES	19
351	METH_TNFSF4	METH	TNFSF4	YES	62
352	STV_GRIN2A	STV	GRIN2A	YES	66
353	CNV_ALAS1	CNV	ALAS1	YES	19
354	METH_CD86	METH	CD86	YES	48
355	STV_IFNA14	STV	IFNA14	YES	20
356	CNV_TIMM13	CNV	TIMM13	YES	14
357	mRNA_TMPRSS2	mRNA	TMPRSS2	YES	16
358	mRNA_SFRP5	mRNA	SFRP5	YES	30
360	CNV_UHRF1	CNV	UHRF1	YES	40
362	METH_CCL16	METH	CCL16	YES	23
362	mRNA_POLR3G	mRNA	POLR3G	YES	15
363	METH_ASIP	METH	ASIP	YES	19
364	CNV_PTPRS	CNV	PTPRS	YES	43
365	METH_EREG	METH	EREG	YES	59
365	METH_SELE	METH	SELE	YES	33
366	CNV_LXN	CNV	LXN	YES	11
366	STV_NKD1	STV	NKD1	YES	18
367	mRNA_DEAF1	mRNA	DEAF1	YES	27
367	mRNA_EIF5A2	mRNA	EIF5A2	YES	24
368	METH_AMHR2	METH	AMHR2	YES	31
371	METH_TFR2	METH	TFR2	YES	24
372	STV_TSPAN8	STV	TSPAN8	YES	10
373	CNV_PFN2	CNV	PFN2	YES	23
373	METH_MMP3	METH	MMP3	YES	20
374	METH_FUT7	METH	FUT7	YES	15
374	STV_AKT1	STV	AKT1	YES	182
375	METH_GLI1	METH	GLI1	YES	48
376	STV_BGLAP	STV	BGLAP	YES	50
376	STV_CCL4L1	STV	CCL4L1	YES	6

377	CNV_ALKBH7	CNV	ALKBH7	YES	11
379	CNV_AP3D1	CNV	AP3D1	YES	32
380	mRNA_PYY	mRNA	PYY	YES	15
380	STV_DES	STV	DES	YES	26
383	CNV_ITIH4	CNV	ITIH4	YES	16
383	CNV_NCALD	CNV	NCALD	YES	16
386	METH_C1QA	METH	C1QA	YES	15
387	CNV_IFNE	CNV	IFNE	YES	18
388	CNV_RAP2B	CNV	RAP2B	YES	26
390	STV_MAP1LC3A	STV	MAP1LC3A	YES	30
391	CNV_DCSTAMP	CNV	DCSTAMP	YES	24
391	STV_BECN1	STV	BECN1	YES	75
393	METH_PHYKPL	METH	PHYKPL	YES	12
395	METH_IRAK4	METH	IRAK4	YES	33
396	CNV_FZR1	CNV	FZR1	YES	27
397	METH_LMO2	METH	LMO2	YES	21
398	METH_LPO	METH	LPO	YES	17
398	METH_SLC25A33	METH	SLC25A33	YES	23
400	METH_PTP4A3	METH	PTP4A3	YES	24
401	METH_SEPT12	METH	SEPT12	YES	26
401	mRNA_OR51E2	mRNA	OR51E2	YES	17
404	CNV_CHDH	CNV	CHDH	YES	11
405	mRNA_RND3	mRNA	RND3	YES	13
406	CNV_AP2M1	CNV	AP2M1	YES	37
406	CNV_PLD1	CNV	PLD1	YES	30
407	CNV_MST1	CNV	MST1	YES	16
407	mRNA_TESPA1	mRNA	TESPA1	YES	9
408	METH_TREM1	METH	TREM1	YES	19
409	METH_GIPR	METH	GIPR	YES	25
410	METH_IL20RB	METH	IL20RB	YES	17
411	CNV_PTP4A3	CNV	PTP4A3	YES	24
412	CNV_P2RY1	CNV	P2RY1	YES	57
413	CNV_EIF2B5	CNV	EIF2B5	YES	28
413	CNV_P2RY13	CNV	P2RY13	YES	14
414	mRNA_ADAM19	mRNA	ADAM19	YES	14
414	STV_CXCL8	STV	CXCL8	YES	38
415	CNV_IFNA17	CNV	IFNA17	YES	21
416	mRNA_PDCD4	mRNA	PDCD4	YES	23
418	mRNA_RAP1B	mRNA	RAP1B	YES	33
419	CNV_PDCD10	CNV	PDCD10	YES	33
419	STV_SIX4	STV	SIX4	YES	46
421	mRNA_TTC8	mRNA	TTC8	YES	36
422	METH_LY96	METH	LY96	YES	29
423	METH_TREML2	METH	TREML2	YES	8
423	mRNA_PGR	mRNA	PGR	YES	37
424	mRNA_GABBR1	mRNA	GABBR1	YES	24
425	METH_SPINK5	METH	SPINK5	YES	27

426	CNV_GAMT	CNV	GAMT	YES	16
426	STV_GRK5	STV	GRK5	YES	32
428	CNV_SIRT6	CNV	SIRT6	YES	40
429	METH_CTLA4	METH	CTLA4	YES	22
429	METH_PLA2G2D	METH	PLA2G2D	YES	21
430	CNV_CRHBP	CNV	CRHBP	YES	41
432	CNV_CYC1	CNV	CYC1	YES	16
432	CNV_MATK	CNV	MATK	YES	24
433	STV_SST	STV	SST	YES	20
434	STV_PSMA6	STV	PSMA6	YES	50
435	STV_TRPM7	STV	TRPM7	YES	31
436	CNV_BPIFA1	CNV	BPIFA1	YES	17
437	CNV_GNA11	CNV	GNA11	YES	30
439	METH_PICALM	METH	PICALM	YES	61
440	METH_MAB21L1	METH	MAB21L1	YES	12
441	CNV_TLR9	CNV	TLR9	YES	68
442	CNV_GRINA	CNV	GRINA	YES	7
442	STV_RPS6KB1	STV	RPS6KB1	YES	77
443	METH_ITGAX	METH	ITGAX	YES	19
444	STV_HAO2	STV	HAO2	YES	17
446	METH_PIP	METH	PIP	YES	17
447	STV_SUN3	STV	SUN3	YES	9
448	mRNA_CLDN18	mRNA	CLDN18	YES	14
448	mRNA_ESR1	mRNA	ESR1	YES	86
449	CNV_CCDC39	CNV	CCDC39	YES	20
450	CNV_MED16	CNV	MED16	YES	21
453	METH_MPO	METH	MPO	YES	36
453	mRNA_SYNJ2BP	mRNA	SYNJ2BP	YES	11
454	METH_CADPS2	METH	CADPS2	YES	20
456	mRNA_CHRM1	mRNA	CHRM1	YES	34
457	CNV_GPAA1	CNV	GPAA1	YES	13
457	STV_TAS1R1	STV	TAS1R1	YES	13
460	METH_C5AR2	METH	C5AR2	YES	24
461	CNV_MFN1	CNV	MFN1	YES	17
462	CNV_PCSK4	CNV	PCSK4	YES	17
462	METH_CHRNA6	METH	CHRNA6	YES	27
464	METH_AGMAT	METH	AGMAT	YES	10
465	CNV_SNX25	CNV	SNX25	YES	13
465	METH_OTOF	METH	OTOF	YES	17
466	mRNA_RNASE7	mRNA	RNASE7	YES	22
467	mRNA_VDAC2	mRNA	VDAC2	YES	23
469	mRNA_INPP5K	mRNA	INPP5K	YES	61
469	STV_IFIT2	STV	IFIT2	YES	15
470	METH_DCD	METH	DCD	YES	12
471	METH_MMP7	METH	MMP7	YES	23
471	STV_VPS26A	STV	VPS26A	YES	21
472	STV_DAB2	STV	DAB2	YES	56

473	CNV_ARF4	CNV	ARF4	YES	29
473	METH_CLEC7A	METH	CLEC7A	YES	29
474	mRNA_HAS2	mRNA	HAS2	YES	32
477	mRNA_OAZ3	mRNA	OAZ3	YES	16
478	mRNA_ANO7	mRNA	ANO7	YES	21
479	METH_LOXHD1	METH	LOXHD1	YES	7
479	mRNA_PDE8B	mRNA	PDE8B	YES	14
480	METH_GMFG	METH	GMFG	YES	16
480	mRNA_CYP19A1	mRNA	CYP19A1	YES	30
482	STV_SCAMP5	STV	SCAMP5	YES	21
484	mRNA_SETMAR	mRNA	SETMAR	YES	45
485	mRNA_TRIM68	mRNA	TRIM68	YES	17
486	METH_IL17A	METH	IL17A	YES	19
486	METH_TRIM16	METH	TRIM16	YES	22
487	STV_USP17L2	STV	USP17L2	YES	31
488	STV_KLK15	STV	KLK15	YES	7
489	STV_OSTN	STV	OSTN	YES	12
491	CNV_TNNC1	CNV	TNNC1	YES	22
491	METH_GPR55	METH	GPR55	YES	16
492	mRNA_G6PD	mRNA	G6PD	YES	40
492	STV_TOP2A	STV	TOP2A	YES	50
495	METH_ATP9A	METH	ATP9A	YES	20
495	mRNA_KPNA4	mRNA	KPNA4	YES	17
496	METH_DUSP1	METH	DUSP1	YES	41
497	STV_ARFGEF1	STV	ARFGEF1	YES	31
498	METH_KLRG1	METH	KLRG1	YES	11
498	STV_HCN3	STV	HCN3	YES	29
499	STV_CCL1	STV	CCL1	YES	24
500	STV_APOL2	STV	APOL2	YES	16
501	METH_HMOX1	METH	HMOX1	YES	76
504	CNV_RAD21	CNV	RAD21	YES	33
505	METH_ANXA1	METH	ANXA1	YES	114
505	STV_KLK8	STV	KLK8	YES	19
506	CNV_SNTA1	CNV	SNTA1	YES	27
507	mRNA_PRKCI	mRNA	PRKCI	YES	57
508	mRNA_RAB11FIP3	mRNA	RAB11FIP3	YES	30
511	STV_KCND1	STV	KCND1	YES	22
512	CNV_SLMAP	CNV	SLMAP	YES	15
512	mRNA_SLC38A2	mRNA	SLC38A2	YES	24
513	CNV_STK11	CNV	STK11	YES	65
514	mRNA_CPE	mRNA	CPE	YES	31
516	STV_THRB	STV	THRB	YES	33
517	mRNA_CD3D	mRNA	CD3D	YES	20
518	CNV_NSMCE2	CNV	NSMCE2	YES	23
521	CNV_CCNB1	CNV	CCNB1	YES	64
521	METH_CD27	METH	CD27	YES	31
523	STV_WAC	STV	WAC	YES	18

524	mRNA_CACNA1D	mRNA	CACNA1D	YES	35
525	CNV_PSMD2	CNV	PSMD2	YES	43
527	METH_NMUR2	METH	NMUR2	YES	31
528	CNV_KNG1	CNV	KNG1	YES	29
528	METH_ALOX12B	METH	ALOX12B	YES	25
529	CNV_KLHL24	CNV	KLHL24	YES	14
530	mRNA_LURAP1	mRNA	LURAP1	YES	7
530	mRNA_MEOX2	mRNA	MEOX2	YES	25
531	CNV_SLURP1	CNV	SLURP1	YES	14
531	STV_IGHV3.73	STV	IGHV3.73	NO	0
532	METH_STATH	METH	STATH	YES	11
532	mRNA_BMPR1B	mRNA	BMPR1B	YES	52
533	METH_TRPM5	METH	TRPM5	YES	21
534	mRNA_GATA2	mRNA	GATA2	YES	68
537	CNV_GPX1	CNV	GPX1	YES	70
538	METH_NR1I2	METH	NR1I2	YES	32
538	mRNA_CAMK2B	mRNA	CAMK2B	YES	45
539	CNV_GNG7	CNV	GNG7	YES	13
539	CNV_RTP2	CNV	RTP2	YES	10
541	CNV_OAZ1	CNV	OAZ1	YES	13
542	METH_PLA2G2E	METH	PLA2G2E	YES	17
543	METH_RLBP1	METH	RLBP1	YES	14
544	METH_ABCG1	METH	ABCG1	YES	56
545	METH_IL34	METH	IL34	YES	12
545	STV_RP2	STV	RP2	YES	26
546	mRNA_HDC	mRNA	HDC	YES	13
547	METH_CD28	METH	CD28	YES	46
547	mRNA_SHC1	mRNA	SHC1	YES	49
549	CNV_MAPKAPK3	CNV	MAPKAPK3	YES	37
549	METH_KRT16	METH	KRT16	YES	23
551	STV_JAK3	STV	JAK3	YES	52
551	STV_SEMA5A	STV	SEMA5A	YES	32
552	STV_DDX56	STV	DDX56	YES	15
553	METH_PDCD1LG2	METH	PDCD1LG2	YES	14
554	CNV_MIDN	CNV	MIDN	YES	9
555	CNV_DAPK3	CNV	DAPK3	YES	48
557	STV_LRRC7	STV	LRRC7	YES	14
560	STV_NRK	STV	NRK	YES	21
563	METH_APOBEC3A	METH	APOBEC3A	YES	20
564	METH_CCL21	METH	CCL21	YES	55
565	METH_GUCA1A	METH	GUCA1A	YES	17
565	STV_OPA1	STV	OPA1	YES	49
566	METH_AQP8	METH	AQP8	YES	13
566	STV_PRKD1	STV	PRKD1	YES	72
567	CNV_AZIN1	CNV	AZIN1	YES	12
568	METH_TNFSF13B	METH	TNFSF13B	YES	25
569	CNV_SF3A2	CNV	SF3A2	YES	18

571	STV_ZAP70	STV	ZAP70	YES	44
572	CNV_HTR3C	CNV	HTR3C	YES	12
573	METH_IL1B	METH	IL1B	YES	96
573	STV_HLA.G	STV	HLA.G	NO	0
574	STV_TMEM59	STV	TMEM59	YES	22
575	METH_SLC26A4	METH	SLC26A4	YES	32
575	STV_GPSM3	STV	GPSM3	YES	14
576	METH_SH3BGRL3	METH	SH3BGRL3	YES	15
577	mRNA_LTF	mRNA	LTF	YES	68
577	STV_RHOT1	STV	RHOT1	YES	26
578	CNV_KHSRP	CNV	KHSRP	YES	28
578	mRNA_CD8B	mRNA	CD8B	YES	19
579	STV_HLA.A	STV	HLA.A	NO	0
580	METH_IL36RN	METH	IL36RN	YES	15
581	mRNA_KCNJ11	mRNA	KCNJ11	YES	53
582	CNV_RNF139	CNV	RNF139	YES	30
583	CNV_HYAL2	CNV	HYAL2	YES	67
583	STV_IL17RB	STV	IL17RB	YES	16
585	METH_CRHBP	METH	CRHBP	YES	41
587	mRNA_GABRB2	mRNA	GABRB2	YES	38
588	METH_XCR1	METH	XCR1	YES	14
589	mRNA_MAGED2	mRNA	MAGED2	YES	10
590	METH_CNGB3	METH	CNGB3	YES	19
590	METH_FSHR	METH	FSHR	YES	57
591	mRNA_PSMD2	mRNA	PSMD2	YES	43
592	METH_MYBPH	METH	MYBPH	YES	14
593	CNV_TBL1XR1	CNV	TBL1XR1	YES	32
595	CNV_UBR5	CNV	UBR5	YES	27
595	CNV_ZNF16	CNV	ZNF16	YES	19
597	METH_SEMG1	METH	SEMG1	YES	18
598	STV_GNAT3	STV	GNAT3	YES	30
600	CNV_APPL1	CNV	APPL1	YES	21
600	STV_NR1H2	STV	NR1H2	YES	49
601	mRNA_LDHA	mRNA	LDHA	YES	33
602	STV_HIST1H1E	STV	HIST1H1E	YES	24
603	mRNA_BCDIN3D	mRNA	BCDIN3D	YES	12
604	CNV_ECE2	CNV	ECE2	YES	23
605	METH_CSF3	METH	CSF3	YES	28
607	STV_TESC	STV	TESC	YES	34
608	METH_MEGF8	METH	MEGF8	YES	23
610	CNV_GTF2F1	CNV	GTF2F1	YES	31
610	STV_JAGN1	STV	JAGN1	YES	18
613	CNV_PIK3R1	CNV	PIK3R1	YES	80
614	CNV_SHARPIN	CNV	SHARPIN	YES	26
614	METH_CHIA	METH	CHIA	YES	26
615	METH_C3AR1	METH	C3AR1	YES	26
616	CNV_ATG10	CNV	ATG10	YES	13

619	mRNA_ANXA2	mRNA	ANXA2	YES	77
620	METH_CHRNA5	METH	CHRNA5	YES	25
621	CNV_TPX2	CNV	TPX2	YES	26
621	METH_TNIP2	METH	TNIP2	YES	26
622	METH_CORIN	METH	CORIN	YES	18
623	STV_B4GALNT1	STV	B4GALNT1	YES	19
623	STV_NPFFR1	STV	NPFFR1	YES	14
624	METH_MLN	METH	MLN	YES	5
625	mRNA_CBFA2T3	mRNA	CBFA2T3	YES	21
626	mRNA_STK17A	mRNA	STK17A	YES	16
627	CNV_MEX3D	CNV	MEX3D	YES	9
627	mRNA_IL1A	mRNA	IL1A	YES	34
628	METH_TCN1	METH	TCN1	YES	11
628	STV_DMRT3	STV	DMRT3	YES	17
629	METH_C5	METH	C5	YES	31
630	mRNA_BAK1	mRNA	BAK1	YES	80
631	METH_CASP10	METH	CASP10	YES	19
632	METH_GPR132	METH	GPR132	YES	9
633	mRNA_ITGA5	mRNA	ITGA5	YES	49
634	METH_CXCL11	METH	CXCL11	YES	23
635	STV_ADH1A	STV	ADH1A	YES	15
636	CNV_IFNB1	CNV	IFNB1	YES	37
638	METH_PNLIP	METH	PNLIP	YES	13
639	METH_C3	METH	C3	YES	45
639	mRNA_ARFIP2	mRNA	ARFIP2	YES	20
640	METH_GALR3	METH	GALR3	YES	19
641	mRNA_TMIGD2	mRNA	TMIGD2	YES	13
642	METH_DPH3	METH	DPH3	YES	9
642	METH_SLPI	METH	SLPI	YES	25
643	mRNA_IL5RA	mRNA	IL5RA	YES	20
643	mRNA_KIAA1324	mRNA	KIAA1324	YES	18
645	STV_ABI2	STV	ABI2	YES	26
646	CNV_CREB3L3	CNV	CREB3L3	YES	25
647	mRNA_EIF3CL	mRNA	EIF3CL	YES	9
647	mRNA_ITIH4	mRNA	ITIH4	YES	16
648	CNV_EEF2	CNV	EEF2	YES	47
649	STV_GDF2	STV	GDF2	YES	42
650	CNV_CYP11B2	CNV	CYP11B2	YES	28
653	METH_CCL23	METH	CCL23	YES	25
653	STV_FITM1	STV	FITM1	YES	10
655	CNV_TNIK	CNV	TNIK	YES	33
655	METH_TPH1	METH	TPH1	YES	19
656	mRNA_CBR4	mRNA	CBR4	YES	19
657	CNV_IFNA10	CNV	IFNA10	YES	20
658	METH_MMP26	METH	MMP26	YES	12
661	CNV_PARL	CNV	PARL	YES	18
662	CNV_SST	CNV	SST	YES	20

663	mRNA_IFT140	mRNA	IFT140	YES	35
665	METH_F10	METH	F10	YES	22
666	CNV_CYP11B1	CNV	CYP11B1	YES	26
666	CNV_S1PR4	CNV	S1PR4	YES	15
667	CNV_RSPO2	CNV	RSPO2	YES	18
668	METH_MPL	METH	MPL	YES	14
669	CNV_TWF2	CNV	TWF2	YES	30
672	METH_TRIM15	METH	TRIM15	YES	12
672	mRNA_AQP6	mRNA	AQP6	YES	18
673	METH_ATP4B	METH	ATP4B	YES	16
673	STV_GSTM1	STV	GSTM1	YES	14
675	mRNA_CEBPB	mRNA	CEBPB	YES	65
676	CNV_HYAL1	CNV	HYAL1	YES	41
676	METH_PDILT	METH	PDILT	YES	14
677	mRNA_CCT6A	mRNA	CCT6A	YES	21
678	CNV_AMH	CNV	AMH	YES	23
678	mRNA_SUOX	mRNA	SUOX	YES	16
679	mRNA_BRD4	mRNA	BRD4	YES	28
679	STV_TNFRSF8	STV	TNFRSF8	YES	24
680	STV_PAX6	STV	PAX6	YES	101
681	CNV_ADCY8	CNV	ADCY8	YES	28
681	CNV_ETV5	CNV	ETV5	YES	24
683	CNV_DNAJC19	CNV	DNAJC19	YES	12
686	METH_NR1H4	METH	NR1H4	YES	82
686	mRNA_KPNA7	mRNA	KPNA7	YES	15
687	STV_CPEB1	STV	CPEB1	YES	42
688	METH_SLC19A1	METH	SLC19A1	YES	15
689	STV_RAD52	STV	RAD52	YES	19
690	mRNA_MESP1	mRNA	MESP1	YES	47
693	METH_BMP10	METH	BMP10	YES	42
693	mRNA_PANX1	mRNA	PANX1	YES	34
694	STV_CD109	STV	CD109	YES	22
695	CNV_KISS1R	CNV	KISS1R	YES	20
695	STV_BATF	STV	BATF	YES	26
697	CNV_GPR20	CNV	GPR20	YES	11
697	mRNA_KCNAB1	mRNA	KCNAB1	YES	40
698	mRNA_EVL	mRNA	EVL	YES	23
698	mRNA_LRRC46	mRNA	LRRC46	YES	2
699	CNV_SCRIB	CNV	SCRIB	YES	58
701	METH_POLG2	METH	POLG2	YES	22
703	METH_CSF3R	METH	CSF3R	YES	16
704	CNV_FOXH1	CNV	FOXH1	YES	46
704	METH_TNIP3	METH	TNIP3	YES	12
706	mRNA_ATOH8	mRNA	ATOH8	YES	24
707	mRNA_JUP	mRNA	JUP	YES	68
707	mRNA_TRPM4	mRNA	TRPM4	YES	51
708	CNV_STAB1	CNV	STAB1	YES	19

708	STV_NBN	STV	NBN	YES	50
711	METH_ARL14	METH	ARL14	YES	14
711	mRNA_PTH1R	mRNA	PTH1R	YES	39
712	METH_GJA10	METH	GJA10	YES	13
712	mRNA_ATP6V1G2	mRNA	ATP6V1G2	YES	16
713	CNV_EIF4A2	CNV	EIF4A2	YES	22
713	mRNA_GPC1	mRNA	GPC1	YES	29
715	METH_IL25	METH	IL25	YES	14
715	STV_KIF5B	STV	KIF5B	YES	43
716	mRNA_NPLOC4	mRNA	NPLOC4	YES	20
717	CNV_GZMM	CNV	GZMM	YES	14
717	mRNA_STAP1	mRNA	STAP1	YES	29
720	METH_CREB3L3	METH	CREB3L3	YES	25
722	mRNA_UTRN	mRNA	UTRN	YES	32
723	CNV_GPR171	CNV	GPR171	YES	11
724	METH_PLCE1	METH	PLCE1	YES	43
725	CNV_ATP5D	CNV	ATP5D	YES	23
726	METH_AQP9	METH	AQP9	YES	39
728	CNV_SLC30A8	CNV	SLC30A8	YES	30
729	METH_IL7R	METH	IL7R	YES	26
729	METH_TBC1D8	METH	TBC1D8	YES	10
730	mRNA_SRXN1	mRNA	SRXN1	YES	12
732	STV_YES1	STV	YES1	YES	46
735	CNV_RIMS2	CNV	RIMS2	YES	26
735	METH_ATP1A4	METH	ATP1A4	YES	24
736	CNV_DGAT1	CNV	DGAT1	YES	25
737	CNV_AGTR1	CNV	AGTR1	YES	40
737	STV_PTPN2	STV	PTPN2	YES	54
739	METH_ENDOU	METH	ENDOU	YES	22
739	mRNA_NISCH	mRNA	NISCH	YES	19
740	CNV_RHOA	CNV	RHOA	YES	78
740	STV_DEGS1	STV	DEGS1	YES	19
741	STV_AP3S1	STV	AP3S1	YES	20
742	mRNA_GRPR	mRNA	GRPR	YES	18
743	STV_CBR3	STV	CBR3	YES	13
744	CNV_GRIN3B	CNV	GRIN3B	YES	26
744	METH_APOA1	METH	APOA1	YES	113
747	METH_IFNK	METH	IFNK	YES	21
747	mRNA_MOAP1	mRNA	MOAP1	YES	14
749	METH_BCAR3	METH	BCAR3	YES	11
750	CNV_DEFB118	CNV	DEFB118	YES	11
751	mRNA_RPS6KA4	mRNA	RPS6KA4	YES	29
752	METH_CAV1	METH	CAV1	YES	141
753	METH_MTSS1	METH	MTSS1	YES	26
754	METH_PLA2G2F	METH	PLA2G2F	YES	18
755	STV_ATP11C	STV	ATP11C	YES	21
756	CNV_MME	CNV	MME	YES	36

758	mRNA_ZMYND11	mRNA	ZMYND11	YES	28
759	CNV_ATP11B	CNV	ATP11B	YES	27
760	METH_AZGP1	METH	AZGP1	YES	15
760	METH_RHOT2	METH	RHOT2	YES	21
761	mRNA_TRPM8	mRNA	TRPM8	YES	27
762	mRNA_PSMB2	mRNA	PSMB2	YES	43
763	STV_PLCG2	STV	PLCG2	YES	36
764	CNV_TICAM1	CNV	TICAM1	YES	43
766	METH_FGF17	METH	FGF17	YES	25
766	STV_FUT10	STV	FUT10	YES	23
768	METH_C8A	METH	C8A	YES	18
768	STV_S100A12	STV	S100A12	YES	31
769	CNV_SLC26A7	CNV	SLC26A7	YES	30
771	METH_CSF1R	METH	CSF1R	YES	60
772	CNV_HPGD	CNV	HPGD	YES	32
773	CNV_SLC2A2	CNV	SLC2A2	YES	26
774	CNV_SLA	CNV	SLA	YES	15
774	mRNA_FTL	mRNA	FTL	YES	17
775	CNV_REEP6	CNV	REEP6	YES	13
776	CNV_IFNA2	CNV	IFNA2	YES	34
776	mRNA_MMP14	mRNA	MMP14	YES	63
777	CNV_IL17RB	CNV	IL17RB	YES	16
779	mRNA_KCNN2	mRNA	KCNN2	YES	20
780	CNV_SERP1	CNV	SERP1	YES	25
782	METH_HTRA3	METH	HTRA3	YES	12
784	CNV_THOP1	CNV	THOP1	YES	12
785	CNV_PTK2	CNV	PTK2	YES	96
785	STV_CLRN1	STV	CLRN1	YES	14
786	mRNA_EXT1	mRNA	EXT1	YES	34
787	STV_SDR16C5	STV	SDR16C5	YES	20
788	mRNA_TPM4	mRNA	TPM4	YES	27
789	CNV_NDUFB9	CNV	NDUFB9	YES	12
789	STV_SLC25A15	STV	SLC25A15	YES	10
791	STV_RND3	STV	RND3	YES	13
792	STV_DKC1	STV	DKC1	YES	38
794	CNV_ANGPT1	CNV	ANGPT1	YES	50
796	CNV_LONP1	CNV	LONP1	YES	42
797	CNV_LY6D	CNV	LY6D	YES	9
797	mRNA_SLIT1	mRNA	SLIT1	YES	23
798	mRNA_XPC	mRNA	XPC	YES	30
799	mRNA_NPNT	mRNA	NPNT	YES	29
803	mRNA_CCL26	mRNA	CCL26	YES	26
804	STV_NFAM1	STV	NFAM1	YES	18
805	METH_ODAM	METH	ODAM	YES	17
806	CNV_RRM2B	CNV	RRM2B	YES	26
806	mRNA_USP20	mRNA	USP20	YES	23
807	CNV_NDRG1	CNV	NDRG1	YES	29

807	METH_ZNF683	METH	ZNF683	YES	16
808	CNV_GSDMD	CNV	GSDMD	YES	32
809	CNV_APEH	CNV	APEH	YES	17
809	STV_KDR	STV	KDR	YES	69
810	METH_CLEC5A	METH	CLEC5A	YES	21
811	CNV_ARC	CNV	ARC	YES	26
811	METH_FFAR3	METH	FFAR3	YES	22
812	METH_TULP1	METH	TULP1	YES	29
813	CNV_EIF6	CNV	EIF6	YES	27
813	STV_STXBP5L	STV	STXBP5L	YES	17
814	CNV_GPX4	CNV	GPX4	YES	23
815	STV_ABCD4	STV	ABCD4	YES	15
817	METH_MYBPC3	METH	MYBPC3	YES	33
817	mRNA_EIF2S2	mRNA	EIF2S2	YES	14
818	METH_TNFSF8	METH	TNFSF8	YES	17
818	mRNA_CDK19	mRNA	CDK19	YES	16
820	CNV_TNFSF9	CNV	TNFSF9	YES	21
820	STV_ARL2	STV	ARL2	YES	31
821	METH_APOH	METH	APOH	YES	31
821	METH_FCER2	METH	FCER2	YES	17
823	CNV_USP19	CNV	USP19	YES	29
825	CNV_IFNA8	CNV	IFNA8	YES	20
827	METH_IL17F	METH	IL17F	YES	21
827	mRNA_CYSLTR2	mRNA	CYSLTR2	YES	20
828	CNV_TRIB1	CNV	TRIB1	YES	23
828	CNV_WNT5A	CNV	WNT5A	YES	192
830	CNV_TBXA2R	CNV	TBXA2R	YES	31
831	METH_LIFR	METH	LIFR	YES	23
833	mRNA_ITGB4	mRNA	ITGB4	YES	31
836	STV_SNAP29	STV	SNAP29	YES	34
837	mRNA_PGAM1	mRNA	PGAM1	YES	25
839	CNV_P2RY12	CNV	P2RY12	YES	40
839	mRNA_DYNC2LI1	mRNA	DYNC2LI1	YES	28
840	CNV_HMG20B	CNV	HMG20B	YES	17
840	METH_GABRA5	METH	GABRA5	YES	38
841	METH_IL27	METH	IL27	YES	17
841	mRNA_KL	mRNA	KL	YES	39
842	CNV_TMIGD2	CNV	TMIGD2	YES	13
843	CNV_BCHE	CNV	BCHE	YES	28
845	METH_CLDN18	METH	CLDN18	YES	14
845	mRNA_STC2	mRNA	STC2	YES	26
846	mRNA_AMD1	mRNA	AMD1	YES	11
848	mRNA_PPP3CA	mRNA	PPP3CA	YES	57
849	STV_FBXO9	STV	FBXO9	YES	13
850	METH_PRTN3	METH	PRTN3	YES	20
851	CNV_MKNK2	CNV	MKNK2	YES	27
852	mRNA_ZAP70	mRNA	ZAP70	YES	44

853	mRNA_CHRNA2	mRNA	CHRNA2	YES	25
854	CNV_GRHL2	CNV	GRHL2	YES	43
854	STV_TNFRSF13C	STV	TNFRSF13C	YES	15
856	CNV_EIF3E	CNV	EIF3E	YES	25
858	mRNA_ASAH1	mRNA	ASAH1	YES	16
858	STV_SESN2	STV	SESN2	YES	44
859	mRNA_GLRA3	mRNA	GLRA3	YES	30
859	STV_MAPK8IP1	STV	MAPK8IP1	YES	35
860	CNV_EIF3H	CNV	EIF3H	YES	15
861	CNV_DPP9	CNV	DPP9	YES	9
861	METH_PRSS3	METH	PRSS3	YES	18
863	mRNA_LMF1	mRNA	LMF1	YES	15
863	STV_SYNE2	STV	SYNE2	YES	38
864	mRNA_DYNLL2	mRNA	DYNLL2	YES	34
865	STV_HCN1	STV	HCN1	YES	32
866	METH_SEMG2	METH	SEMG2	YES	12
867	STV_EIF3M	STV	EIF3M	YES	10
869	CNV_ZNF639	CNV	ZNF639	YES	20
870	CNV_PRTN3	CNV	PRTN3	YES	20
870	STV_KMT2E	STV	KMT2E	YES	23
871	CNV_MST1R	CNV	MST1R	YES	33
873	STV_ITPR1	STV	ITPR1	YES	50
875	mRNA_THBD	mRNA	THBD	YES	23
876	STV_BTC	STV	BTC	YES	30
876	STV_COMMD3	STV	COMMD3	YES	11
877	METH_FCN2	METH	FCN2	YES	21
878	mRNA_STEAP2	mRNA	STEAP2	YES	24
879	METH_FABP5	METH	FABP5	YES	20
879	STV_SNAP25	STV	SNAP25	YES	47
880	mRNA_IFT88	mRNA	IFT88	YES	40
881	STV_SLC52A3	STV	SLC52A3	YES	11
882	mRNA_SATB1	mRNA	SATB1	YES	29
883	mRNA_FGA	mRNA	FGA	YES	51
884	STV_EFNA5	STV	EFNA5	YES	38
885	CNV_SEMA3F	CNV	SEMA3F	YES	20
887	CNV_EPHB3	CNV	EPHB3	YES	43
887	STV_GFI1B	STV	GFI1B	YES	17
889	CNV_DERL1	CNV	DERL1	YES	40
890	CNV_SUN5	CNV	SUN5	YES	11
891	METH_CLCNKA	METH	CLCNKA	YES	19
892	METH_MAG	METH	MAG	YES	32
893	CNV_PLEC	CNV	PLEC	YES	23
894	CNV_EIF2A	CNV	EIF2A	YES	19
894	METH_INS	METH	INS	YES	84
895	METH_SFN	METH	SFN	YES	36
897	METH_MC3R	METH	MC3R	YES	25
897	STV_PTGFR	STV	PTGFR	YES	19

898	CNV_BAP1	CNV	BAP1	YES	29
900	METH_LRMP	METH	LRMP	YES	19
901	METH_TBC1D10C	METH	TBC1D10C	YES	18
902	CNV_PIAS4	CNV	PIAS4	YES	28
902	STV_ANTXR1	STV	ANTXR1	YES	23
903	METH_CTSG	METH	CTSG	YES	34
904	mRNA_RAB3B	mRNA	RAB3B	YES	23
905	CNV_PARP10	CNV	PARP10	YES	22
905	mRNA_PNOC	mRNA	PNOC	YES	13
906	METH_GUSB	METH	GUSB	YES	20
909	STV_UGT2A1	STV	UGT2A1	YES	12
911	METH_MUC13	METH	MUC13	YES	13
913	mRNA_SLC45A3	mRNA	SLC45A3	YES	13
914	CNV_TNFSF14	CNV	TNFSF14	YES	25
914	mRNA_LRTOMT	mRNA	LRTOMT	YES	17
915	CNV_SLC52A2	CNV	SLC52A2	YES	11
917	CNV_IFNA1	CNV	IFNA1	YES	20
917	STV_COLEC12	STV	COLEC12	YES	23
918	METH_CASQ1	METH	CASQ1	YES	32
919	CNV_ATP8B3	CNV	ATP8B3	YES	21
919	METH_PTPN3	METH	PTPN3	YES	23
922	CNV_DAG1	CNV	DAG1	YES	84
922	mRNA_ACKR3	mRNA	ACKR3	YES	33
923	mRNA_KRAS	mRNA	KRAS	YES	51
923	STV_GNL3L	STV	GNL3L	YES	18
924	METH_LILRB2	METH	LILRB2	YES	39
924	STV_SLMAP	STV	SLMAP	YES	15
926	CNV_IFNW1	CNV	IFNW1	YES	19
927	mRNA_ATP8A1	mRNA	ATP8A1	YES	32
928	CNV_EXT1	CNV	EXT1	YES	34
929	METH_GPX5	METH	GPX5	YES	11
930	mRNA_IL11	mRNA	IL11	YES	17
931	METH_HPN	METH	HPN	YES	36
932	mRNA_PLEC	mRNA	PLEC	YES	23
932	STV_CLCN5	STV	CLCN5	YES	25
933	STV_VAMP2	STV	VAMP2	YES	60
934	METH_HRC	METH	HRC	YES	27
936	mRNA_MYL4	mRNA	MYL4	YES	13
937	STV_CASP14	STV	CASP14	YES	19
939	STV_CHST1	STV	CHST1	YES	15
939	STV_DEDD	STV	DEDD	YES	14
942	METH_TBX6	METH	TBX6	YES	21
943	CNV_USP4	CNV	USP4	YES	21
943	STV_NTRK2	STV	NTRK2	YES	68
944	STV_LTF	STV	LTF	YES	68
945	CNV_GHSR	CNV	GHSR	YES	60
945	mRNA_GAPDH	mRNA	GAPDH	YES	49

946	CNV_IL1RAP	CNV	IL1RAP	YES	26
946	STV_DCLRE1C	STV	DCLRE1C	YES	29
947	METH_FXYD4	METH	FXYD4	YES	14
948	STV_RAB9A	STV	RAB9A	YES	30
949	METH_SEPT14	METH	SEPT14	YES	7
949	STV_HHLA2	STV	HHLA2	YES	8
950	CNV_TM9SF4	CNV	TM9SF4	YES	13
950	CNV_TMEM115	CNV	TMEM115	YES	18
951	STV_PIP5K1B	STV	PIP5K1B	YES	20
952	METH_CD160	METH	CD160	YES	14
952	STV_NLGN2	STV	NLGN2	YES	44
953	mRNA_PYGL	mRNA	PYGL	YES	32
954	METH_CD274	METH	CD274	YES	23
955	mRNA_SLC11A1	mRNA	SLC11A1	YES	63
956	STV_CDO1	STV	CDO1	YES	23
959	mRNA_NKX3.1	mRNA	NKX3.1	NO	0
960	CNV_SLC25A4	CNV	SLC25A4	YES	23
963	mRNA_IRAK2	mRNA	IRAK2	YES	39
963	mRNA_TPO	mRNA	TPO	YES	20
966	CNV_PIK3CA	CNV	PIK3CA	YES	67
966	METH_IQGAP2	METH	IQGAP2	YES	25
970	METH_IGLL1	METH	IGLL1	YES	17
972	STV_TET1	STV	TET1	YES	20
974	CNV_JSRP1	CNV	JSRP1	YES	7
974	STV_RALB	STV	RALB	YES	29
975	CNV_HCN2	CNV	HCN2	YES	32
976	CNV_PLIN5	CNV	PLIN5	YES	20
976	STV_KCNJ3	STV	KCNJ3	YES	24
977	STV_SRSF6	STV	SRSF6	YES	26
978	CNV_GNAT1	CNV	GNAT1	YES	44
978	METH_MUC7	METH	MUC7	YES	11
979	CNV_LRP12	CNV	LRP12	YES	12
979	STV_TSHR	STV	TSHR	YES	38
980	CNV_IFNA6	CNV	IFNA6	YES	21
982	CNV_ENPP2	CNV	ENPP2	YES	37
983	CNV_SKIL	CNV	SKIL	YES	34
983	METH_NOTCH4	METH	NOTCH4	YES	36
984	STV_MASP1	STV	MASP1	YES	19
985	CNV_LYNX1	CNV	LYNX1	YES	4
985	CNV_MECOM	CNV	MECOM	YES	31
986	STV_GNB2	STV	GNB2	YES	24
986	STV_SLC45A2	STV	SLC45A2	YES	9
988	METH_TACC3	METH	TACC3	YES	16
989	METH_PLCL1	METH	PLCL1	YES	18
991	METH_IL24	METH	IL24	YES	18
991	STV_AMIGO1	STV	AMIGO1	YES	24
992	mRNA_ATP6V0D2	mRNA	ATP6V0D2	YES	25

993	CNV_GMPPB	CNV	GMPPB	YES	11
993	STV_IFIH1	STV	IFIH1	YES	36
994	METH_S1PR4	METH	S1PR4	YES	15
995	mRNA_ARG2	mRNA	ARG2	YES	12
996	METH_SLC24A2	METH	SLC24A2	YES	32
997	CNV_PIP5K1C	CNV	PIP5K1C	YES	43
997	METH_TIPIN	METH	TIPIN	YES	21
998	CNV_EEF1D	CNV	EEF1D	YES	19
998	STV_EGFR	STV	EGFR	YES	176
999	STV_CA6	STV	CA6	YES	13
1000	CNV_CISH	CNV	CISH	YES	18
1001	CNV_TKT	CNV	TKT	YES	21
1001	mRNA_PTGS1	mRNA	PTGS1	YES	29
1004	CNV_ID1	CNV	ID1	YES	59
1005	STV_CLDN3	STV	CLDN3	YES	21
1006	METH_CCDC88B	METH	CCDC88B	YES	14
1008	STV_OR13F1	STV	OR13F1	YES	28
1009	METH_KEL	METH	KEL	YES	19
1009	mRNA_IYD	mRNA	IYD	YES	16
1010	CNV_PARP3	CNV	PARP3	YES	22
1010	CNV_THPO	CNV	THPO	YES	14
1012	mRNA_IGSF1	mRNA	IGSF1	YES	9
1013	STV_SMURF2	STV	SMURF2	YES	31
1015	CNV_EBI3	CNV	EBI3	YES	15
1016	CNV_TONSL	CNV	TONSL	YES	17
1017	mRNA_AHNAK2	mRNA	AHNAK2	YES	10
1018	CNV_ACSL1	CNV	ACSL1	YES	37
1020	METH_RNASE3	METH	RNASE3	YES	23
1021	CNV_AZU1	CNV	AZU1	YES	44
1023	mRNA_FGFBP3	mRNA	FGFBP3	YES	7
1026	STV_P4HB	STV	P4HB	YES	38
1027	mRNA_ALDH1A3	mRNA	ALDH1A3	YES	32
1027	STV_AEBP1	STV	AEBP1	YES	24
1028	mRNA_SNX25	mRNA	SNX25	YES	13
1029	mRNA_HSF1	mRNA	HSF1	YES	112
1030	CNV_ADIPOQ	CNV	ADIPOQ	YES	92
1030	STV_PRDX1	STV	PRDX1	YES	35
1031	CNV_POLR2E	CNV	POLR2E	YES	32
1031	CNV_SENP2	CNV	SENP2	YES	29
1032	mRNA_WNT10A	mRNA	WNT10A	YES	20
1033	CNV_FGF22	CNV	FGF22	YES	22
1033	CNV_PTBP1	CNV	PTBP1	YES	20
1034	METH_GHRHR	METH	GHRHR	YES	51
1035	CNV_TUSC2	CNV	TUSC2	YES	18
1036	METH_CCRL2	METH	CCRL2	YES	14
1036	mRNA_SPON2	mRNA	SPON2	YES	23
1037	METH_FXYD2	METH	FXYD2	YES	25

1038	METH_SOD3	METH	SOD3	YES	23
1039	METH_MRAP2	METH	MRAP2	YES	17
1040	METH_SCNN1D	METH	SCNN1D	YES	14
1041	METH_CNGA3	METH	CNGA3	YES	31
1043	STV_PHOX2B	STV	PHOX2B	YES	42
1045	CNV_TAF2	CNV	TAF2	YES	20
1046	METH_CLDN5	METH	CLDN5	YES	24
1046	METH_LACRT	METH	LACRT	YES	26
1049	METH_ACKR3	METH	ACKR3	YES	33
1050	mRNA_MUC16	mRNA	MUC16	YES	13
1051	STV_CFTR	STV	CFTR	YES	61
1052	CNV_EIF4G1	CNV	EIF4G1	YES	47
1052	METH_HTR3C	METH	HTR3C	YES	12
1053	CNV_MED30	CNV	MED30	YES	21
1053	STV_GPR50	STV	GPR50	YES	13
1055	mRNA_WDR19	mRNA	WDR19	YES	28
1056	CNV_BSG	CNV	BSG	YES	31
1056	METH_P2RY12	METH	P2RY12	YES	40
1057	mRNA_CRY2	mRNA	CRY2	YES	43
1057	mRNA_TRDC	mRNA	TRDC	YES	1
1058	mRNA_SVIP	mRNA	SVIP	YES	22
1059	CNV_FSTL3	CNV	FSTL3	YES	30
1060	CNV_EHHADH	CNV	EHHADH	YES	22
1061	CNV_NOV	CNV	NOV	YES	43
1061	METH_ESRRB	METH	ESRRB	YES	42
1064	mRNA_PSMD11	mRNA	PSMD11	YES	43
1065	METH_GRM8	METH	GRM8	YES	16
1065	mRNA_KCNIP3	mRNA	KCNIP3	YES	41
1066	METH_MYOC	METH	MYOC	YES	44
1067	CNV_GYG1	CNV	GYG1	YES	16
1067	CNV_TNFRSF11B	CNV	TNFRSF11B	YES	27
1070	STV_CLDN19	STV	CLDN19	YES	16
1071	METH_PKHD1	METH	PKHD1	YES	32
1073	METH_TESC	METH	TESC	YES	34
1074	METH_BGLAP	METH	BGLAP	YES	50
1074	METH_IL18R1	METH	IL18R1	YES	14
1075	CNV_GPR87	CNV	GPR87	YES	12
1077	mRNA_LOXL2	mRNA	LOXL2	YES	40
1077	STV_RAB11A	STV	RAB11A	YES	62
1078	CNV_SYBU	CNV	SYBU	YES	16
1078	METH_KLK4	METH	KLK4	YES	12
1079	METH_CCR3	METH	CCR3	YES	24
1079	mRNA_CTC1	mRNA	CTC1	YES	26
1081	METH_OPA3	METH	OPA3	YES	7
1081	STV_TPT1	STV	TPT1	YES	18
1083	CNV_FEM1A	CNV	FEM1A	YES	8
1083	STV_RPL7A	STV	RPL7A	YES	23

1084	CNV_NLGN1	CNV	NLGN1	YES	77
1086	CNV_DHFR	CNV	DHFR	YES	32
1087	METH_CHRNG	METH	CHRNG	YES	26
1088	CNV_AHCY	CNV	AHCY	YES	22
1088	CNV_TSTA3	CNV	TSTA3	YES	18
1090	mRNA_NPY	mRNA	NPY	YES	29
1091	METH_COL18A1	METH	COL18A1	YES	25
1091	mRNA_FTH1	mRNA	FTH1	YES	25
1092	METH_IPO5	METH	IPO5	YES	24
1094	CNV_RPL8	CNV	RPL8	YES	21
1097	METH_BPIFA1	METH	BPIFA1	YES	17
1098	CNV_CLRN1	CNV	CLRN1	YES	14
1098	CNV_IFNA21	CNV	IFNA21	YES	20
1099	mRNA_ADAM17	mRNA	ADAM17	YES	60
1099	mRNA_PML	mRNA	PML	YES	86
1100	METH_ANXA9	METH	ANXA9	YES	12
1101	METH_GZMA	METH	GZMA	YES	18
1102	mRNA_ATP6V0E2	mRNA	ATP6V0E2	YES	20
1103	METH_FMO3	METH	FMO3	YES	15
1104	METH_CTNNA3	METH	CTNNA3	YES	15
1105	STV_PSMC6	STV	PSMC6	YES	51
1106	CNV_IMPDH2	CNV	IMPDH2	YES	27
1107	METH_CD2	METH	CD2	YES	28
1108	mRNA_DCSTAMP	mRNA	DCSTAMP	YES	24
1109	CNV_IFNA16	CNV	IFNA16	YES	20
1112	CNV_IFNA13	CNV	IFNA13	YES	20
1113	mRNA_ADAM8	mRNA	ADAM8	YES	57
1114	METH_CHRNE	METH	CHRNE	YES	27
1114	STV_CARD18	STV	CARD18	YES	16
1115	STV_ATP6V1G1	STV	ATP6V1G1	YES	23
1116	METH_PTGDR2	METH	PTGDR2	YES	23
1116	METH_SLC25A17	METH	SLC25A17	YES	32
1117	mRNA_SRSF5	mRNA	SRSF5	YES	23
1118	METH_CIITA	METH	CIITA	YES	35
1119	METH_GPR37L1	METH	GPR37L1	YES	19
1119	mRNA_DVL3	mRNA	DVL3	YES	27
1120	STV_DSP	STV	DSP	YES	43
1122	STV_STIL	STV	STIL	YES	24
1124	METH_C1S	METH	C1S	YES	18
1124	STV_CCNE2	STV	CCNE2	YES	19
1126	CNV_IFNA5	CNV	IFNA5	YES	20
1128	mRNA_CTPS1	mRNA	CTPS1	YES	17
1130	METH_CSRP3	METH	CSRP3	YES	27
1131	CNV_PAPD4	CNV	PAPD4	YES	18
1131	mRNA_KLK4	mRNA	KLK4	YES	12
1134	CNV_HRG	CNV	HRG	YES	49
1135	CNV_SERINC5	CNV	SERINC5	YES	25

1136	mRNA_SESN1	mRNA	SESN1	YES	16
1136	STV_FMO1	STV	FMO1	YES	21
1137	mRNA_ADAMTSL4	mRNA	ADAMTSL4	YES	15
1137	STV_RHOC	STV	RHOC	YES	22
1139	CNV_EXOSC4	CNV	EXOSC4	YES	30
1140	METH_MMP13	METH	MMP13	YES	23
1140	mRNA_MAPT	mRNA	MAPT	YES	78
1141	METH_HK3	METH	HK3	YES	27
1142	STV_NDUFA13	STV	NDUFA13	YES	32
1142	STV_TM9SF4	STV	TM9SF4	YES	13
1144	METH_AQP10	METH	AQP10	YES	12
1144	STV_GSTM2	STV	GSTM2	YES	27
1145	CNV_BCL2L1	CNV	BCL2L1	YES	71
1146	CNV_PTX3	CNV	PTX3	YES	21
1147	CNV_CASP3	CNV	CASP3	YES	78
1147	mRNA_RCOR1	mRNA	RCOR1	YES	20
1149	CNV_NISCH	CNV	NISCH	YES	19
1149	STV_DOCK4	STV	DOCK4	YES	22
1152	METH_PTPRH	METH	PTPRH	YES	19
1152	mRNA_CPEB3	mRNA	CPEB3	YES	40
1153	METH_CTRC	METH	CTRC	YES	8
1155	mRNA_CHRNA1	mRNA	CHRNA1	YES	34
1157	METH_C8G	METH	C8G	YES	15
1158	mRNA_YBX1	mRNA	YBX1	YES	37
1159	CNV_ATP6V1C1	CNV	ATP6V1C1	YES	24
1159	METH_TNNI1	METH	TNNI1	YES	11
1160	METH_CFH	METH	CFH	YES	12
1161	METH_PNOC	METH	PNOC	YES	13
1161	mRNA_TENM1	mRNA	TENM1	YES	34
1162	CNV_CACNA1D	CNV	CACNA1D	YES	35
1164	CNV_PLAGL2	CNV	PLAGL2	YES	17
1164	mRNA_TMEFF2	mRNA	TMEFF2	YES	8
1165	CNV_CLPP	CNV	CLPP	YES	12
1166	METH_BRCA2	METH	BRCA2	YES	58
1167	CNV_CACTIN	CNV	CACTIN	YES	26
1167	CNV_MAP2K2	CNV	MAP2K2	YES	60
1168	METH_CHRNB4	METH	CHRNB4	YES	39
1169	METH_CEBPE	METH	CEBPE	YES	22
1170	METH_KALRN	METH	KALRN	YES	51
1171	CNV_ABCA7	CNV	ABCA7	YES	41
1171	METH_APOC4	METH	APOC4	YES	11
1172	METH_P2RX1	METH	P2RX1	YES	46
1172	STV_NFE2L2	STV	NFE2L2	YES	64
1175	CNV_ENY2	CNV	ENY2	YES	23
1176	METH_C5AR1	METH	C5AR1	YES	46
1178	CNV_MAPRE1	CNV	MAPRE1	YES	34
1179	METH_MT2A	METH	MT2A	YES	16

1180	METH_SERPINB10	METH	SERPINB10	YES	13
1180	mRNA_TRBC2	mRNA	TRBC2	YES	2
1181	CNV_IL12A	CNV	IL12A	YES	41
1184	CNV_WWTR1	CNV	WWTR1	YES	35
1185	mRNA_PLXNA1	mRNA	PLXNA1	YES	16
1186	mRNA_ALOX15B	mRNA	ALOX15B	YES	36
1187	CNV_HAS2	CNV	HAS2	YES	32
1188	CNV_KCNMB2	CNV	KCNMB2	YES	18
1188	mRNA_EIF4G1	mRNA	EIF4G1	YES	47
1189	METH_ATP6V0A4	METH	ATP6V0A4	YES	34
1190	METH_NR5A2	METH	NR5A2	YES	41
1191	METH_SLC30A8	METH	SLC30A8	YES	30
1192	METH_TRIM38	METH	TRIM38	YES	16
1193	CNV_CKMT2	CNV	CKMT2	YES	13
1193	STV_CYP4F2	STV	CYP4F2	YES	46
1194	METH_C1QC	METH	C1QC	YES	15
1196	STV_CAMK2D	STV	CAMK2D	YES	75
1197	mRNA_WDR6	mRNA	WDR6	YES	12
1200	CNV_POLR2K	CNV	POLR2K	YES	35
1200	STV_MMP15	STV	MMP15	YES	21
1201	CNV_TCF3	CNV	TCF3	YES	48
1201	METH_HYAL2	METH	HYAL2	YES	67
1202	CNV_GRM2	CNV	GRM2	YES	26
1205	STV_IFIT3	STV	IFIT3	YES	14
1205	STV_UFL1	STV	UFL1	YES	24
1206	METH_PTAFR	METH	PTAFR	YES	57
1206	STV_HSD3B7	STV	HSD3B7	YES	19
1207	mRNA_BBS4	mRNA	BBS4	YES	83
1208	STV_NPY5R	STV	NPY5R	YES	30
1208	STV_TSTA3	STV	TSTA3	YES	18
1209	METH_MET	METH	MET	YES	50
1209	STV_SH3GLB1	STV	SH3GLB1	YES	41
1210	CNV_SBNO2	CNV	SBNO2	YES	18
1211	mRNA_GJB2	mRNA	GJB2	YES	35
1214	CNV_NDUFS7	CNV	NDUFS7	YES	21
1215	METH_HFE2	METH	HFE2	YES	24
1215	mRNA_RDH11	mRNA	RDH11	YES	16
1216	METH_FCN1	METH	FCN1	YES	26
1216	METH_OAS1	METH	OAS1	YES	26
1220	STV_RANBP17	STV	RANBP17	YES	13
1221	CNV_SAFB2	CNV	SAFB2	YES	19
1222	METH_AZU1	METH	AZU1	YES	44
1222	METH_PLCB2	METH	PLCB2	YES	19
1223	mRNA_JAG1	mRNA	JAG1	YES	58
1224	CNV_ABHD6	CNV	ABHD6	YES	16
1224	METH_GHRH	METH	GHRH	YES	20
1226	mRNA_CLCNKA	mRNA	CLCNKA	YES	19

1226	mRNA_SLC26A7	mRNA	SLC26A7	YES	30
1227	METH_KLB	METH	KLB	YES	24
1229	METH_PER2	METH	PER2	YES	33
1230	METH_DYSF	METH	DYSF	YES	23
1230	METH_RAPGEF1	METH	RAPGEF1	YES	37
1231	mRNA_PTPRM	mRNA	PTPRM	YES	30
1231	mRNA_SLC26A4	mRNA	SLC26A4	YES	32
1232	STV_PSEN2	STV	PSEN2	YES	79
1234	CNV_ASXL1	CNV	ASXL1	YES	34
1234	mRNA_TRIM16	mRNA	TRIM16	YES	22
1235	mRNA_COL4A3BP	mRNA	COL4A3BP	YES	32
1236	STV_SYNCRIP	STV	SYNCRIP	YES	27
1237	CNV_ARL14	CNV	ARL14	YES	14
1238	METH_AQP5	METH	AQP5	YES	21
1239	METH_LTA	METH	LTA	YES	27
1239	STV_SPTA1	STV	SPTA1	YES	35
1240	METH_PCSK6	METH	PCSK6	YES	28
1240	METH_SPP1	METH	SPP1	YES	32
1241	METH_APOBEC1	METH	APOBEC1	YES	43
1241	mRNA_PLCL1	mRNA	PLCL1	YES	18

CLAIMS

What is claimed is:

1. A method comprising:

reading biological data of a population;

extracting a plurality of features of the population from the biological data;

providing the plurality of features to a first trained classifier to determine a subset of the plurality of features distinguishing the population;

determining a plurality of genes associated with the subset of the plurality of features;

providing the plurality of genes to a second trained classifier to determine a subset of the plurality of genes distinguishing the population;

applying a dependence model to the subset of the plurality of genes to determine one or more drug target.

2. The method of claim 1, wherein the biological data include molecular features of the population.

3. The method of claim 1, wherein the biological data include phenomic data.

4. The method of claim 1, wherein the biological data include clinical data.

5. The method of claim 1, wherein the biological data include genomic, proteomic, transcriptomic, epigenomic, or microbiomic data.

6. The method of claim 1, wherein the extracted features comprise one or more metagene.

7. The method of claim 1, wherein the extracted features correspond to gene clusters.

8. The method of claim 1, wherein the features are extracted by clustering the biological data.

9. The method of claim 7, wherein clustering comprises: hierarchical clustering, k-means clustering, distribution-based clustering, Gaussian mixture models, density-based clustering, or highly connected subgraphs clustering.

10. The method of claim 1, wherein the features are extracted by gene correlation.

11. The method of claim 9, wherein gene correlation comprises multiscale embedded gene co-expression network analysis.

12. The method of claim 9, wherein gene correlation comprises clustering based on measured molecular data.

13. The method of claim 9, wherein gene correlation comprises clustering based on biological annotations.

14. The method of claim 1, wherein extracting the plurality of features comprises applying principle component analysis.

15. The method of claim 1, wherein extracting the plurality of features comprises applying nonlinear dimensionality reduction.

16. The method of claim 1, wherein the first trained classifier comprises an artificial neural network.

17. The method of claim 16, wherein the artificial neural network comprises a deep artificial neural network or a deep Baysian neural network.

18. The method of claim 1, wherein the first trained classifier comprises a support vector machine.

19. The method of claim 1, further comprising:

providing the plurality of features to a third trained classifier to determine a second subset of the plurality of features distinguishing the population.

20. The method of claim 19, further comprising:

combining the first and second subsets of the plurality of features.

21. The method of claim 1, further comprising:

ranking the subset of the plurality of features by saliency.

22. The method of claim 21, wherein ranking the subset comprises generating a saliency map.

23. The method of claim 1, wherein the second trained classifier comprises an artificial neural network.

24. The method of claim 23, wherein the artificial neural network comprises a deep artificial neural network or a deep Baysian neural network.

25. The method of claim 1, wherein the second trained classifier comprises a support vector machine.

26. The method of claim 1, further comprising:

providing the plurality of genes to a fourth trained classifier to determine a second subset of the plurality of genes distinguishing the population.

27. The method of claim 26, further comprising:

combining the first and second subsets of the plurality of genes.

28. The method of claim 1, further comprising:

ranking the subset of the plurality of genes by saliency.

29. The method of claim 28, wherein ranking the subset comprises generating a saliency map.

30. The method of claim 1, wherein the dependence model comprises a Bayesian belief network.

31. The method of claim 1, further comprising:

determining one or more association between the one or more drug target and a disease vocabulary term.

32. The method of claim 31, wherein determining the one or more association comprises searching existing medical literature.

33. The method of claim 31, wherein the association includes a relationship between the one or more drug target and the disease vocabulary term.

34. The method of claim 33, wherein the relationship is stimulatory, inhibitory, neutral, or parallel.

35. The method of claim 1, further comprising:

determining one or more association between the one or more drug target and a drug vocabulary term.

36. The method of claim 35, wherein determining the one or more association comprises searching existing medical literature.

37. The method of claim 35, wherein the association includes a relationship between the one or more drug target and the drug vocabulary term.

38. The method of claim 37, wherein the relationship is stimulatory, inhibitory, neutral, or parallel.

39. The method of claim 1, further comprising:

providing the plurality of genes to an ensemble model.

40. A system comprising:

a computing node comprising a computer readable storage medium having program instructions embodied therewith, the program instructions executable by a processor of the computing node to cause the processor to perform a method comprising:

reading biological data of a population;

extracting a plurality of features of the population from the biological data;

providing the plurality of features to a first trained classifier to determine a subset of the plurality of features distinguishing the population;

determining a plurality of genes associated with the subset of the plurality of features;

providing the plurality of genes to a second trained classifier to determine a subset of the plurality of genes distinguishing the population;

applying a dependence model to the subset of the plurality of genes to determine one or more drug target.

41. The system of claim 40, wherein the biological data include molecular features of the population.

42. The system of claim 40, wherein the biological data include phenomic data.

43. The system of claim 40, wherein the biological data include clinical data.

44. The system of claim 40, wherein the biological data include genomic, proteomic, transcriptomic, epigenomic, or microbiomic data.

45. The system of claim 40, wherein the extracted features comprise one or more metagene.

46. The system of claim 40, wherein the extracted features correspond to gene clusters.

47. The system of claim 40, wherein the features are extracted by clustering the biological data.

48. The system of claim 46, wherein clustering comprises: hierarchical clustering, k-means clustering, distribution-based clustering, Gaussian mixture models, density-based clustering, or highly connected subgraphs clustering.

49. The system of claim 40, wherein the features are extracted by gene correlation.

50. The system of claim 49, wherein gene correlation comprises multiscale embedded gene co-expression network analysis.

51. The system of claim 49, wherein gene correlation comprises clustering based on measured molecular data.

52. The system of claim 49, wherein gene correlation comprises clustering based on biological annotations.

53. The system of claim 40, wherein extracting the plurality of features comprises applying principle component analysis.

54. The system of claim 40, wherein extracting the plurality of features comprises applying nonlinear dimensionality reduction.

55. The system of claim 40, wherein the first trained classifier comprises an artificial neural network.

56. The system of claim 55, wherein the artificial neural network comprises a deep artificial neural network or a deep Baysian neural network.

57. The system of claim 40, wherein the first trained classifier comprises a support vector machine.

58. The system of claim 40, the method further comprising:

providing the plurality of features to a third trained classifier to determine a second subset of the plurality of features distinguishing the population.

59. The system of claim 58, the method further comprising:

combining the first and second subsets of the plurality of features.

60. The system of claim 40, he method further comprising:

ranking the subset of the plurality of features by saliency.

61. The system of claim 60, wherein ranking the subset comprises generating a saliency map.

62. The system of claim 40, wherein the second trained classifier comprises an artificial neural network.

63. The system of claim 62, wherein the artificial neural network comprises a deep artificial neural network or a deep Baysian neural network.

64. The system of claim 40, wherein the second trained classifier comprises a support vector machine.

65. The system of claim 40, the method further comprising:

providing the plurality of genes to a fourth trained classifier to determine a second subset of the plurality of genes distinguishing the population.

66. The system of claim 65, the method further comprising:

combining the first and second subsets of the plurality of genes.

67. The system of claim 40, the method further comprising:

ranking the subset of the plurality of genes by saliency.

68. The system of claim 67, wherein ranking the subset comprises generating a saliency map.

69. The system of claim 40, wherein the dependence model comprises a Bayesian belief network.

70. The system of claim 40, the method further comprising:

determining one or more association between the one or more drug target and a disease vocabulary term.

71. The system of claim 70, wherein determining the one or more association comprises searching existing medical literature.

72. The system of claim 70, wherein the association includes a relationship between the one or more drug target and the disease vocabulary term.

73. The system of claim 72, wherein the relationship is stimulatory, inhibitory, neutral, or parallel.

74. The system of claim 40, the method further comprising:

determining one or more association between the one or more drug target and a drug vocabulary term.

75. The system of claim 74, wherein determining the one or more association comprises searching existing medical literature.

76. The system of claim 74, wherein the association includes a relationship between the one or more drug target and the drug vocabulary term.

77. The system of claim 76, wherein the relationship is stimulatory, inhibitory, neutral, or parallel.

78. The system of claim 40, the method further comprising:

providing the plurality of genes to an ensemble model.

79. A computer program product for identifying drug targets, the computer program product comprising a computer readable storage medium having program instructions embodied therewith, the program instructions executable by a processor to cause the processor to perform a method comprising:

reading biological data of a population;

extracting a plurality of features of the population from the biological data;

providing the plurality of features to a first trained classifier to determine a subset of the plurality of features distinguishing the population;

determining a plurality of genes associated with the subset of the plurality of features;

providing the plurality of genes to a second trained classifier to determine a subset of the plurality of genes distinguishing the population;

applying a dependence model to the subset of the plurality of genes to determine one or more drug target.

80. A method of identifying at least one therapeutic or drug target for at least one cancer, the method comprising the steps of:

(a) receiving or providing at least one data set obtained from at least one cancer type; and

(b) processing the at least one data set according to the method of claim 1, to thereby identify at least one therapeutic or drug target;

wherein said at least one therapeutic or drug target is at least one gene listed in Table B, Table C, Table D, Table E, Table F, Table G, Table H, Table I, Table J, Table K, Table L, Table M, Table N, Table O, Table AP, Table AQ, Table AR, Table AS, Table AT, Table AU, Table AV, Table AX, Table AY, Table AZ, Table AAA, Table AAB, Table AAC, Table AAD, Table AAF, Table AAG, Table AAH, Table AAJ, Table AAK, Table AAL, Table AAM, Table AAN, or Table AAO.

81. The method of claim 80, wherein at least two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty, twenty-

one, twenty-two, twenty-three, twenty-four, twenty-five, twenty-six, twenty-seven, twenty-eight, twenty-nine, thirty, thirty-one, thirty-two, thirty-three, thirty-four, thirty-five, thirty-six, thirty-seven, thirty-eight, thirty-nine, forty, forty-one, forty-two, forty-three, forty-four, forty-five, forty-six, forty-seven, forty-eight, forty-nine, fifty, fifty-one, fifty-two, fifty-three, fifty-four, fifty-five, fifty-six, fifty-seven, or more therapeutic or drug targets are identified.

82. The method of claim 80, wherein at least two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, twenty, twenty-one twenty-two, twenty-three, twenty-four, twenty-five, twenty-six, twenty-seven, twenty-eight, twenty-nine, thirty, thirty-one, thirty-two, thirty-three, thirty-four, thirty-five, thirty-six, thirty-seven, thirty-eight, thirty-nine, forty, forty-one, forty-two, forty-three, forty-four, forty-five, forty-six, forty-seven, forty-eight, forty-nine, fifty, fifty-one, fifty-two, fifty-three, fifty-four, fifty-five, fifty-six, fifty-seven, or more genes are selected.

83. The method of claim 80, wherein said data set is selected from the group consisting of whole genome sequencing data, whole exome sequencing data, RNA-Seq data, miRNA-SEQ data, cDNA sequencing data, and Methylation Array data.

84. The method of claim 80, wherein the cancer is selected from the group consisting of Estrogen Receptor (ER) positive breast cancer (ER positive), Estrogen Receptor (ER) negative breast cancer (ER negative), Luminal A breast cancer (Luminal A), Luminal B breast cancer (Luminal B), Lung Adenocarcinoma (LUAD), Lung Squamous Cell Carcinoma (LUSC), Kidney Renal Clear Cell Carcinoma (KIRC), Kidney Renal Papillary Cell Carcinoma (KIRP), Bladder

Urothelial Carcinoma (BLCA), Breast Invasive Carcinoma (BRCA), Cervical Squamous Cell Carcinoma and Endocervical Adenocarcinoma (CESC), Colon Adenocarcinoma/Rectum Adenocarcinoma (COAD/READ), Esophageal Carcinoma (ESCA), Head and Neck Squamous Cell Carcinoma (HNSC), Brain Lower Grade Glioma (LGG), Liver Hepatocellular Carcinoma (LIHC), Ovarian Serous Cystadenocarcinoma (OV), Pancreatic Adenocarcinoma (PAAD), Pheochromocytoma and Paraganglioma (PCPG), Prostate Adenocarcinoma (PRAD), Sarcoma (SARC), Stomach Adenocarcinoma (STAD), Testicular Germ Cell Tumors (TGCT), Thyroid Carcinoma (THCA), Thymoma (THYM), and Uterine Corpus Endometrial Carcinoma (UCEC).

85. The method of claim 80, wherein the cancer is BRCA and the at least one therapeutic or drug target is at least one gene listed in Table B, Table C, Table AT, Table AU, Table AV, or combinations thereof.

86. The method of claim 85, wherein the at least one therapeutic or drug target is at least fifty therapeutic or drug targets, wherein said at least fifty therapeutic or drug targets correspond to the fifty genes listed in Table B.

87. The method of claim 85, wherein the at least one therapeutic or drug target is at least fifty-two therapeutic or drug targets, wherein said at least fifty-two therapeutic or drug targets correspond to the fifty-two genes listed in Table C.

88. The method of claim 85, wherein the at least one therapeutic or drug target is at least twenty-three therapeutic or drug targets, wherein said at least twenty-three therapeutic or drug targets correspond to the twenty-three genes listed in Table AT.

89. The method of claim 85, wherein the at least one therapeutic or drug target is at least fourteen therapeutic or drug targets, wherein said at least fourteen therapeutic or drug targets correspond to the fourteen genes listed in Table AU.

90. The method of claim 85, wherein the at least one therapeutic or drug target is at least five therapeutic or drug targets, wherein said at least five therapeutic or drug targets correspond to the at least genes listed in Table AV.

91. The method of claim 80, wherein the cancer is LUAD or LUSC and the at least one therapeutic or drug target is at least one gene listed in Table H, Table I, Table AAB, Table AAC, Table AAD, or combinations thereof.

92. The method of claim 91, wherein the at least one therapeutic or drug target is at least fifty therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty genes listed Table H.

93. The method of claim 91, wherein the at least one therapeutic or drug target is at least fifty therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty genes listed Table E.

94. The method of claim 91, wherein the at least one therapeutic or drug target is at least twenty-five therapeutic or drug targets, wherein said at least twenty-five therapeutic or drug targets correspond to the twenty-five genes listed in Table AAB.

95. The method of claim 91, wherein the at least one therapeutic or drug target is at least fourteen therapeutic or drug targets, wherein said at least fourteen therapeutic or drug targets correspond to the fourteen genes listed in Table AAC.

96. The method of claim 91, wherein the at least one therapeutic or drug target is at least three therapeutic or drug targets, wherein said at least three therapeutic or drug targets correspond to the three genes listed in Table AAD.

97. The method of claim 80, wherein the cancer is ER positive or ER negative and the at least one therapeutic or drug target is at least one gene listed in Table D, Table E, Table AX, Table AY, Table AZ, Table AAA, or combinations thereof.

98. The method of claim 97, wherein the at least one therapeutic or drug target is at least fifty-two therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-two genes listed Table D.

99. The method of claim 97, wherein the at least one therapeutic or drug target is at least fifty-two therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-two genes listed Table E.

100. The method of claim 97, wherein the at least one therapeutic or drug target is at least thirty-two therapeutic or drug targets, wherein said at least thirty-two therapeutic or drug targets correspond to the thirty-two genes listed in Table AX.

101. The method of claim 97, wherein the at least one therapeutic or drug target is at least seventeen therapeutic or drug targets, wherein said at least seventeen therapeutic or drug targets correspond to the seventeen genes listed in Table AY.

102. The method of claim 97, wherein the at least one therapeutic or drug target corresponds to the one gene listed in Table AZ.

103. The method of claim 97, wherein the at least one therapeutic or drug target is at least two therapeutic or drug targets, wherein said at least two therapeutic or drug targets correspond to the two genes listed in Table AAA.

104. The method of claim 80, wherein the cancer is Luminal A or Luminal B and the at least one therapeutic or drug target is at least one gene selected listed in Table J, Table K, Table AAF, Table AAG, Table AAH, or combinations thereof.

105. The method of claim 104, wherein the at least one therapeutic or drug target is at least fifty-one therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-one genes listed Table J.

106. The method of claim 104, wherein the at least one therapeutic or drug target is at least fifty-one therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-one genes listed Table K.

107. The method of claim 104, wherein the at least one therapeutic or drug target is at least thirty-two therapeutic or drug targets, wherein said at least thirty-two therapeutic or drug targets correspond to the thirty-two genes listed in Table AAF.

108. The method of claim 104, wherein the at least one therapeutic or drug target is at least seventeen therapeutic or drug targets, wherein said at least seventeen therapeutic or drug targets correspond to the seventeen genes listed in Table AAG.

109. The method of claim 104, wherein the at least one therapeutic or drug target is at least three therapeutic or drug targets, wherein said at least therapeutic or drug targets correspond to the three genes listed in Table AAH.

110. The method of claim 80, wherein the cancer is KIRP or KIRC and the at least one therapeutic or drug target is at least one gene selected listed in Table F, Table G, Table AP, Table AQ, Table AR, Table AS, or combination thereof.

111. The method of claim 110, wherein the at least one therapeutic or drug target is at least fifty-seven therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-seven genes listed Table F.

112. The method of claim 110, wherein the at least one therapeutic or drug target is at least fifty-three therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-three genes listed Table G.

113. The method of claim 110, wherein the at least one therapeutic or drug target is at least twenty-eight therapeutic or drug targets, wherein said at least twenty-eight therapeutic or drug targets correspond to the twenty-eight genes listed in Table AP.

114. The method of claim 110, wherein the at least one therapeutic or drug target is at least twenty-two therapeutic or drug targets, wherein said at least twenty-two therapeutic or drug targets correspond to the twenty-two genes listed in Table AQ.

115. The method of claim 110, wherein the at least one therapeutic or drug target is at least three therapeutic or drug targets, wherein said at least three therapeutic or drug targets correspond to the three genes listed in Table AR.

116. The method of claim 110, wherein the at least one therapeutic or drug target corresponds to the one gene listed in Table AS.

117. The method of claim 80, wherein the at least one therapeutic or drug target is at least two hundred therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the two hundred genes listed in Table M.

118. The method of claim 80, wherein the at least one therapeutic or drug target is at least fifty-one therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-one genes listed in Table L.

119. The method of claim 80, wherein the at least one therapeutic or drug target is at least fifty-one therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-one genes listed in Table N.

120. The method of claim 80, wherein the at least one therapeutic or drug target is at least fifty-one therapeutic or drug targets, wherein said therapeutic or drug targets correspond to the fifty-one genes listed in Table O.

121. The method of claim 80, wherein the at least one therapeutic or drug target is at least forty-six therapeutic or drug targets, wherein said at least forty-six therapeutic or drug targets correspond to the forty-six genes listed in Table AAJ.

122. The method of claim 80, wherein the at least one therapeutic or drug target is at least twenty-six therapeutic or drug targets, wherein said at least twenty-six therapeutic or drug targets correspond to the twenty-six genes listed in Table AAK.

123. The method of claim 80, wherein the at least one therapeutic or drug target is at least twenty-seven therapeutic or drug targets, wherein said at least twenty-seven therapeutic or drug targets correspond to the twenty-seven genes listed in Table AAL.

124. The method of claim 80, wherein the at least one therapeutic or drug target is at least twenty-three therapeutic or drug targets, wherein said at least twenty-three therapeutic or drug targets correspond to the twenty-three genes listed in Table AAM.

125. The method of claim 80, wherein the at least one therapeutic or drug target is at least three therapeutic or drug targets, wherein said at least three therapeutic or drug correspond to the three genes listed in Table AAN.

126. The method of claim 80, wherein the at least one therapeutic or drug target corresponds to the one genes listed in Table AAO.

127. A diagnostic system for carrying out the method of any one of claims 80-126.

128. A method of diagnosing cancer in a subject, the method comprising:

(a) obtaining or receiving at least one biological sample from the subject;

(b) determining expression levels of a plurality of genes in said sample, to generate at least one data set comprising the expression levels of the plurality of genes;

(c) processing the data set according to the method of claim 80;

(d) comparing the plurality of genes identified in step (c) to the genes listed in Table B, Table C, Table D, Table E, Table F, Table G, Table H, Table I, Table J, Table K, Table L, Table M, Table N, Table O, Table AP, Table AQ, Table AR, Table AS, Table AT, Table AU, Table AV, Table AX, Table AY, Table AZ, Table AAA, Table AAB, Table AAC, Table AAD, Table AAF, Table AAG, Table AAH, Table AAJ, Table AAK, Table AAL, Table AAM, Table AAN, or Table AAO; and

(e) diagnosing the patient as having cancer based on the comparison in (d).

129. The method of claim 128, wherein the expression levels comprises genomic DNA levels, cDNA levels, RNA levels, methylation levels, phosphorylation levels, or protein expression levels.

130. The method of claim 128, wherein expression levels of the plurality of genes are determined by a method selected from the group of methods consisting of immunohistochemistry, nucleic acid hybridization, and quantitative RT-PCR.

131. The method of claim 128, wherein the modulated expression levels comprise enhanced, enriched, increased, decreased, or reduced expression levels.

132. The method of claim 128, wherein the subject is a human subject.

133. The method of claim 128, wherein the subject was originally diagnosed with cancer of unknown primary.

134. The method of claim 128, wherein the biological sample is selected from the group of samples consisting of a tumor sample, tissue, histological slides, frozen core biopsies, paraffin embedded tissues, formalin fixed tissues, biopsies, blood, plasma, urine, and saliva.

135. The method of claim 128, wherein the presence of the genes listed in Table B, Table C, Table AT, Table AU, Table AV, or combination thereof, is an indication that the subject is likely to be afflicted with BRCA.

136. The method of claim 128, wherein the presence of the genes listed in Table H, Table I, Table AAB, Table AAC, Table AAD, or combination thereof, is an indication that the subject is likely to be afflicted with LUAD or LUSC.

137. The method of claim 128, wherein the presence of the genes listed in Table J, Table K, Table AAF, Table AAG, Table AAH, or combination thereof, is an indication that the subject is likely to be afflicted with Luminal A or Luminal B.

138. The method of claim 128, wherein the presence of the genes listed in Table D, Table E, Table AX, Table AY, Table AZ, Table AAA, or combination thereof, is an indication that the subject is likely to be afflicted with ER positive or ER negative.

139. The method of claim 128, wherein the presence of the genes listed in Table F, Table G, Table AP, Table AQ, Table AR, Table AS, or combination thereof, is an indication that the subject is likely to be afflicted with KIRP or KIRC.

140. The method of claim 128, wherein the presence of the genes listed in Table L, Table M, Table AAJ, Table AAK, or combination thereof, is an indication that the subject is likely to be afflicted with cancer.

141. The method of claim 128, wherein the presence of the genes listed in Table N, Table O, Table AAL, AAM, AAN, AAO, or combination thereof, is an indication that the subject is likely to not be afflicted with cancer, or likely to survive cancer.

142. A method of prognosing cancer in a subject, the method comprising:

(a) determining in a first biological sample from the subject at a first point in time the expression levels of a plurality of genes listed in Table B, Table C, Table D, Table E, Table F, Table G, Table H, Table I, Table J, Table K, Table L, Table M, Table N, Table O, Table AP, Table AQ, Table AR, Table AS, Table AT, Table AU, Table AV, Table AX, Table AY, Table AZ, Table AAA, Table AAB, Table AAC, Table AAD, Table AAF, Table AAG, Table AAH,

Table AAJ, Table AAK, Table AAL, Table AAM, Table AAN, or Table AAO according to the method of claim 37;

(b) repeating step a) during at least one subsequent point in time after administration of a therapeutic agent or drug defined in Table R, Table S, Table AE, Table AF, Table P, Table Q, Table AC, Table AD, Table T, Table U, Table AG, Table AH, Table V, Table W, Table AI, Table AJ, Table X, Table Y, Table AK, Table AL, Table Z, Table AM, Table AA, Table AB, Table AN, or Table AO; and

(c) comparing the expression detected in steps a) and b), wherein the presence or absence of a plurality of genes listed in Table B, Table C, Table D, Table E, Table F, Table G, Table H, Table I, Table J, Table K, Table L, Table M, Table N, Table O, Table AP, Table AQ, Table AR, Table AS, Table AT, Table AU, Table AV, Table AX, Table AY, Table AZ, Table AAA, Table AAB, Table AAC, Table AAD, Table AAF, Table AAG, Table AAH, Table AAJ, Table AAK, Table AAL, Table AAM, Table AAN, or Table AAO in the first biological sample, relative to at least one subsequent biological sample, indicates that the cancer is unlikely to progress, or that the therapeutic agent or drug treats the cancer in the subject.

143. The method of claim 142, wherein the expression levels comprises genomic DNA levels, cDNA levels, RNA levels, methylation levels, phosphorylation levels, or protein expression levels.

144. The method of claim 142, wherein expression levels of the plurality of genes are determined by a method selected from the group of methods consisting of immunohistochemistry, nucleic acid hybridization, and quantitative RT-PCR.

145. The method of claim 142, wherein the subject is a human subject.

146. The method of claim 142, wherein between the first point in time and the subsequent point in time, the subject has undergone treatment, completed treatment, and/or is in remission for the cancer.

147. The method of claim 142, wherein the biological sample is selected from the group of samples consisting of a tumor sample, tissue, histological slides, frozen core biopsies, paraffin embedded tissues, formalin fixed tissues, biopsies, blood, plasma, urine, and saliva.

148. The method of claim 142, wherein the absence of the genes listed in Table B, Table C, Table AT, Table AU, Table AV, or combinations thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats BRCA in the subject.

149. The method of claim 142, wherein the absence of the genes listed in Table H, Table I, Table AAB, Table AAC, Table AAD, or combinations thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats LUAD or LUSC in the subject.

150. The method of claim 142, wherein the absence of the genes listed in Table J, Table K, Table AAF, Table AAG, Table AAH, or combinations thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats Luminal A or Luminal B in the subject.

151. The method of claim 142, wherein the absence of the genes listed in Table D, Table E, Table AX, Table AY, Table AZ, Table AAA, or combinations thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats ER positive or ER negative in the subject.

152. The method of claim 142, wherein the absence of the genes listed in Table F, Table G, Table AP, Table AQ, Table AR, Table AS, or combinations thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats KIRP or KIRC in the subject.

153. The method of claim 142, wherein the absence of the genes listed in Table L, Table M, Table AAJ, Table AAK, or combinations thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats cancer in the subject.

154. The method of claim 142, wherein the presence of the genes listed in Table N, Table O, Table AAL, AAM, AAN, AAO, or combinations thereof, is an indication that the subject is likely to progress, or that the therapeutic agent or drug treats cancer in the subject.

155. A method of treating cancer in a subject, the method comprising the steps of:

(a) determining whether the subject has cancer according to the method of claim 95; and

(b) administering at least one therapeutic agent or drug defined in Table P, Table Q, Table R, Table S, Table T, Table U, Table V, Table W, Table X, Table Y, Table Z, Table AA,

Table AB, Table AC, Table AD, Table AE, Table AF, Table AG, Table AH, Table AI, Table AJ, Table AK, Table AL, Table AM, Table AN, Table AO, or combinations thereof.

156. The method of claim 155, wherein the cancer is ER positive or ER negative, and wherein the therapeutic agent or treatment is defined in Table R, Table S, Table AE, Table AF, or combinations thereof.

157. The method of claim 155, wherein the cancer is BRCA, and wherein the therapeutic agent or treatment is defined in Table P, Table Q, Table AC, Table AD, or combinations thereof.

158. The method of claim 155, wherein the cancer is KIRP or KIRC, and wherein the therapeutic agent or treatment is defined in Table T, Table U, Table AG, Table AH, or combinations thereof.

159. The method of claim 155, wherein the cancer is LUAD or LUSC, and wherein the therapeutic agent or treatment is defined in Table V, Table W, Table AI, Table AJ, or combinations thereof.

160. The method of claim 155, wherein the cancer is Luminal A or Luminal B, and wherein the therapeutic agent or treatment is defined in Table X, Table Y, Table AK, Table AL, or combinations thereof.

161. The method of claim 155, wherein the subject is administered at least one therapeutic agent or drug defined in Table Z, Table AM, or combinations thereof.

162. The method of claim 155, wherein the subject is administered at least one therapeutic agent or drug defined in Table AA, Table AB, Table AN, or Table AO, or combinations thereof.

163. The method of claim 155, further comprising a therapeutic treatment selected from the group consisting of chemotherapy, radiation therapy, or surgical removal of tumor.

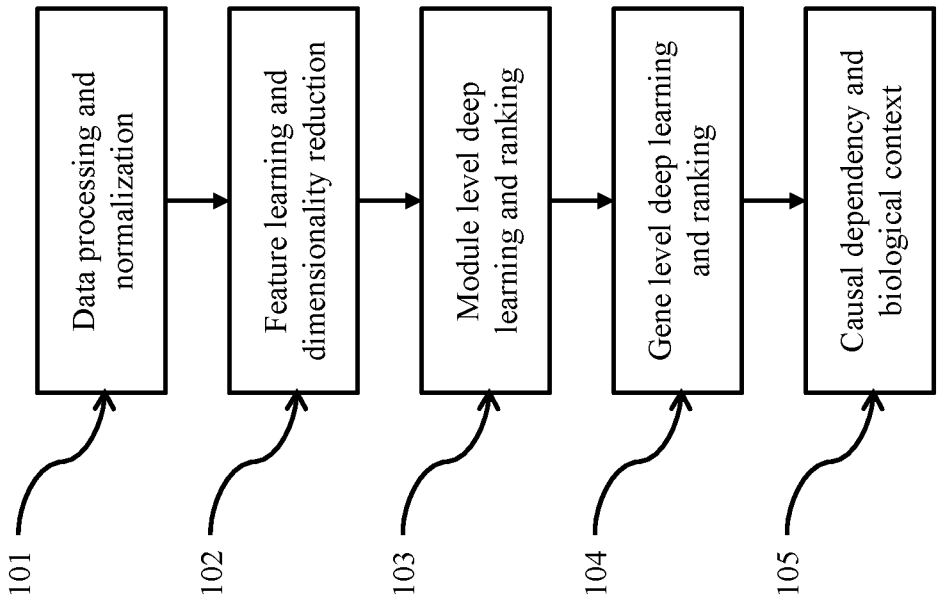

Data processing and normalization
Feature learning and dimensionality reduction
Module level deep learning and ranking
Gene level deep learning and ranking
Causal dependency and biological context
101
102
103
104
105

FIG. 1

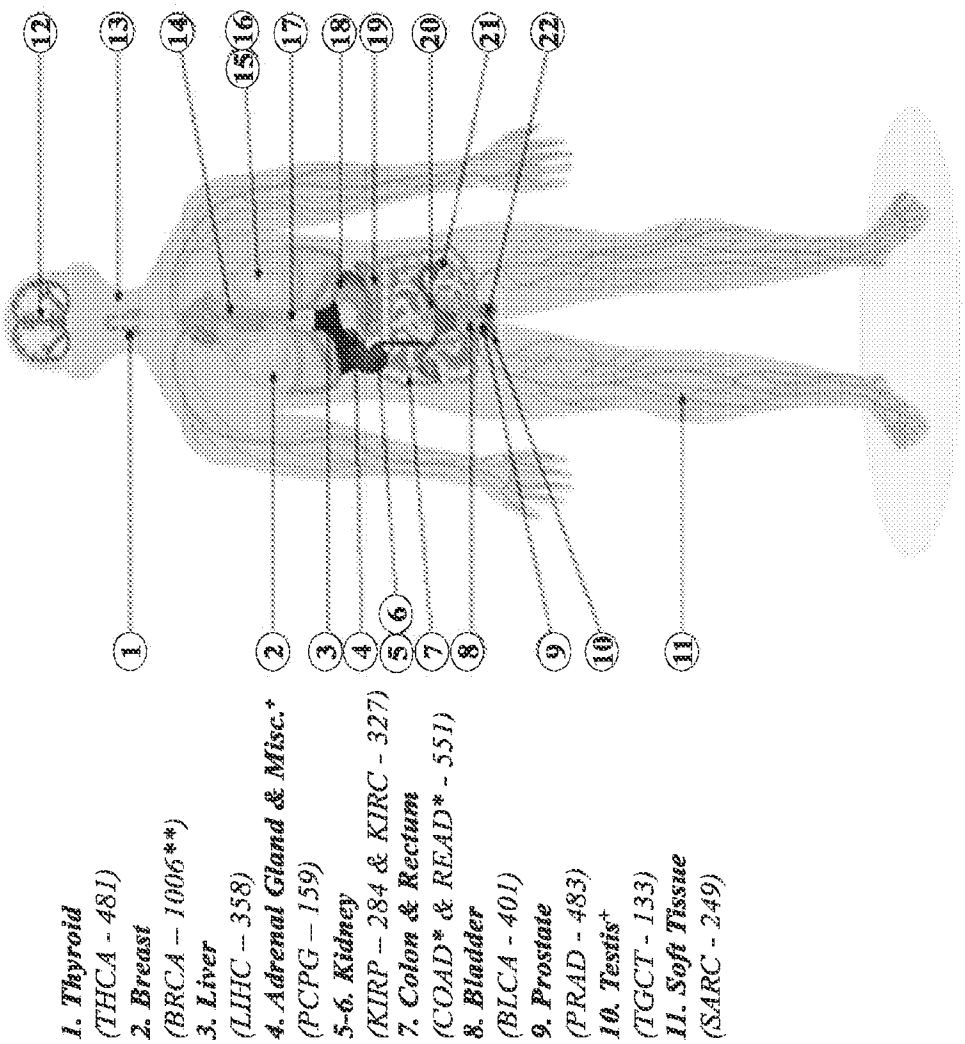

1. Thyroid (THCA - 481)
2. Breast (BRCA – 1006**)
3. Liver (LIHC – 358)
4. Adrenal Gland & Misc.+ (PCPG – 159)
5-6. Kidney (KIRP – 284 & KIRC - 327)
7. Colon & Rectum (COAD* & READ* - 551)
8. Bladder (BLCA - 401)
9. Prostate (PRAD - 483)
10. Testis+ (TGCT - 133)
11. Soft Tissue (SARC - 249)
12. Brain (LGG - 499)
13. Head & Neck (HNSC - 480)
14. Thymus (THYM - 118)
15-16. Lung (LUAD – 500 & LUSC - 462)
17. Esophagus (ESCA - 160)
18. Stomach (STAD - 369)
19. Pancreas (PAAD - 172)
20. Uterus (UCEC - 523)
21. Ovaries (OV - 265)
22. Cervix (CESC - 292)

FIG. 2

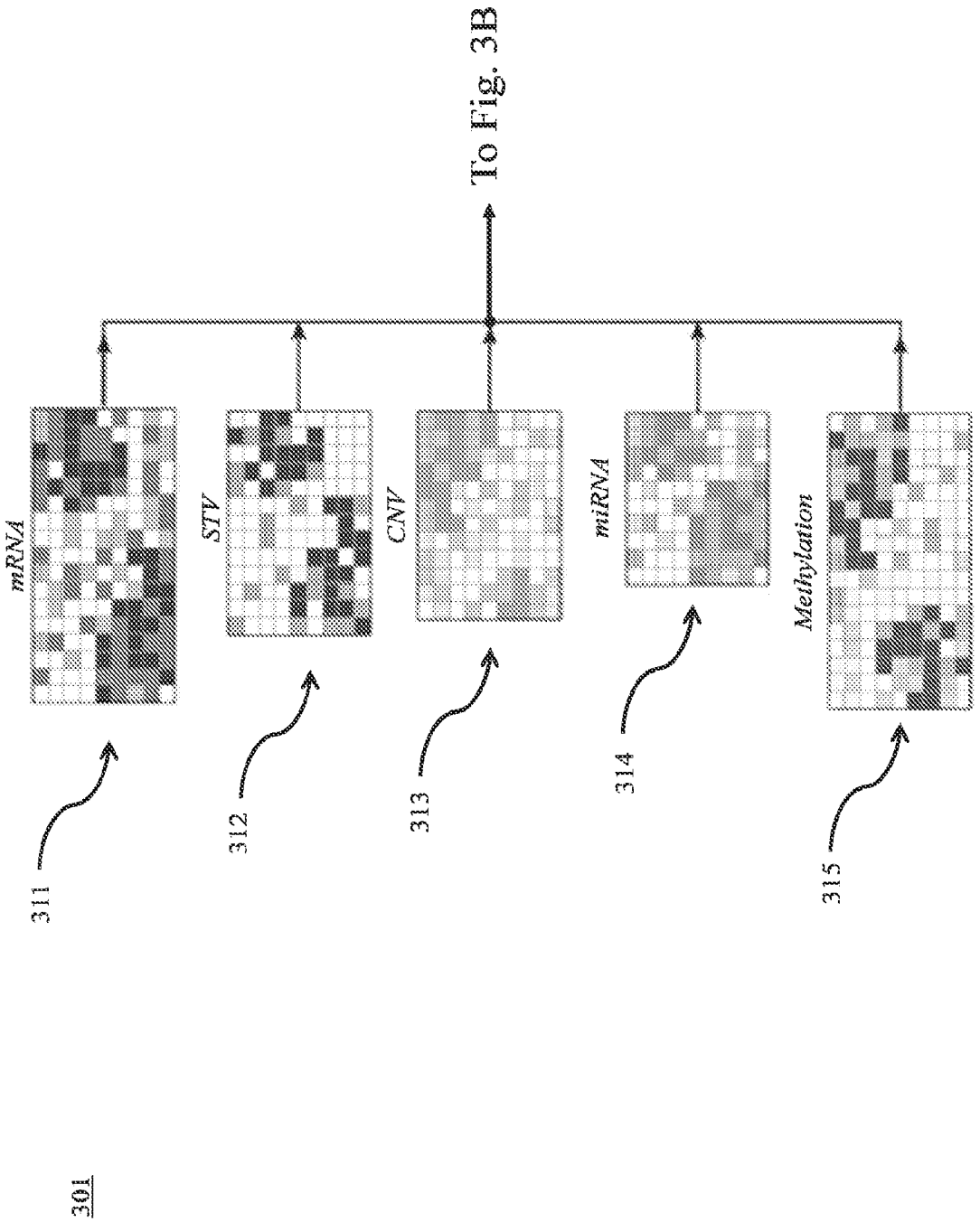

To Fig. 3B
mRNA
STV
CNV
miRNA
Methylation
311
312
313
314
315
301

FIG. 3A

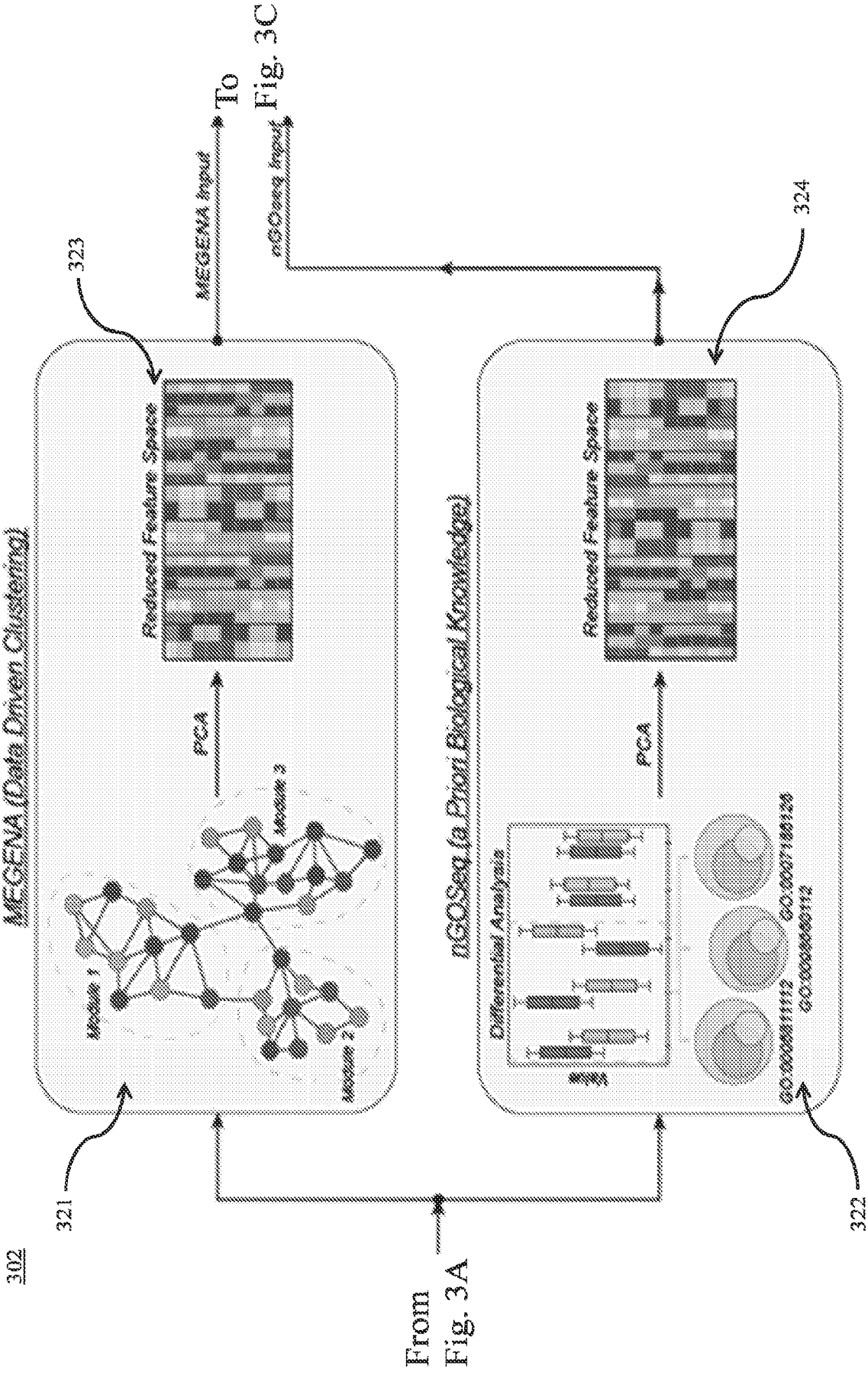

302
MEGENA (Data Driven Clustering)
nGOSeq (a Prior Biological Knowledge)
321
322
323
324
MEGENA Input
nGOseq Input
To Fig. 3C
From Fig. 3A
Reduced Feature Space
PCA
Module 1
Module 2
Module 3
Differential Analysis
GO:0008111112
GO:0008111113
GO:0008111114

FIG. 3B

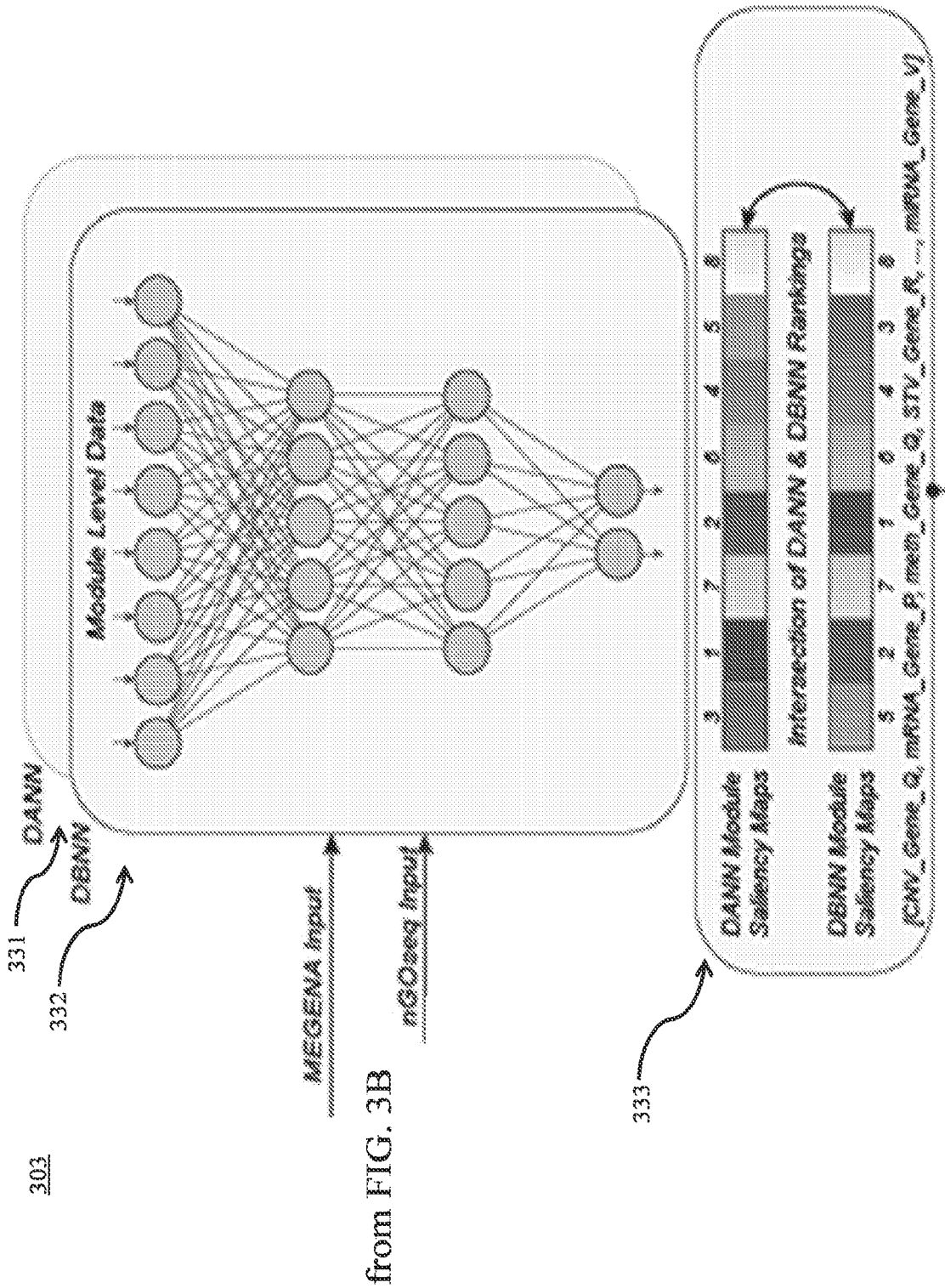

303
331
DAMN
332
DBMN
Module Level Data
MEGENA Input
nGOseq Input
from FIG. 3B
333
DAMN Module Saliency Maps
Interaction of DAMN & DBMN Rankings
DBMN Module Saliency Maps
fCNV_Gene_0, mRNA_Gene_0, meth_Gene_0, STV_Gene_R, ..., mRNA_Gene_V)
To FIG. 3D

FIG. 3C

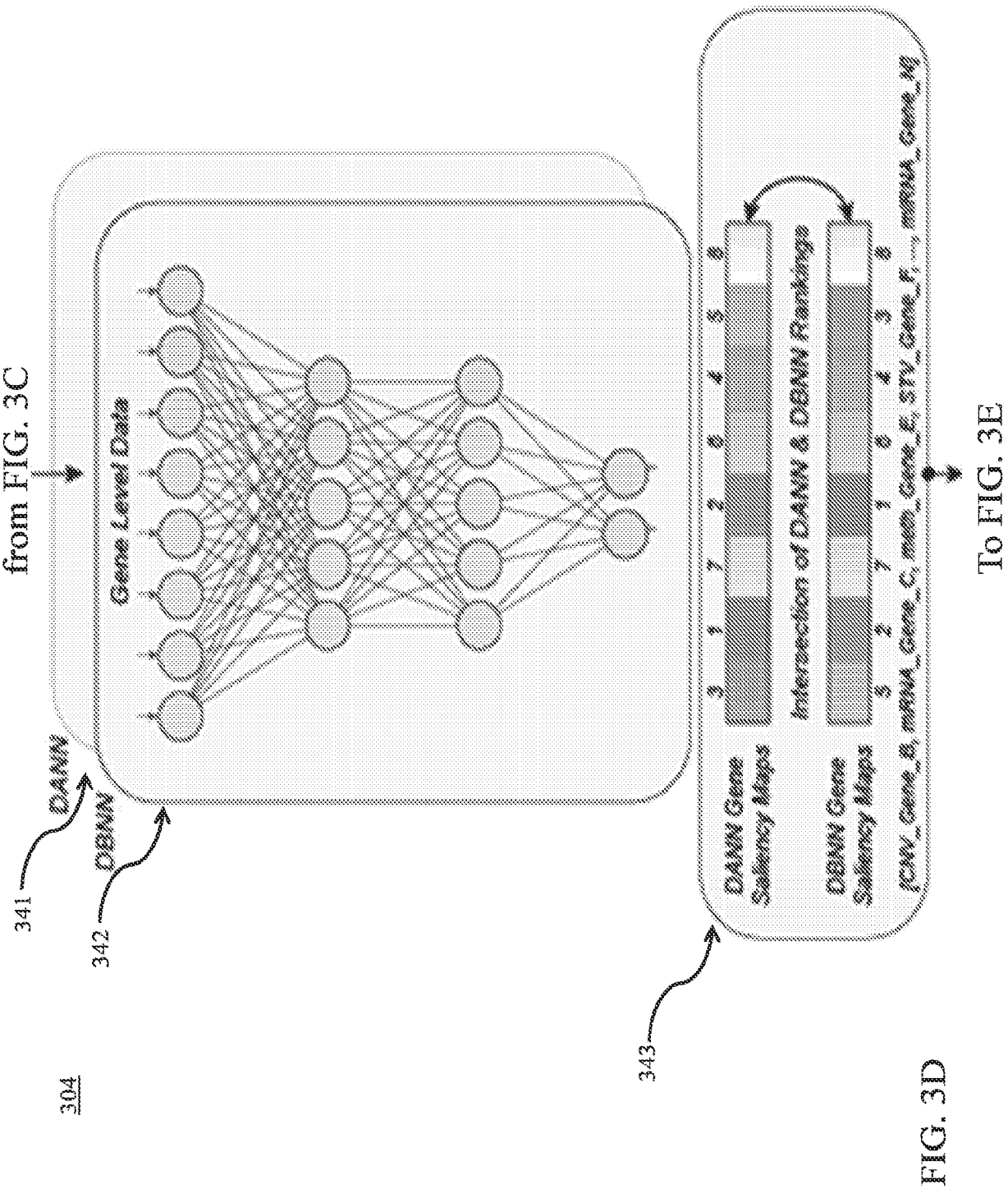

from FIG. 3C
DANN
DBNN
Gene Level Data
341
342
343
304
DANN Gene Saliency Maps
DBNN Gene Saliency Maps
Intersection of DANN & DBNN Rankings
To FIG. 3E

FIG. 3D

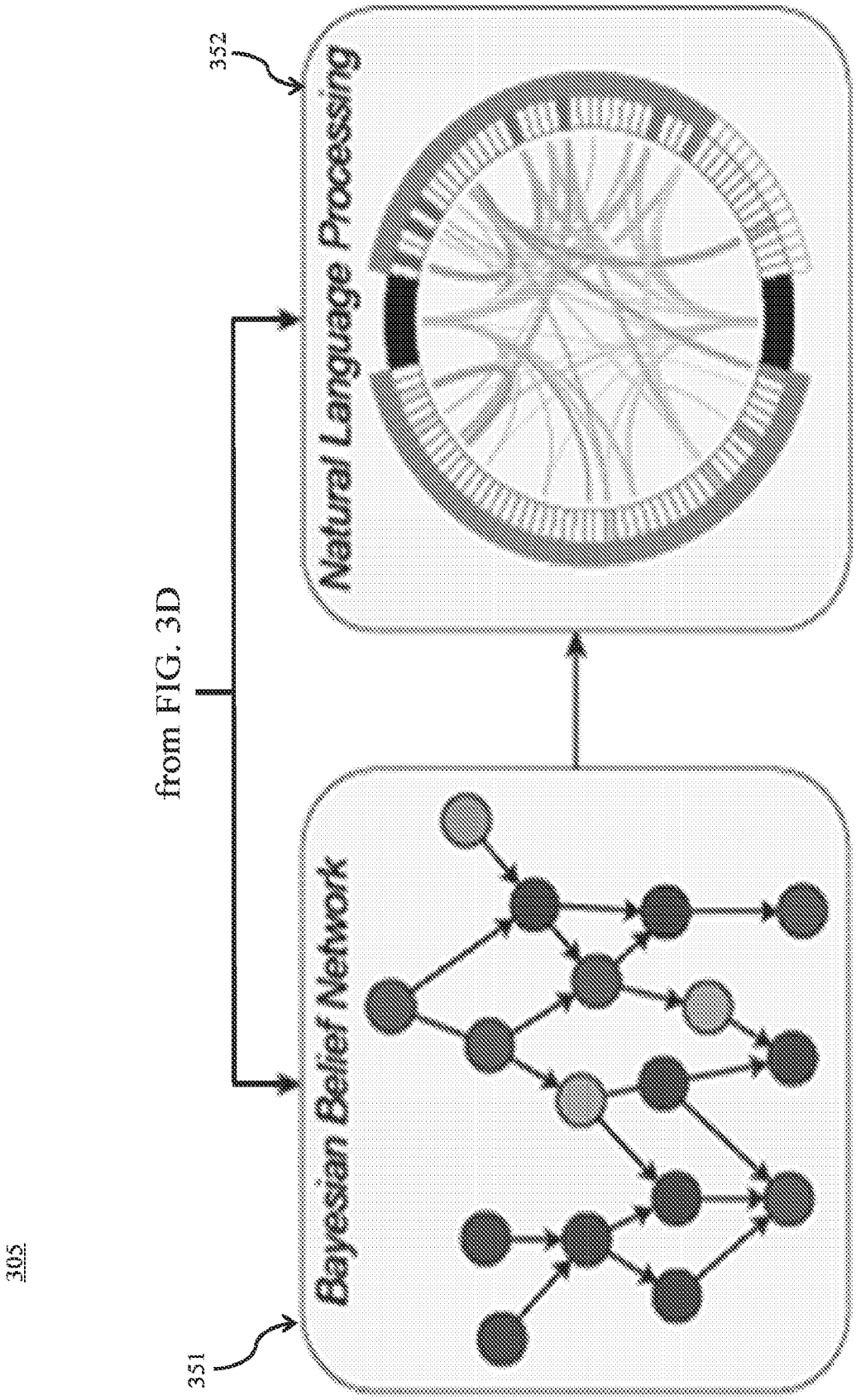

305
351
Bayesian Belief Network
352
Natural Language Processing
from FIG. 3D

FIG. 3E

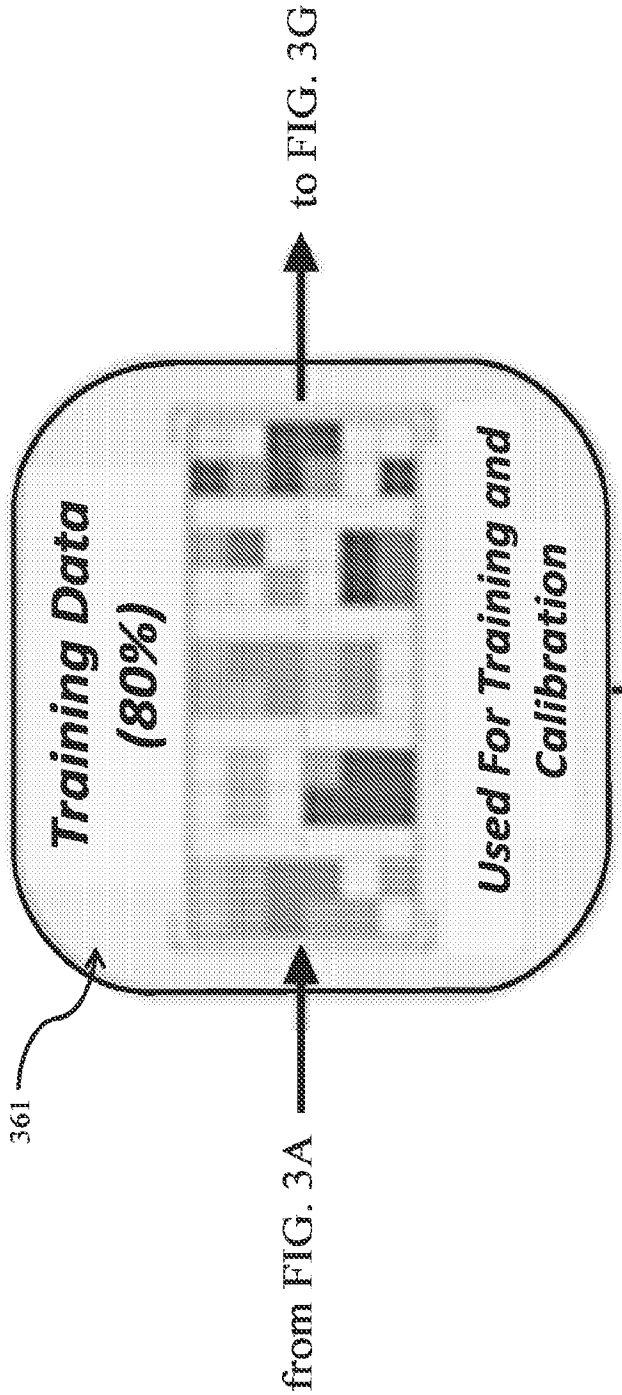

to FIG. 3G
Training Data
(80%)
Used For Training and
Calibration
to FIG. 3I
361
from FIG. 3A

FIG. 3F

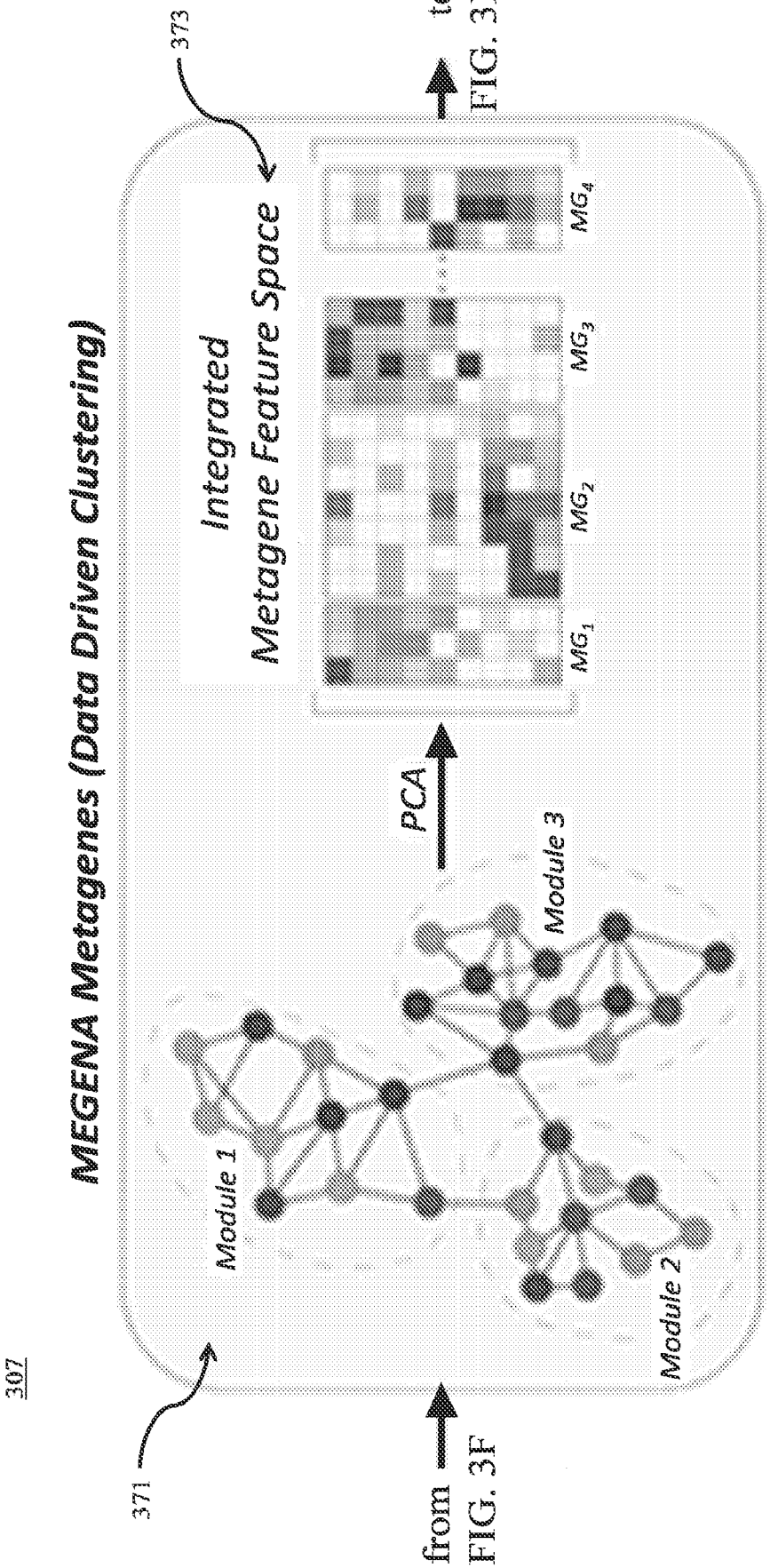

307
371
373
from FIG. 3F
to FIG. 3H
MEGENA Metagenes (Data Driven Clustering)
Module 1
Module 2
Module 3
PCA
Integrated Metagene Feature Space
MG_1
MG_2
MG_3
MG_4

FIG. 3G

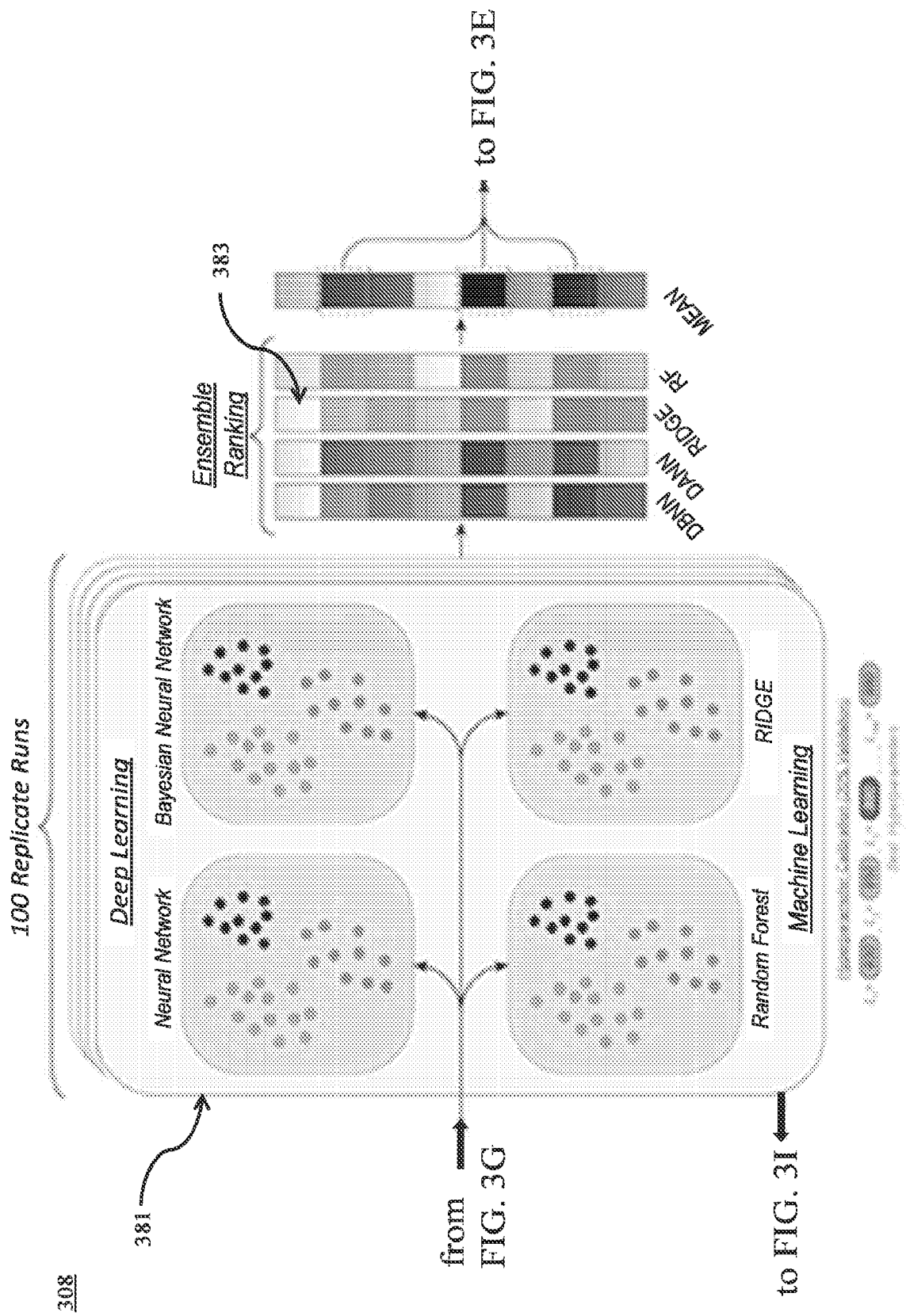

to FIG. 3E
383
Ensemble Ranking
MEAN
RF
RIDGE
DANN
DBNN
100 Replicate Runs
Deep Learning
Neural Network
Bayesian Neural Network
Machine Learning
Random Forest
RIDGE
381
308
from FIG. 3G
to FIG. 3I

FIG. 3H

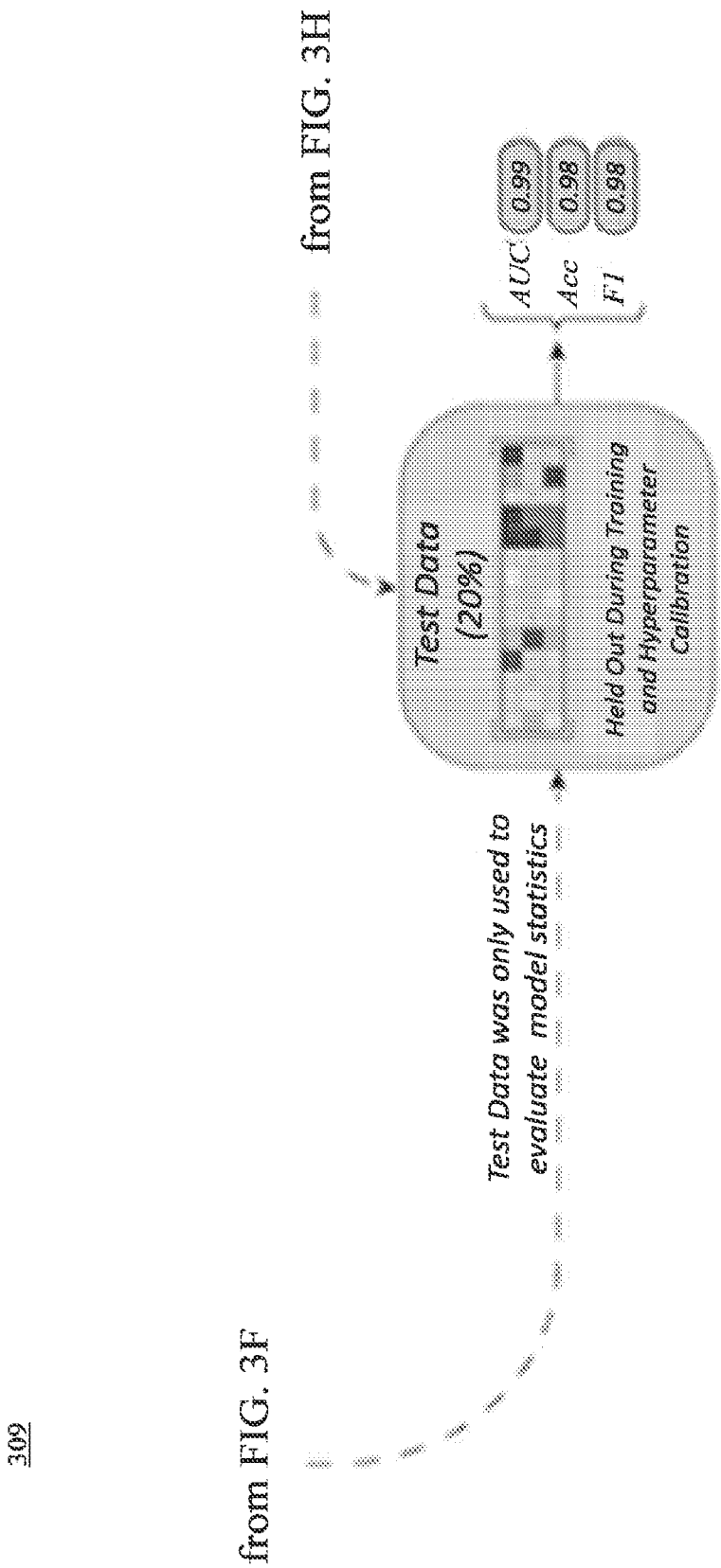

309
from FIG. 3F
from FIG. 3H
Test Data was only used to evaluate model statistics
Test Data (20%)
Held Out During Training and Hyperparameter Calibration
AUC
Acc
F1
0.99
0.98
0.98

FIG. 3I

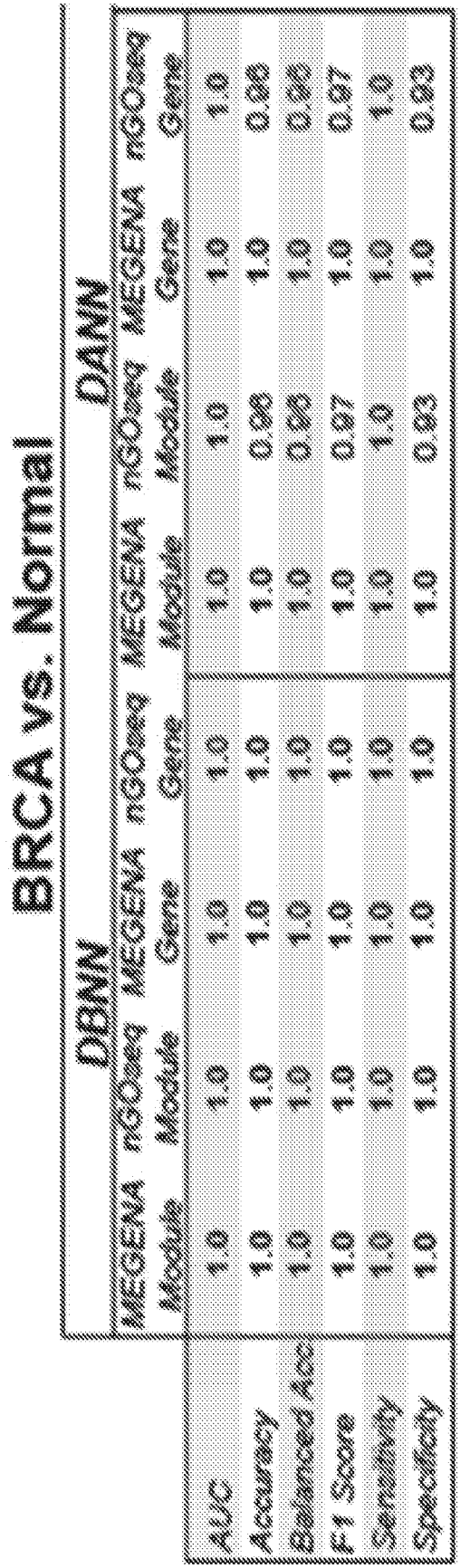

BRCA vs. Normal
DBNN
MEGENA
mGOseq
MEGENA
mGOseq
Module
Module
Gene
Gene
AUC 1.0 1.0 1.0 1.0
Accuracy 1.0 1.0 1.0 1.0
Balanced Acc 1.0 1.0 1.0 1.0
F1 Score 1.0 1.0 1.0 1.0
Sensitivity 1.0 1.0 1.0 1.0
Specificity 1.0 1.0 1.0 1.0
DAWN
MEGENA
mGOseq
MEGENA
mGOseq
Module
Module
Gene
Gene
AUC 1.0 1.0 1.0 1.0
Accuracy 0.99 1.0 0.96
Balanced Acc 0.95 1.0 0.96
F1 Score 0.97 1.0 0.97
Sensitivity 1.0 1.0 1.0
Specificity 0.93 1.0 0.93

FIG. 4A

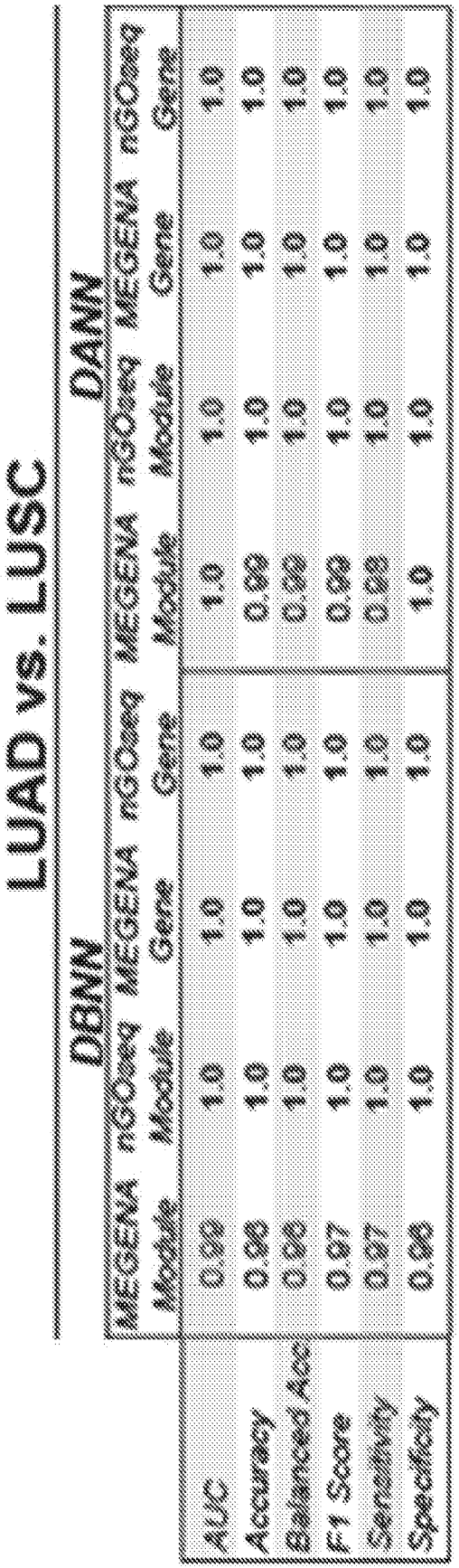

LUAD vs. LUSC
DBNN
DANN
MEGENA Module
nGOseq Module
MEGENA Gene
nGOseq Gene
AUC 0.99 1.0 1.0 1.0 1.0 1.0 1.0 1.0
Accuracy 0.98 1.0 1.0 1.0 0.99 1.0 1.0 1.0
Balanced Acc 0.98 1.0 1.0 1.0 0.99 1.0 1.0 1.0
F1 Score 0.97 1.0 1.0 1.0 0.99 1.0 1.0 1.0
Sensitivity 0.97 1.0 1.0 1.0 0.99 1.0 1.0 1.0
Specificity 0.98 1.0 1.0 1.0 1.0 1.0 1.0 1.0

FIG. 4A (cont.)

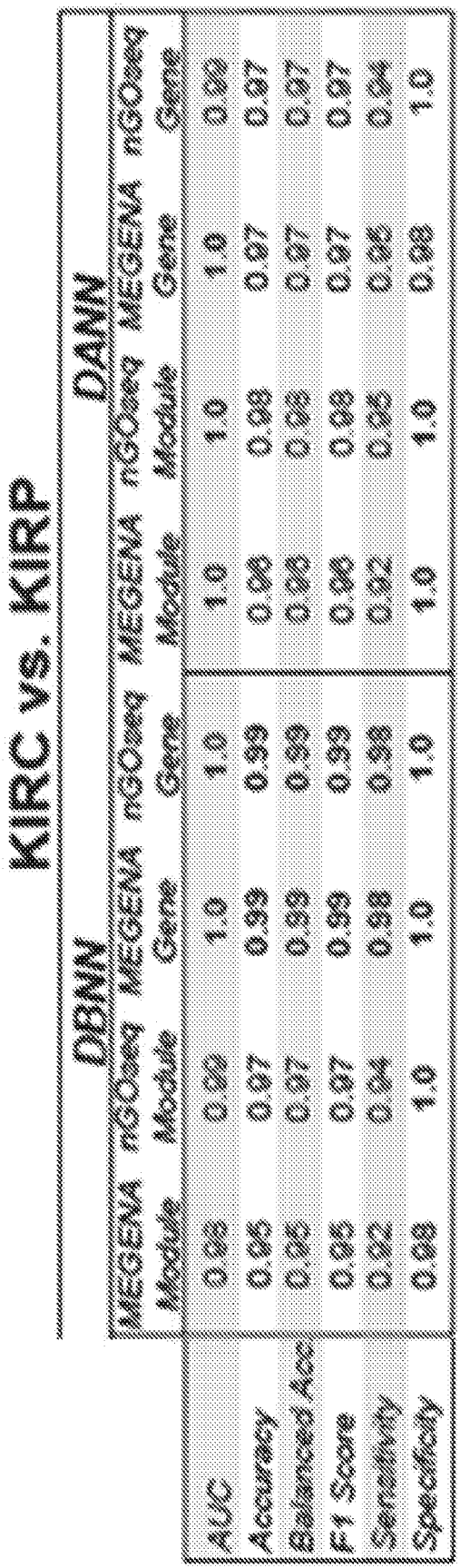

KIRC vs. KIRP
DBNN
DANN
MEGENA
mGOseq
Module
Gene
AUC
Accuracy
Balanced Acc
F1 Score
Sensitivity
Specificity
0.08
0.07
0.99
1.0
0.04
0.02

FIG. 4A (cont.)

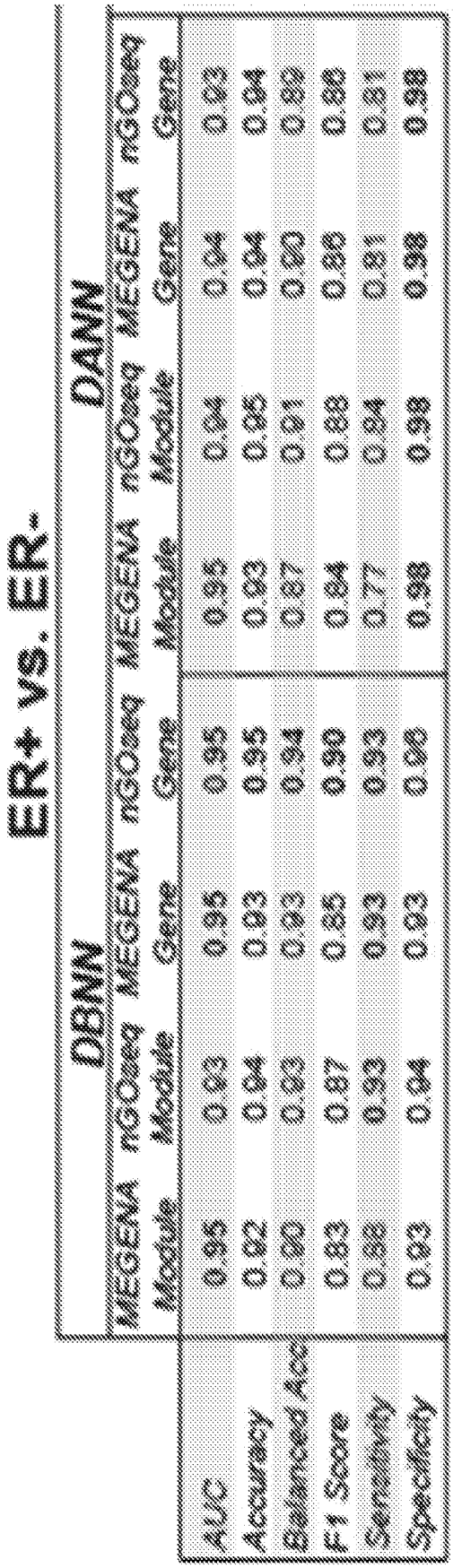

ER+ vs. ER-
DBNN
DANN
MEGENA Module
nGOseq Module
MEGENA Gene
nGOseq Gene
AUC 0.95 0.93 0.95 0.95 0.95 0.94 0.94 0.93
Accuracy 0.92 0.84 0.93 0.95 0.93 0.85 0.94 0.94
Balanced Acc 0.90 0.83 0.93 0.94 0.87 0.91 0.90 0.89
F1 Score 0.83 0.87 0.85 0.90 0.84 0.88 0.86 0.88
Sensitivity 0.88 0.93 0.93 0.93 0.77 0.84 0.81 0.81
Specificity 0.93 0.84 0.93 0.96 0.98 0.98 0.98 0.98

FIG. 4A (cont.)

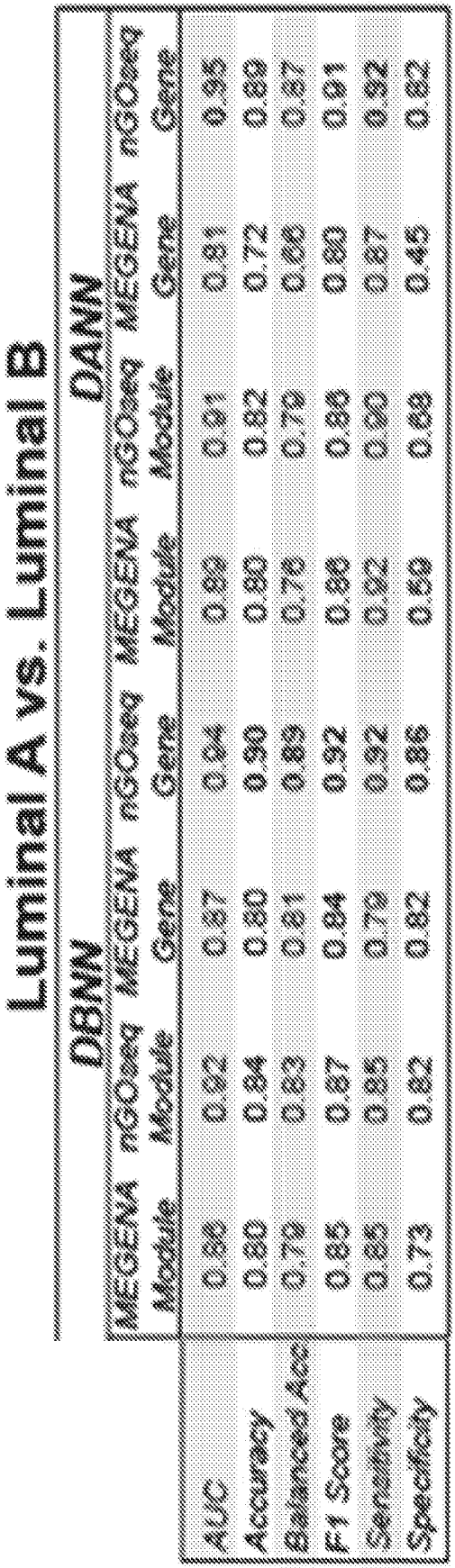

Luminal A vs. Luminal B
DBNN
DANN
MEGENA Module
nGOseq Module
MEGENA Gene
nGOseq Gene
AUC 0.60 0.82 0.67 0.84 0.60 0.81 0.61 0.95
Accuracy 0.60 0.84 0.60 0.90 0.80 0.82 0.72 0.89
Balanced Acc 0.79 0.83 0.61 0.89 0.76 0.79 0.66 0.87
F1 Score 0.85 0.87 0.84 0.92 0.86 0.86 0.80 0.91
Sensitivity 0.85 0.86 0.79 0.92 0.92 0.90 0.87 0.92
Specificity 0.73 0.82 0.82 0.86 0.69 0.69 0.45 0.82

FIG. 4A (cont.)

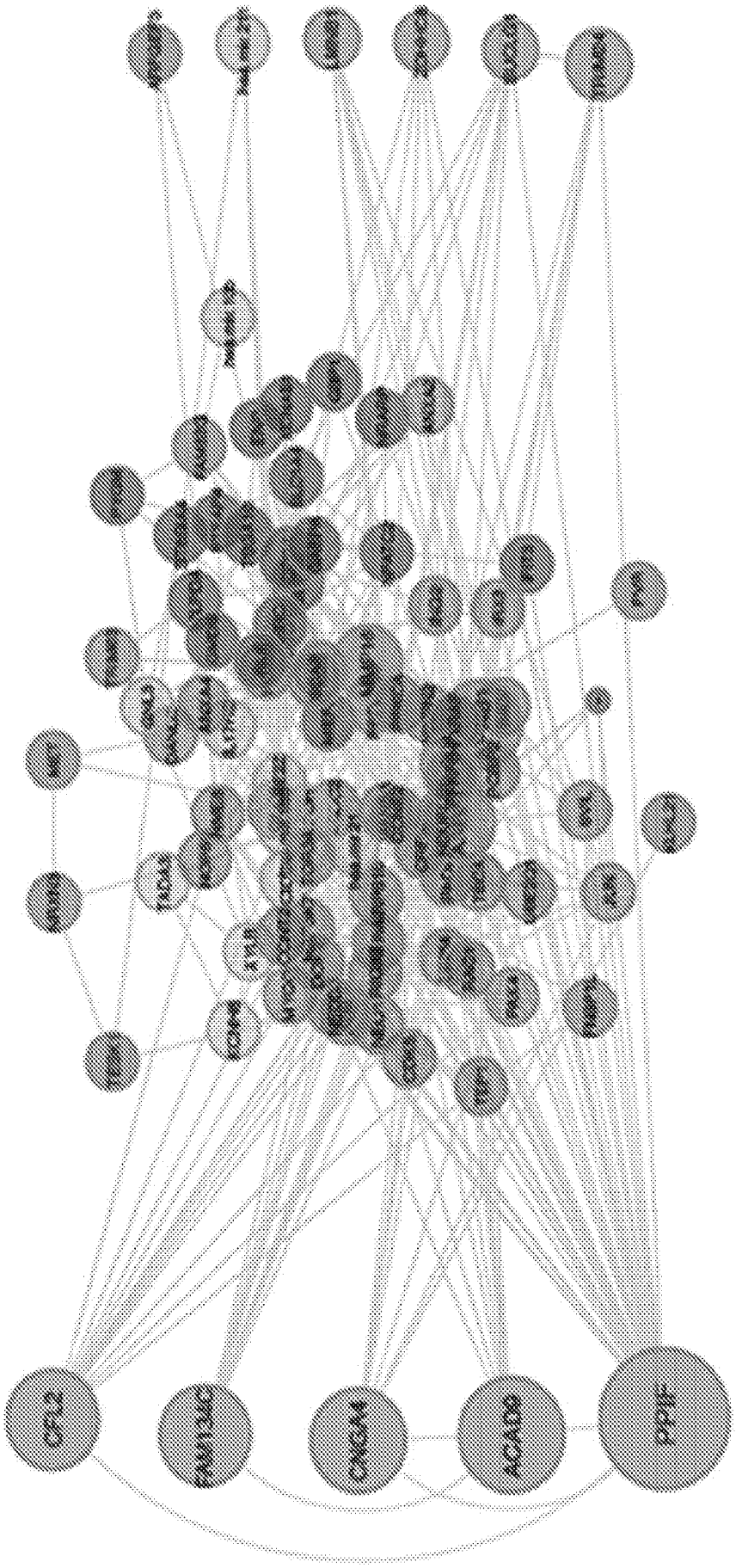


FIG. 4B

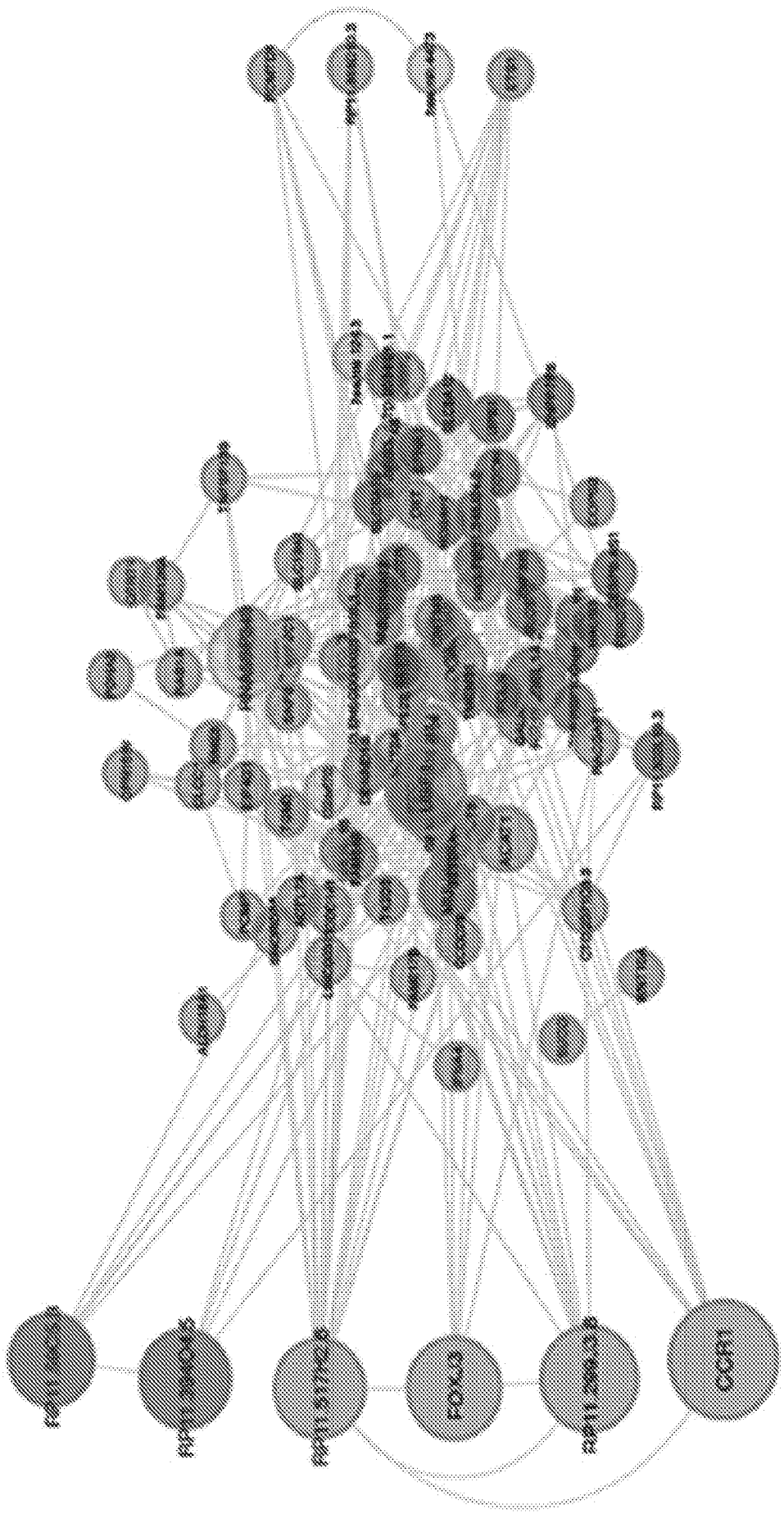


FIG. 4C

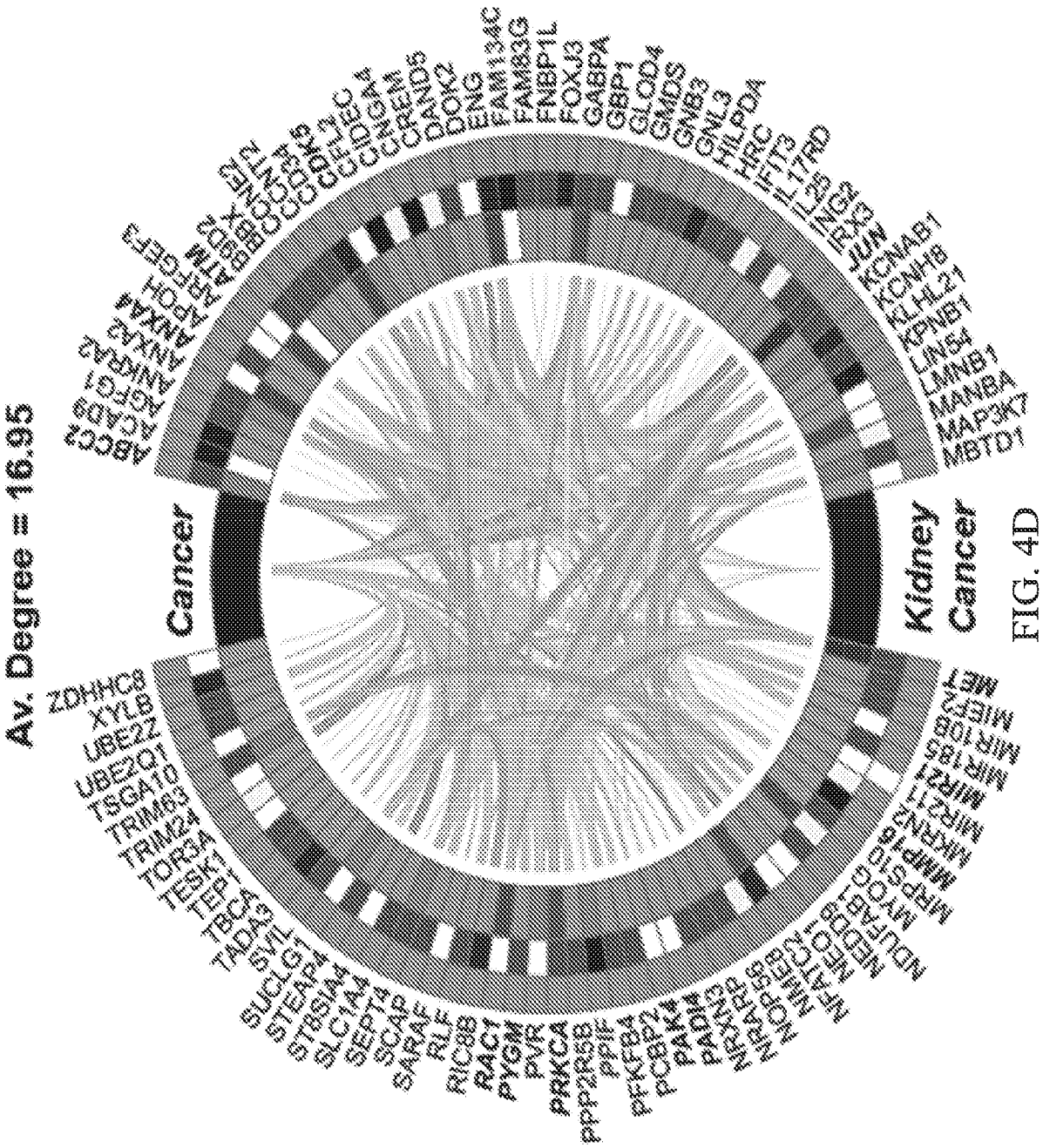

Av. Degree = 16.95
Cancer
Kidney Cancer
ZDHHC8
XYLB
UBE2Z
UBE2Q1
TSGA10
TRIM63
TRIM24
TOR3A
TESK1
TEP1
TBCA
TADA3
SUCLG1
SVIL
STEAP4
ST6GAL1
SLC1A4
SEPT4
SCAP
SARAF
RLF
RIC8B
RAC1
PYGM
PVR
PRKCA
PPP2R5B
PPIF
PFKFB4
POBP2A
PAQR4
PAQR3
NRXN3
NRAP
NOP56
NMT1
NFATC3
NEDD4L
NDUFAB1
MYO5C
MRPS10
MMP16
MIR21
MIR7-3HG
MIR7-1
MIR155
MIR150
MIER2
MET
ABCC2
AGFG1
ANKRD12
ANXA5
ARFGEF3
ATM
BCL7C
BCL9
BOC
C1ORF64
CCDC88C
CDH23
CDK2AP2
CDK2
CENPJ
CHD9
CLN3
CNOT9
CSNK2A2
DDX3X
DENND5B
DGKD
DNAJC7
DUSP16
EIF4G2
EMC1
EMG1
FAM134C
FAM83G
FNBP1L
FOXJ3
GABPA
GBP1
GLOD4
GMDS
GNB3
GNL3
HILPDA
HRC
IFIT3
IL17RD
IL32
ING2
IRX3
JUN
KCNAB1
KCNH8
KLHL21
KPNB1
LIN54
LMNB1
MANBA
MAP3K7
MBTD1

FIG. 4D

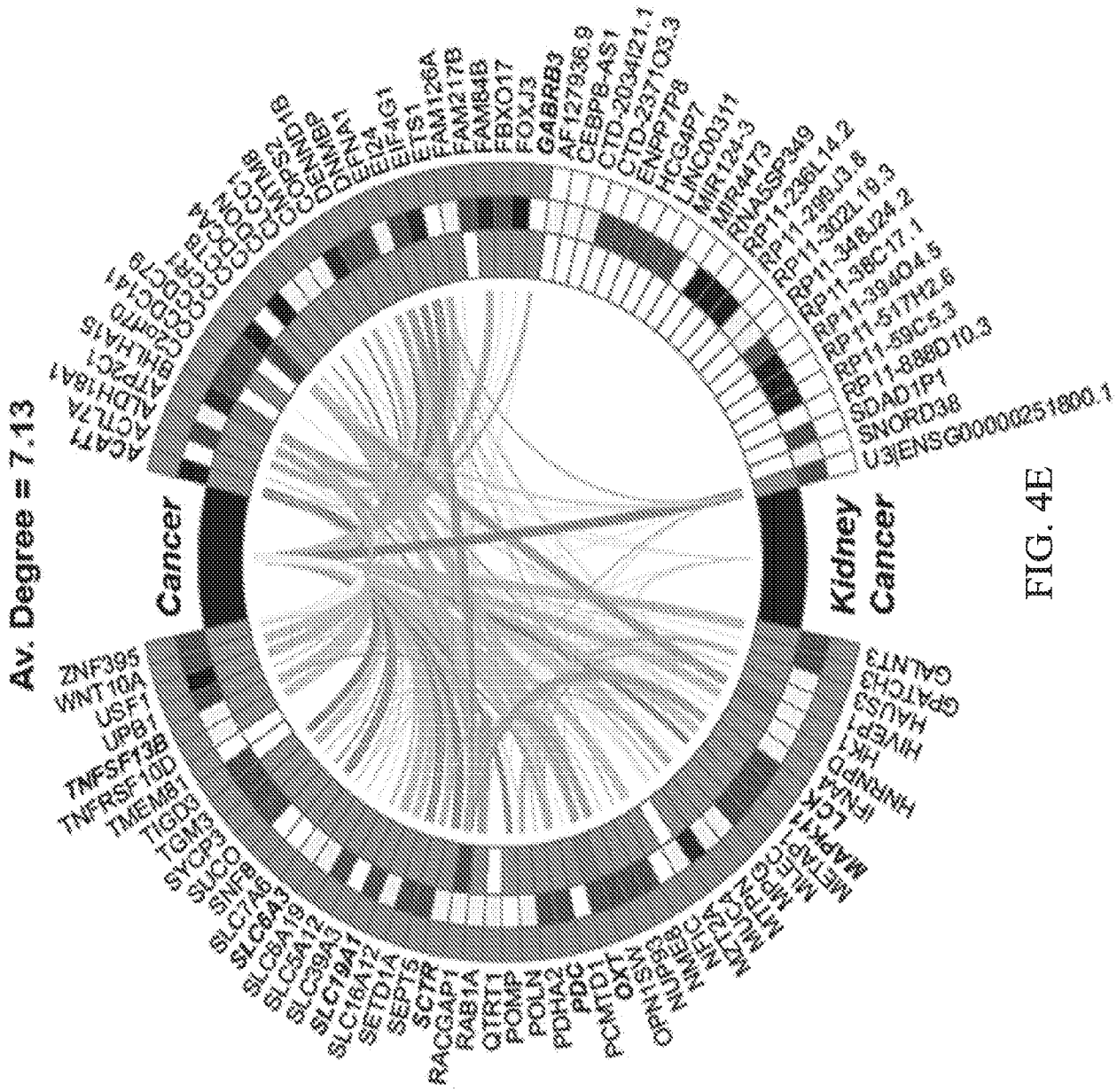

Av. Degree = 7.13
Kidney Cancer
Cancer
U3|ENSG00000251800.1
SNORD38
SDAD1P1
RP11-888D10.3
RP11-59C5.3
RP11-517H2.6
RP11-394O4.5
RP11-38C17.1
RP11-3M6J24.2
RP11-302L19.3
RP11-299J3.8
RP11-236L14.2
RNA5SP349
MIR4473
MIR124-3
LINC00311
HCG4P7
ENPP7P8
CTD-2371O3.3
CTD-2034I21.1
CEBPB-AS1
AF127936.9
GABRB3
FOXJ3
FBXO17
FAM84B
FAM217B
FAM112A
EEF1A1P5
DUSP16
DENND1B
CCDC14
C6orf134
ATP6V1G2-DDX39B
ATP2A2
ARHGAP9
ACSL3
ACOT13
ACAT1
ACADSB
ZNF395
WNT10A
USF1
UPB1
TNFSF13B
TNFRSF10D
TMEM81
TIGD3
TGM3
SYCP3
SUCO
SNF8
SLC7A6
SLC6A3
SLC6A19
SLC6A12
SLC39A3
SLC19A1
SLC16A12
SETD1A
SEPT5
SCTR
RACGAP1
RAB1A
QTRT1
POMP
POLN
POLA2
PDCD1
POMT2
OXT
MSI2
NUSAP1
MMP9
MCM7
MCM2
MAPKAP1
LCK
KIF15
HNRNPH3
HAUS3
HAVCR2
GPATCH3
GALNT3

FIG. 4E

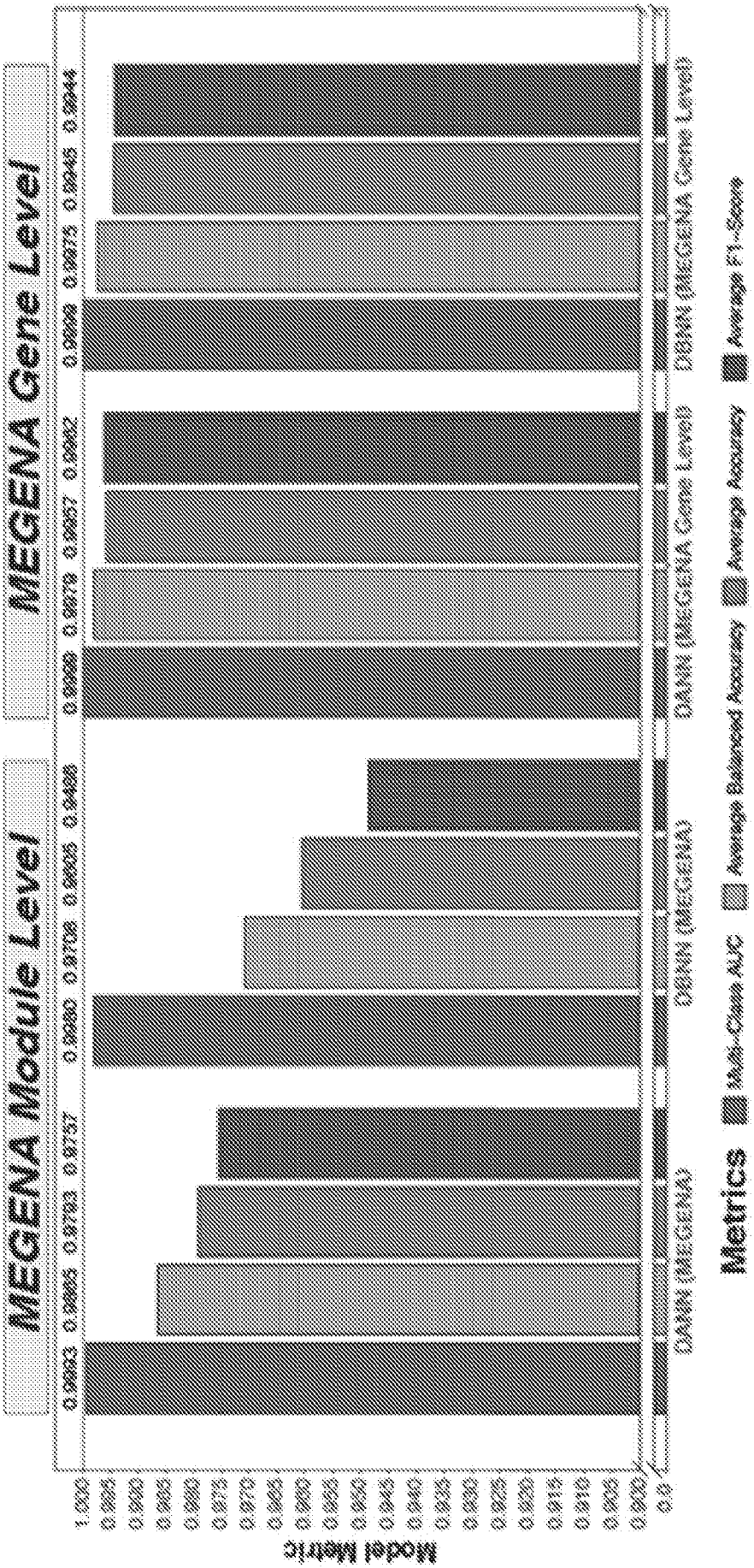

MEGENA Module Level
MEGENA Gene Level
0.9923
0.2885
0.9783
0.9757
0.9880
0.9736
0.9805
0.9408
0.9868
0.9878
0.9937
0.9982
0.9868
0.9875
0.9945
0.9944
DAWN (MEGENA)
DAWN (MEGENA)
DAWN (MEGENA Gene Level)
DAWN (MEGENA Gene Level)
Metrics
Multi-Class AUC
Average Balanced Accuracy
Average Accuracy
Average F1-Score
Model Metric
1.000
0.995
0.990
0.985
0.980
0.975
0.970
0.965
0.960
0.955
0.950
0.945
0.940
0.935
0.930
0.925
0.920
0.915
0.910
0.905
0.900
0.0

FIG. 5A

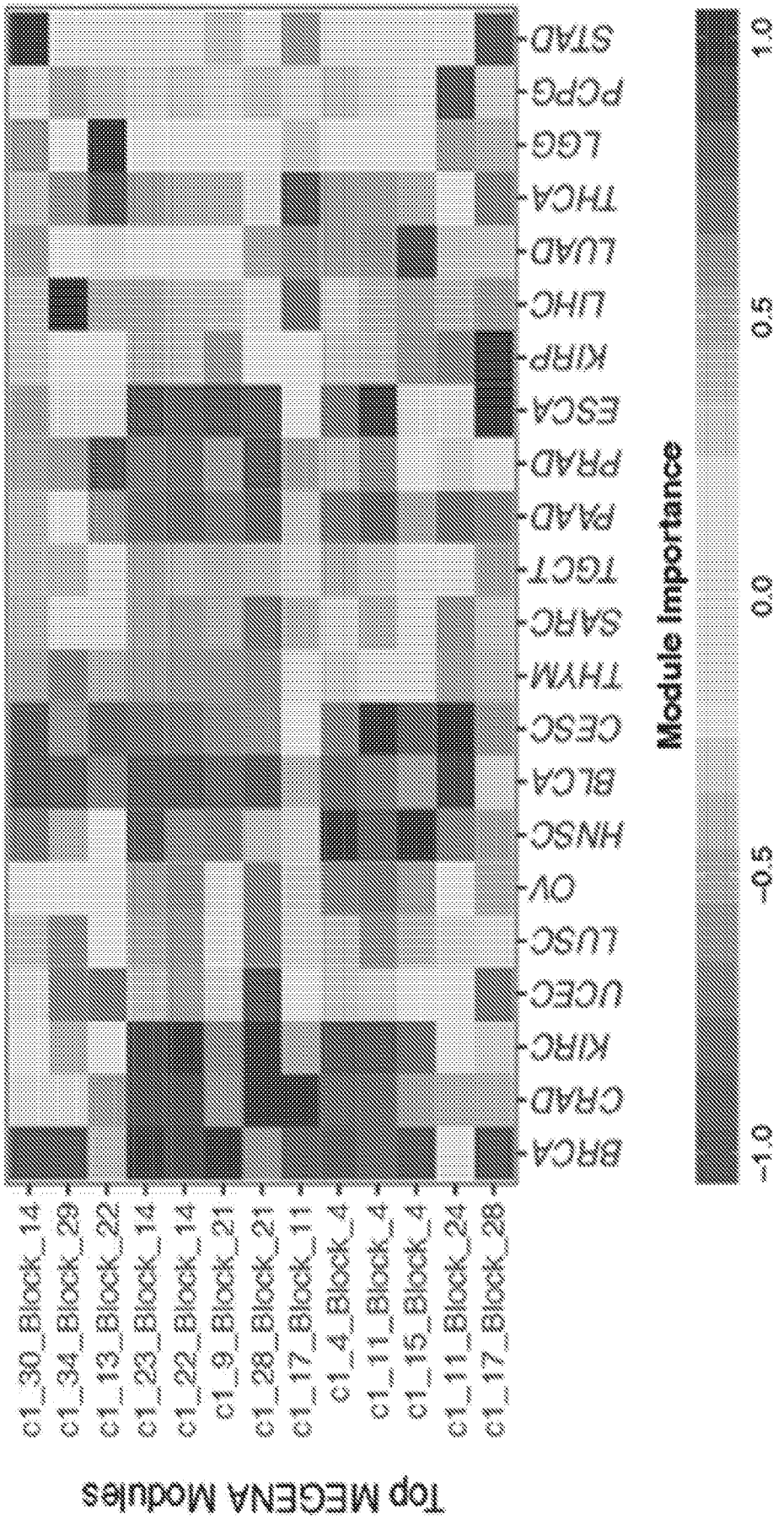

Top MEGENA Modules
c1_30_Block_14
c1_34_Block_29
c1_13_Block_22
c1_23_Block_14
c1_22_Block_14
c1_9_Block_21
c1_29_Block_21
c1_17_Block_11
c1_4_Block_4
c1_11_Block_4
c1_16_Block_4
c1_11_Block_24
c1_17_Block_28
BRCA
CRAD
KIRC
UCEC
LUSC
OV
HNSC
BLCA
CESC
THYM
SARC
TGCT
PAAD
PRAD
ESCA
KIRP
LIHC
LUAD
THCA
LGG
PCPG
STAD
Module Importance
1.0
0.5
0.0
−0.5
−1.0

FIG. 5B

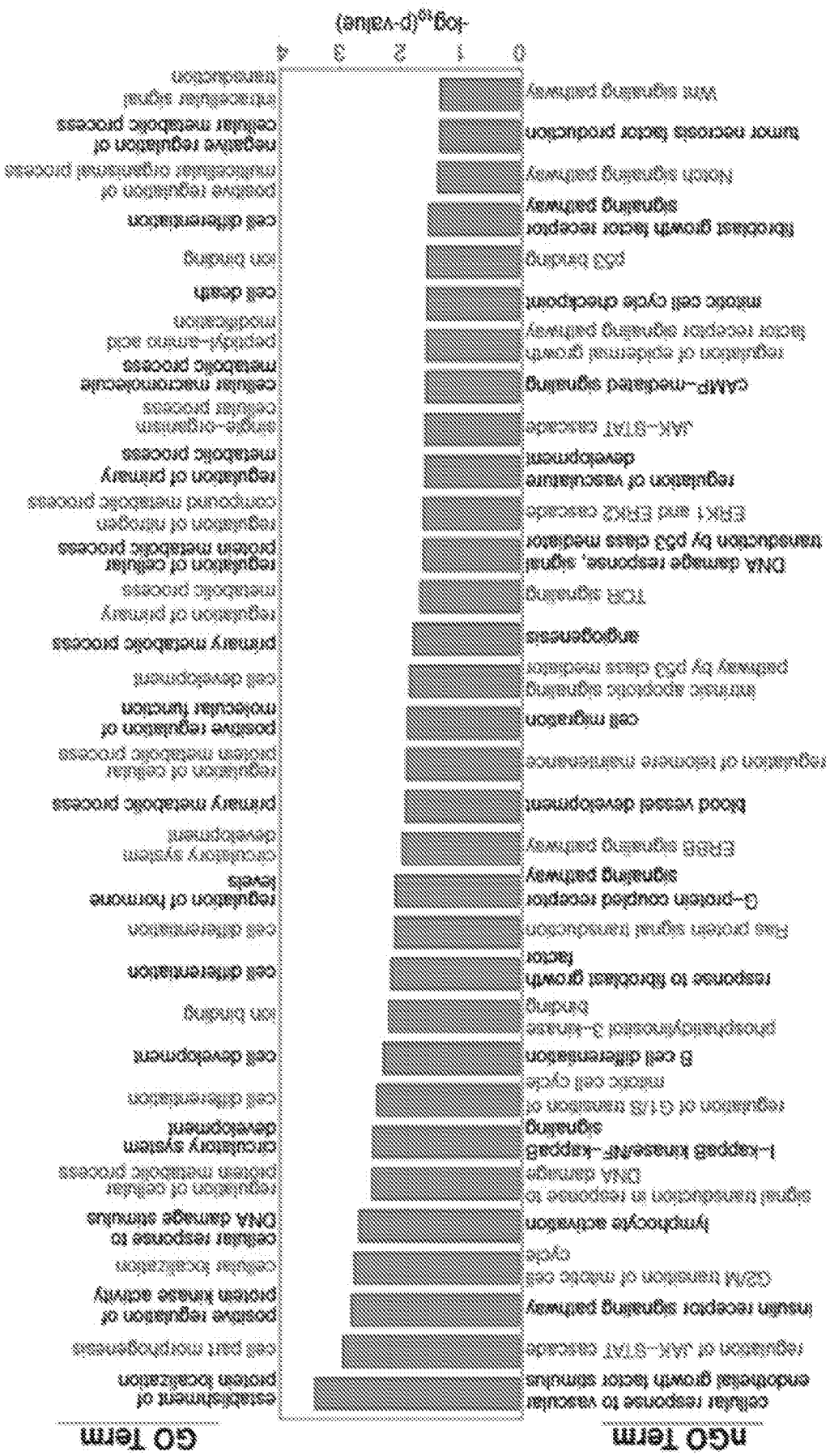

-log10(p-value)
0
1
2
3
4
nGO Term
cellular response to vascular endothelial growth factor stimulus
regulation of JAK–STAT cascade
insulin receptor signaling pathway
G2/M transition of mitotic cell cycle
lymphocyte activation
cellular response to DNA damage stimulus
signal transduction in response to DNA damage
I–kappaB kinase/NF–kappaB signaling
regulation of G1/S transition of mitotic cell cycle
B cell differentiation
phosphatidylinositol 3–kinase binding
response to fibroblast growth factor
fibroblast growth factor receptor signaling pathway
cell differentiation
positive regulation of multicellular organismal process
negative regulation of cellular metabolic process
extracellular signal transduction
Wnt signaling pathway
tumor necrosis factor production
Notch signaling pathway
ion binding
cell death
mitotic cell cycle checkpoint
p53 binding
cell differentiation
ion binding
cellular response to DNA damage stimulus
cellular localization
cell part morphogenesis
regulation of JAK–STAT cascade
insulin receptor signaling pathway
G2/M transition of mitotic cell cycle
lymphocyte activation
signal transduction in response to DNA damage
I–kappaB kinase/NF–kappaB signaling
regulation of G1/S transition of mitotic cell cycle
B cell differentiation
phosphatidylinositol 3–kinase binding
response to fibroblast growth factor
fibroblast growth factor receptor signaling pathway
Notch signaling pathway
tumor necrosis factor production
Wnt signaling pathway
GO Term
establishment of protein localization
cell part morphogenesis
positive regulation of protein kinase activity
cellular localization
cellular response to DNA damage stimulus
regulation of cellular protein metabolic process
circulatory system development
cell differentiation
cell development
ion binding
cell differentiation
regulation of hormone levels
circulatory system development
primary metabolic process
regulation of cellular protein metabolic process
positive regulation of molecular function
cell development
primary metabolic process
regulation of primary metabolic process
regulation of nitrogen compound metabolic process
regulation of primary metabolic process
single–organism cellular process
cellular macromolecule metabolic process
peptidyl–amino acid modification
cell death
ion binding
cell differentiation
positive regulation of multicellular organismal process
negative regulation of cellular metabolic process
extracellular signal transduction

FIG. 5C

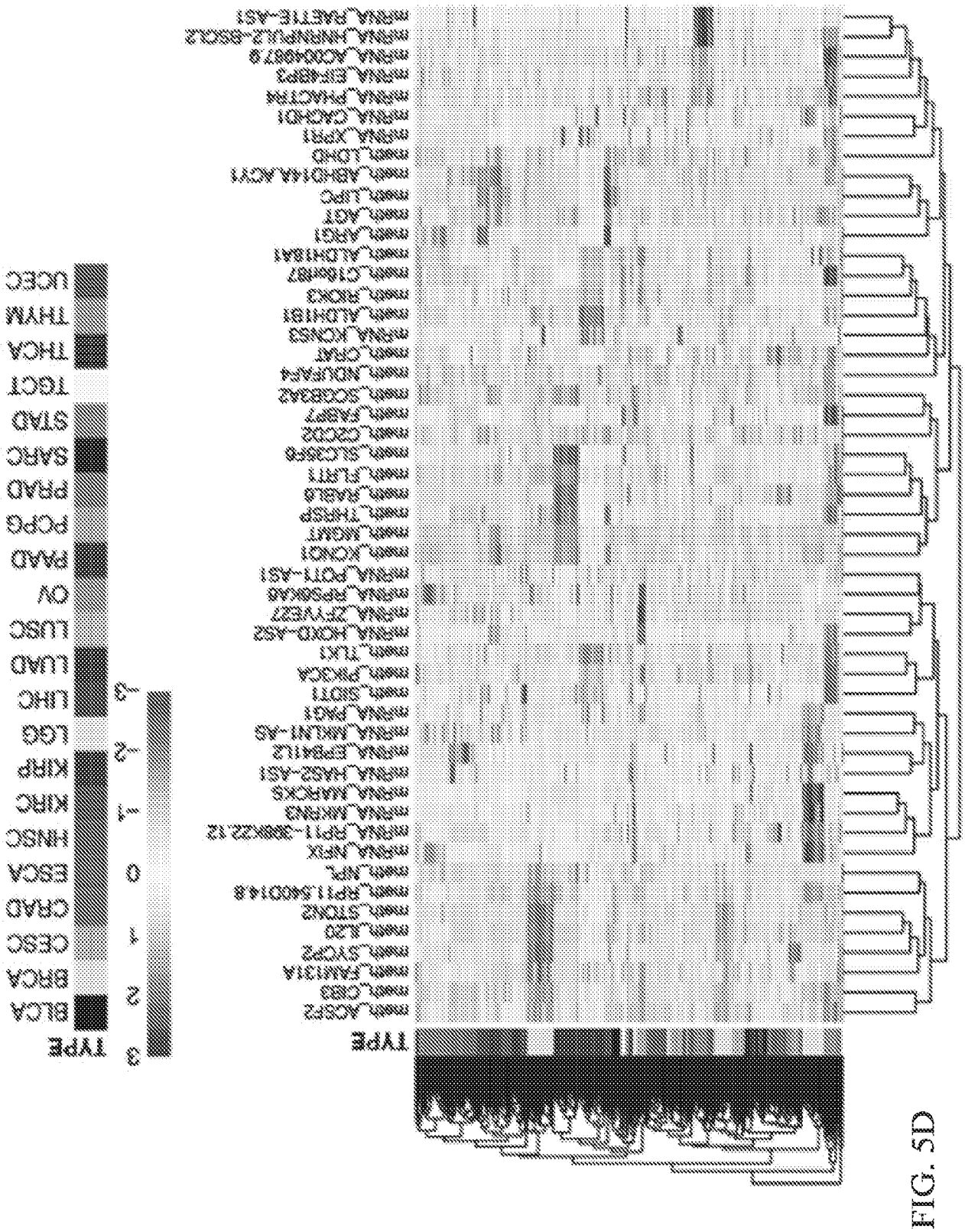

TYPE
BLCA
BRCA
CESC
CRAD
ESCA
HNSC
KIRC
KIRP
LGG
LIHC
LUAD
LUSC
OV
PAAD
PCPG
PRAD
SARC
STAD
TGCT
THCA
THYM
UCEC
3
2
1
0
-1
-2
-3
TYPE
mRNA_ACSF2
mRNA_CIB2
mRNA_FAM13A
mRNA_SYCP2
mRNA_IL20
mRNA_STON2
mRNA_RP11-540D14.8
mRNA_NPL
mRNA_NFIX
mRNA_RP11-389K22.12
mRNA_MKRN3
mRNA_MAPCKS
mRNA_HAS2-AS1
mRNA_EPB41L2
mRNA_MKLN1-AS
mRNA_PAG1
mRNA_SIDT1
mRNA_PIK3CA
mRNA_TLK1
mRNA_HOXD-AS2
mRNA_ZFYVE27
mRNA_RPS6KA6
mRNA_PDTN-AS1
mRNA_KCNK1
mRNA_MGMT
mRNA_THRSP
mRNA_RASL6
mRNA_FLRT1
mRNA_SLC35F6
mRNA_CZCC2
mRNA_FAB7
mRNA_SCGB3A2
mRNA_NDUFAF4
mRNA_CRMT
mRNA_KCNS3
mRNA_ALDH1B1
mRNA_RGN3
mRNA_C19orf67
mRNA_ALDH1BA1
mRNA_ARG1
mRNA_AGT
mRNA_LIPC
mRNA_ABHD14A-ACY1
mRNA_LDHD
mRNA_XPR1
mRNA_CACHD1
mRNA_PHACTR4
mRNA_EIF4EP3
mRNA_AC004987.9
mRNA_HNRNPUL2-BSCL2
mRNA_RAET1E-AS1

FIG. 5D

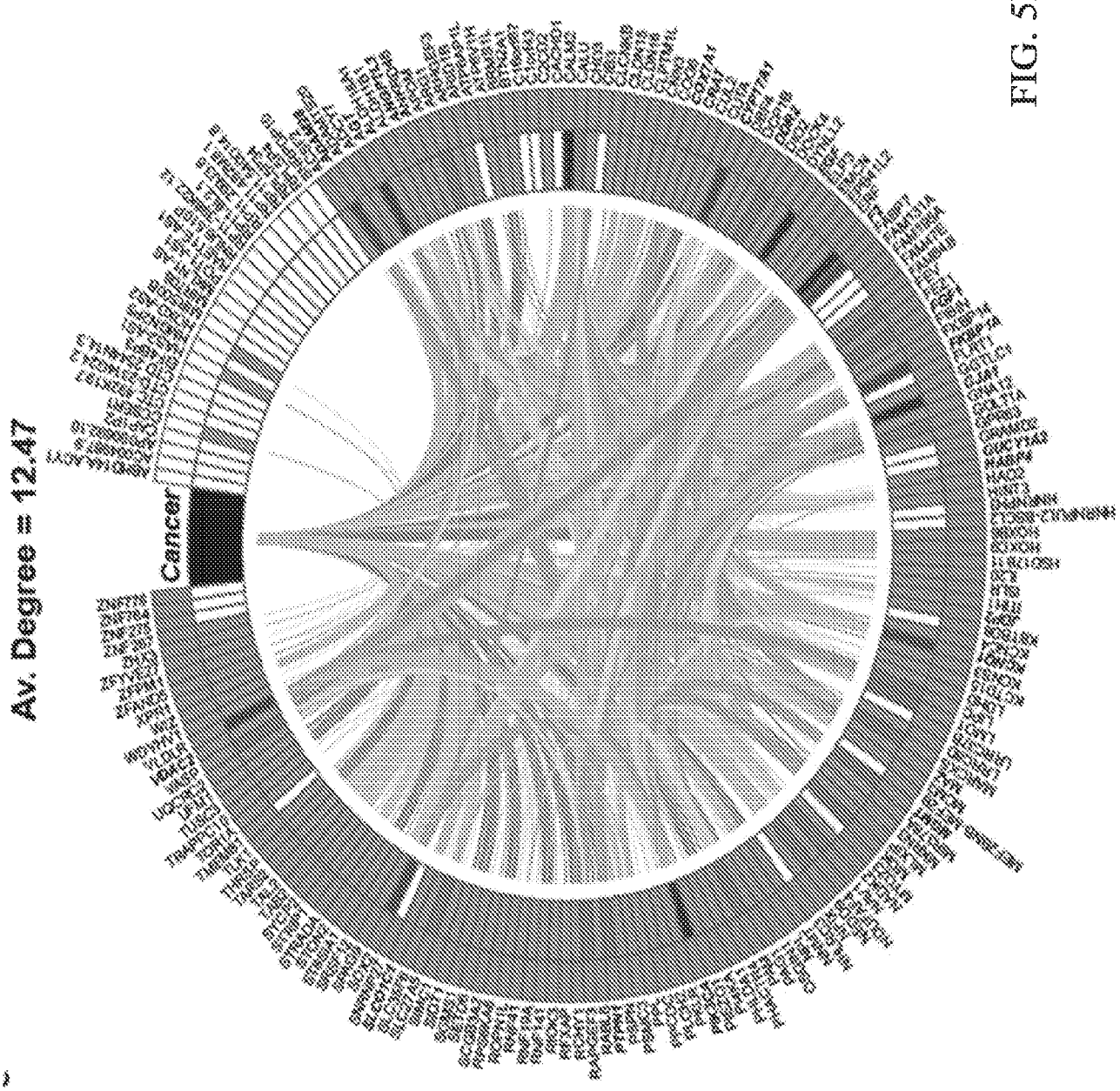


FIG. 5E

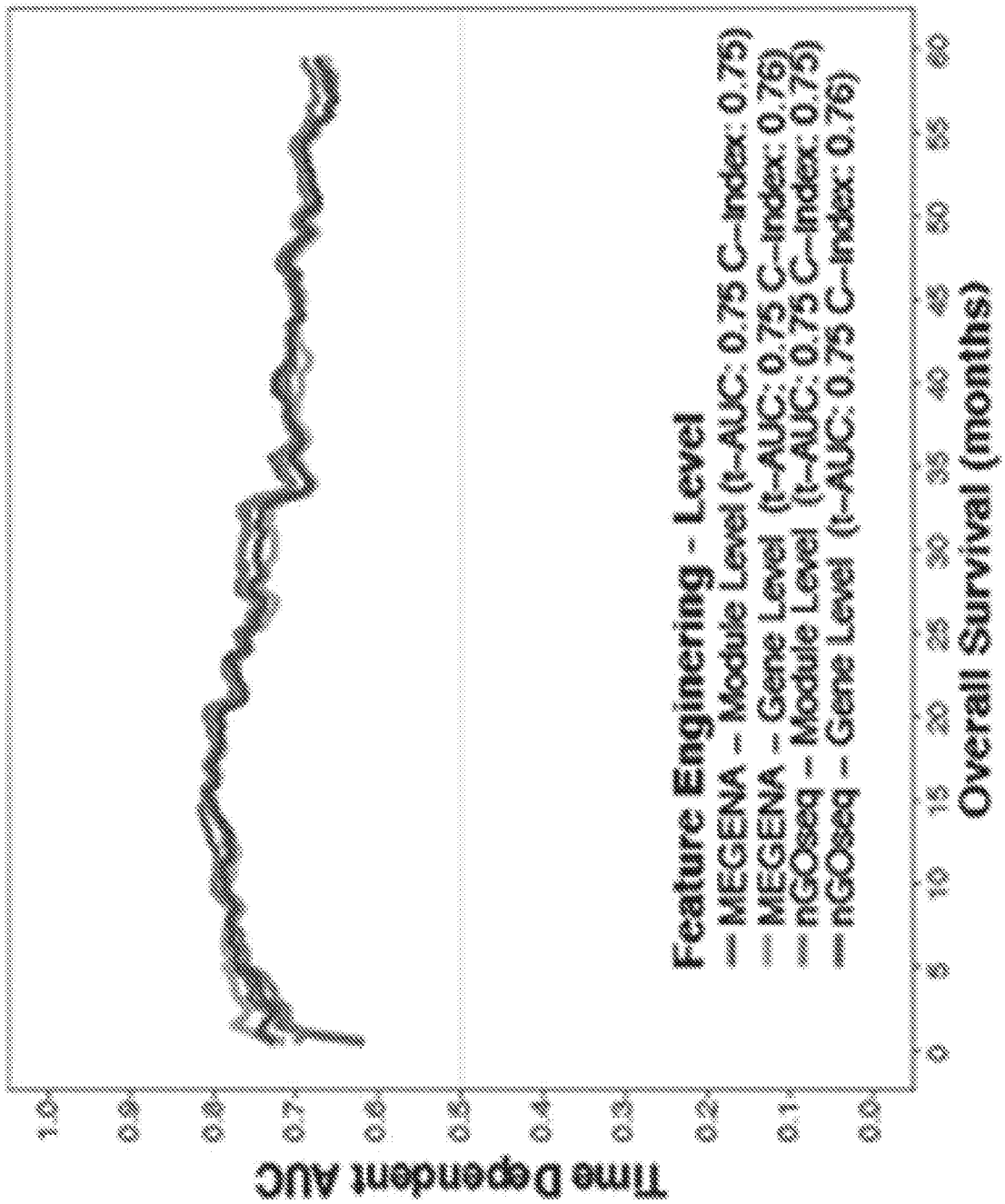

Time Dependent AUC
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0
10
20
30
40
50
60
Overall Survival (months)
Feature Engineering - Level
MEGENA – Module Level (t–AUC: 0.75 C–Index: 0.75)
MEGENA – Gene Level (t–AUC: 0.75 C–Index: 0.76)
nGOseq – Module Level (t–AUC: 0.75 C–Index: 0.75)
nGOseq – Gene Level (t–AUC: 0.75 C–Index: 0.76)

FIG. 6A

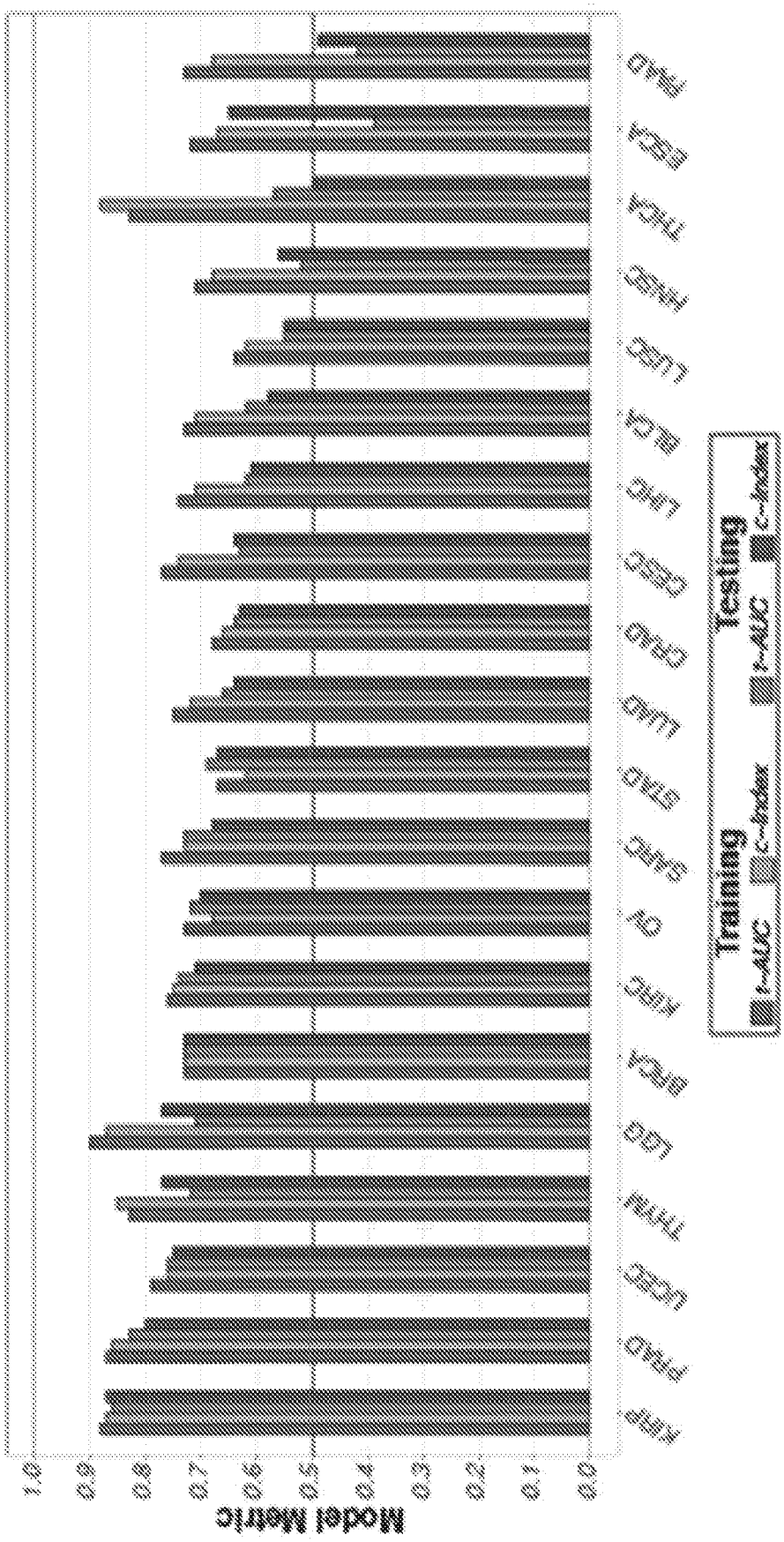

Model Metric
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
KRP
PRAD
UCEC
THYM
UCS
BRCA
KIRC
OV
SARC
STAD
LIHC
CRAD
UVM
CESC
LUAD
BLCA
LGG
HNSC
TGCA
ESCA
PAAD
Training
t-AUC
c-Index
Testing
t-AUC
c-Index

FIG. 6B

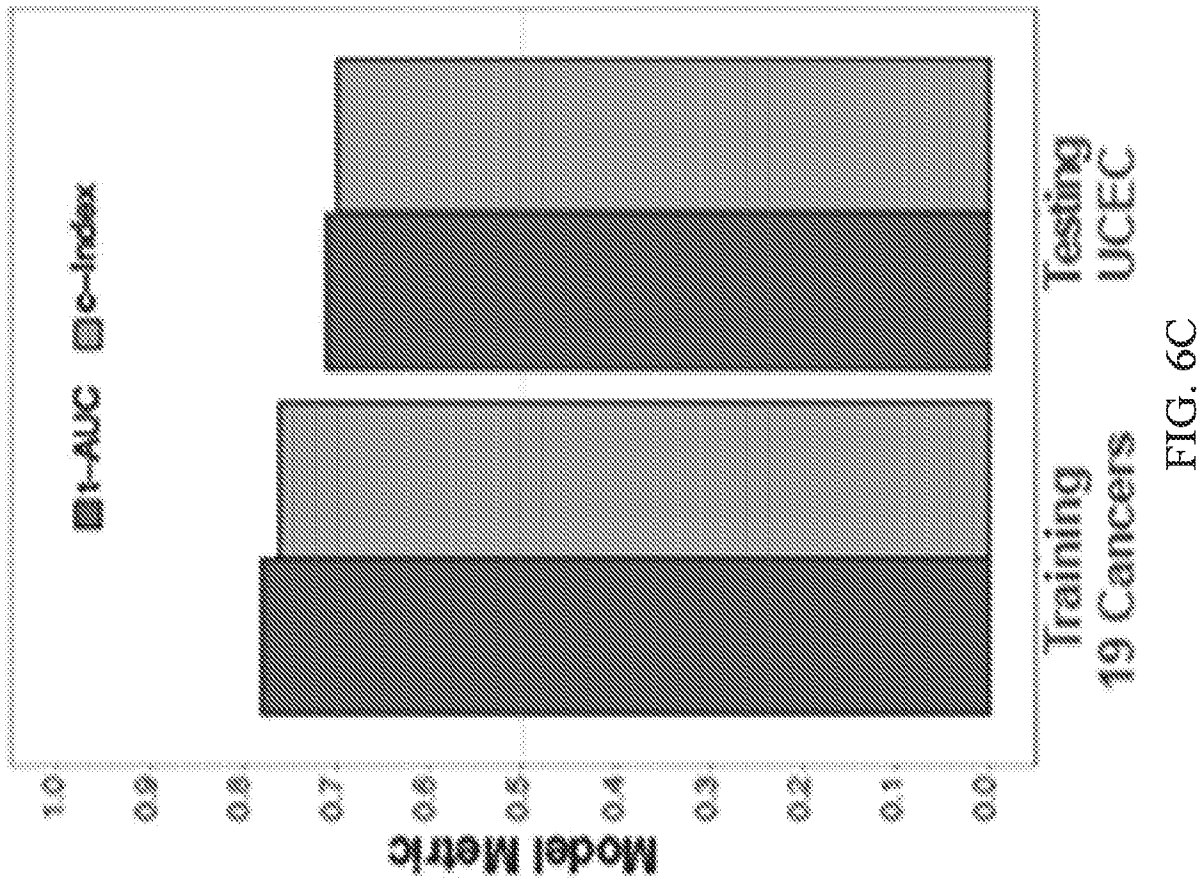

1-AUC
c-Index
Model Metric
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Training
19 Cancers
Testing
UCEC

FIG. 6C

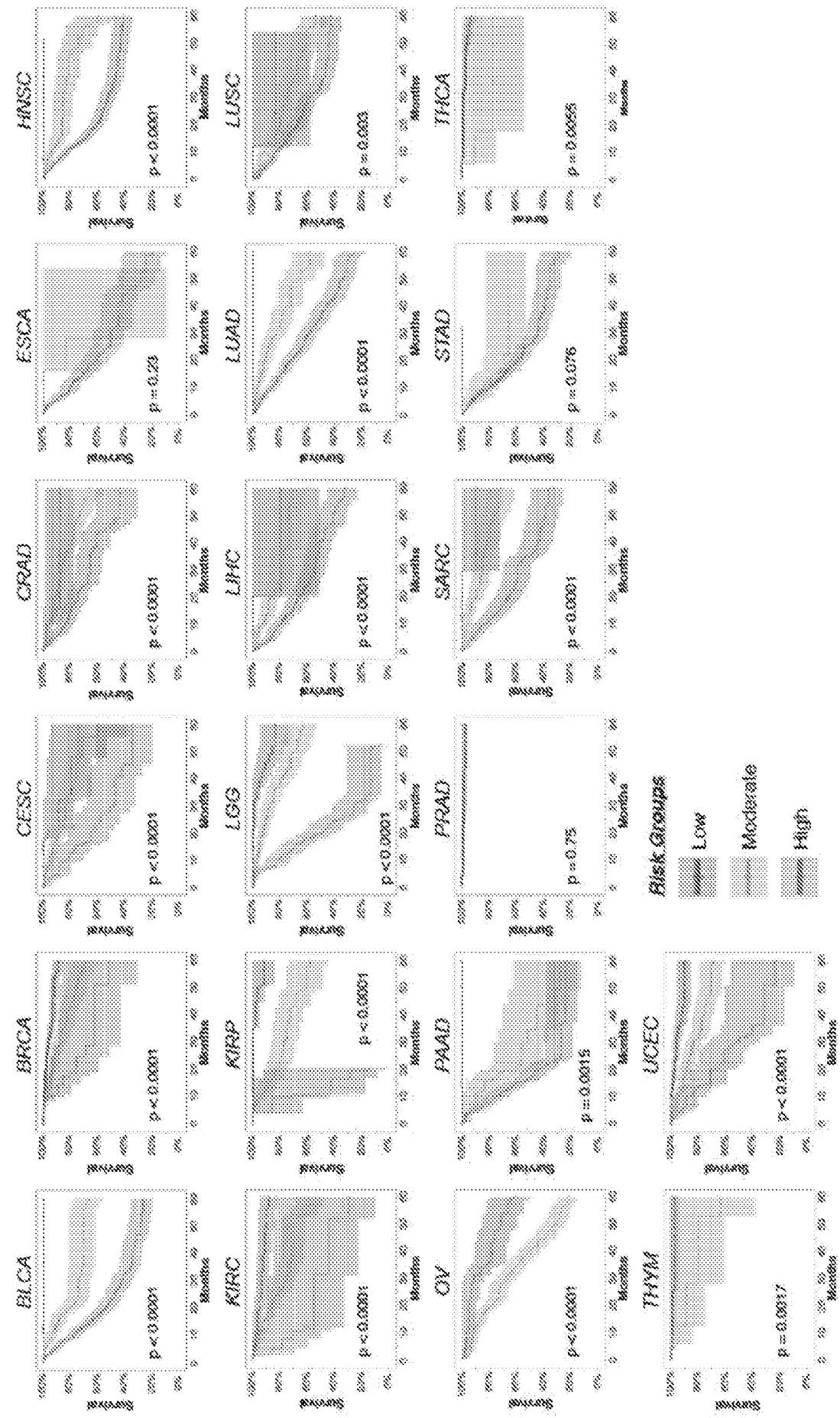

BLCA
p < 0.0001
BRCA
p < 0.0001
CESC
p < 0.0001
CRAD
p < 0.0001
ESCA
p = 0.23
HNSC
p < 0.0001
KIRC
p < 0.0001
KIRP
p < 0.0001
LGG
p < 0.0001
LIHC
p < 0.0001
LUAD
p < 0.0001
LUSC
p = 0.003
OV
p < 0.0001
PAAD
p = 0.0015
PRAD
p = 0.75
SARC
p < 0.0001
STAD
p = 0.076
THCA
p = 0.0065
THYM
p = 0.0017
UCEC
p < 0.0001
Survival
Months
Risk Groups
Low
Moderate
High

FIG. 6D

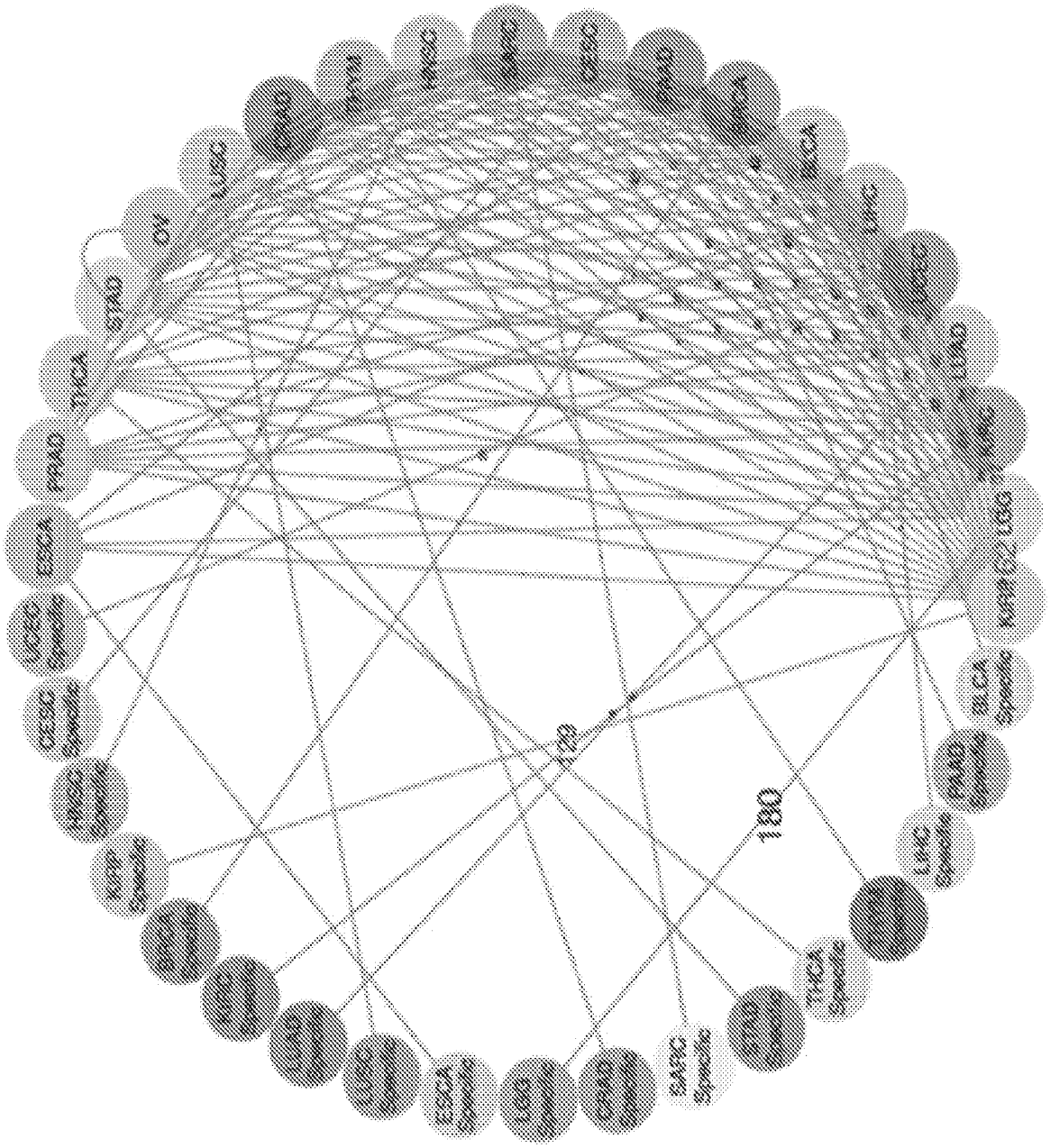


FIG. 7A

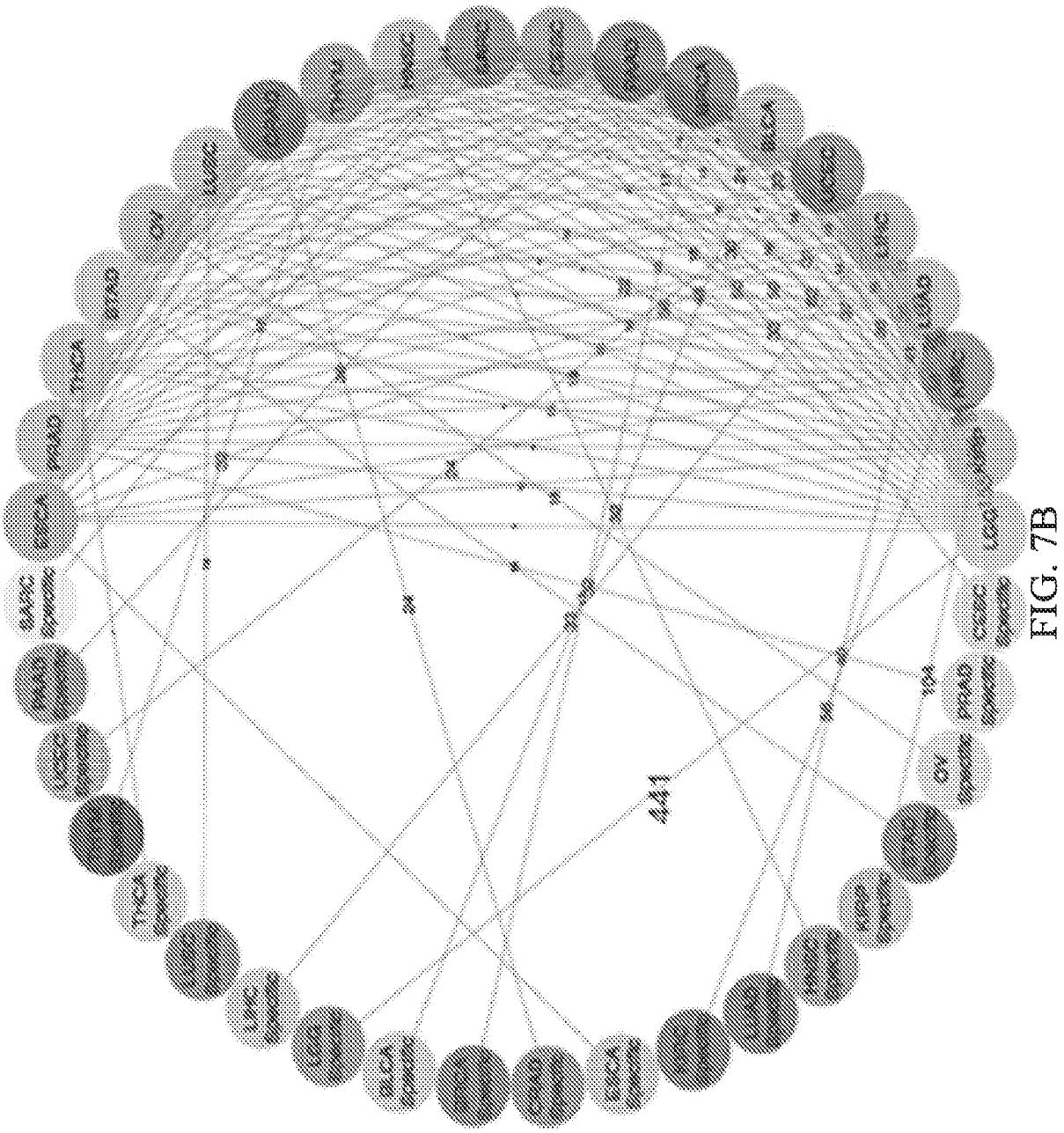


FIG. 7B

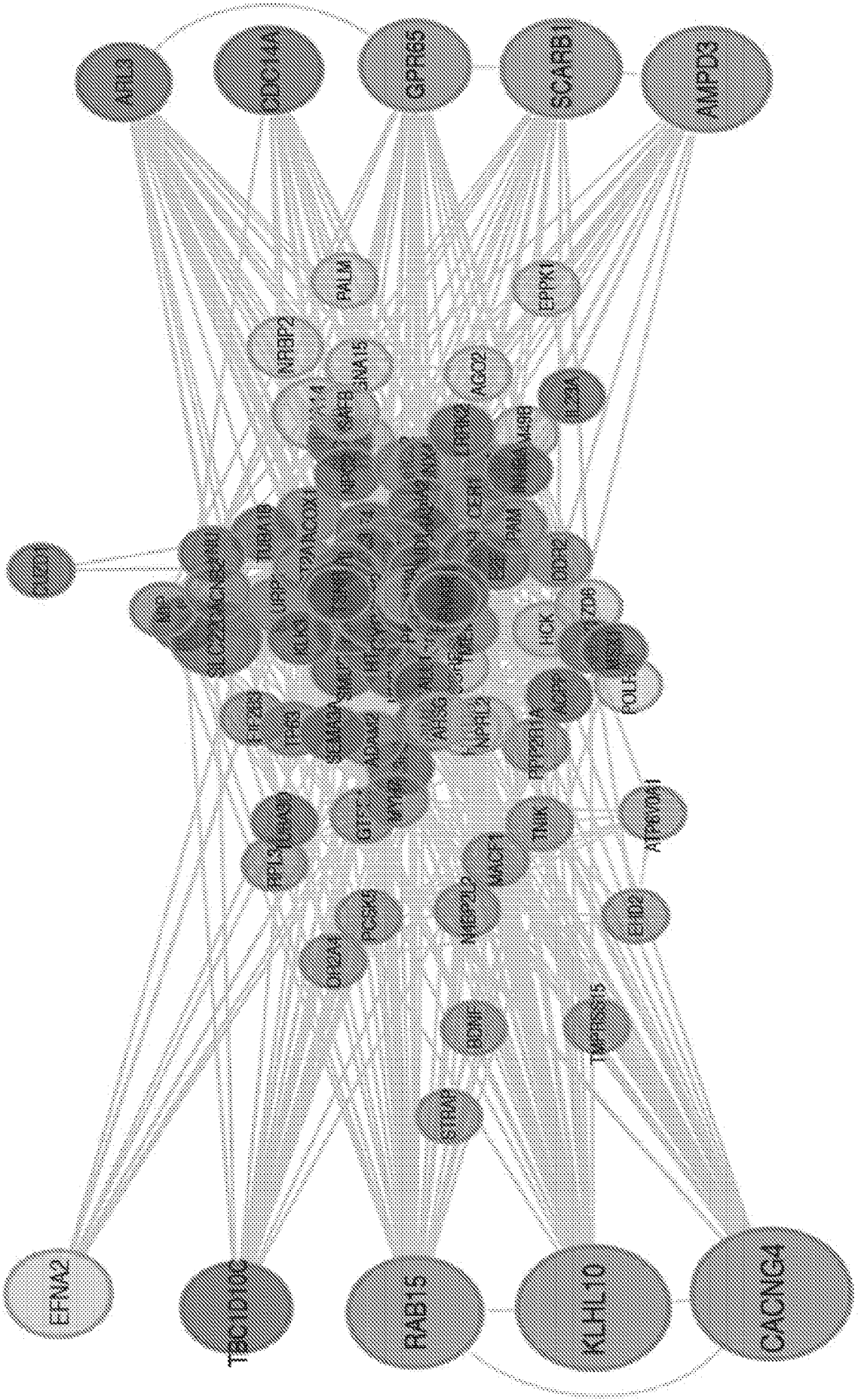

AHR
CDC14A
GPR65
SCARB1
AMPD3
RALM1
EPHA1
MPZL2
MYO5A
AGO2
IL23A
EGR1
EFNA2
TBC1D10C
RAB15
KLHL10
CACNG4

FIG. 7C

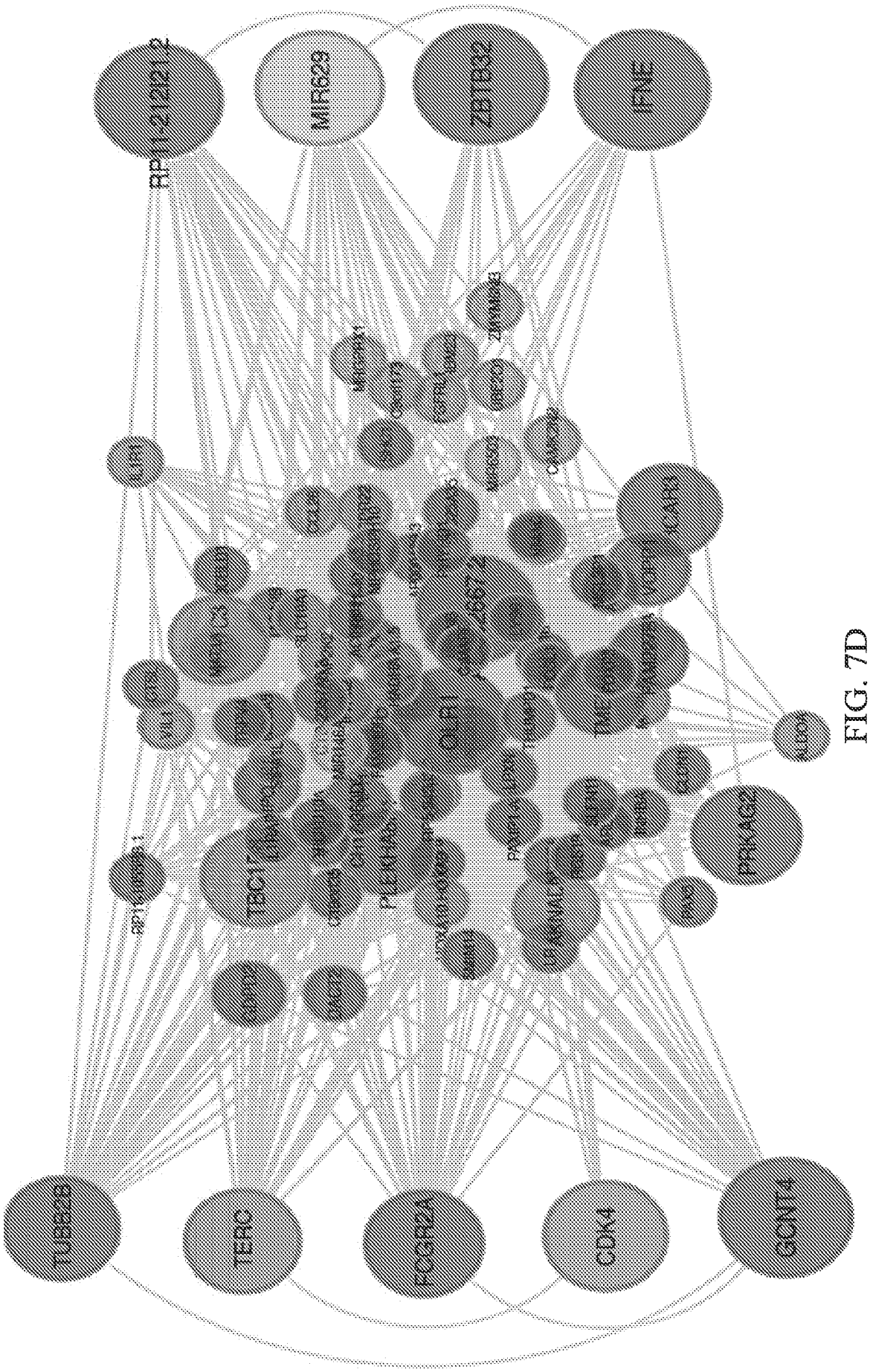
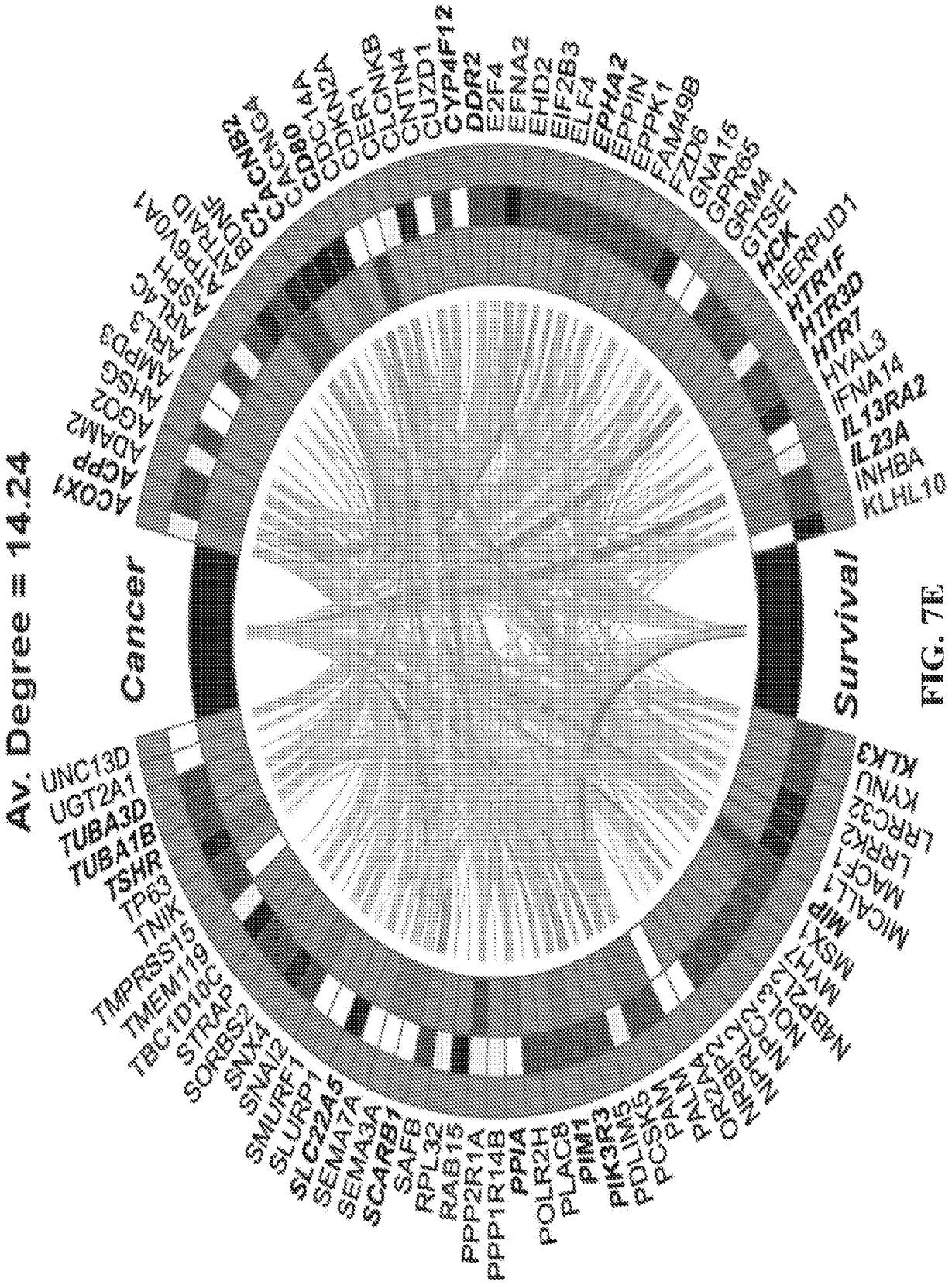

RP11-21I22.2
MIR629
ZBTB33
IFNE
TUBB2B
TERC
FCGR2A
CDK4
GCNT4
PRKAG2

FIG. 7D


Av. Degree = 14.24
Cancer
Survival
UNC13D
UGT2A1
TUBA3D
TUBA1B
TSHR
TP63
TNIK
TMPRSS15
TMEM119
TBC1D10C
STRAP
SORBS2
SNX4
SNAI2
SMURF1
SLURP1
SLC22A5
SEMA7A
SEMA3A
SCARB1
SAFB
RPL32
RAB15
PPP2R1A
PPP1R14B
PPIA
POLR2H
PLAC8
PIM1
PIK3R3
PDLIM5
PDCD4
PAWR
PALM2
PAIP2
ORC2
NUP35
NOL3
NFKBIZ
N4BP2L2
MYH7
MSX1
MIP
MICALL1
MACF1
LRRK2
LRRC32
KYNU
KLK3
KLHL10
INHBA
IL23A
IL13RA2
IFNA14
HYAL3
HTR7
HTR3D
HTR1F
HCK
HERPUD1
GTSE1
GRM4
GPR65
GNA15
FZD6
FAM49B
EPPK1
EPPIN
EPHA2
ELF4
EIF2B3
EHD2
EFNA2
E2F4
DDR2
CYP4F12
CCDC102A
CCDC88C
CCDC14A
CCDC12A
DDR1
CCDC50
CNTN4
CCDC178
CCDC91
CNGB1
CNGA1
ACSF2
ACOX1
ADAM2
AGO2
AMH
AMPD3
ARL3
ARL6IP1
ASRGL1
ATP6V0A1
BCL2L14
BMP8B
C1QTNF1
C2CD4A
C2CD4B
C2CD4C
C2CD4D
C2CD4F
C3orf62
C4orf22
C5orf38
C6orf118
C6orf132
C6orf223
C6orf58
C7orf57
C8orf33
C9orf135
C9orf152
C9orf24
C9orf3
C9orf40
C9orf64
C9orf72
C9orf85
CA14
CACNG4
CACNG8
CAMK2N1
CAPN13
CASC1
CASP8AP2
CBLN2
CBX6
CCDC141
CCDC144A
CCDC144B
CCDC144C
CCDC146
CCDC150
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CCDC328

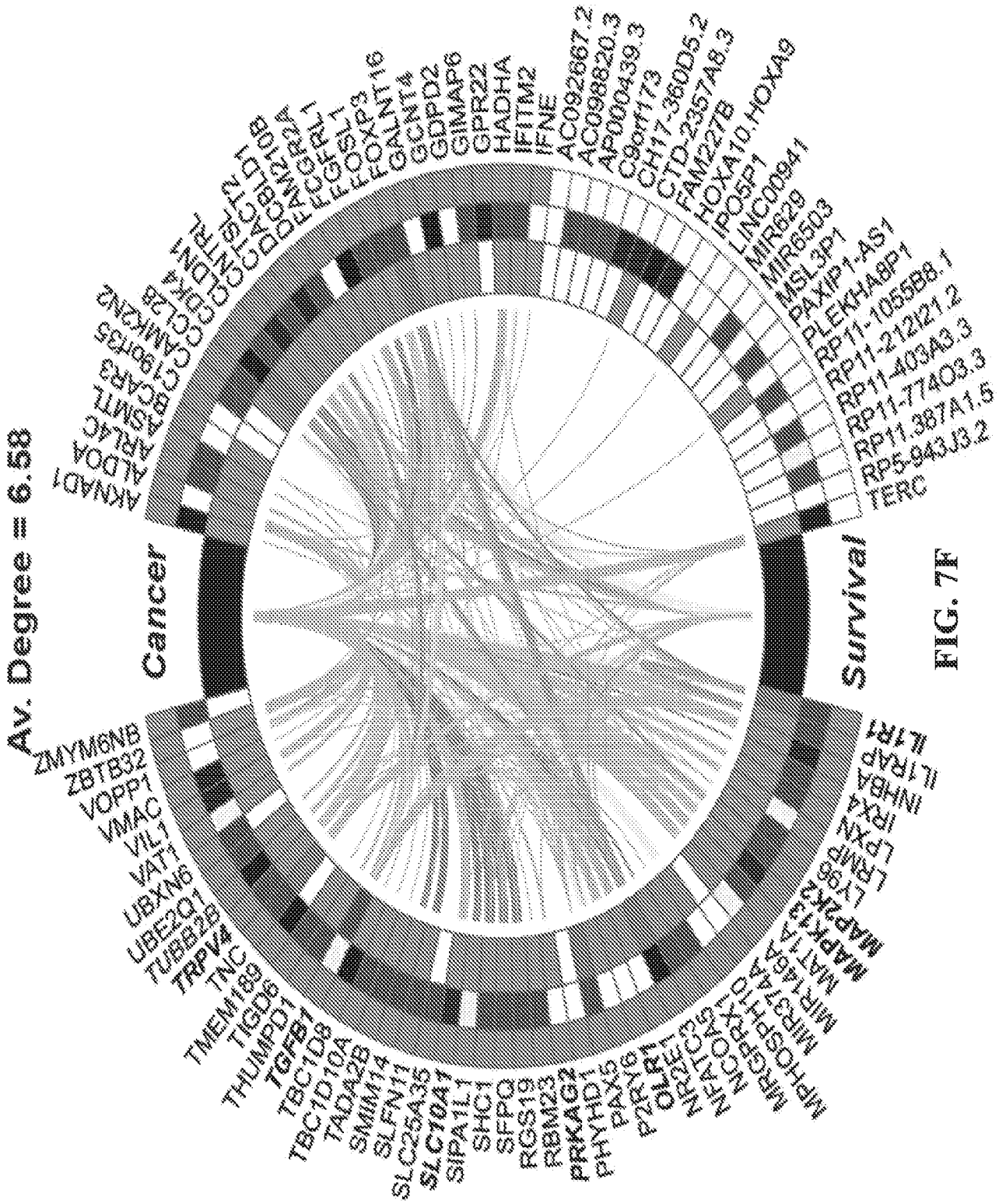

Av. Degree = 6.58
Cancer
Survival
ZMYM6NB
ZBTB32
VOPP1
VMAC
VIL1
VAT1
UBXN6
UBE2Q1
TUBB2B
TRPV4
TNC
TMEM189
TIGD6
THUMPD1
TGFB1
TBC1D8
TBC1D10A
TADA2B
SMIM14
SLFN11
SLC25A35
SLC10A1
SIPA1L1
SHC1
SFPQ
RGS19
RBM23
PRKAG2
PHYHD1
PAX6
P2RY6
PDLIM7
NR2C2
NFATC4
NCOR2
MPHOSPH9
MIR23A
MIR1468
MAT1A
MAP2K3
LY96
LRRN6B
LPXN
IRAK4
INHBA
IL7R
IL1RAP
IL1R1
TERC
RP5-943J3.2
RP11.387A1.5
RP11-774O3.3
RP11-403A3.3
RP11-212I21.2
RP11-1055B8.1
PLEKHA8P1
PAXIP1-AS1
MSL3P1
MIR6503
MIR629
LINC00941
IPO5P1
HOXA10.HOXA9
FAM227B
CTD-2357A8.3
CH17-360D5.2
C9orf173
AP000439.3
AC098820.3
AC092667.2
IFNE
IFITM2
HADHA
GPR22
GIMAP6
GDPD2
GCNT4
FUT9
FLJ46083
FGFR1OP2
FAM49A
EFCAB14
DDX60L
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CSF2RB
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CCDC141
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ARL4C
ASMT
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FIG. 7F

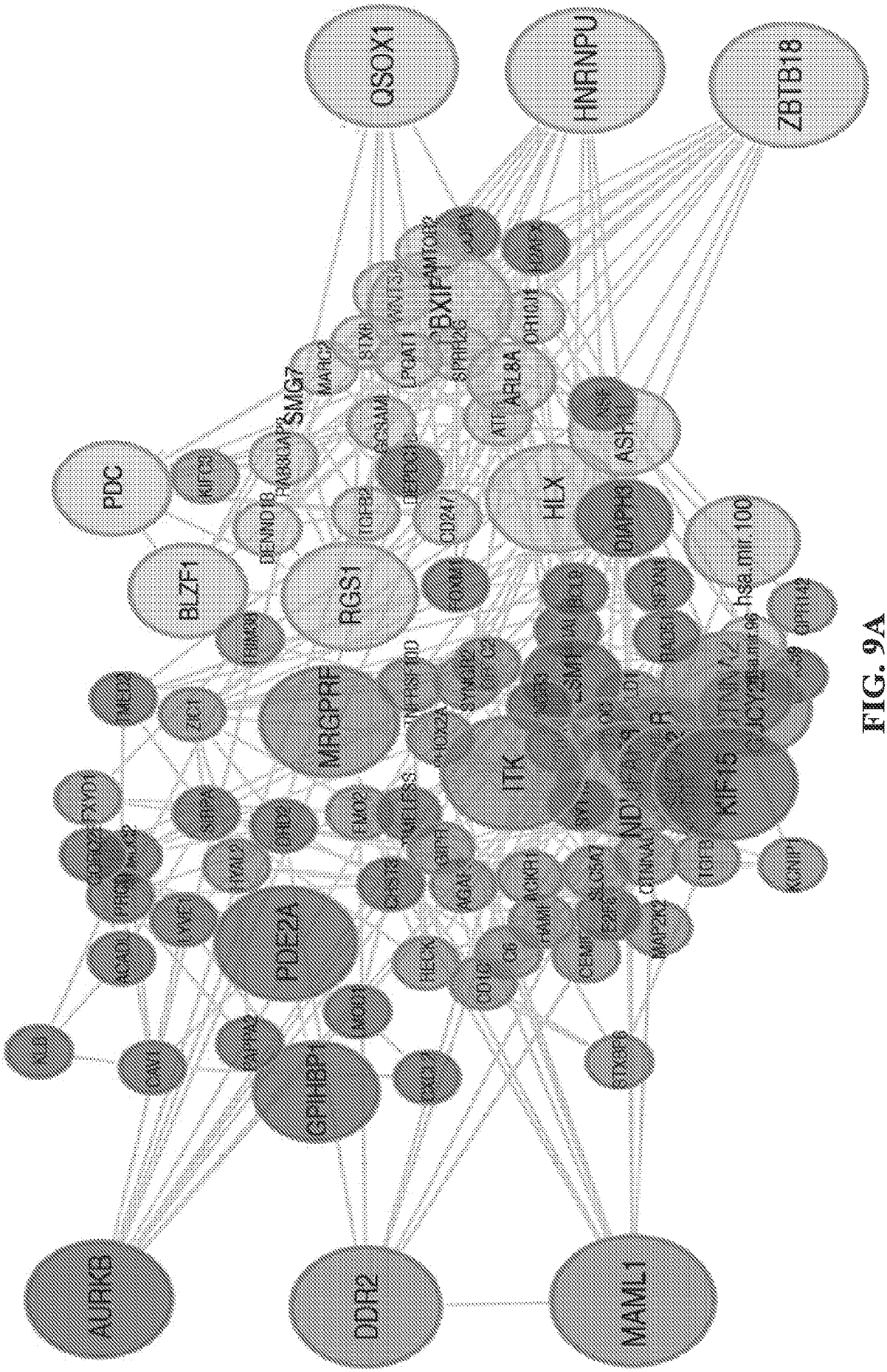

QSOX1
HNRNPU
ZBTB18
PDC
BLZF1
RGS1
MRGPRF
HLX
ITK
KIF15
PDE2A
GPHB5
AURKB
DDR2
MAML1
SMG7
IBXIP
ARL8A
ASH1
DUSP8
hsa.mir.100

FIG. 9A

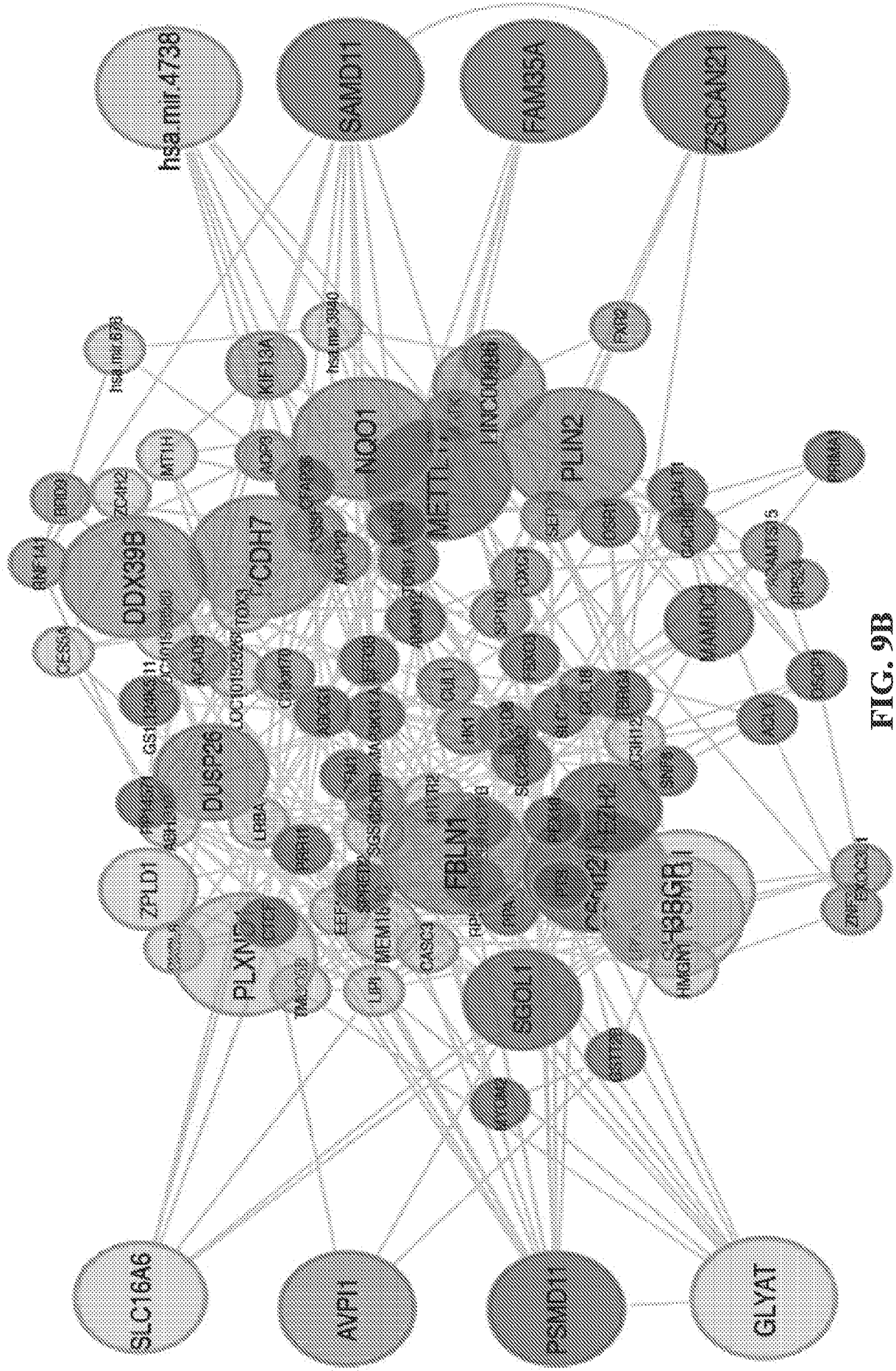

hsa mir 4738
SAMD11
FAM35A
ZSCAN21
SLC16A6
AVPI1
PSMD11
GLYAT
CDH7
DDX39B
PLIN2
MOC1
FBLM1
PLXNC1
ZPLD1
DUSP26
SGOL1
PCDHGA12
SLC38A3

FIG. 9B

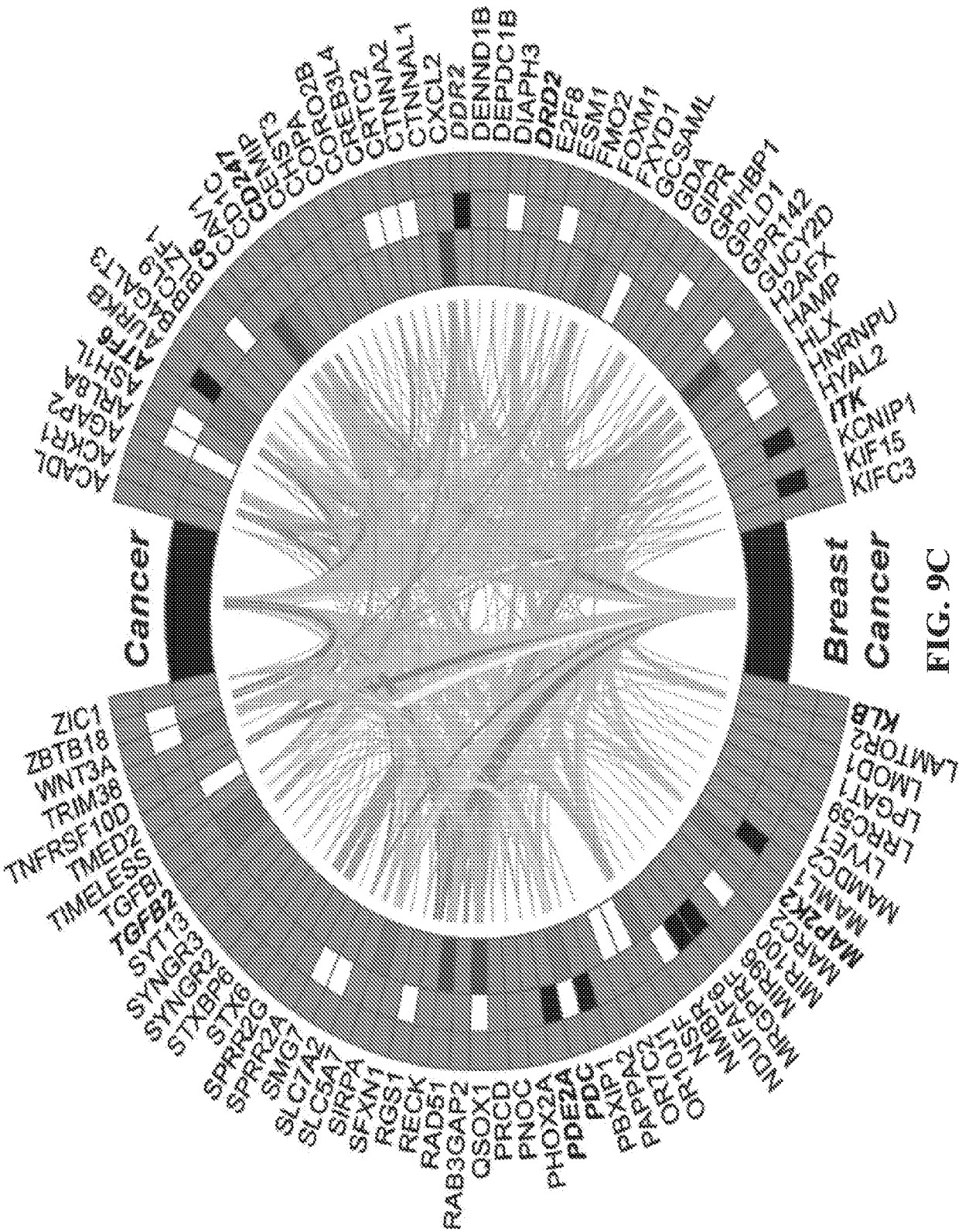

Breast Cancer
Cancer
KLB
LAMTOR2
LMOD1
LPGAT1
LRRC59
LYNEL3
MAMDC4
MAP2K2
MAP3K1
MIR1208
MIR595
MIR9-3HG
NDUFA4
NMB
OR7D4
OR7E47P
PAPPA2
PBX1
PDE2A
PHOX2A
PNOC
PRCD
QSOX1
RAB3GAP2
RAD51
RECK
RGS1
SFXN1
SIRPA
SLC5A7
SLC7A2
SMIM7
SPRR2A
SPRR2G
STXBP6
SYNGR2
SYNGR3
SYT13
TGFB2
TGFBI
TIMELESS
TMED2
TNFRSF10D
TRIM38
WNT3A
ZBTB18
ZIC1
ACADL
ACKR1
ADGRA2
ATP8A2
ATSH1L
BBOX1
C4BPA
CCDC68
CCDC74B
CCDC80
CCNB2
CCNB3
CDC42BPB
CDC42EP4
CDCA2
CDCA3
CDCA4
CDCA7
CDCA7L
CDCP1
CDH3
CDK1
CDKN3
CENPA
CENPF
CEP55
CHEK1
CKAP2
CKAP2L
CKS2
CLEC3A
COL10A1
COL11A1
COL12A1
COL1A1
COL1A2
COL3A1
COL4A1
COL5A1
COL5A2
COL6A3
COL8A1
CPA4
CRABP2
CRISPLD2
CTHRC1
CTNNAL1
CTNNB1
CXCL2
DDR2
DENND1B
DEPDC1B
DIAPH3
DRD2
E2F8
ESM1
FMO2
FOXM1
FXYD1
GCSAML
GDA
GIPR
GPIHBP1
GPLD1
GPR142
GUCY2D
H2AFX
HAMP
HLX
HNRNPU
HYAL2
ITK
KCNIP1
KIF15
KIFC3

FIG. 9C

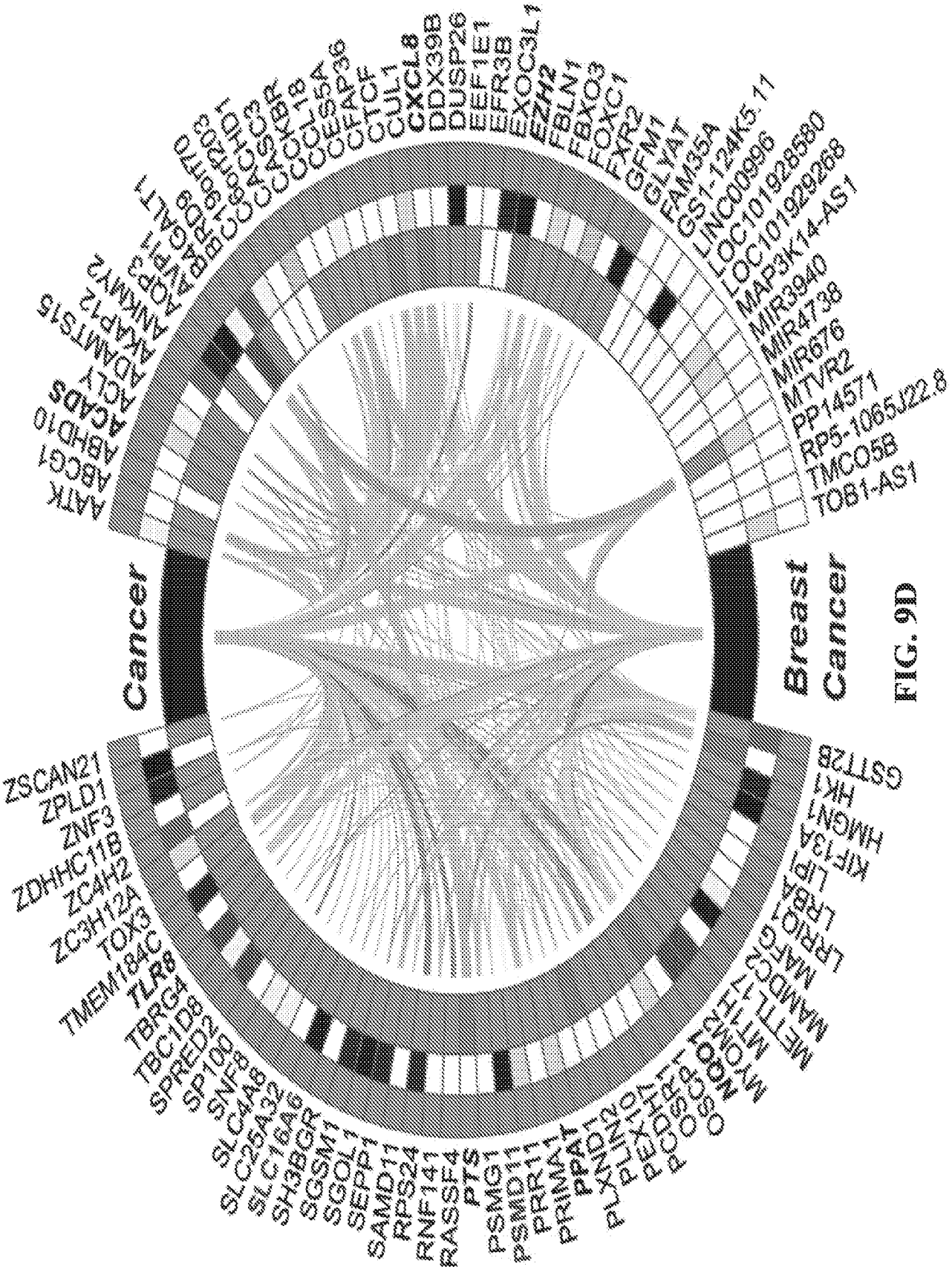

Breast Cancer
Cancer
TOB1-AS1
TMCO5B
RP5-1065J22.8
PP14571
MTVR2
MIR676
MIR4738
MIR3940
MAP3K14-AS1
LOC101929268
LOC101928580
LINC00996
GS1-124K5.11
FAM35A
GLYAT
GFM1
FXR2
FOXC1
FBXO3
FBLN1
EZH2
EXOC3L1
EIF3B
EEF1E1
DUSP26
DDX39B
CXCL8
AATK
ABCG1
ABHD10
ACAD8
ACLY
ADAMTS15
ANKAP1Z
ANKMY2
ARAP3
ATP8B4
B4GALT1
BACE2
C4orf33
C8orf76
CCDC15
CCDC15-AS1
CCDC42B
CCDC71L
CEP68
CHD7
CLEC16A
CNOT1
CPEB4
CTDSP2
CTNNA2
DENND1B
DNAJC5B
DOCK1
EIF4G3
ELMO1
ERAP2
FAM160B1
FAM171A1
FAM189A2
FAM65C
FBXL13
FBXO34
FLT1
GAS2L3
GGA3
GLCCI1
GPR126
GRB14
HACE1
HECTD4
HIP1
HMGCR
HMGN1
HSPA4L
IGF1R
IL6ST
INPP4B
ITGB8
KCNK2
KIF13A
KIF21B
LRRC8C
LRRK1
MAN1A2
MAP4K4
MED13L
MFSD6
MIA3
MPDZ
MYO1B
NCOR2
NFIA
NFIB
NUP210
PDE4DIP
PDS5B
PLEKHA1
PLXNB2
PRKAA2
PRKCH
PRMT1
PSMD11
PSMG1
PTS
RASSF4
RNF141
RPS24
SAMD11
SEPP1
SGOL1
SGSM1
SH3BGR
SLC16A9
SLC25A32
SLC4A8
SNF8
SP100
SPRED2
TBC1D8
TBRG4
TLR8
TMEM184C
TOX3
ZC3H12A
ZC4H2
ZDHHC11B
ZNF3
ZPLD1
ZSCAN21
GSTT2B

FIG. 9D

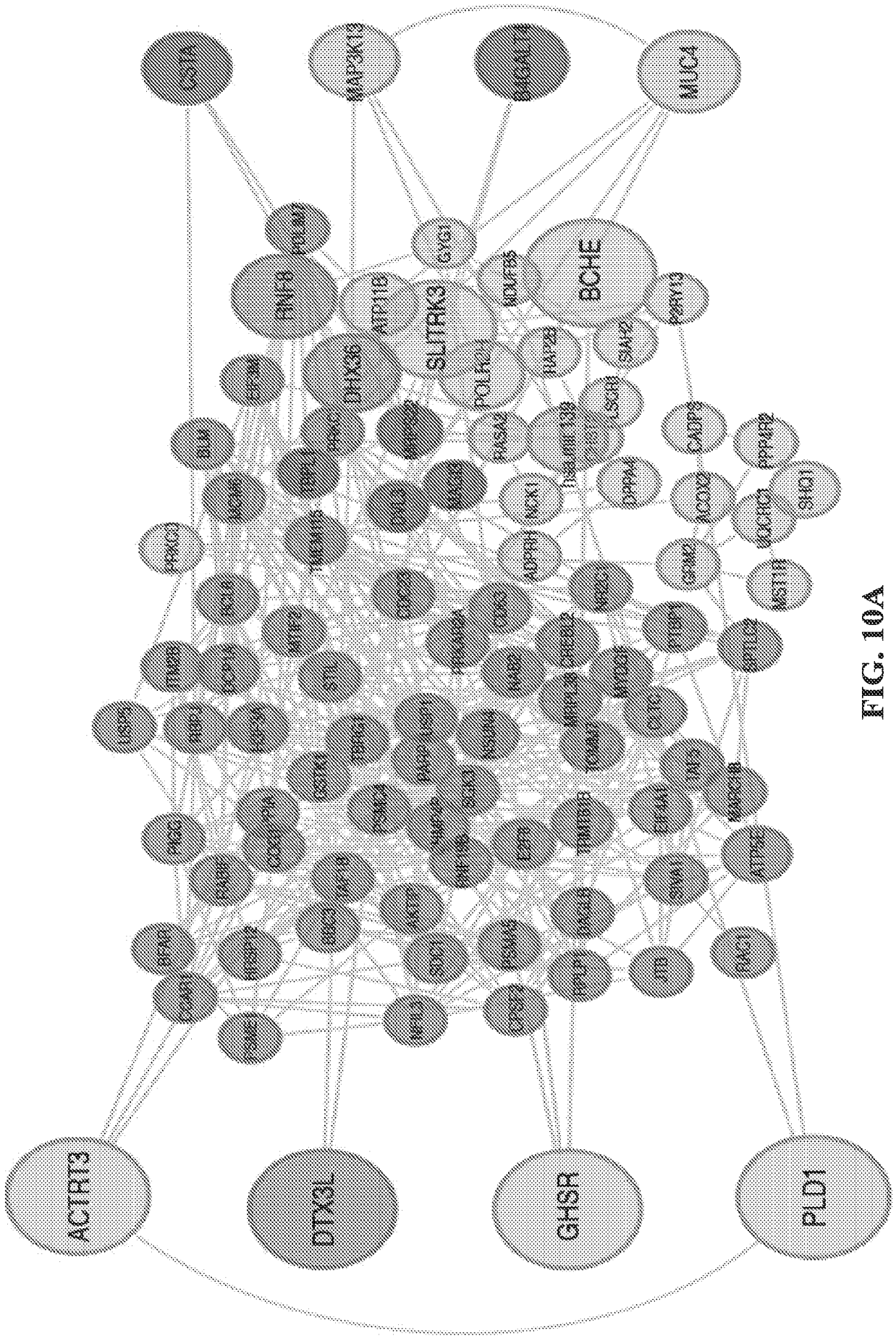

CSTA
MAP3K13
B4GALT4
MUC4
RNF8
SLITRK3
BCHE
ACTRT3
DTX3L
GHSR
PLD1

FIG. 10A

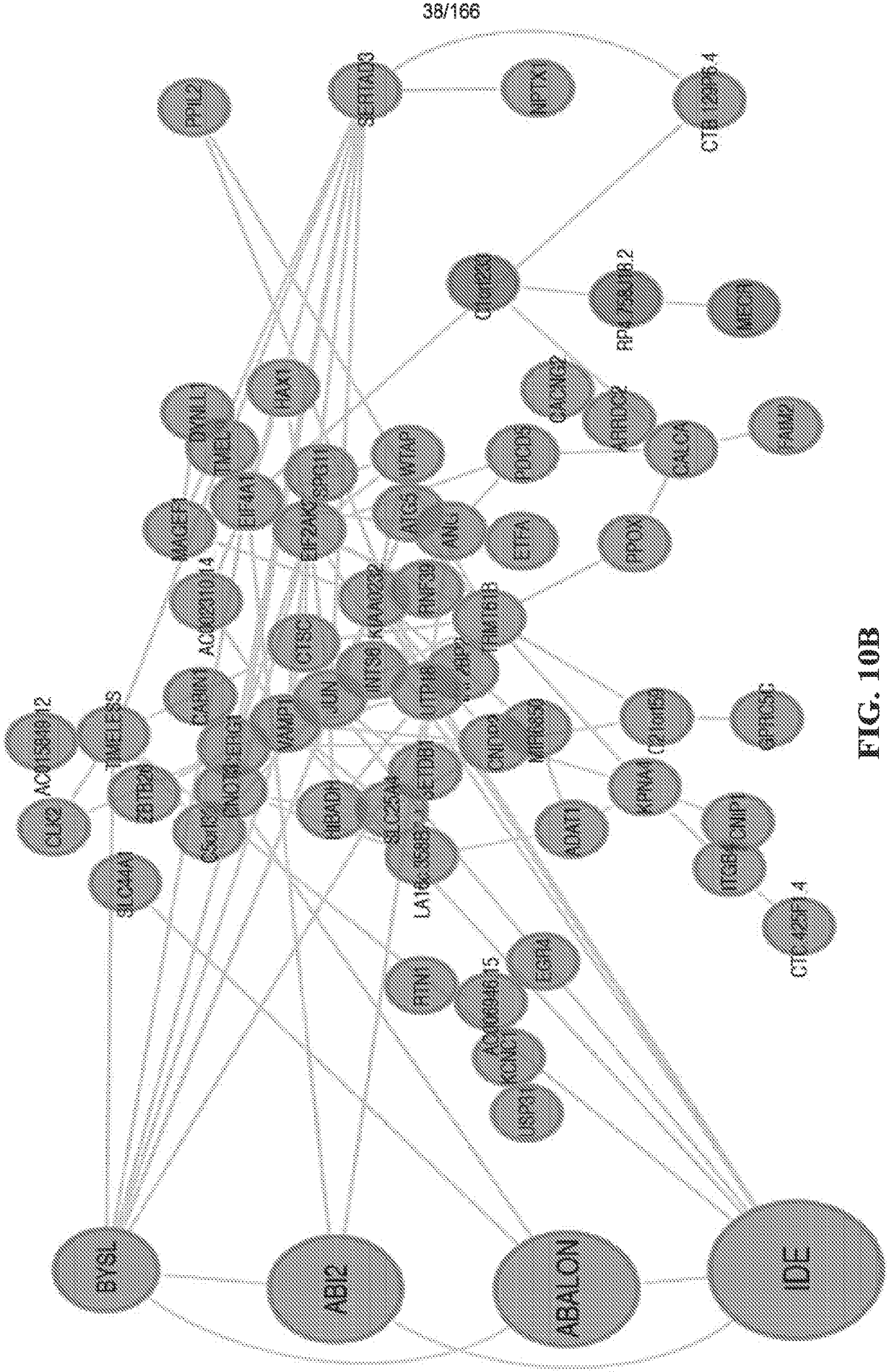


FIG. 10B

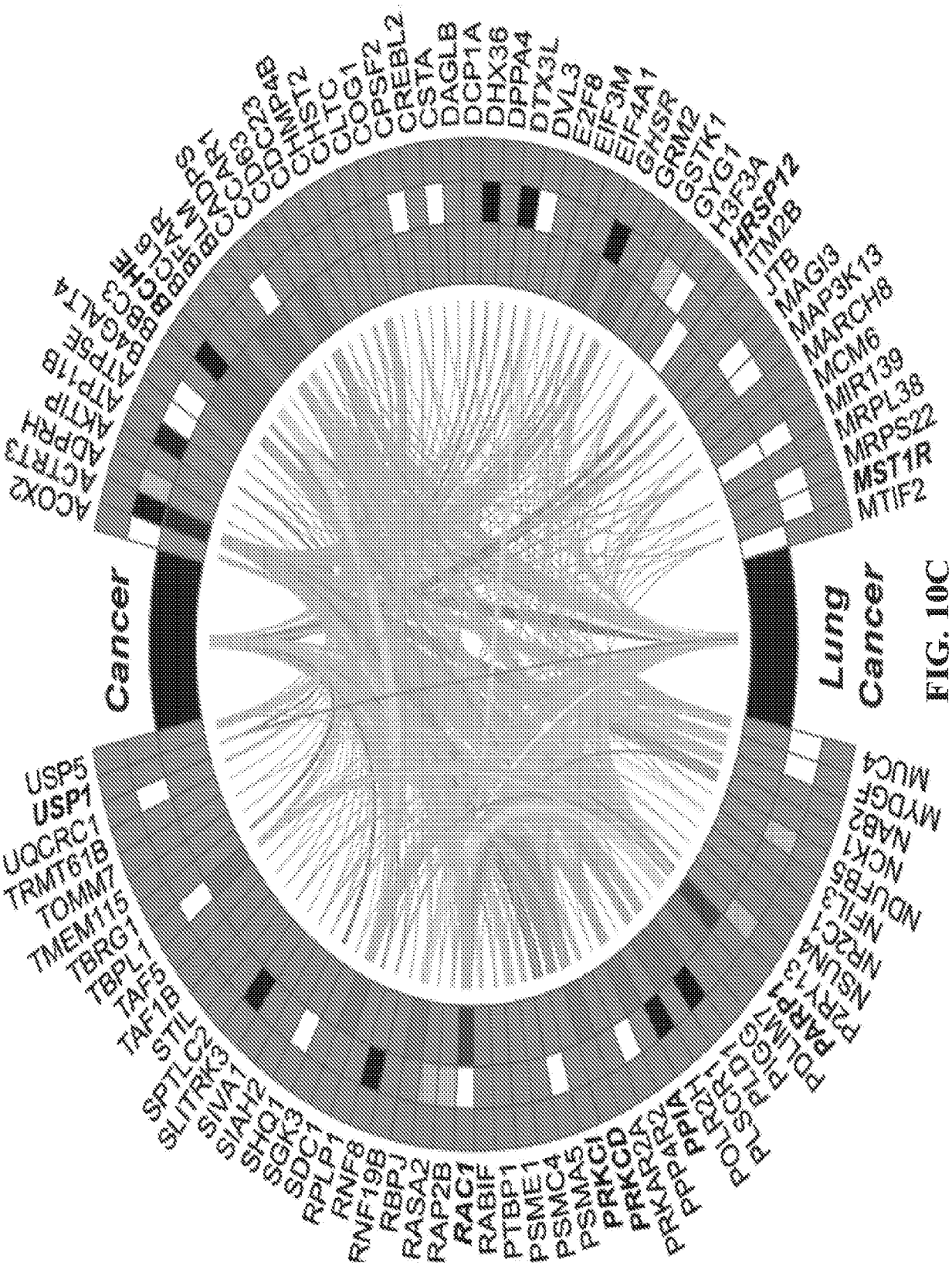

Cancer
Lung Cancer
MTIF2
MST1R
MRPS22
MRPL38
MIR139
MCM6
MARCH8
MAP3K13
MAGI3
JTB
ITM2B
HRSP12
H3F3A
GYG1
GSTK1
GRM2
GGH5R
EIF4A1
EIF3M
E2F8
DVL3
DTX3L
DPPA4
DHX36
DDAH1
DAGLB
CRTAP
CREBL2
COPS2
CMTM2
CHST10
CDC42BPB
CCDC47
CAPG
CAMK2N1
ATP5B
ATP5A1
ATP2B1
ATP1B3
ADPRH
ACTR3
ACOX3
MUC4
MYDGF
NAB2
NCKAP1L
NDUFB3
NFE2L3
NRCAM
NSUN5
PAM
PDLIM7
PLCG1
PPP4R1
PPP4R2
PRKAR2A
PRKCD
PSMA5
PSMC4
PTBP1
RABIF
RAC1
RAP2B
RASA2
RBPJ
RNF19B
RNF8
RPLP1
SDC1
SGK3
SH3D19
SIAH2
SIVA1
SLITRK3
SPTLC2
STIL
TAF1B
TAF5
TBPL1
TBRG1
TMEM115
TOMM7
TRMT61B
UQCRC1
USP1
USP5

FIG. 10C

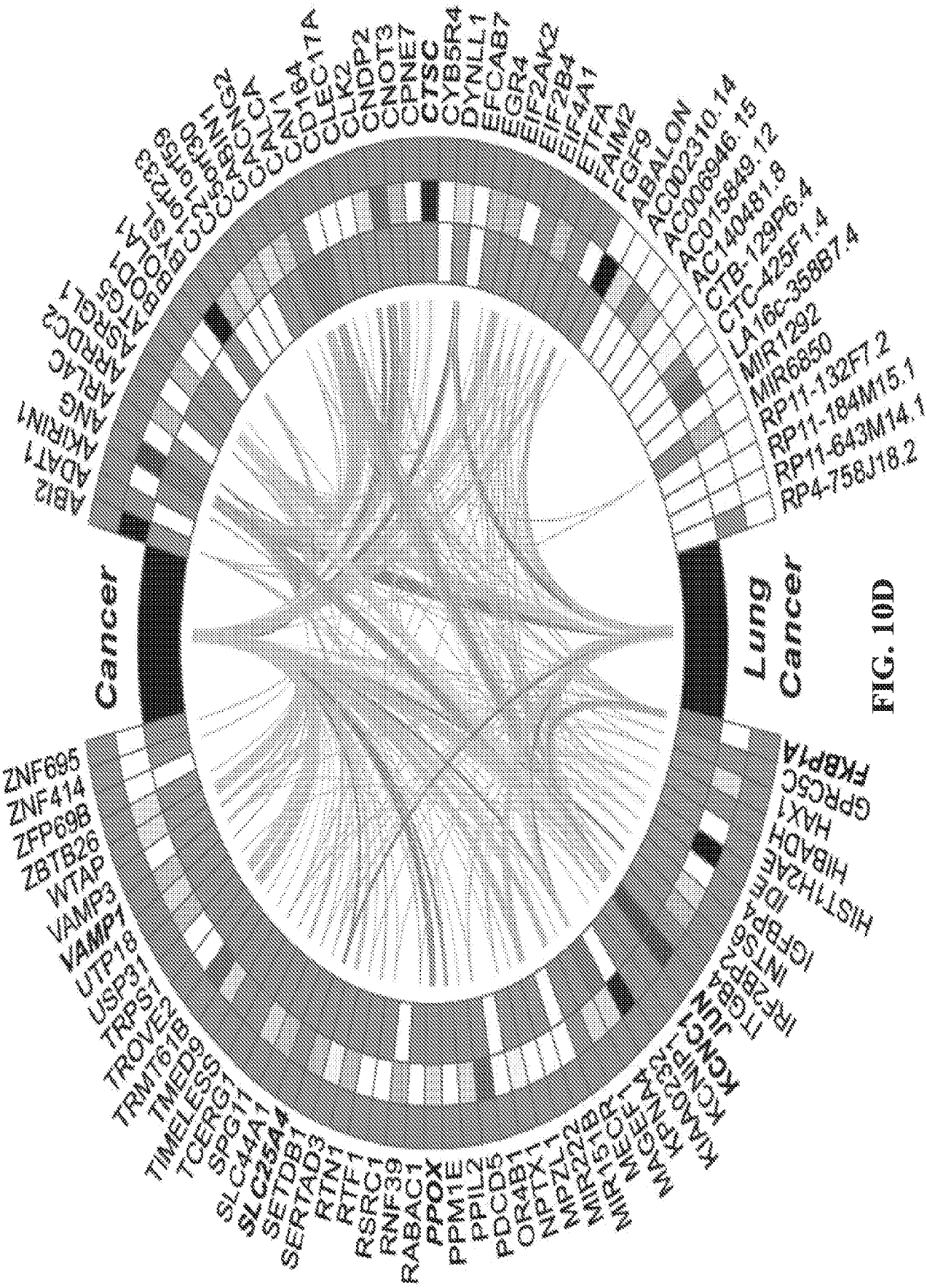

Cancer
Lung Cancer
RP4-758J18.2
RP11-643M14.1
RP11-184M15.1
RP11-132F7.2
MIR6850
MIR1292
LA16c-358B7.4
CTC-425F1.4
CTB-129P6.4
AC140481.8
AC015849.12
AC006946.15
AC002310.14
ABALON
FGF9
FAIM2
EIF4A1
EIF2B4
EIF2AK2
EFCAB7
DYNLL1
CYB5R4
CTSC
CNOT3
CDK2AP2
C4orf17
C4orf16
C3orf59
C3orf52
BCL2L15
ATP5J
ARL4C
ANG
AKIRIN1
ADAT1
ABI2
ZNF695
ZNF414
ZFP69B
ZBTB26
WTAP
VAMP3
VAMP1
UTP18
USP31
TRPS1
TROVE2
TRMT61B
TMED9
TMELES9
TCERG1
SPG11
SLC44A1
SLC25A4
SETDB1
SERTAD3
RTN1
RTF1
RSRC1
RNF39
RABAC1
PPOX
PPM1E
PPIL2
PDCD5
PDAP1
NPTX1
MRPL27
MIR5701
MIR1908
MAP3K7CL
KIAA0930
KCNG1
JUP
IRF2BP2
IGFBP3
HIST1H2AM
HIBADH
HAX1
GPRC5C
FKBP1A

FIG. 10D

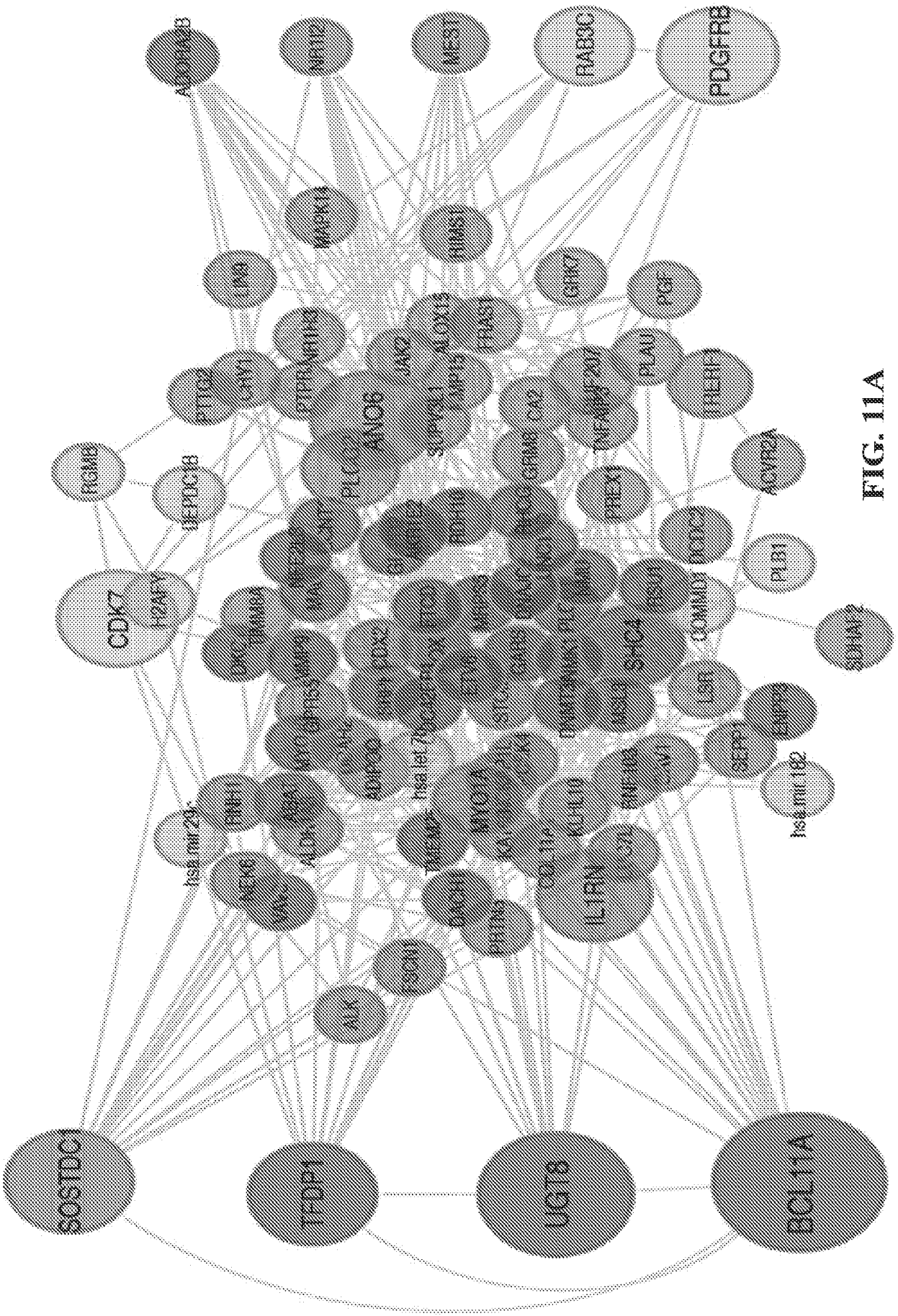

SOSTDC1
TFDP1
UGT8
RCL11A
PDGFRB
RAB3C
MC3T
CDK7
H2AFY
PTTG1
PTPRA
AAO6
JAK2
PLAU
PGF
ACVR2A
PLB1
SUMF2
IL1RN
SHC4
hsa-mir-23c
hsa-mir-182
ALK

FIG. 11A

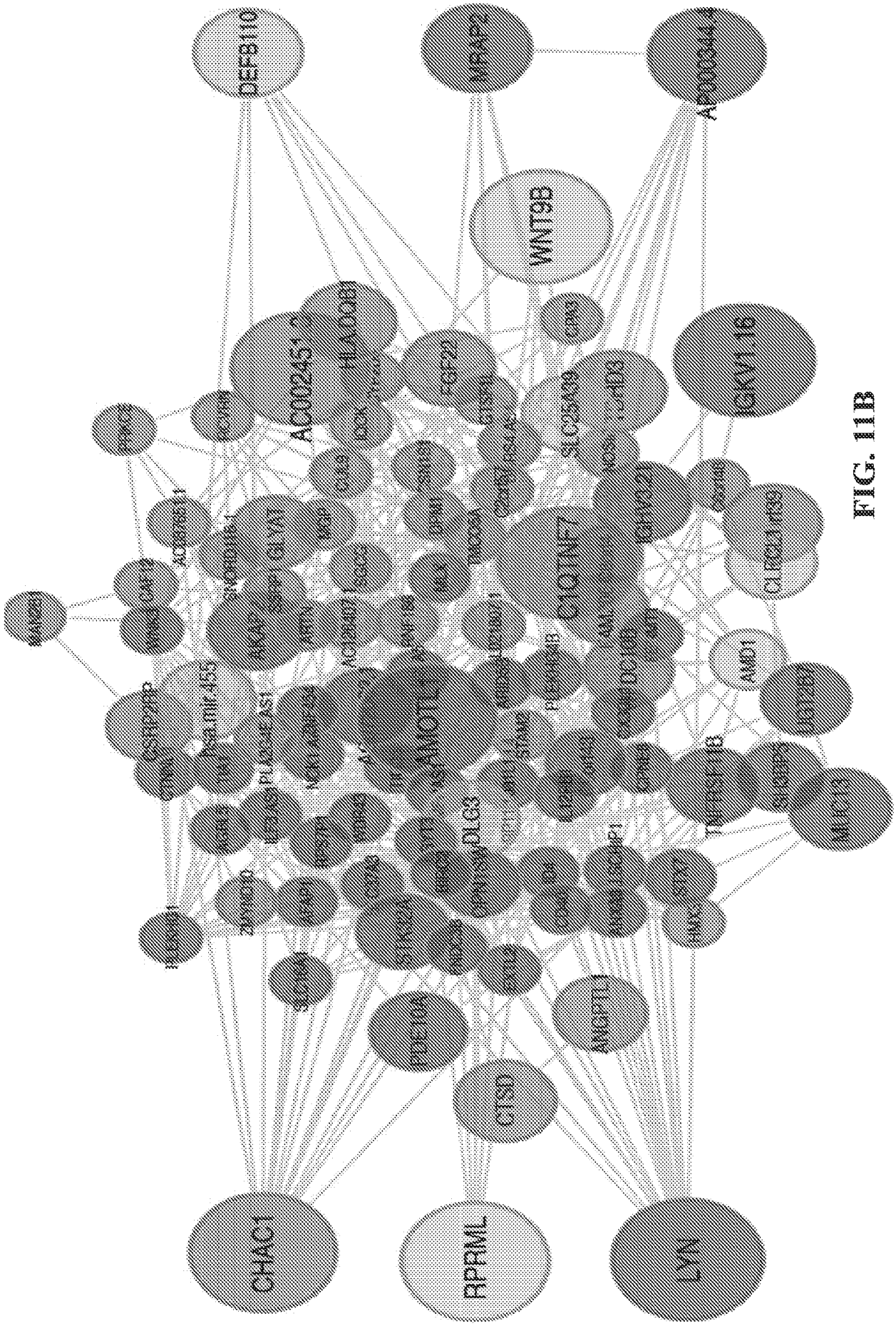
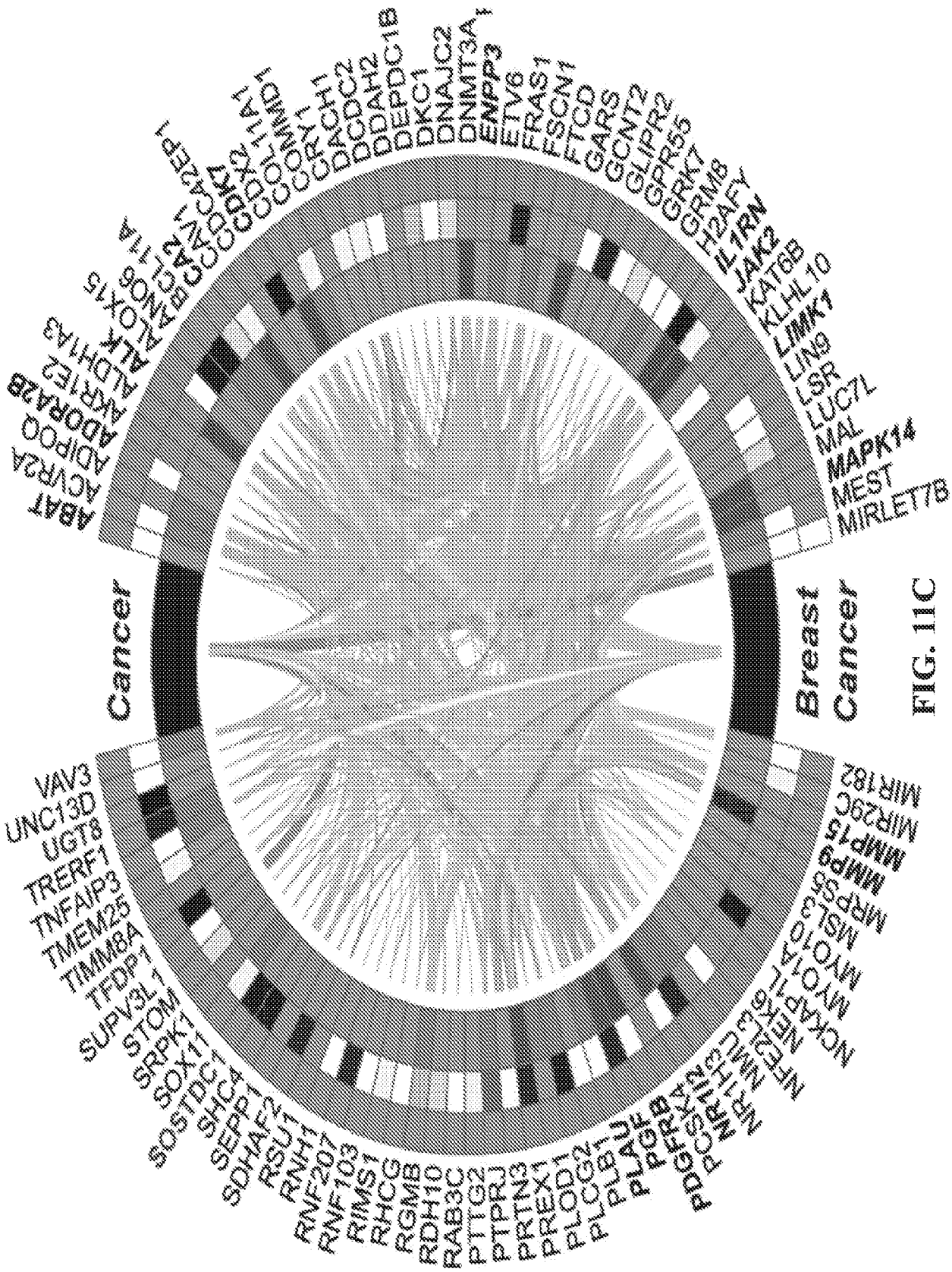
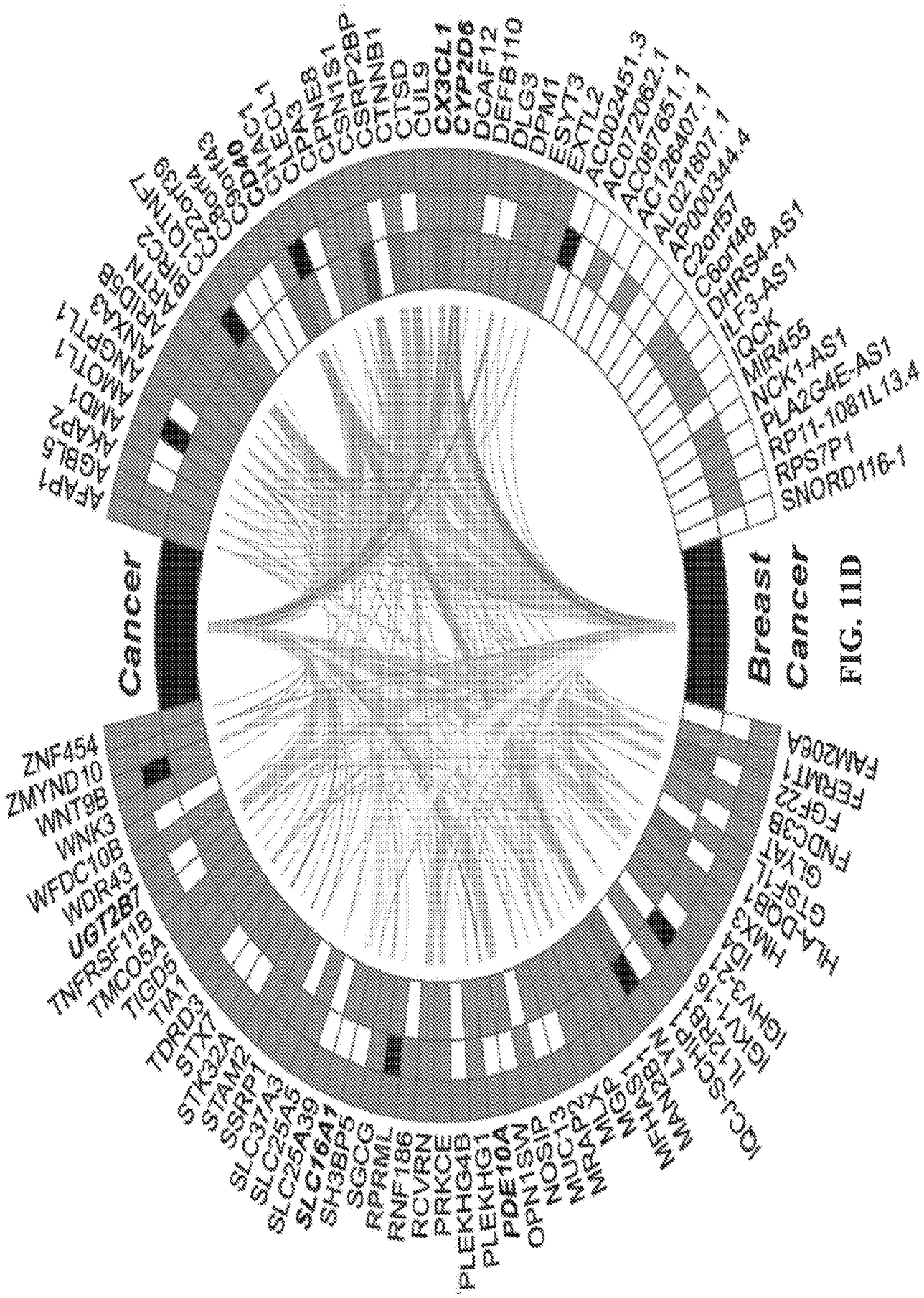

DEFB110
MRAP2
WNT9B
IGKV1-16
CHAC1
RPRML
LYN
CTSD
ANGPTL1
AMOTL2
DLG3
C1QTNF7
AMD1

FIG. 1B


Breast Cancer
Cancer
MIRLET7B
MEST
MAPK14
MAL
LUC7L
LSR
LIN9
LIMK1
KLHL10
KAT6B
JAK2
IL1RN
H2AFY
GRM8
GRK7
GPR55
GLIPR2
GCNT2
GARS
FTCD
FSCN1
FRAS1
ETV6
ENPP3
DNMT3A
DNAJC2
DDKC1
DDEPDC1B
DDDAH2
DDACDC2
CCDC71L
CCDC71
CCDC47
CCDC42B
CCDC3
CACNA2D3
AZGP1
ABAT
ACVR2A
ADIPOQ
ADORA2B
AKR1E2
ALDH1A3
ALK
ANXA13
ANXA2P2
ARHGAP9
ATP2B4
ATP8A1
ATXN7L3
AUTS2
B3GNT5
BAIAP2
BCL2L14
BMP2
BMP6
BRCA2
BTBD3
C10orf10
C10orf11
C10orf54
C11orf21
C11orf41
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C20orf171
C20orf172
C20orf173


Breast Cancer
Cancer
SNORD116-1
RPS7P1
RP11-1081L13.4
PLA2G4E-AS1
NCK1-AS1
MIR455
IOCK
ILF3-AS1
DHRS4-AS1
C6orf148
C20orf57
AP000344.4
AL021807.1
AC126407.1
AC087651.1
AC072062.1
AC002451.3
EXTL2
ESYT3
DPM1
DLG3
DEFB110
DCAF12
CYP20D6
CX3CL1
CUL9
CTSD
SRP2BP
SSNA1
RPAP3
TEP1
C5AR1
CCL4
AFAP1
AGBL5
AMD1
ANGPTL7
ANXA8L2
ARHGAP24
ATP2B4
C5orf38
CCDC88B
CCDC92
CCDC97
CCDC99
CCDC102B
CCDC125
CCDC141
CCDC144B
CCDC146
CCDC148
CCDC149
CCDC150
CCDC152
CCDC153
CCDC154
CCDC155
CCDC157
CCDC158
CCDC159
CCDC160
CCDC161
CCDC162P
CCDC163P
CCDC164P
CCDC165
CCDC166
CCDC167
CCDC168
CCDC169
CCDC170
CCDC171
CCDC172
CCDC173
CCDC174
CCDC175
CCDC176
CCDC177
CCDC178
CCDC179
CCDC180
CCDC181
CCDC182
CCDC183
CCDC184
CCDC185
CCDC186
CCDC187
CCDC188
CCDC189
CCDC190
CCDC191
CCDC192
CCDC193
CCDC194
CCDC195
CCDC196
CCDC197
CCDC198
CCDC199
CCDC200
CCDC201
CCDC202
CCDC203
CCDC204

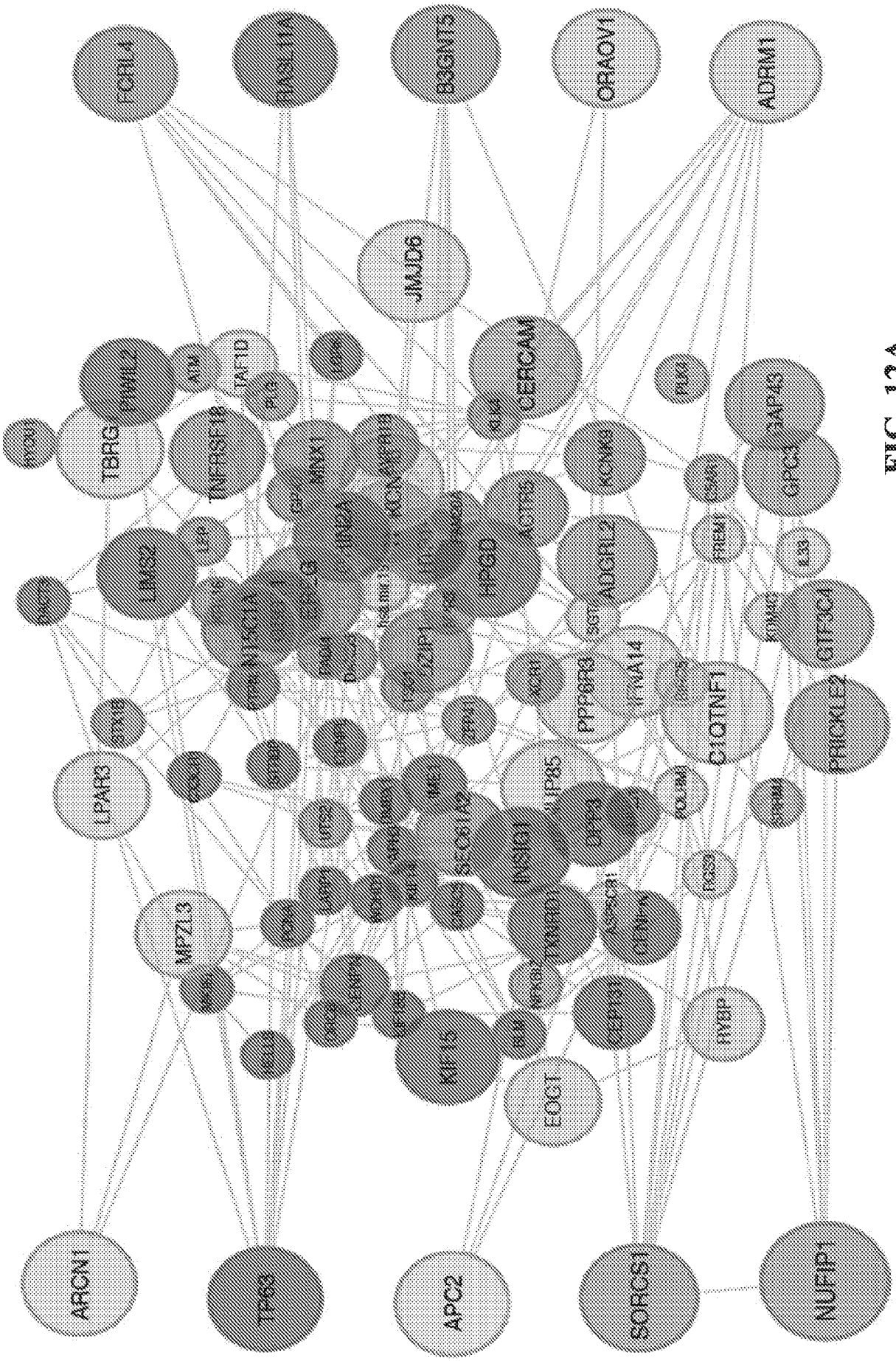

FCHL4
RASL11A
B3GNT5
ORAOV1
ADRM1
JMJD6
CERCAM
TBRG
TNFRSF1B
TAF1D
LMO2
HPGD
LPAR3
MFZL3
EOGT
ARCN1
TP53
APC2
SCRCS1
NUFIP1
C1QTNF1
PHOSPHO1
GTF3C4
GAP43
CPC3
ADGRL2
PPP6R3
IRAK4
MIR1
IRX1
IRX2
IRX3
IRX5
IRX6
MIR15A
MIR15B
MIR16-1
MIR16-2
MIR195
MIR424
MIR497
MIR503
MIR16-1
MIR16-2
MIR195
MIR424
MIR497
MIR503

FIG. 12A

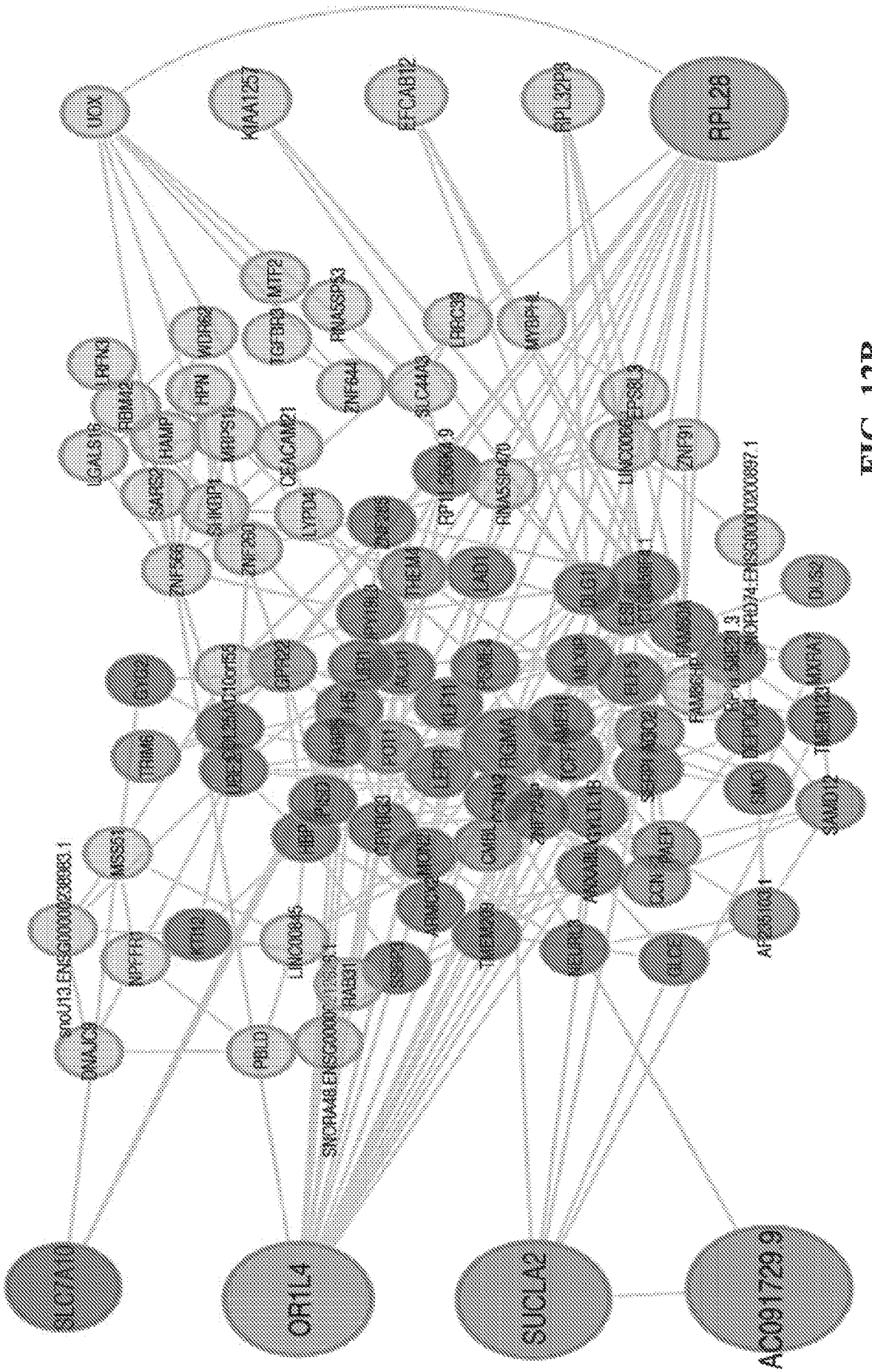


FIG. 12B

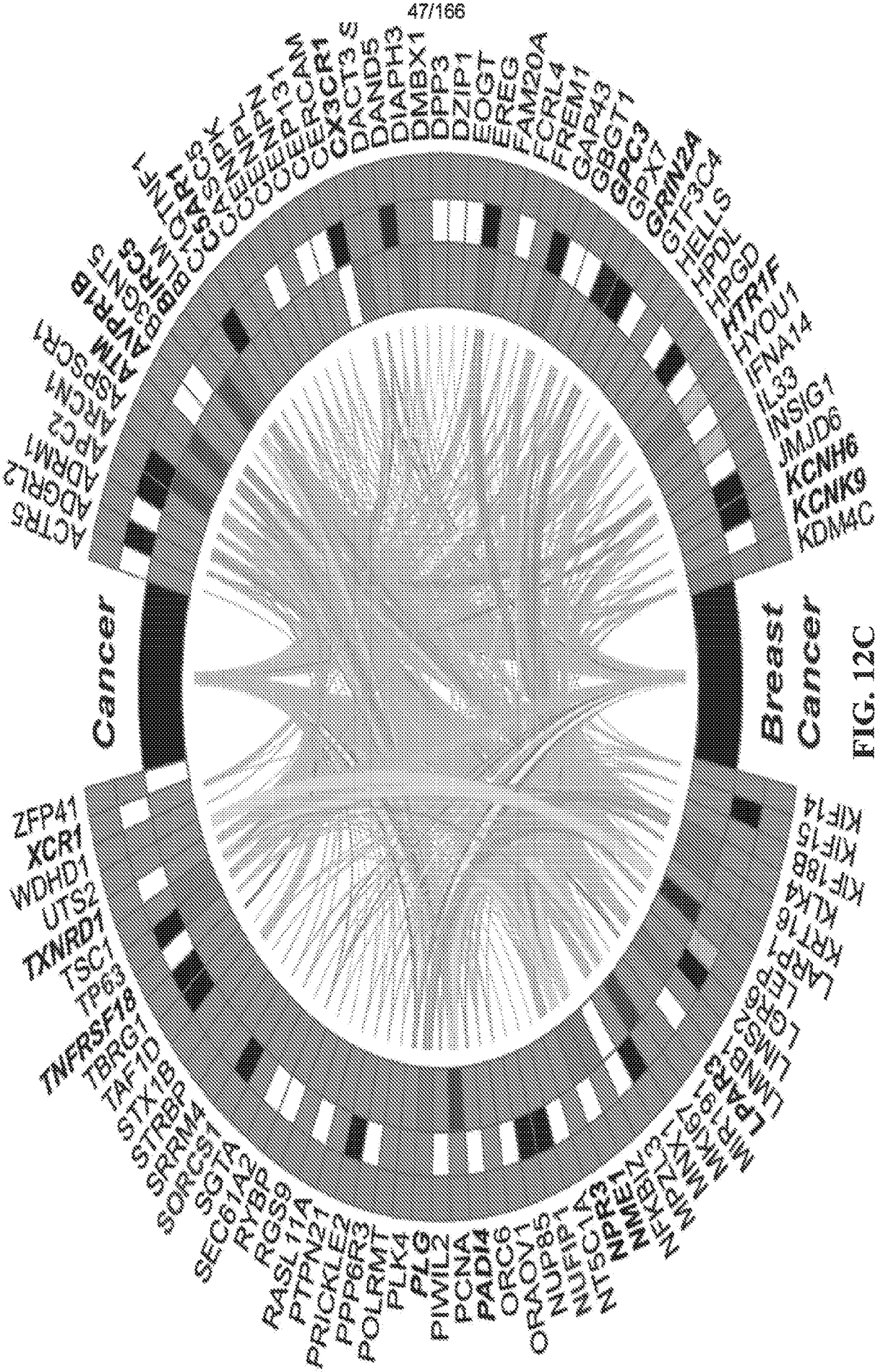

Breast Cancer
Cancer
KDM4C
KCNK9
KCNH6
JMJD6
INSIG1
IL33
IFNA14
HYOU1
HTR1F
HPGD
HPDL
HELLS
GTF3C4
GRIN2A
GPX7
GPC3
GBGT1
FLCN
FLCRL4
FEM1
FAM20A
EREG
EOGT
DZIP1
DPP3
DMBX1
DIAPH3
DDAND5
DCAF3
CAM
RCR1
ACTR5
ADGRL2
ADORM1
AP3C2
ARCN1
ASPSCR1
ATM
BRIP1
C5ORF15
CCDC36
CCDC57
CEP72
CHD4
CLNT1
CNNM2
CPSF3L
CSNK1G3
CTBP2
CTNNA1
DCTN2
DNAJC13
DOCK7
DPP8
DYNC1I2
EIF3K
ELP2
ERCC6L
EXOSC8
FAM83D
FBXO11
FBXO28
FBXW4
FNBP1
FOXK2
GAPVD1
GGA2
GNB1
GNL3
GOLGA4
GPATCH8
HAUS6
HDAC7
HECTD1
HIP1R
HNRNPA3
HNRNPD
HNRNPL
HNRNPM
HSPA4
IFT20
IGF2R
INTS1
INTS3
INTS6
IPO7
KAT6A
KIAA0556
KIAA1033
KIAA1109
KIAA1671
KIF14
KIF15
KIF18B
KLHL9
KRT15
LARP4B
LIN37
LMNB2
LRPPRC
MAP4
MAPRE1
MED13L
MED14
MED23
MFN2
MIB1
MPRIP
NBEA
NCOR1
NEK9
NFE2L2
NIPBL
NOP58
NUP160
NUP85
ORC6
PAPD4
PCNA
PIWIL2
PLK4
POLRMT
PPP6R3
PRICKLE2
PTPN21
RASL11A
RGS9
RYBP
SEC61A2
SGTA
SORCS1
SRRM4
STRBP
STX16
TAF1D
TBRG1
TNFRSF18
TP63
TSC1
TXNRD1
UTS2
WDHD1
XCR1
ZFP41

FIG. 12C

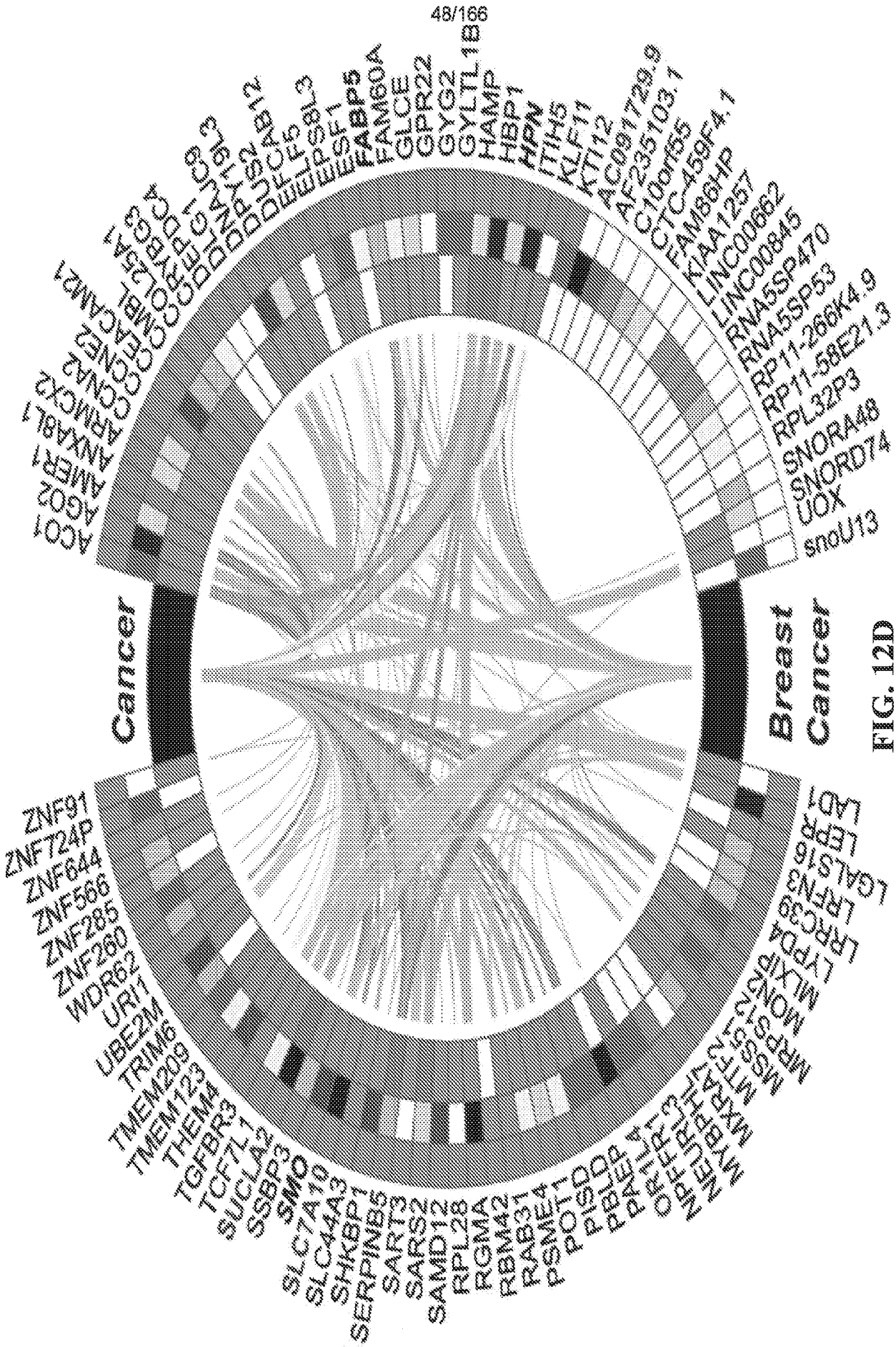

48/166
Cancer
Breast Cancer
snoU13
UOX
SNORD74
SNORA48
RPL32P3
RP11-58E21.3
RP11-266K4.9
RNA5SP53
RNA5SP470
LINC00845
LINC00662
KIAA1257
FAM66HP
CTC-459F4.1
C10orf55
AF235103.1
AC091729.9
KLF11
ITIH5
HPN
HBP1
HAMP
GYLTL1B
GYG2
GPR22
GLCE
FAM60A
FABP5
ZNF91
ZNF724P
ZNF644
ZNF566
ZNF285
ZNF260
WDR62
URI1
UBE2M
TRIM6
TMEM209
TMEM123
THEM4
TGFBR3
TCF7L1
SUCLA2
SSBP3
SMO
SLC7A10
SLC44A3
SHKBP1
SERPINB5
SART3
SARS2
SAMD12
RPL28
RGMA
RBM42
RAB37
PSMB7
POLR2D
PBX4
PAIP1
OFCC1
NFE2L3
MXRA8
MRPS6
MON2
LYPD4
LRRC39
LGALS12
LEPR
LAD1

FIG. 12D

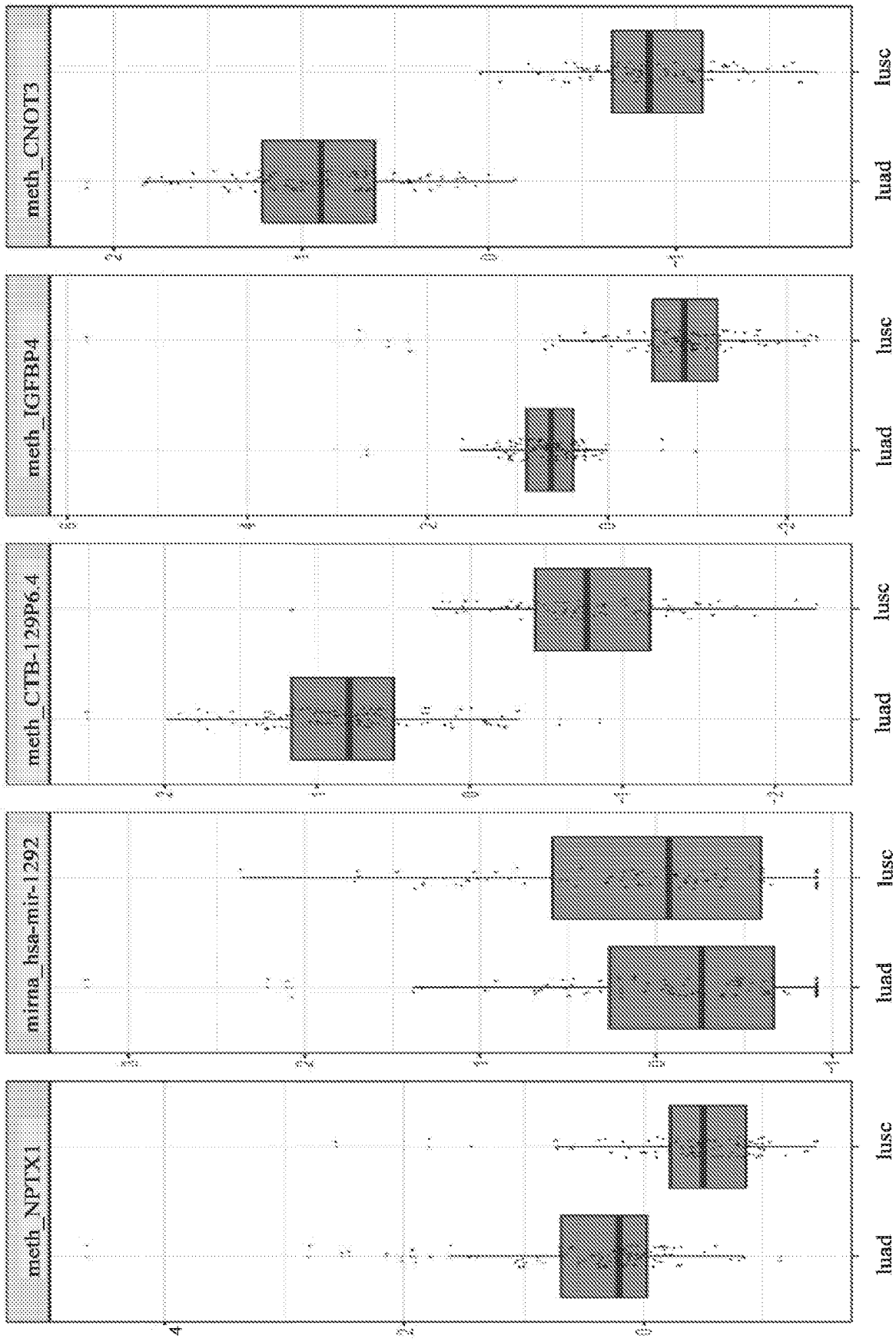

meth_CNOT3
meth_IGFBP4
meth_CTB-129P6.4
mirna_hsa-mir-1292
meth_NPTX1
luad
lusc

FIG. 13A

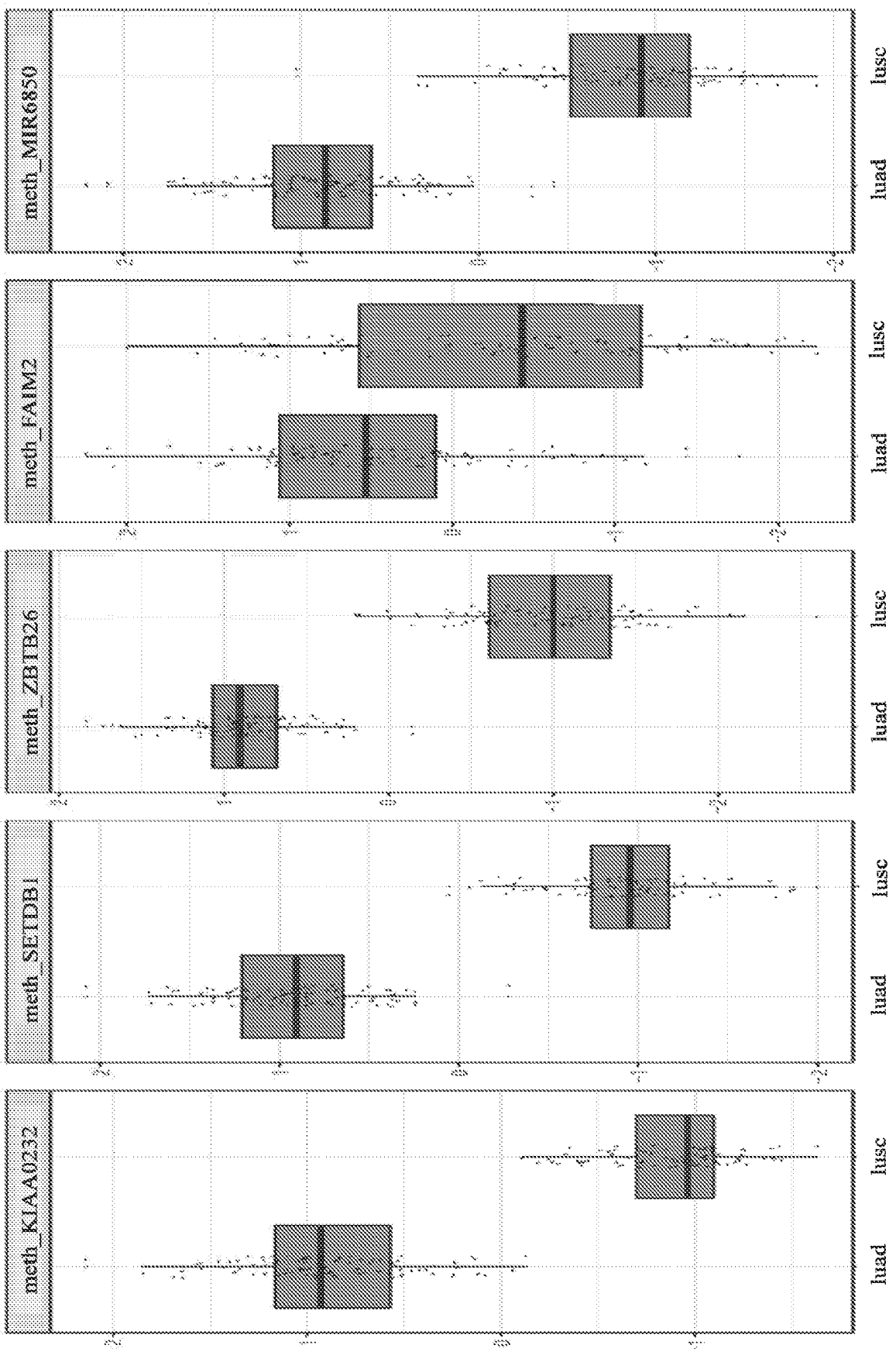

meth_MIR6850
meth_FAIM2
meth_ZBTB26
meth_SETDB1
meth_KIAA0232
luad
lusc

FIG. 13A (cont.)

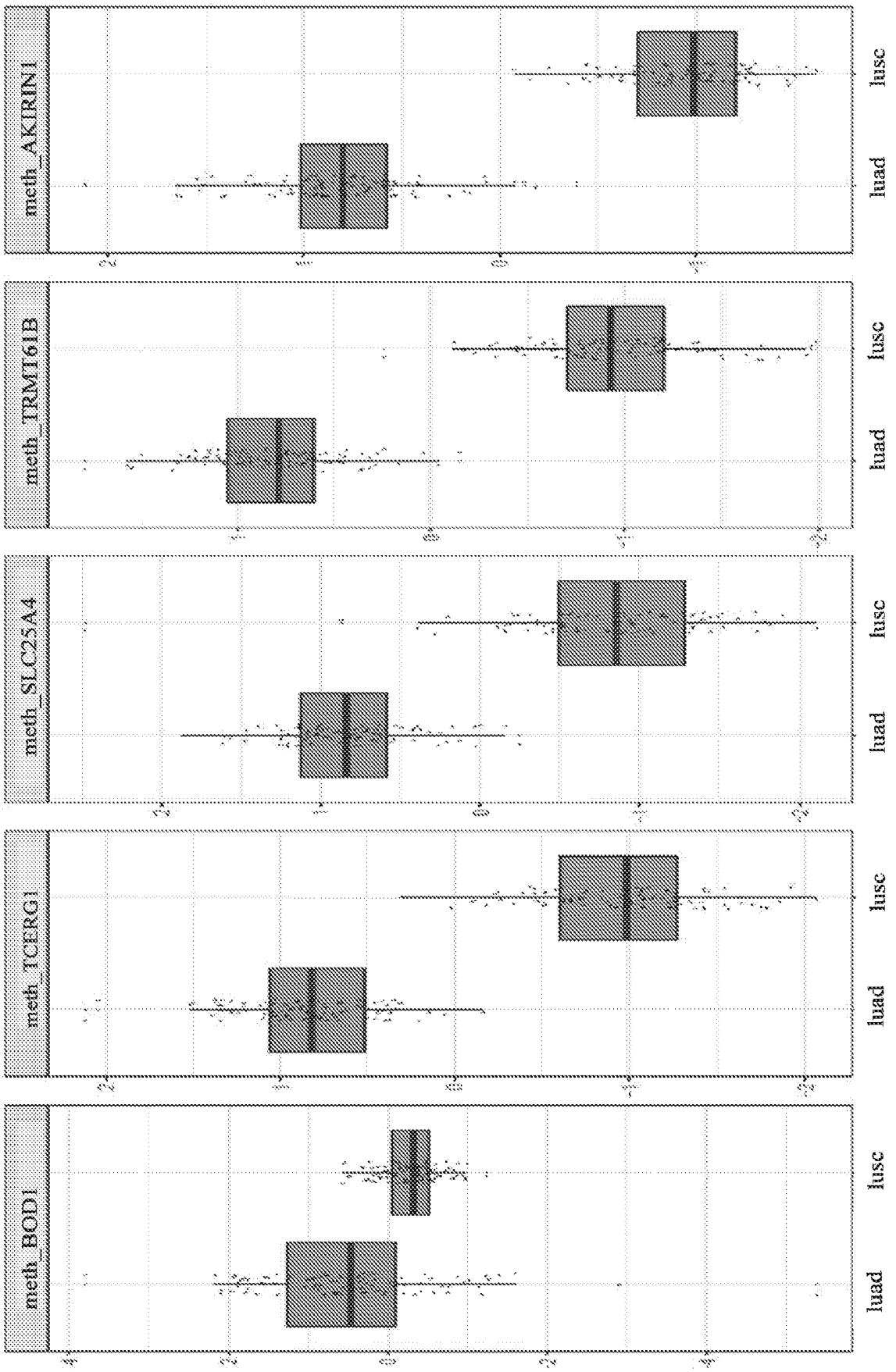

meth_AKIRIN1
meth_TRMT61B
meth_SLC25A4
meth_TCERG1
meth_BOD1
luad
lusc

FIG. 13A (cont.)

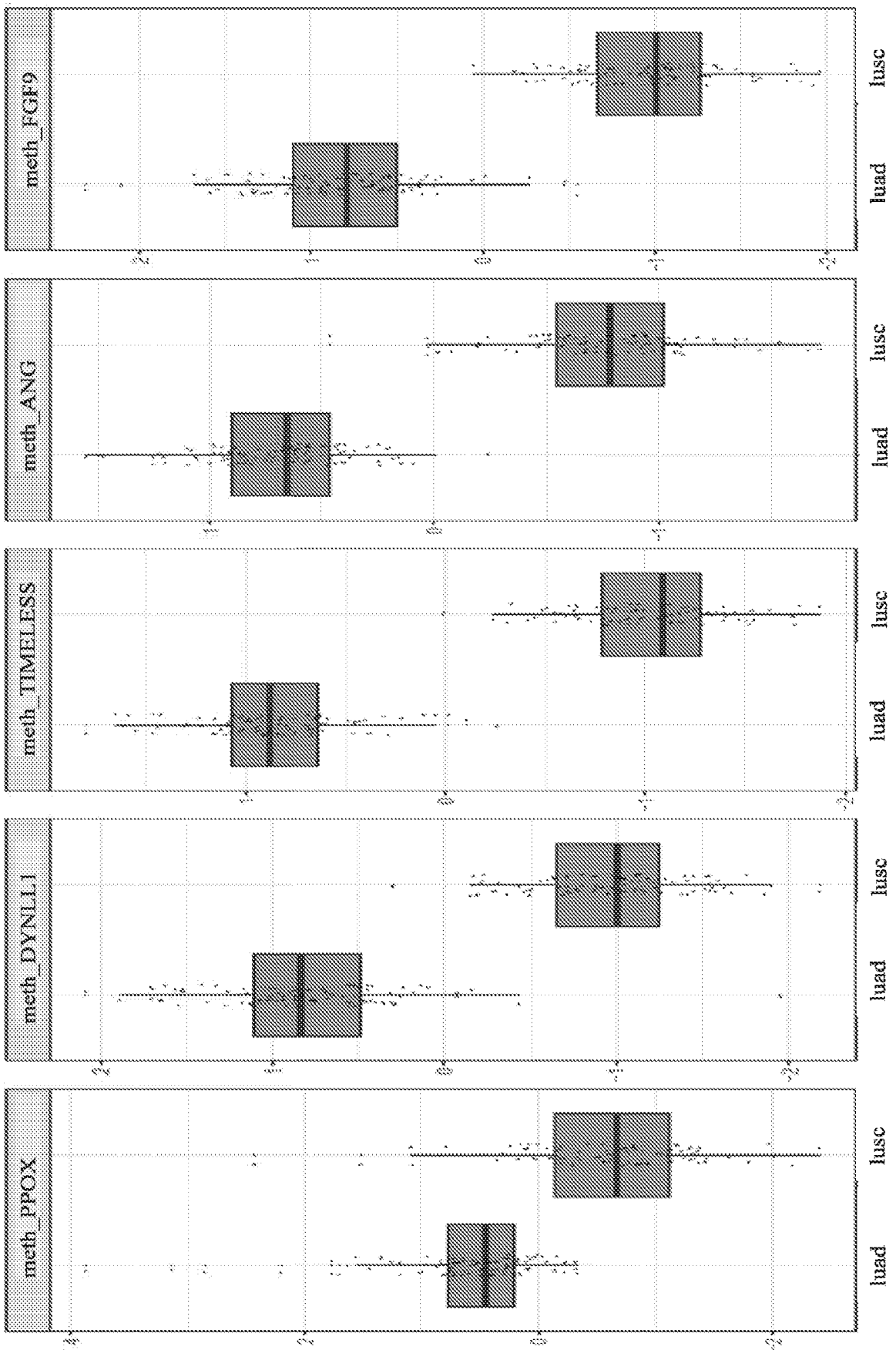

meth_FGF9
meth_ANG
meth_TIMELESS
meth_DYNLL1
meth_PPOX
luad
lusc

FIG. 13A (cont.)

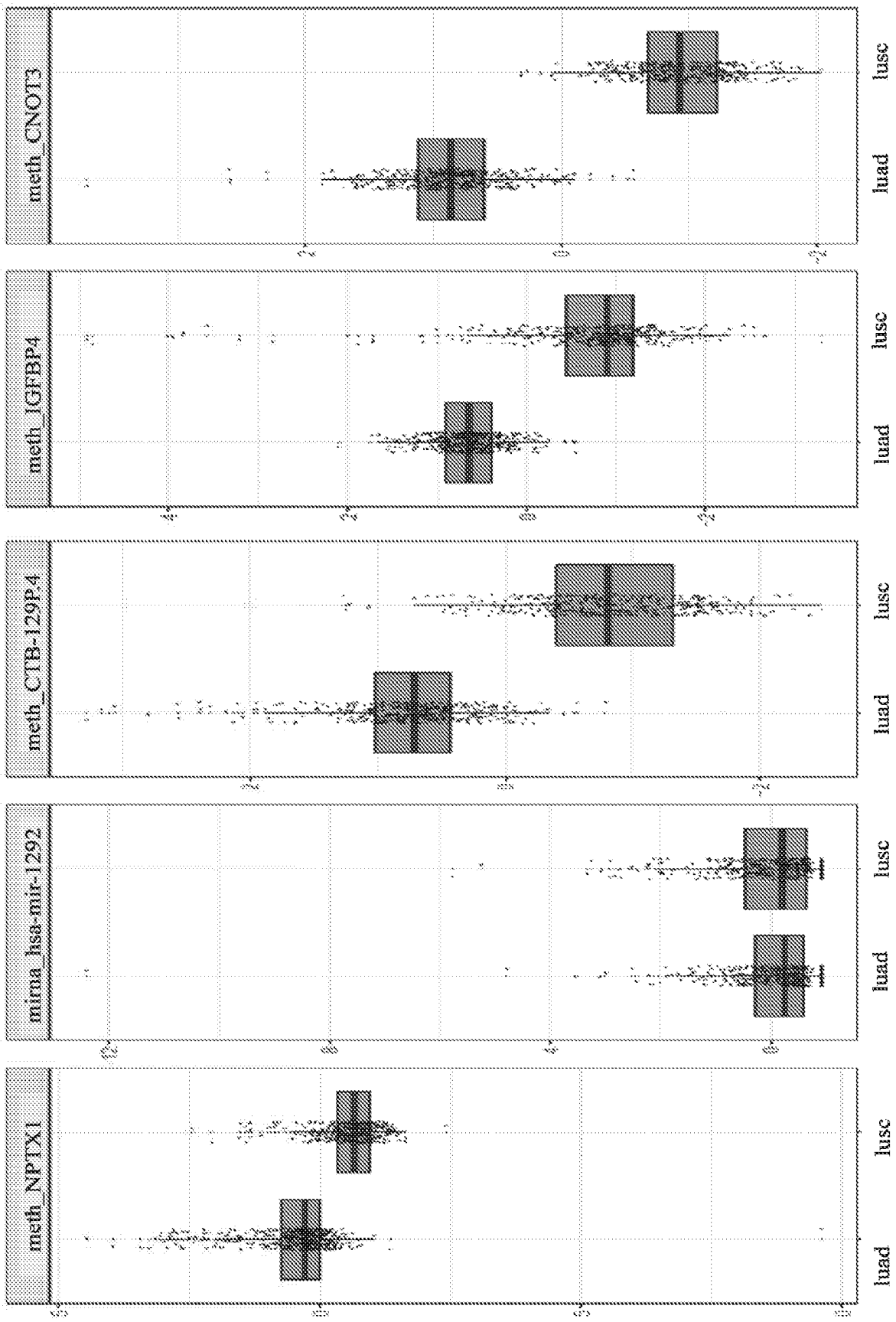

meth_CNOT3
meth_IGFBP4
meth_CTB-129P4
mirna_hsa-mir-1292
meth_NPTX1
lusc
luad

FIG. 13B

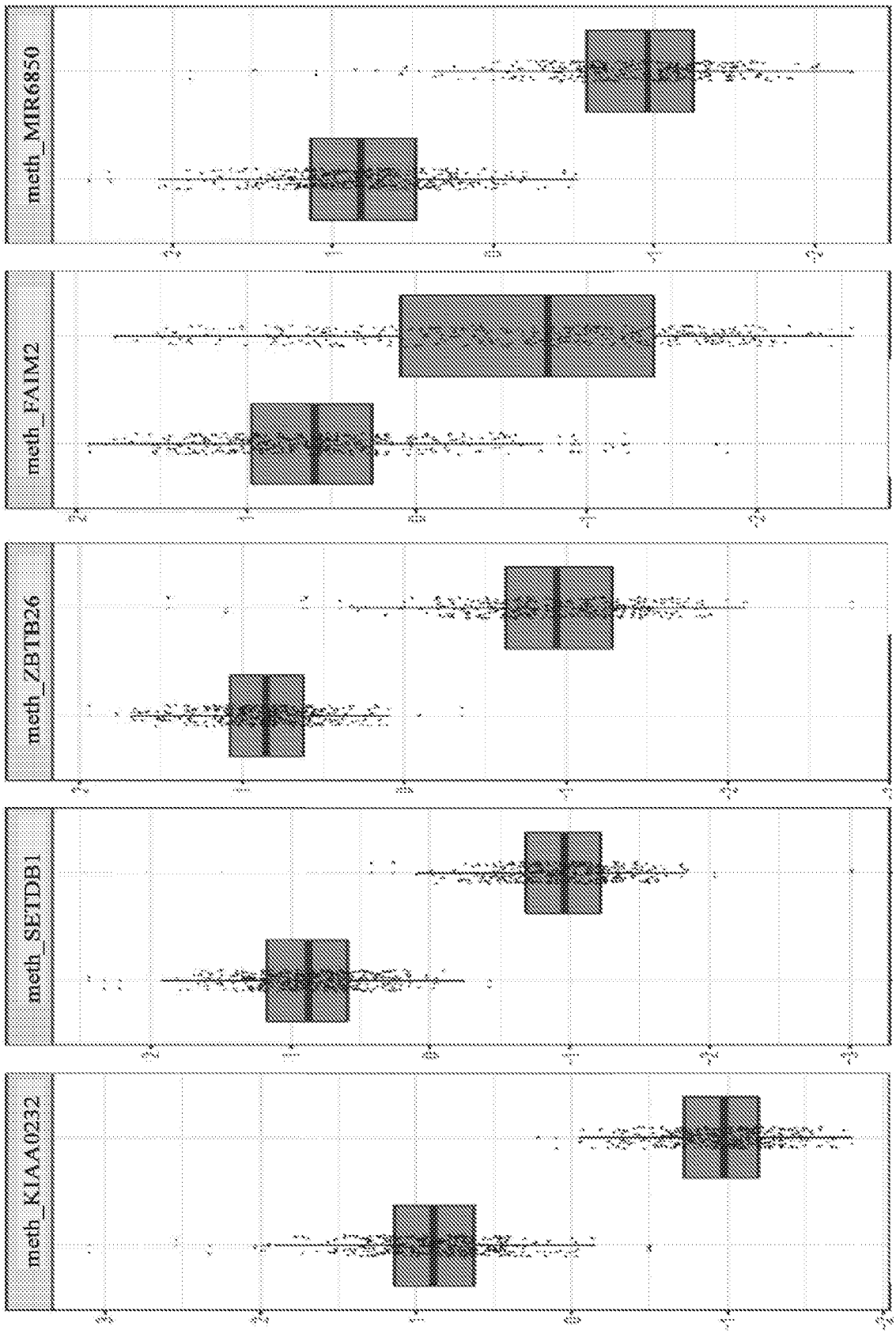

meth_MIR6850
meth_FAIM2
meth_ZBTB26
meth_SETDB1
meth_KIAA0232
luad
lusc

FIG. 13B (cont.)

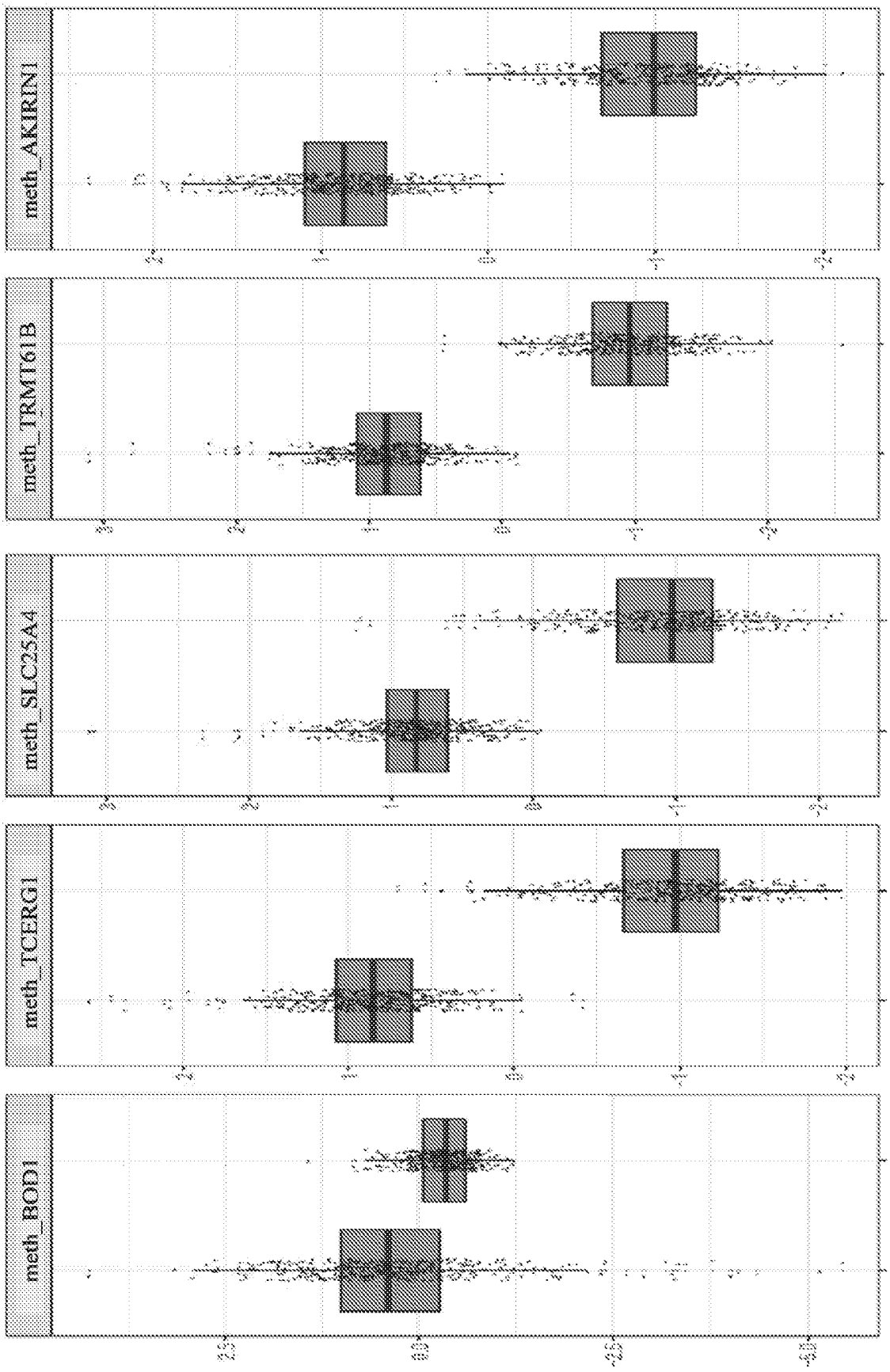

meth_AKIRIN1
meth_TRMT61B
meth_SLC25A4
meth_TCERG1
meth_BOD1
luad
lusc

FIG. 13B (cont.)

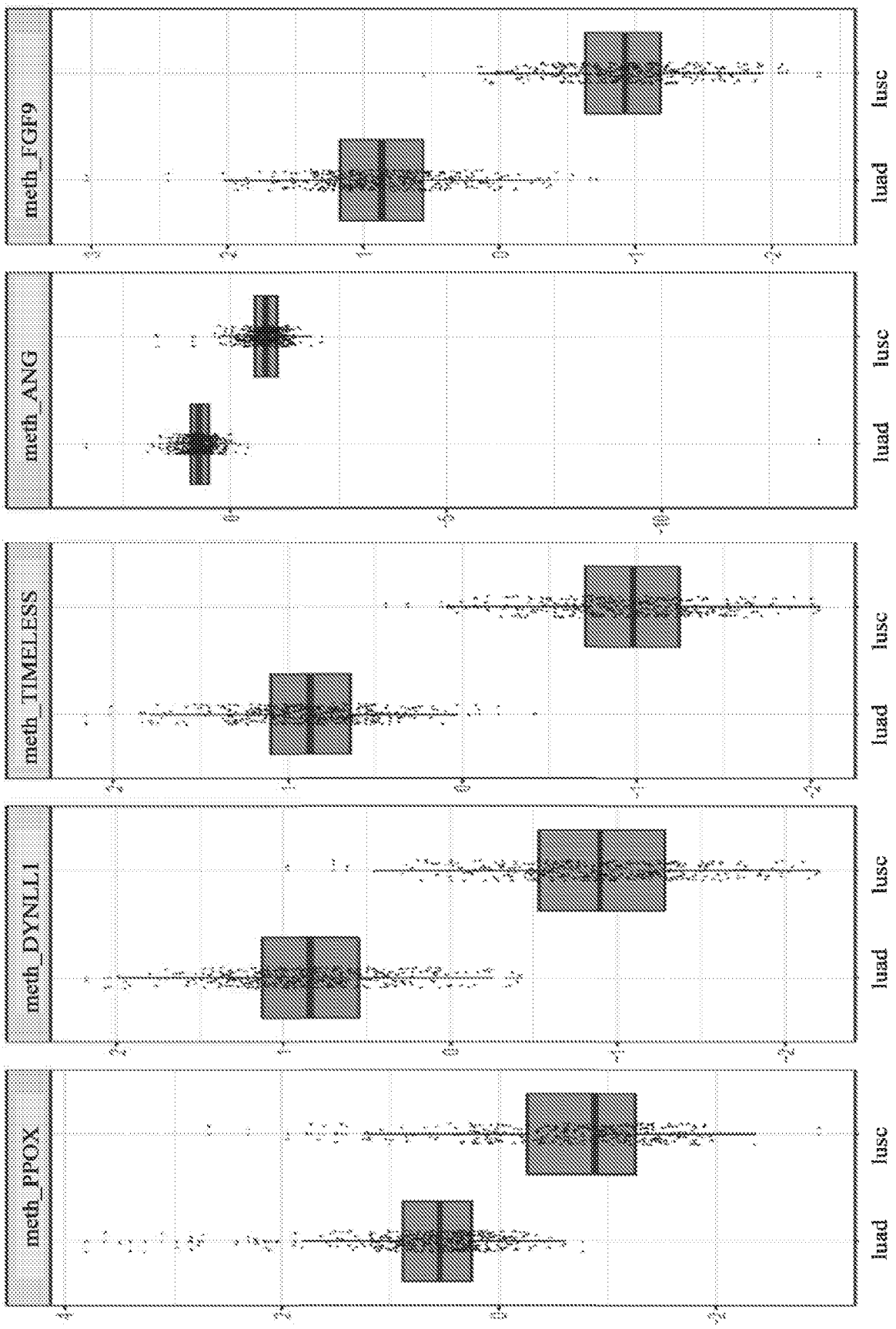

meth_FGF9
meth_ANG
meth_TIMELESS
meth_DYNLL1
meth_PPOX
luad
lusc

FIG. 13B (cont.)

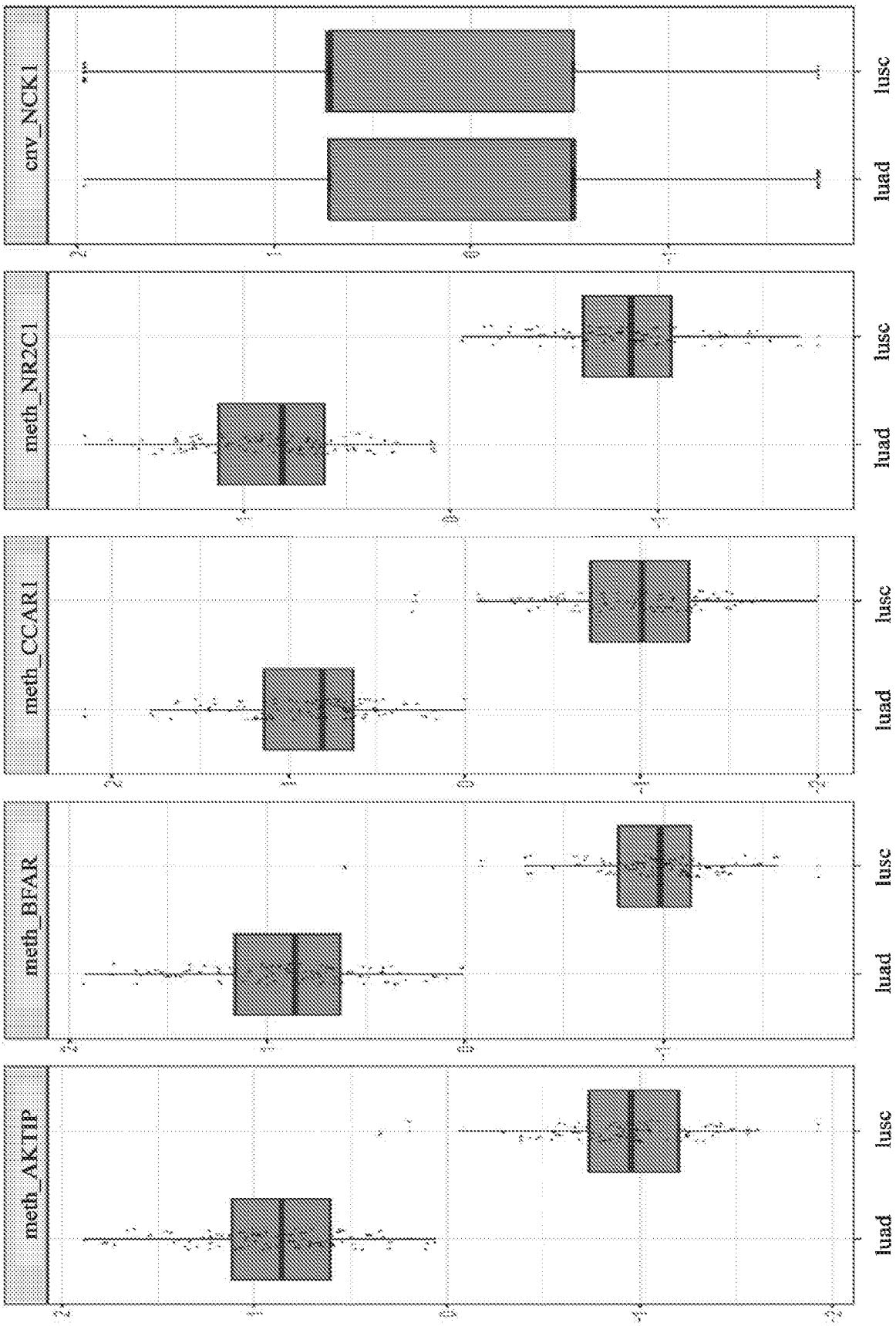

cnv_NCK1
meth_NR2C1
meth_CCAR1
meth_BFAR
meth_AKTIP
lusc
luad

FIG. 14A

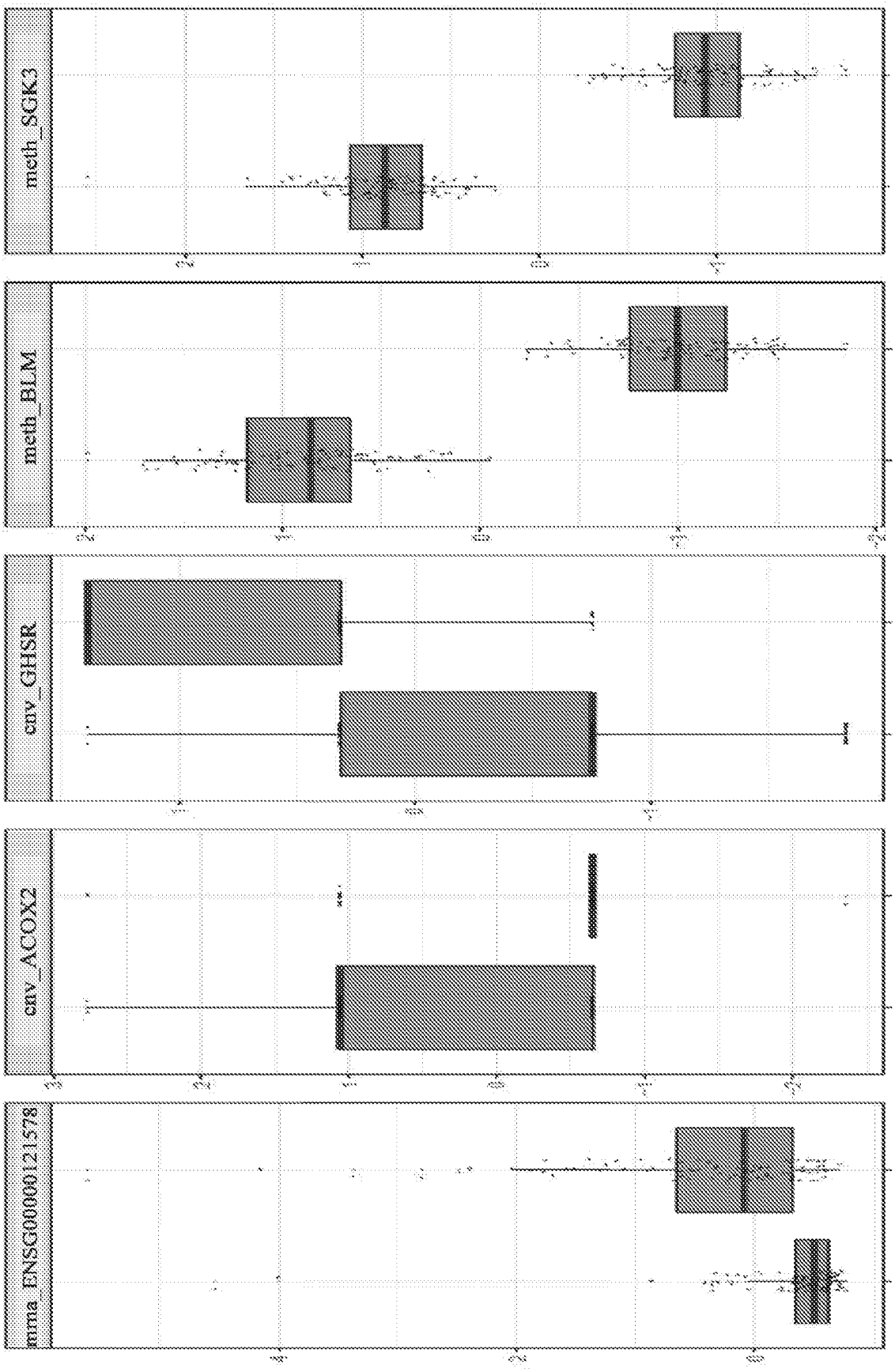

mrna_ENSG00000121578
cnv_ACOX2
cnv_GHSR
meth_BLM
meth_SGK3
luad
lusc

FIG. 14A (cont.)

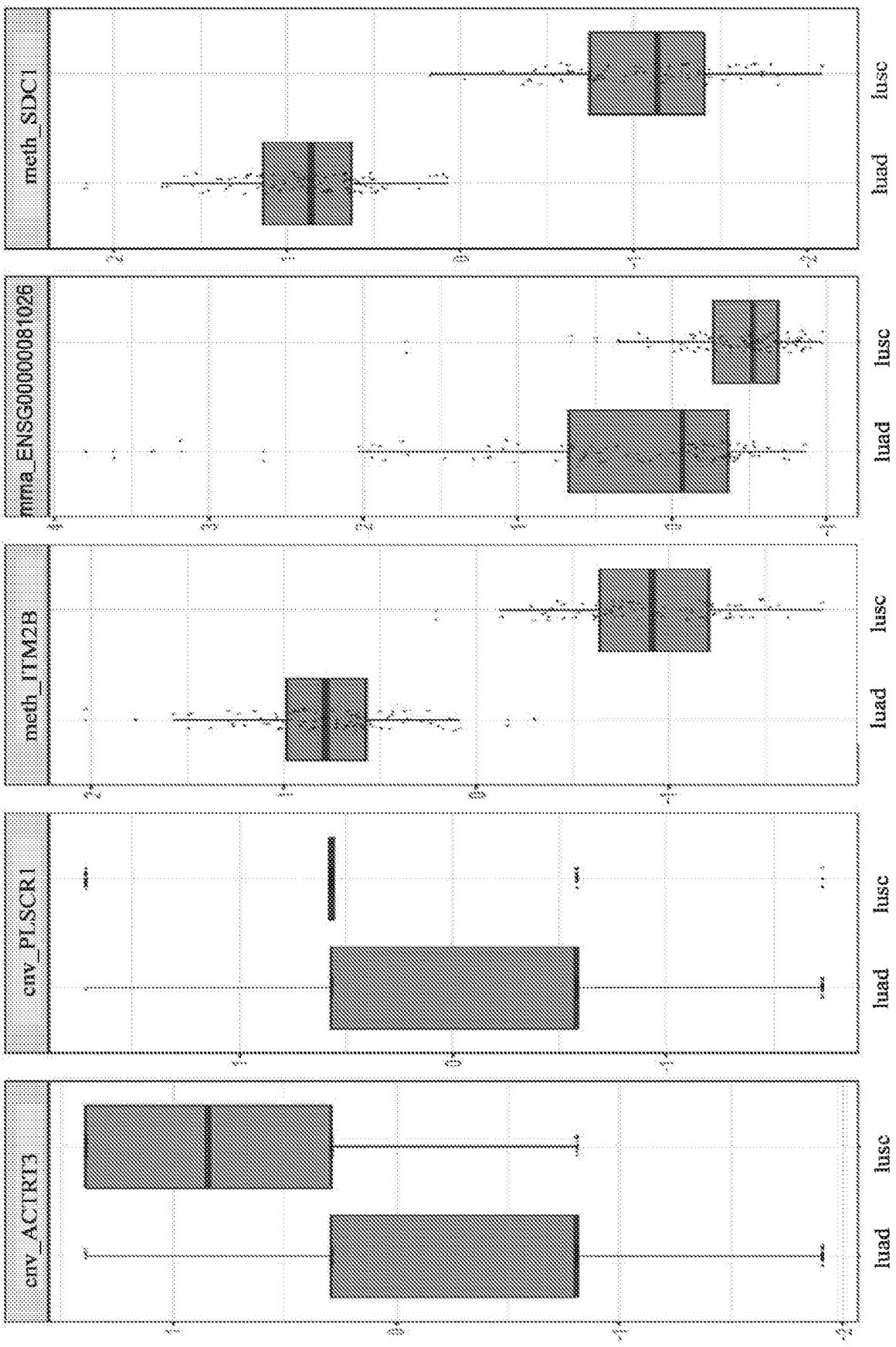

meth_SDC1
mma_ENSG00000081026
meth_ITM2B
cnv_PLSCR1
cnv_ACTRT3
luad
lusc

FIG. 14A (cont.)

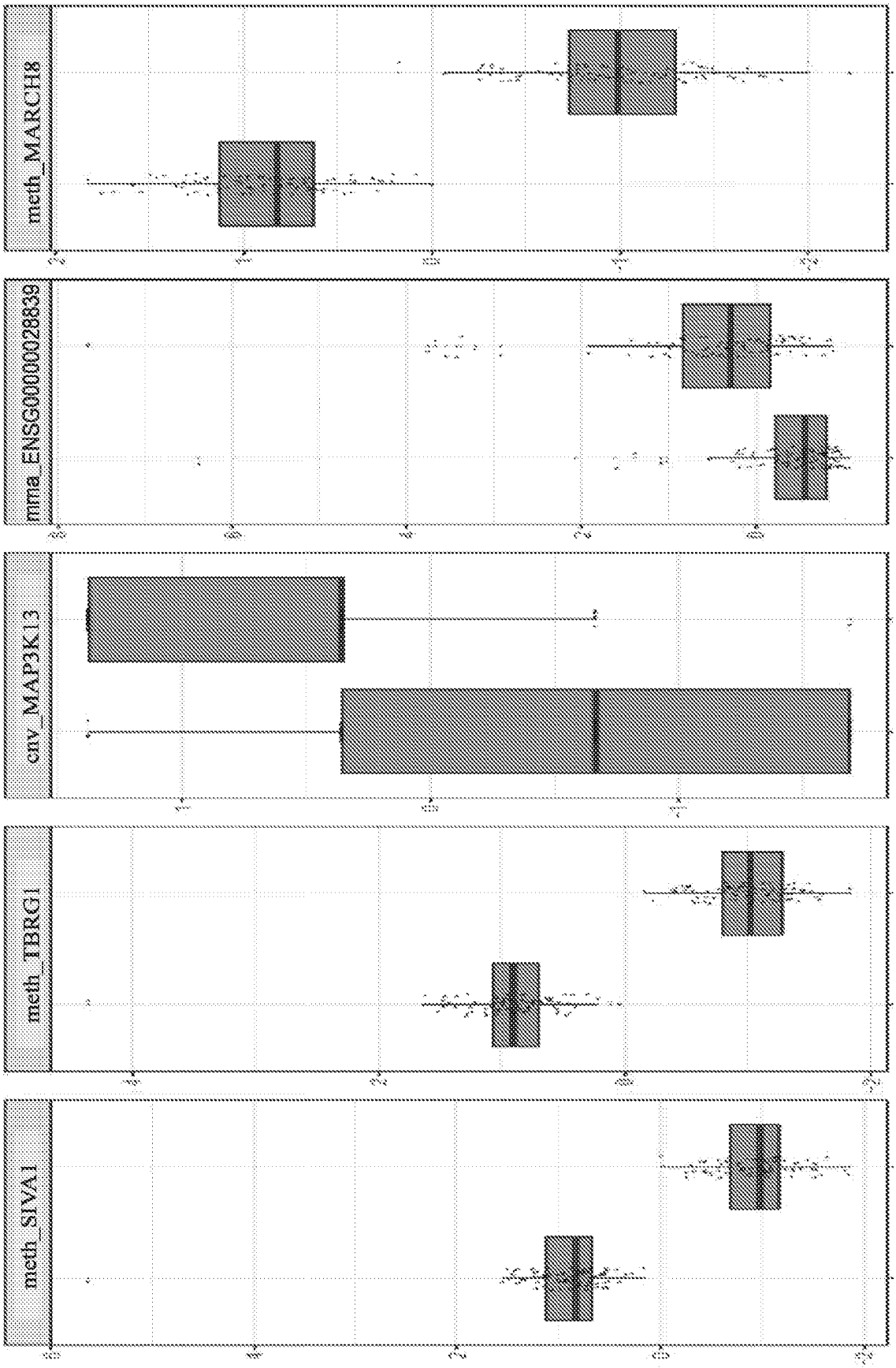

meth_MARCH8
mrna_ENSG00000028839
cnv_MAP3K13
meth_TBRG1
meth_SIVA1
luad
lusc

FIG. 14A (cont.)

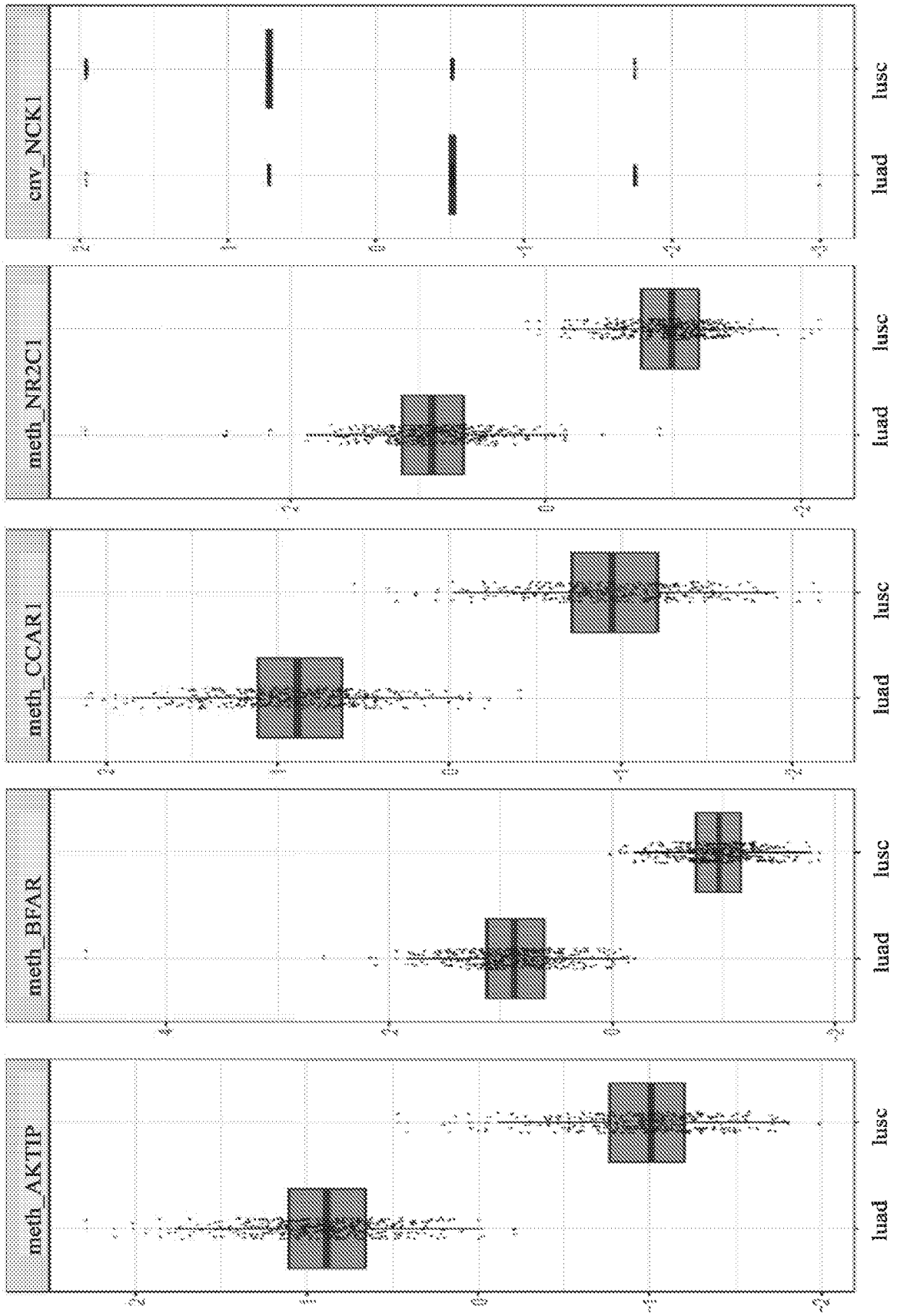

cnv_NCK1
meth_NR2C1
meth_CCAR1
meth_BPAR
meth_AKTIP
lusc
luad

FIG. 14B

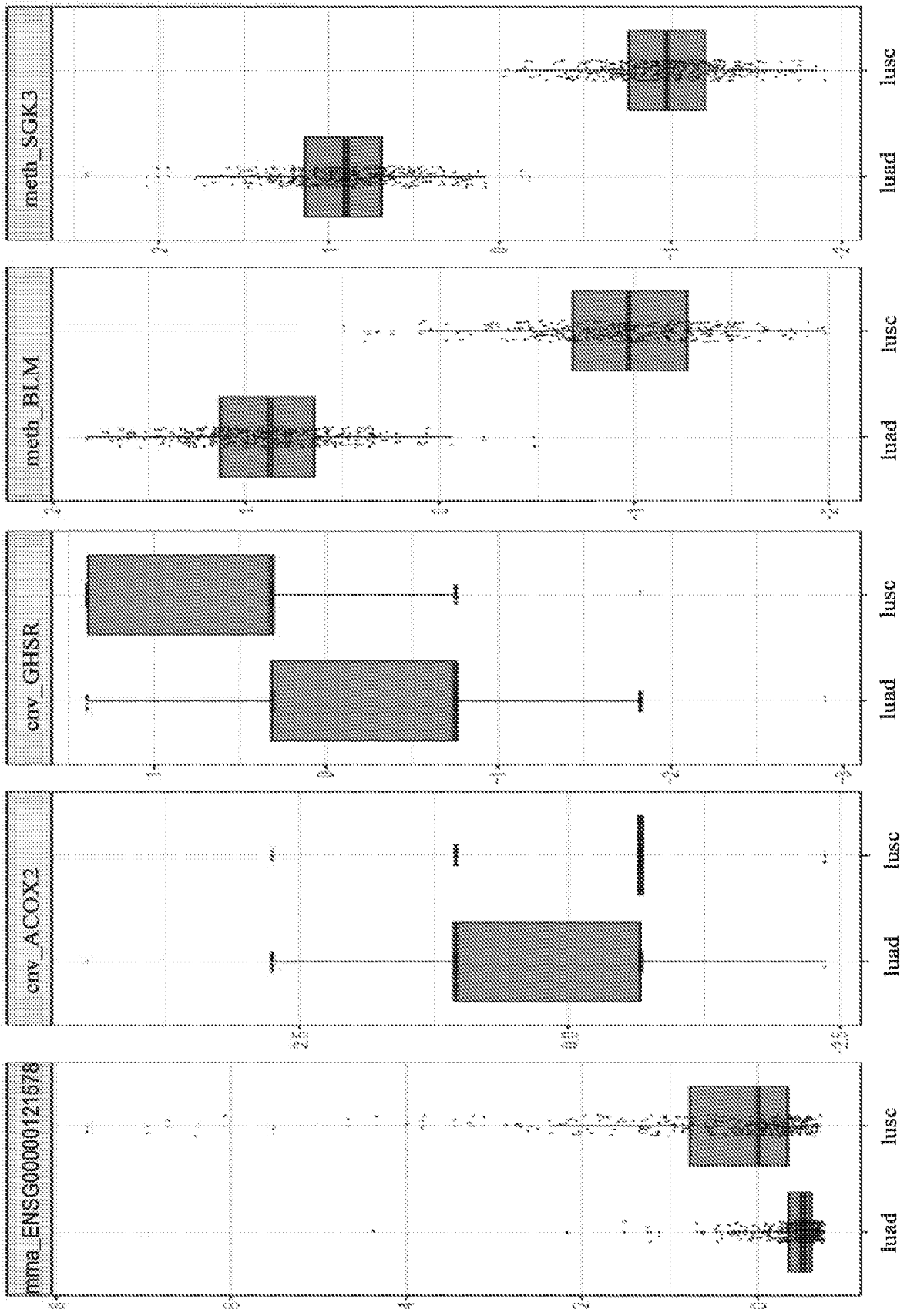

meth_SGK3
luad
lusc
meth_BLM
luad
lusc
cnv_GHSR
luad
lusc
cnv_ACOX2
luad
lusc
mrna_ENSG00000121578
luad
lusc

FIG. 14B (cont.)

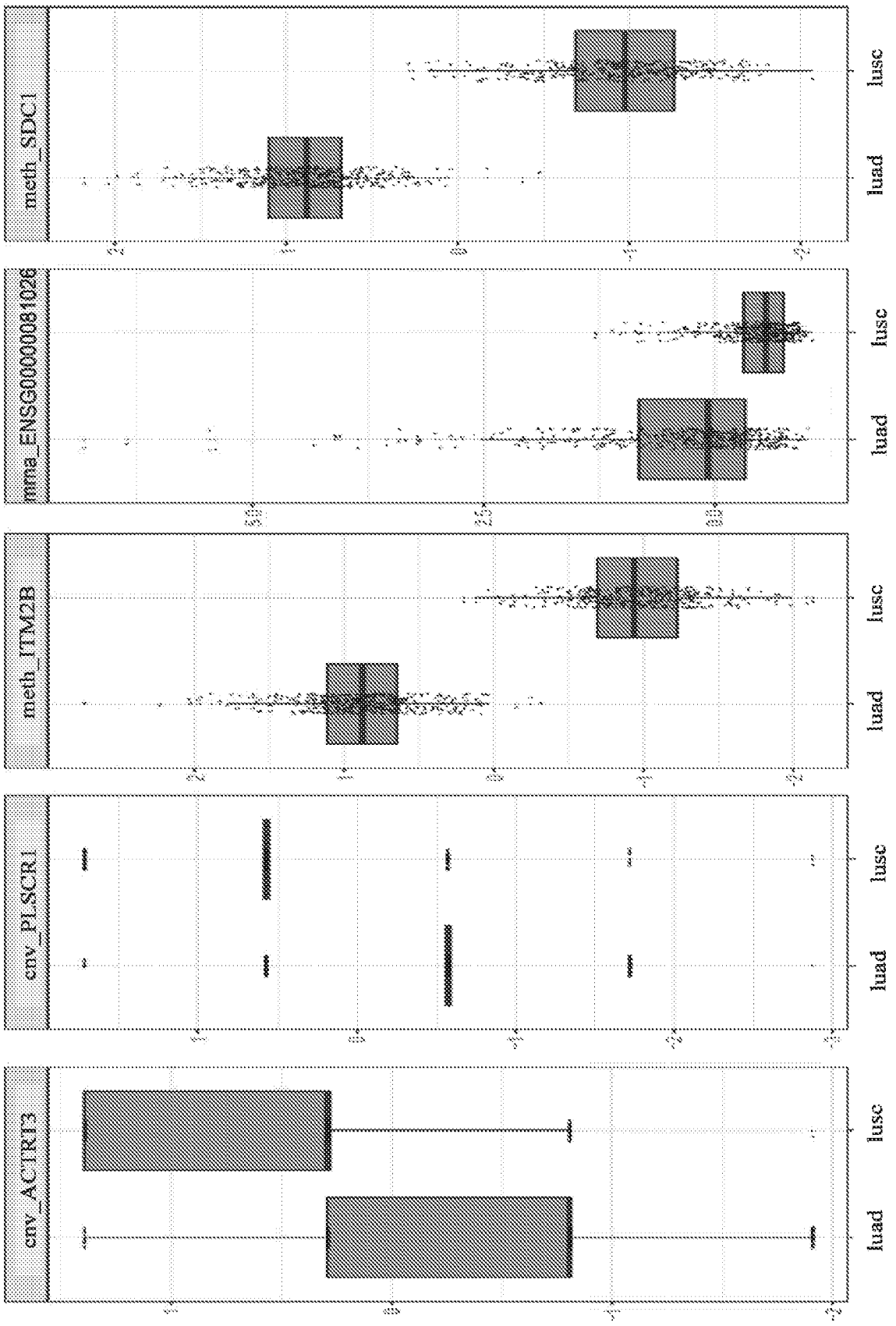

meth_SDC1
mrna_ENSG00000081026
meth_ITM2B
cnv_PLSCR1
cnv_ACTRT3
lusc
luad

FIG. 14B (cont.)

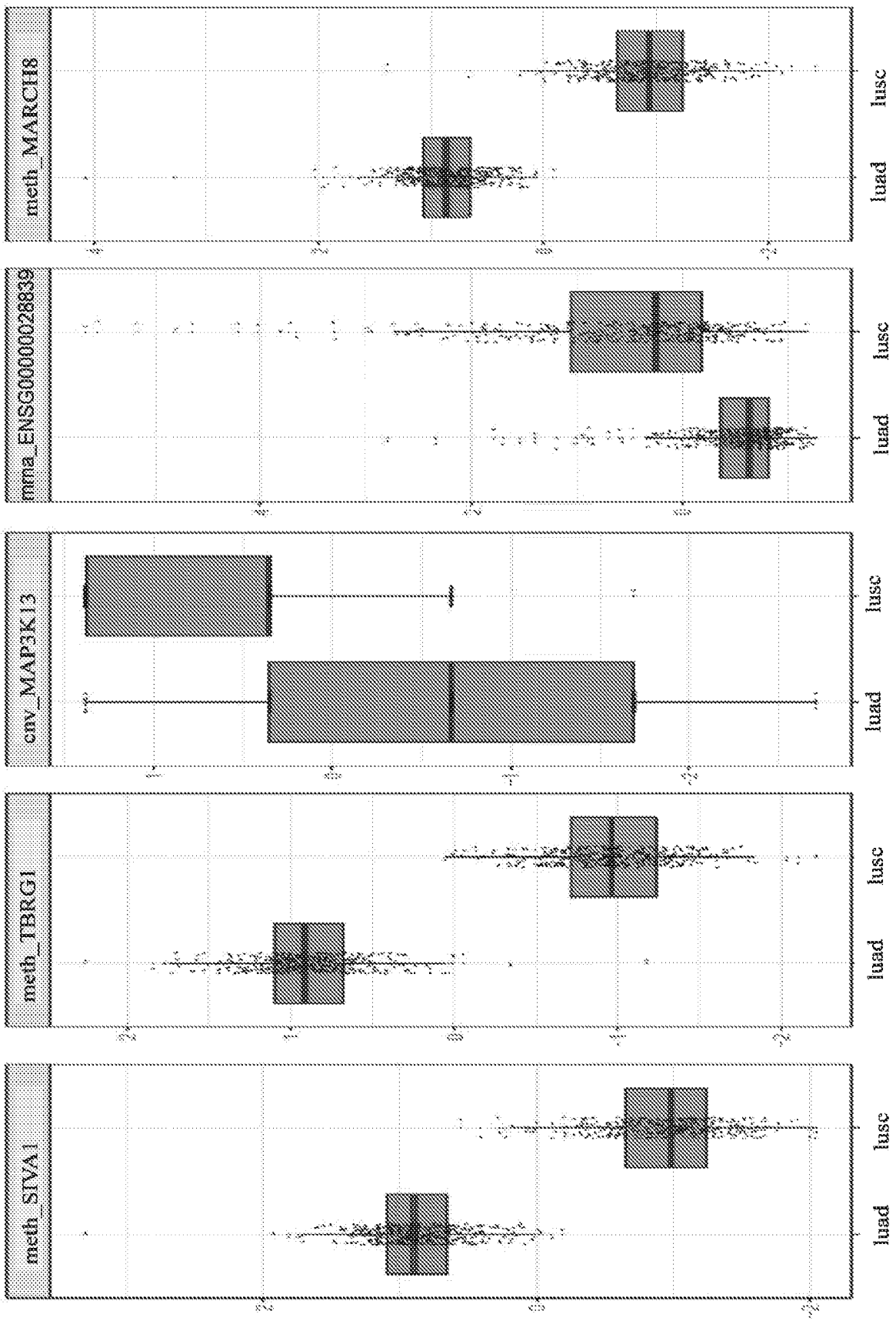

meth_MARCH8
mrna_ENSG00000028839
cnv_MAP3K13
meth_TBRG1
meth_STVA1
lusc
luad

FIG. 14B (cont.)

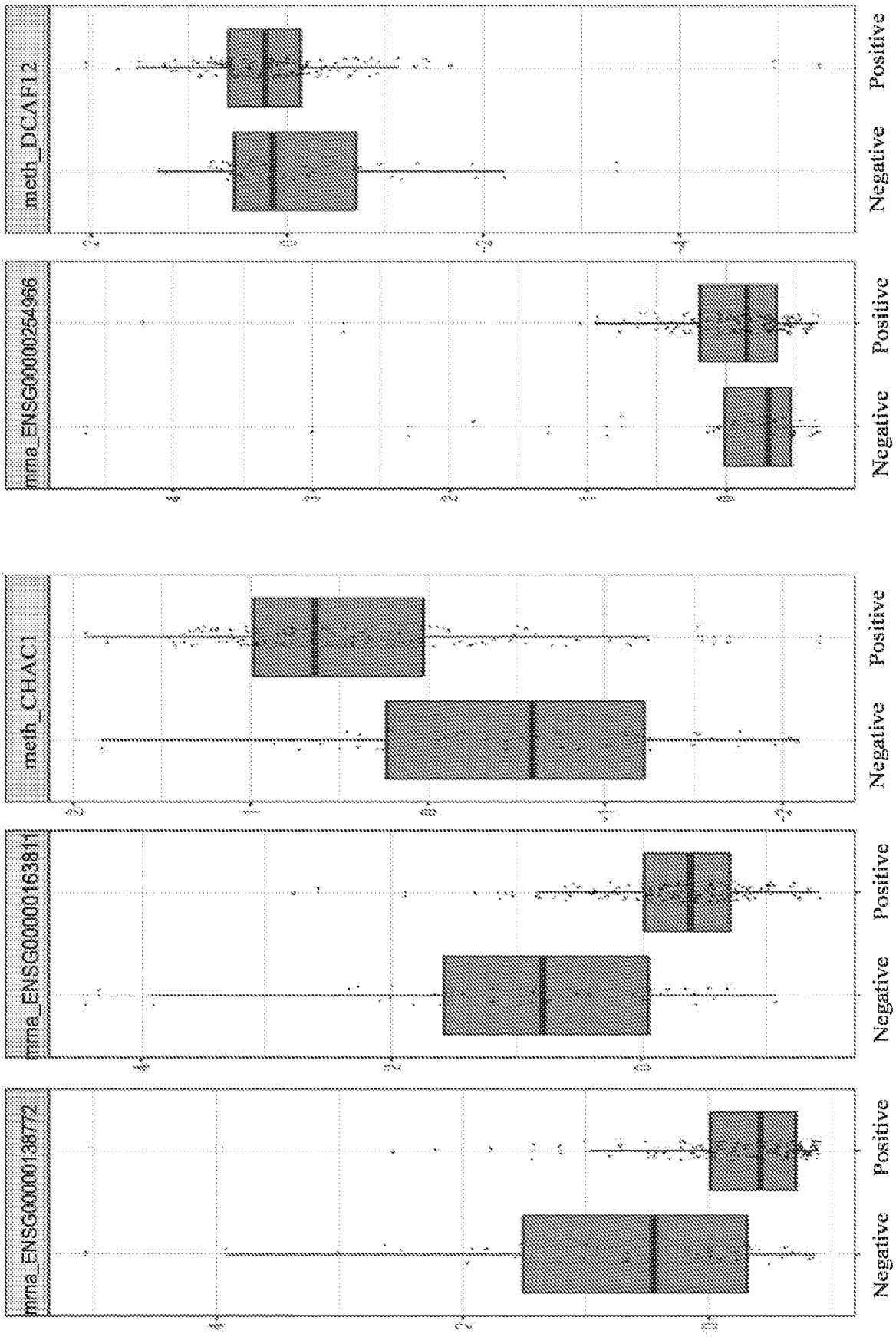

meth_DCAF12
mrna_ENSG00000254966
meth_CHAC1
mrna_ENSG00000163818
mrna_ENSG00000138772
Negative
Positive

FIG. 15A

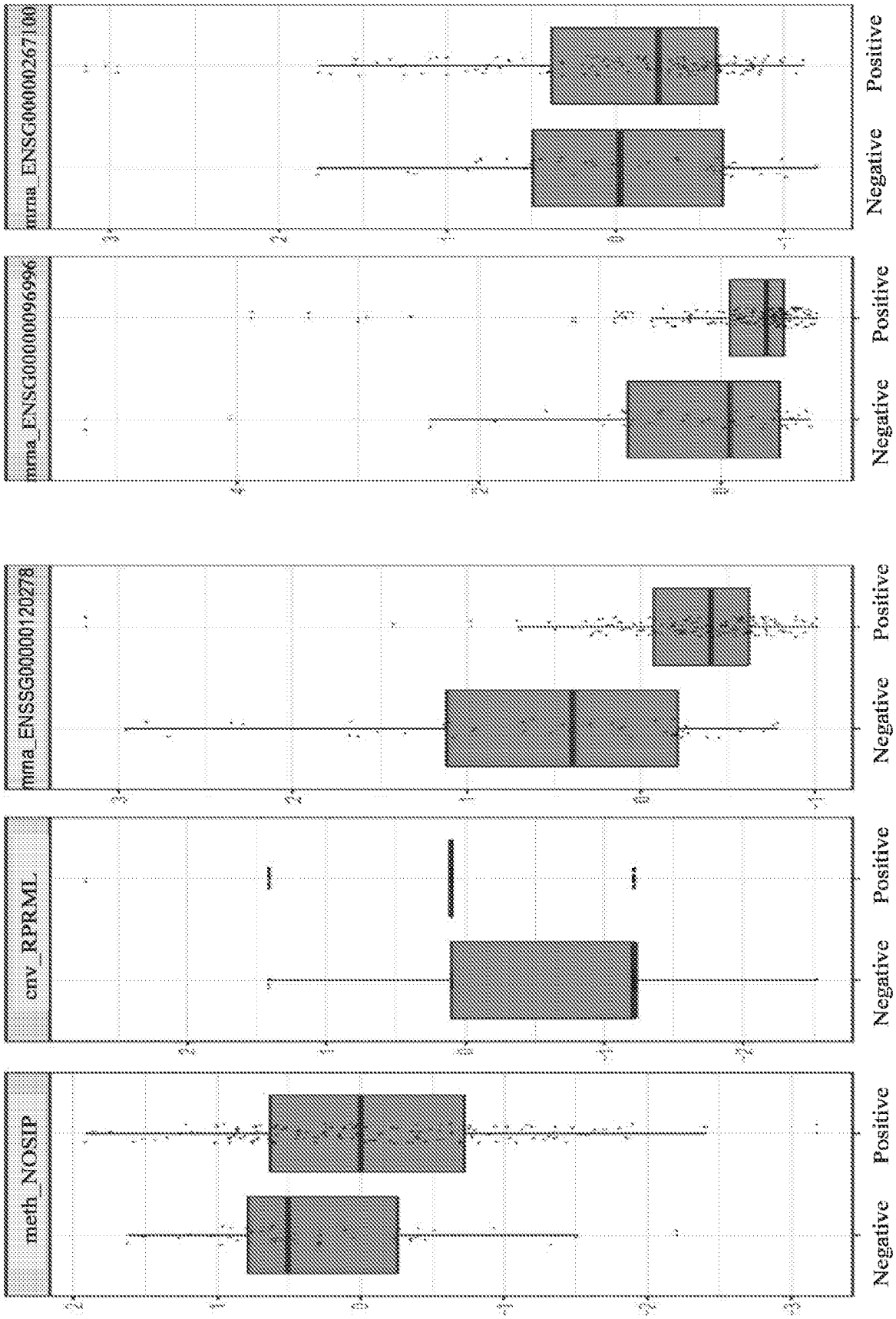

meth_NOSIP
cnv_RPRML
mrna_ENSSG00000120278
mrna_ENSG00000096996
mrna_ENSG00000267180
Negative
Positive

FIG. 15A (cont.)

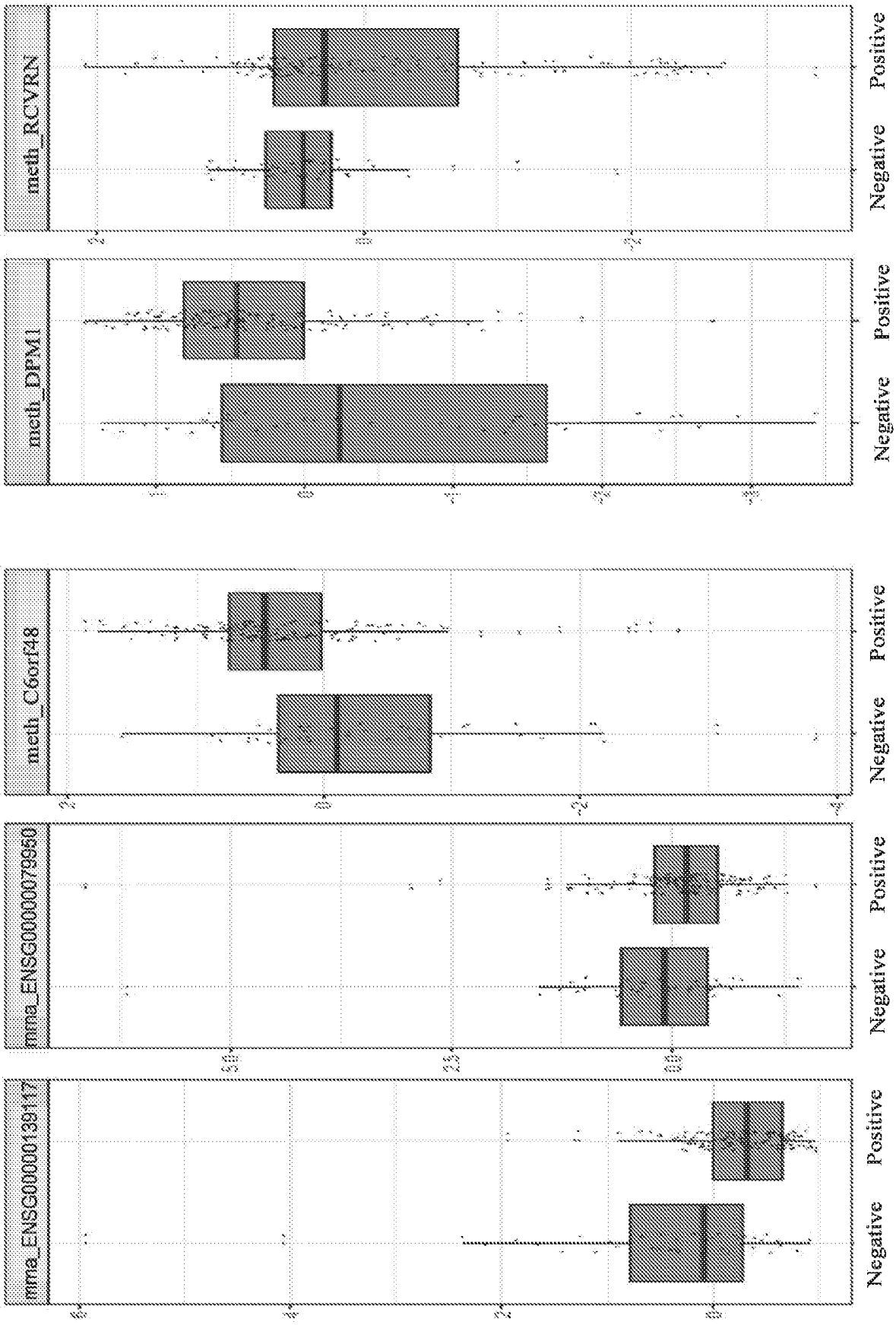

meth_RCVRN
meth_DPM1
meth_C6orf48
mrna_ENSG00000079950
mrna_ENSG00000139117
Negative
Positive

FIG. 15A (cont.)

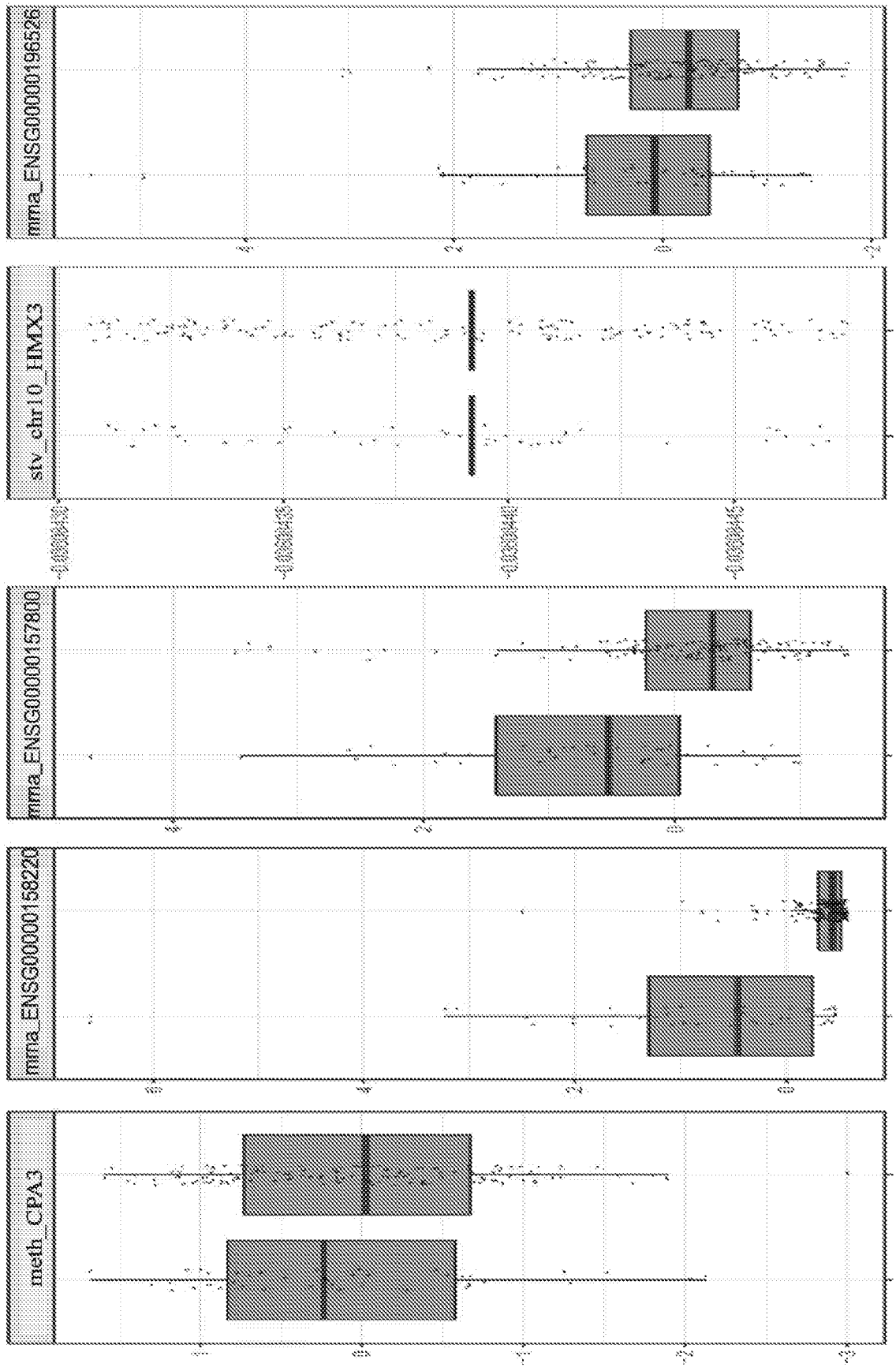

meth_CPA3
mrna_ENSG00000158220
mrna_ENSG00000157800
stv_chr10_HMX3
mrna_ENSG00000196526
Negative
Positive

FIG. 15A (cont.)

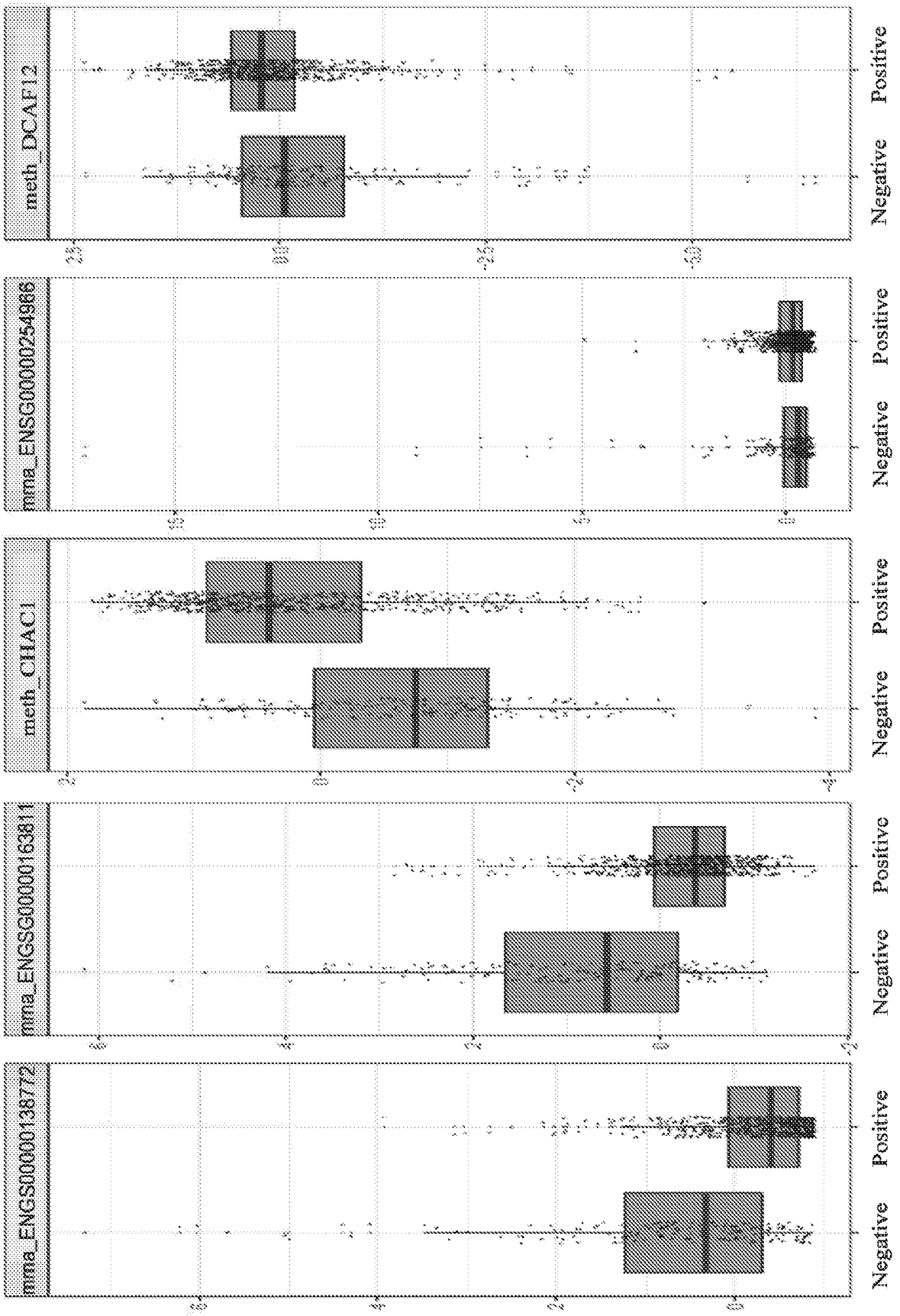

meth_DCAF12
mma_ENSG00000254986
meth_CHAC1
mma_ENSG00000163811
mma_ENSG00000138772
Negative
Positive

FIG. 15B

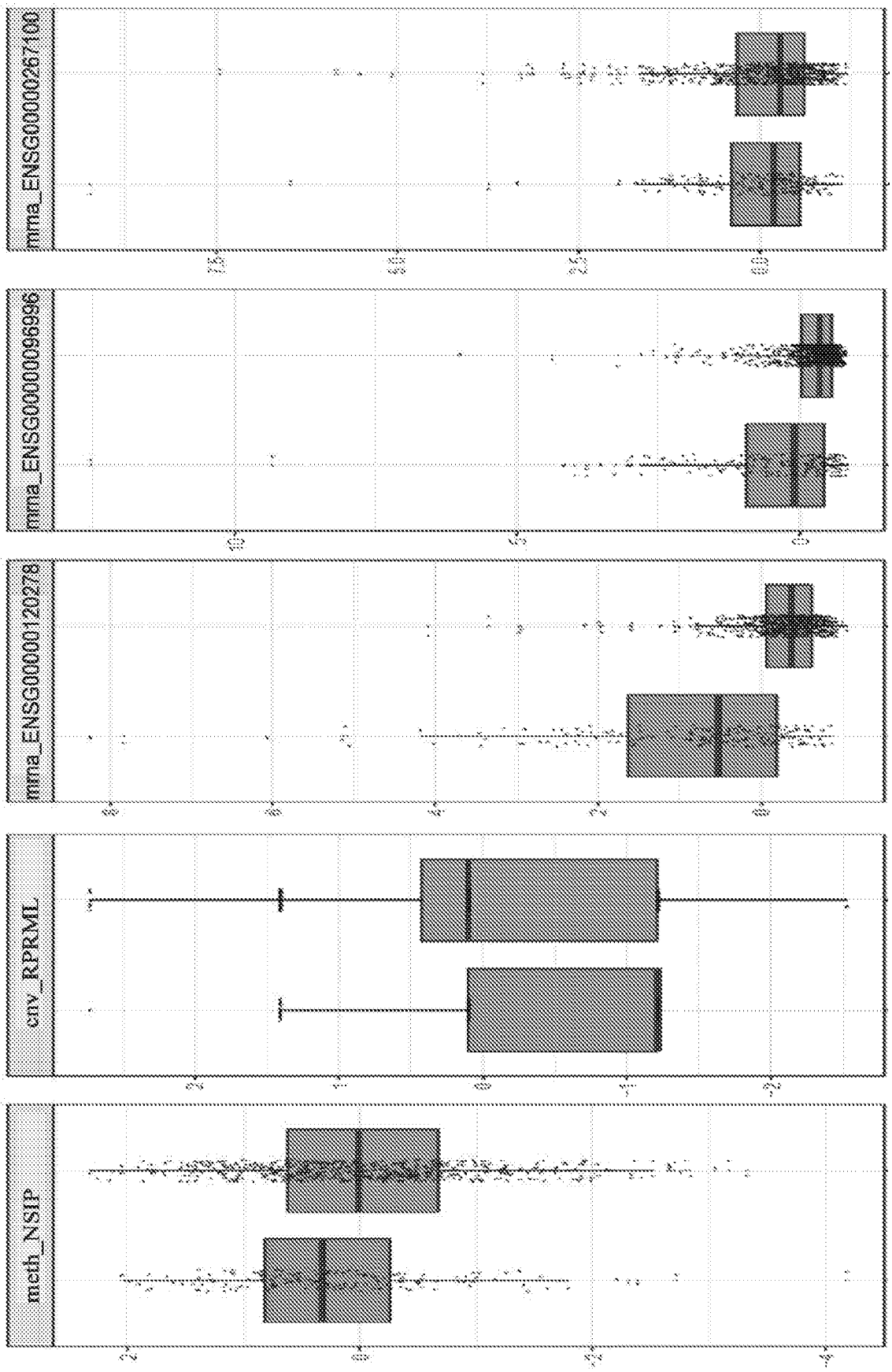

mrna_ENSG00000267100
mrna_ENSG00000096996
mrna_ENSG00000120278
cnv_RPRML
meth_NSIP
Negative
Positive

FIG. 15B (cont.)

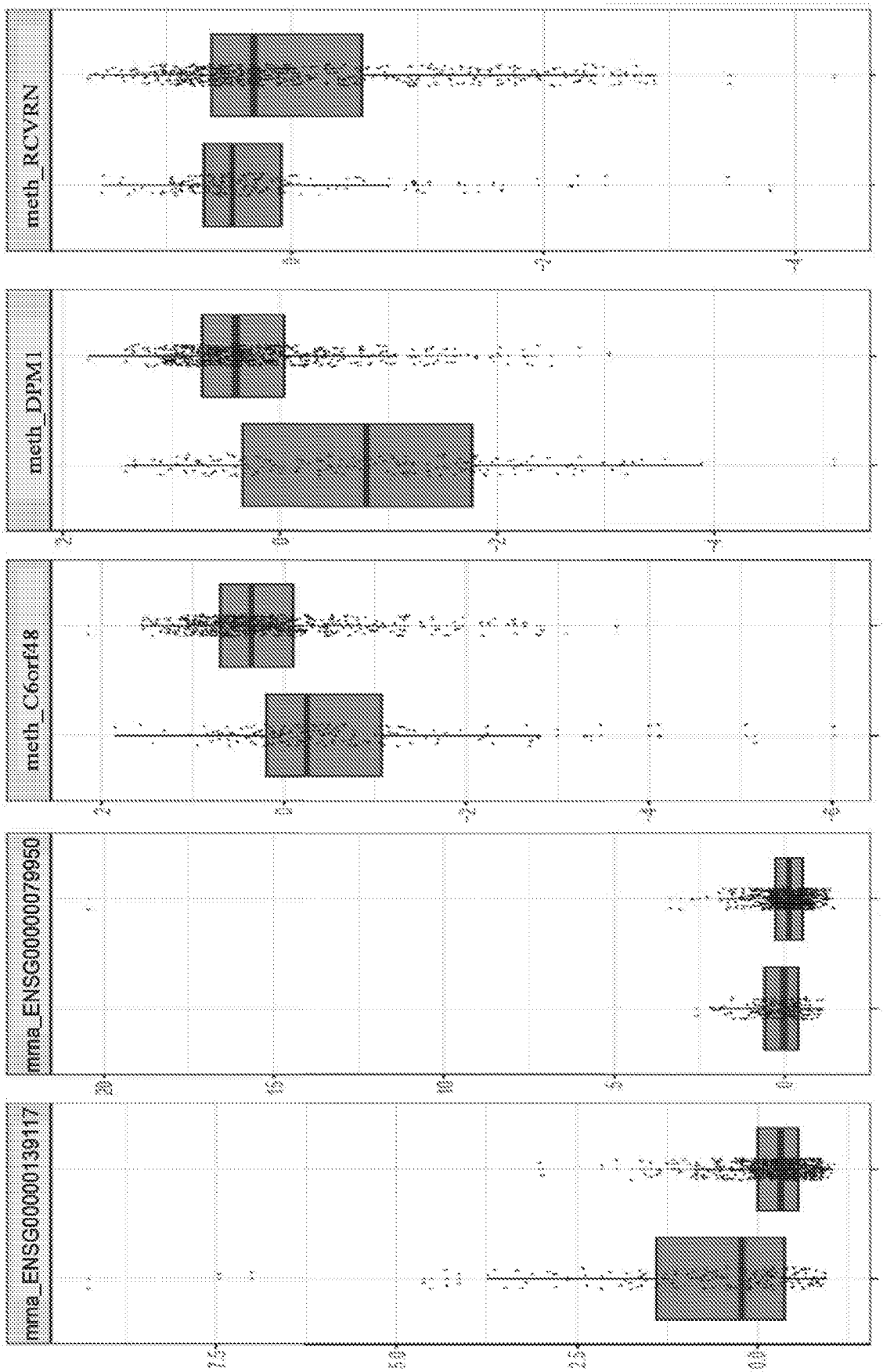

meth_RCVRN
meth_DPM1
meth_C6orf48
mrna_ENSG00000079950
mrna_ENSG00000139117
Negative
Positive

FIG. 15B (cont.)

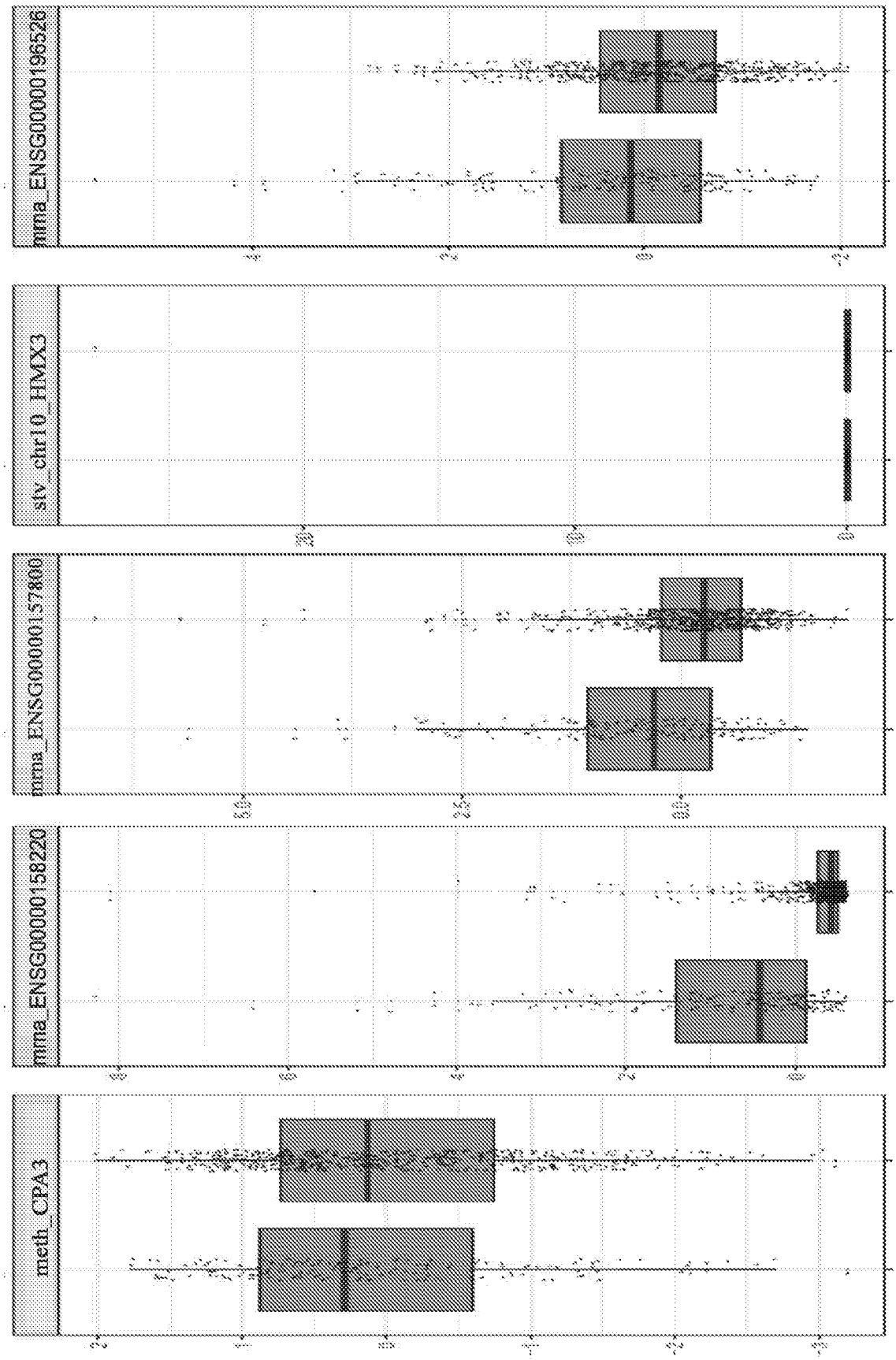

meth_CPA3
mrna_ENSG00000158220
mrna_ENSG00000157800
stv_chr10_HMX3
mrna_ENSG00000196526
Negative
Positive

FIG. 15B (cont.)

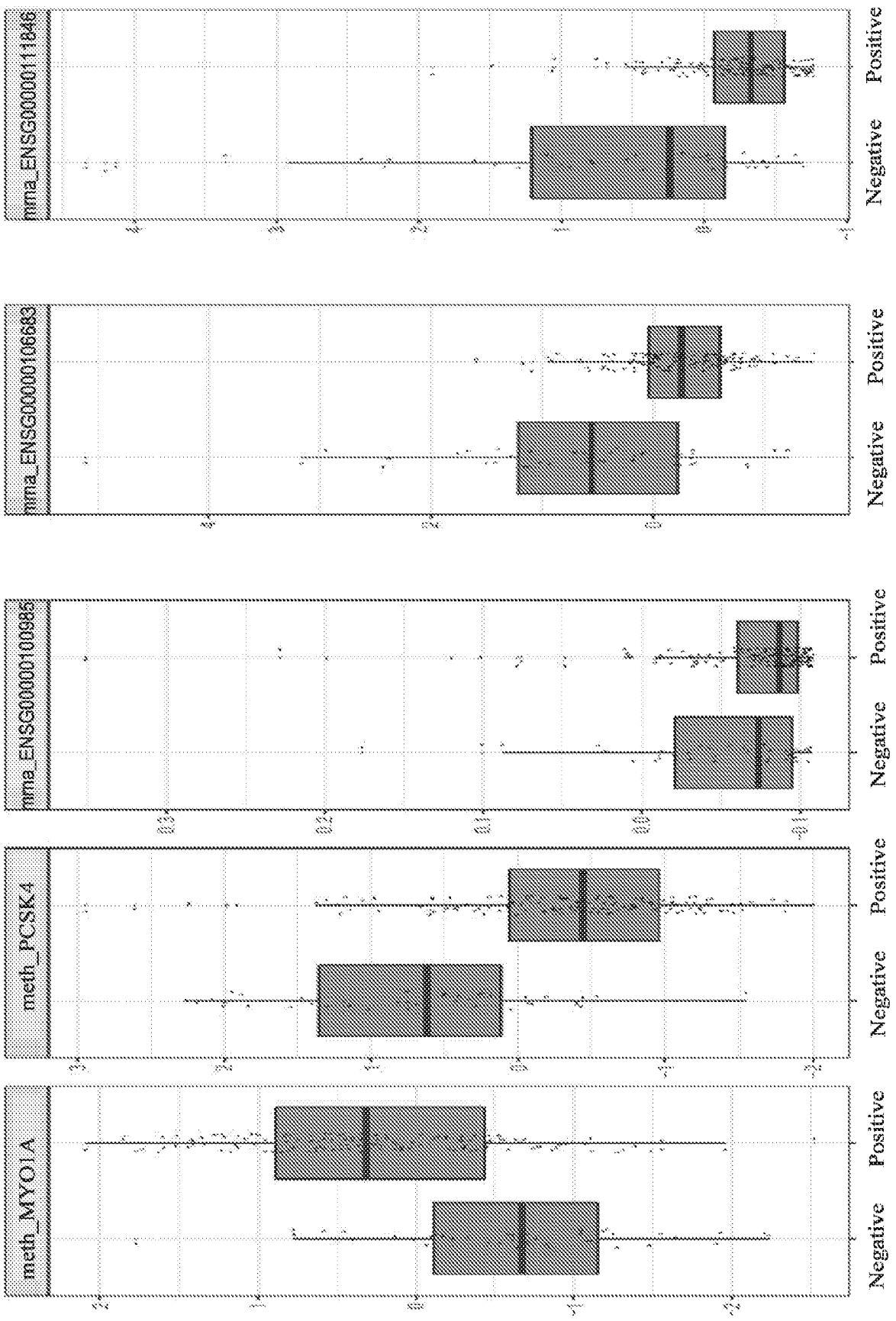

meth_MYO1A
meth_PCSK4
mrna_ENSG00000100985
mrna_ENSG00000106683
mrna_ENSG00000111846
Negative
Positive

FIG. 16A

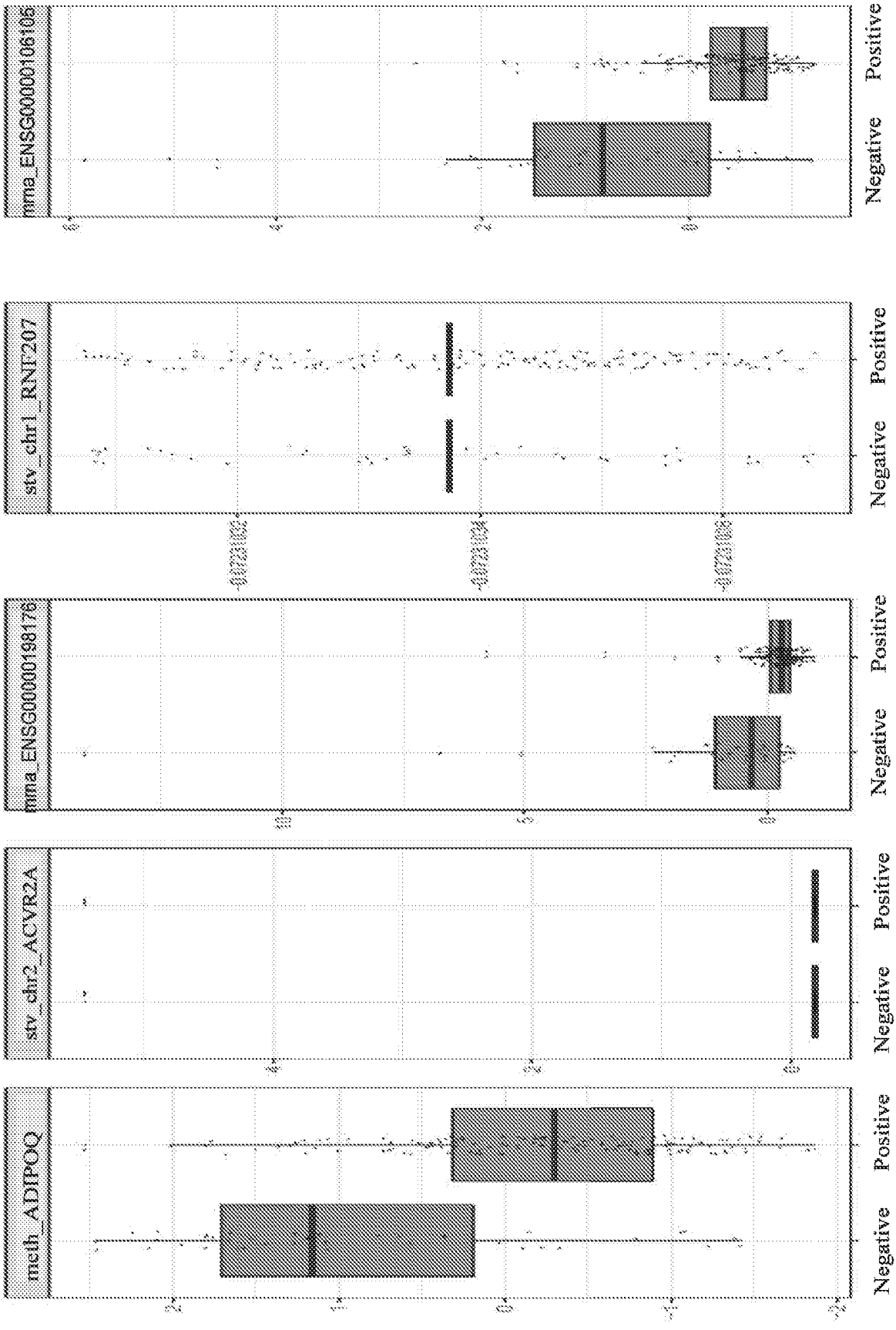

meth_ADIPOQ
stv_chr2_ACVR2A
mrna_ENSG00000198176
stv_chr1_RNT207
mrna_ENSG00000106105
Negative
Positive

FIG. 16A (cont.)

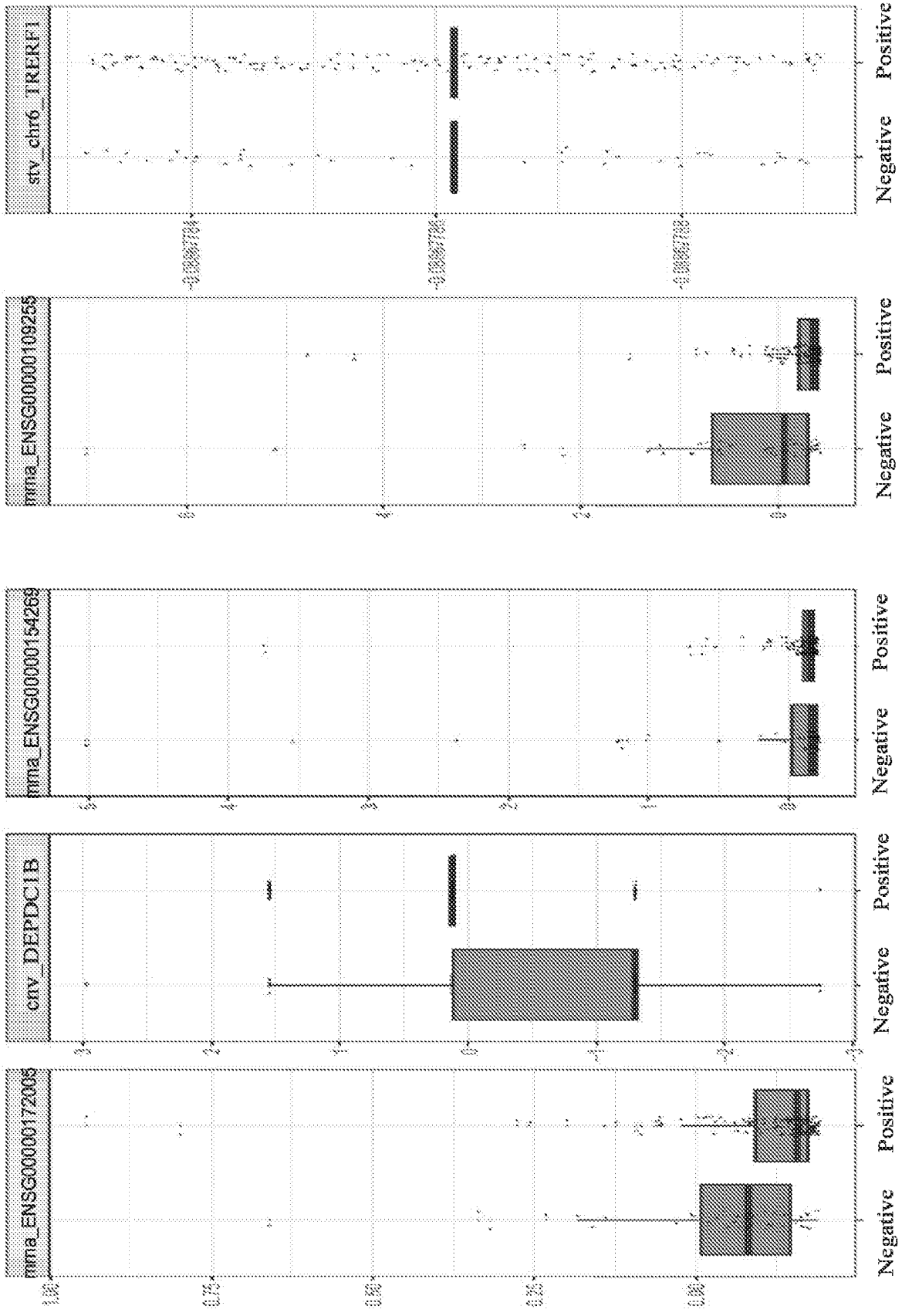

mrna_ENSG00000172005
cnv_DEPDC1B
mrna_ENSG00000154269
mrna_ENSG00000109255
snv_chr6_TRERF1
Negative
Positive

FIG. 16A (cont.)

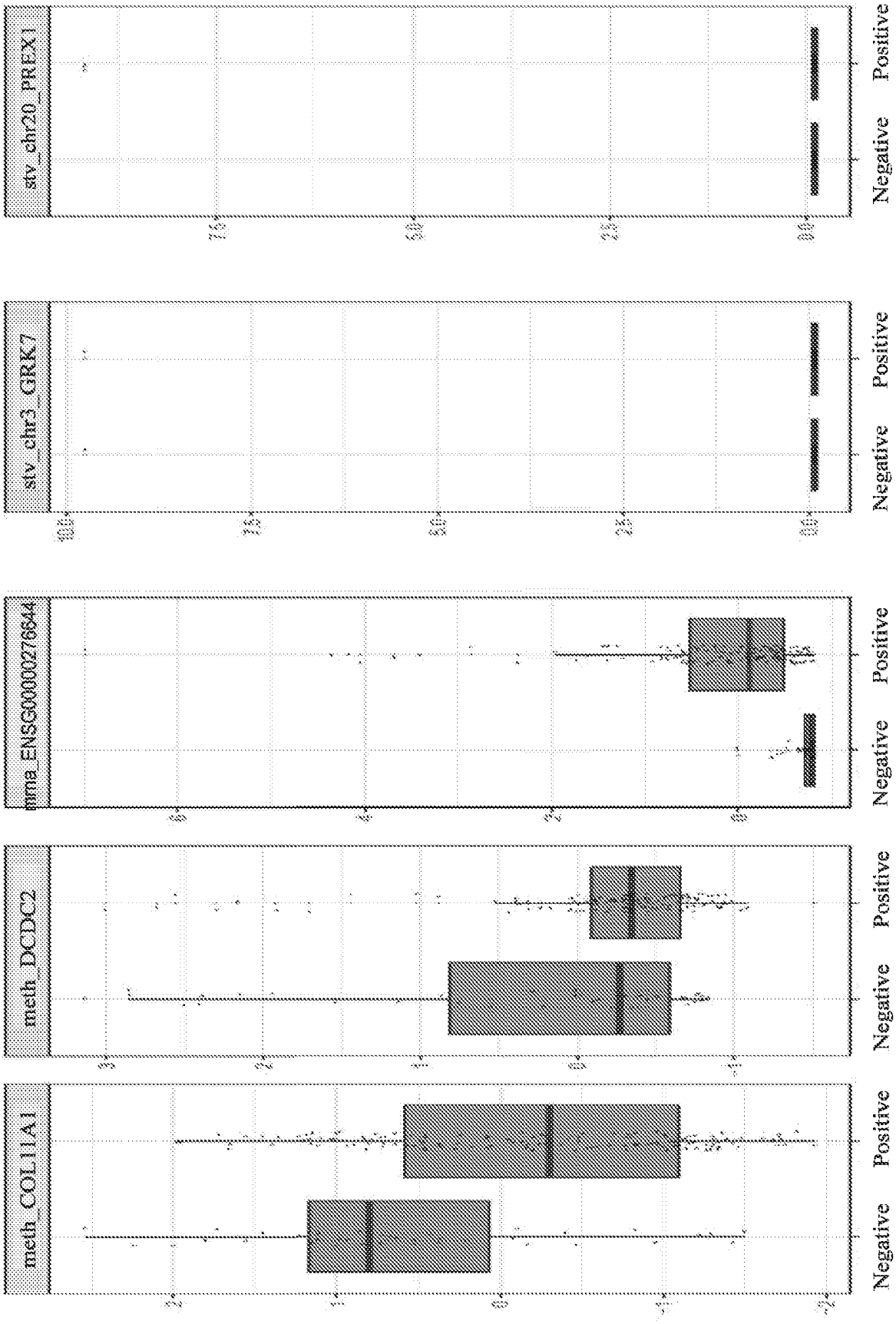

meth_COL11A1
meth_DCDC2
mrna_ENSG00000276644
stv_chr3_GRK7
stv_chr20_PREX1
Negative
Positive

FIG. 16A (cont.)

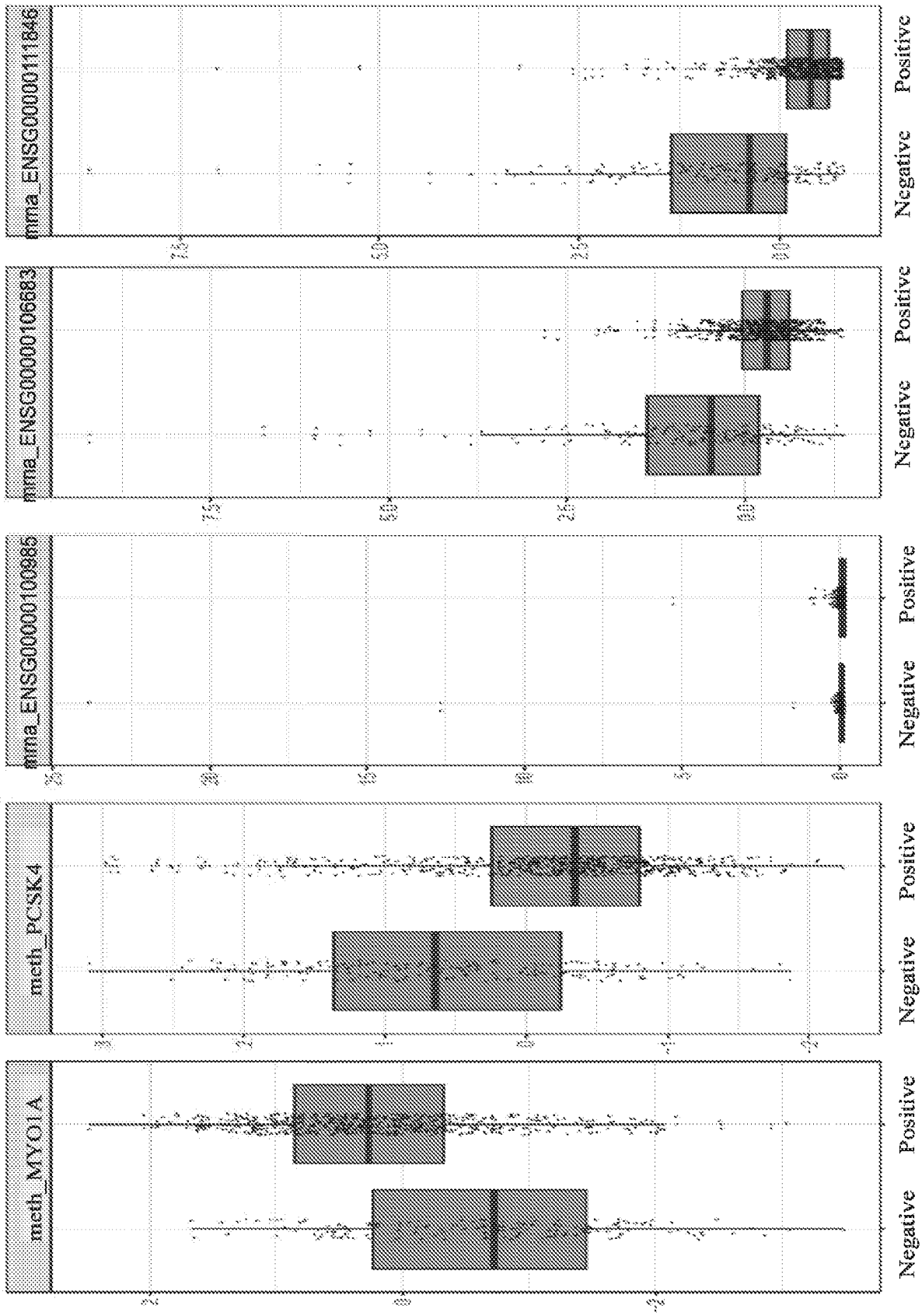

mma_ENSG00000111846
mma_ENSG00000106683
mma_ENSG00000100985
meth_PCSK4
meth_MYO1A
Negative
Positive

FIG. 16B

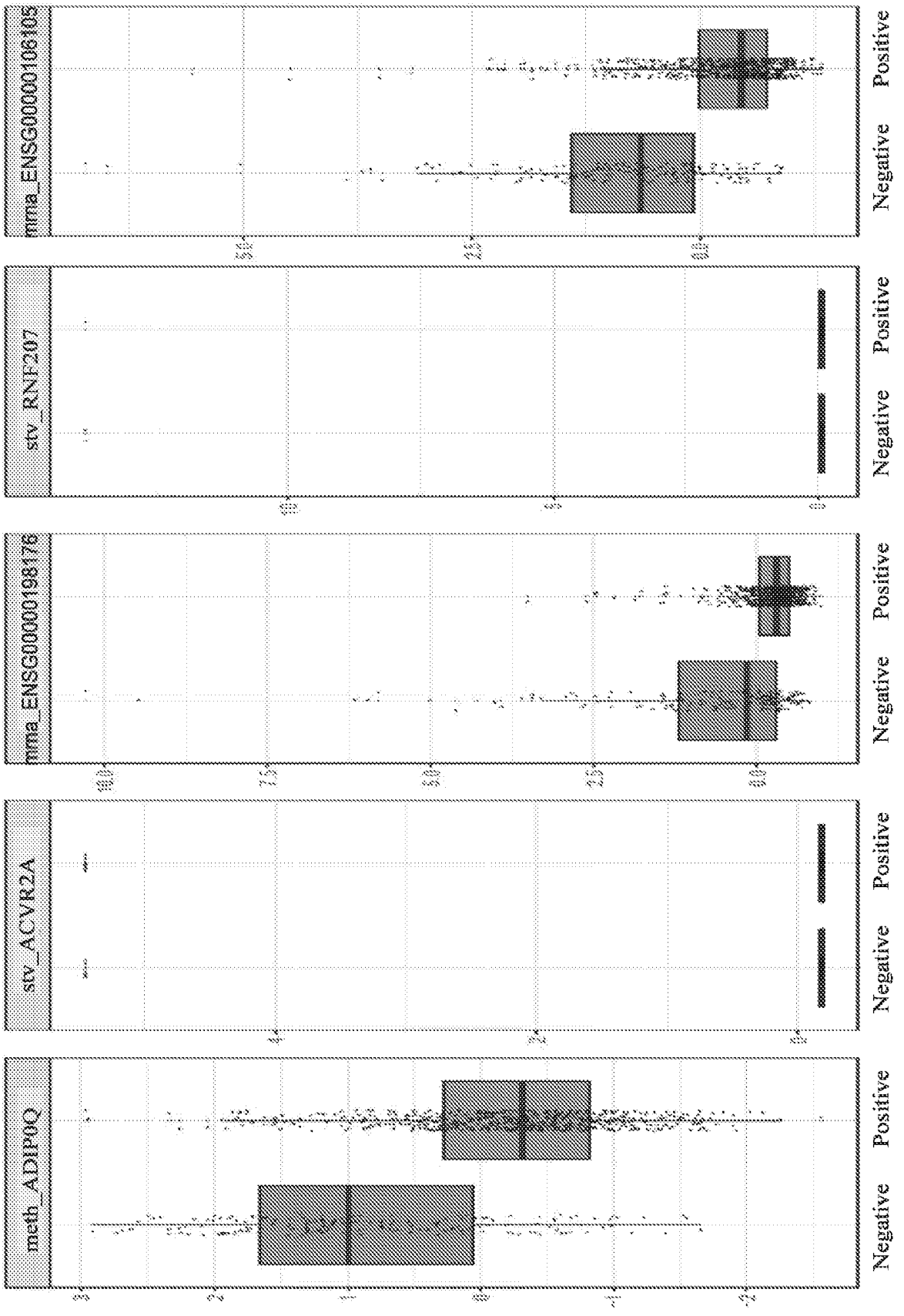

meth_ADIPOQ
stv_ACVR2A
mma_ENSG00000198176
stv_RNF207
mma_ENSG00000106105
Negative
Positive

FIG. 16B (cont.)

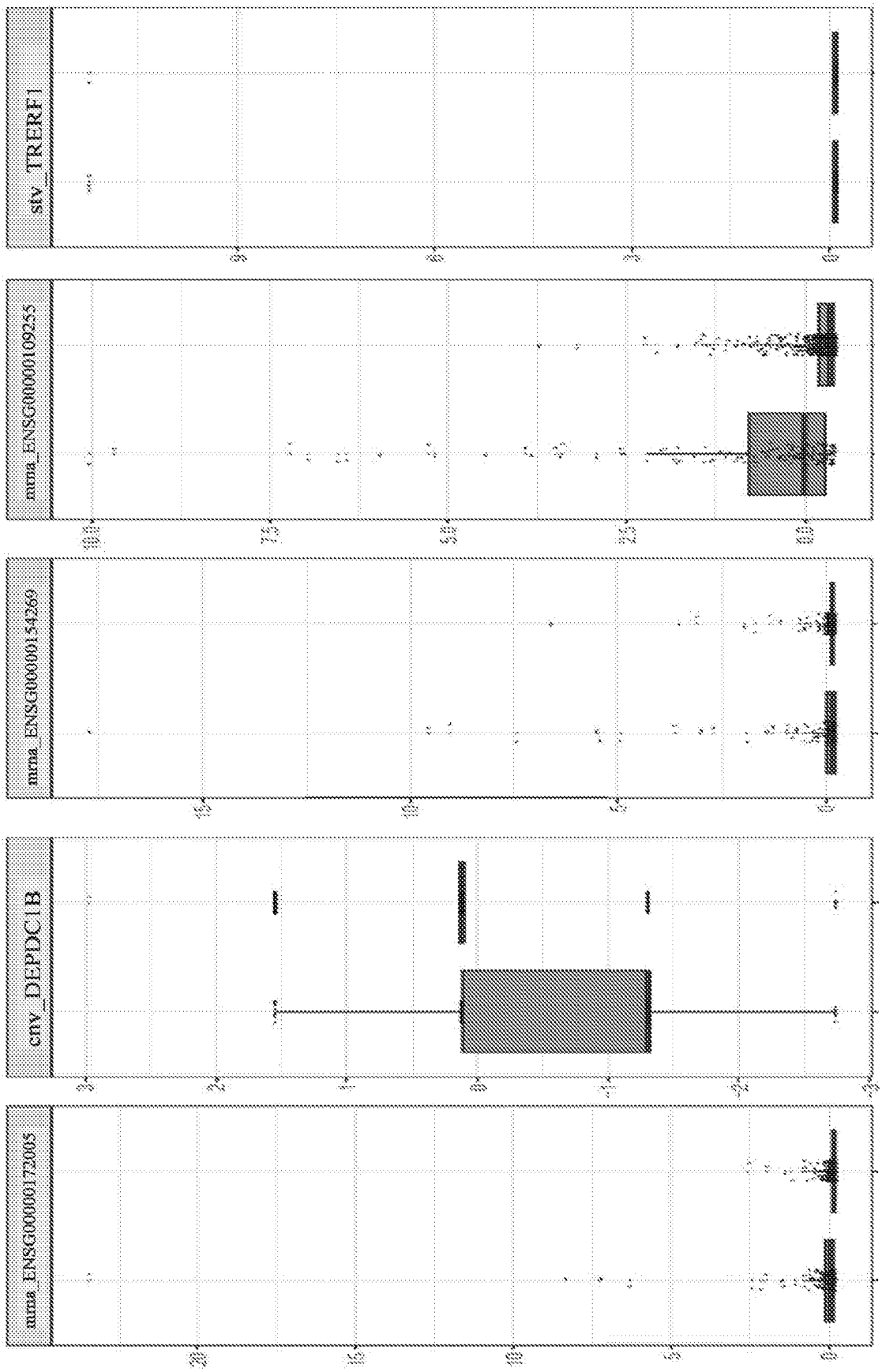

mrna_ENSG00000172005
cnv_DEPDC1B
mrna_ENSG00000154269
mrna_ENSG00000109255
stv_TRERF1
Negative
Positive

FIG. 16B (cont.)

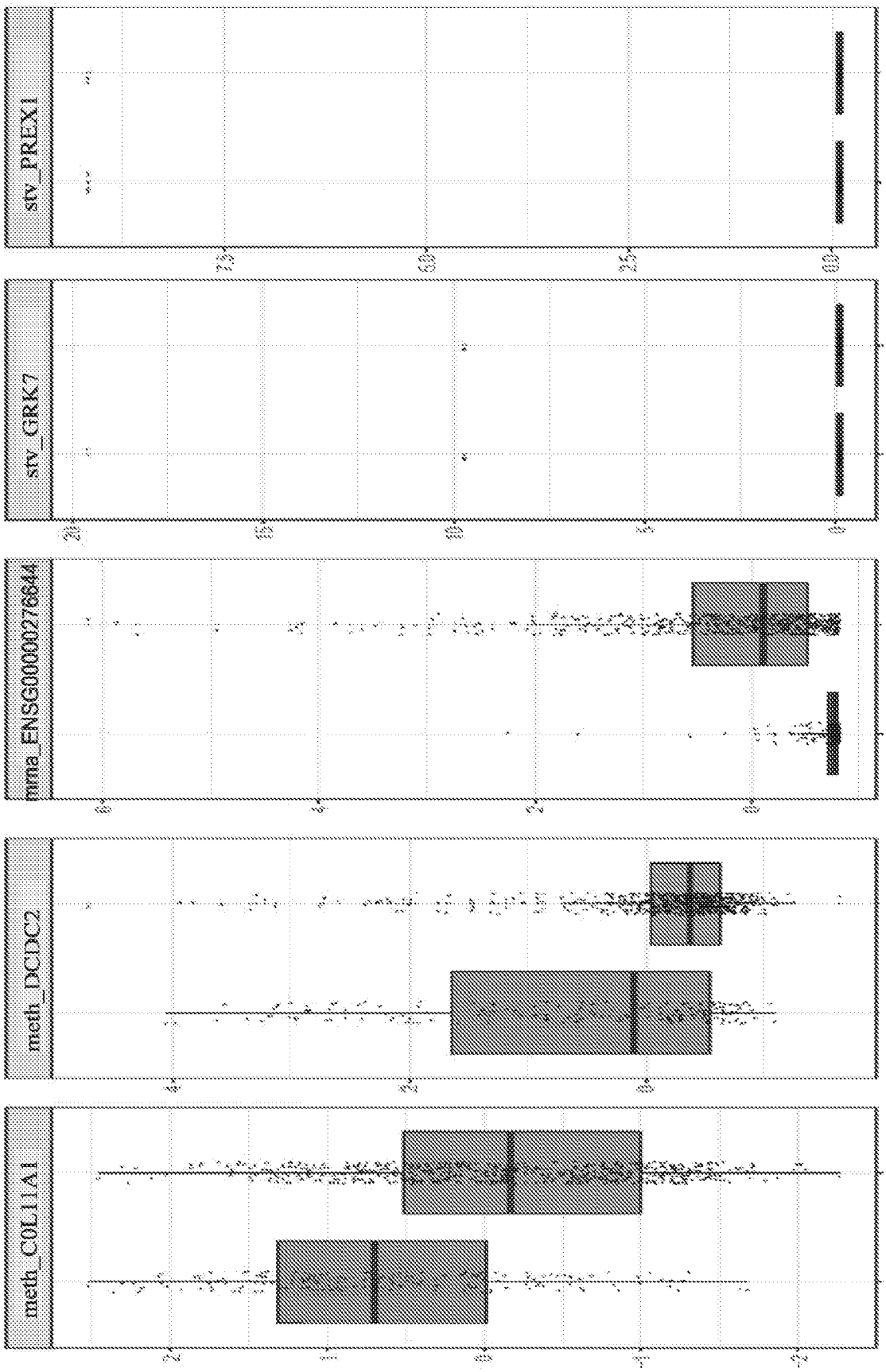

meth_C0L11A1
meth_DCDC2
mrna_ENSG00000276844
stv_GRK7
stv_PREX1
Negative
Positive

FIG. 16B (cont.)

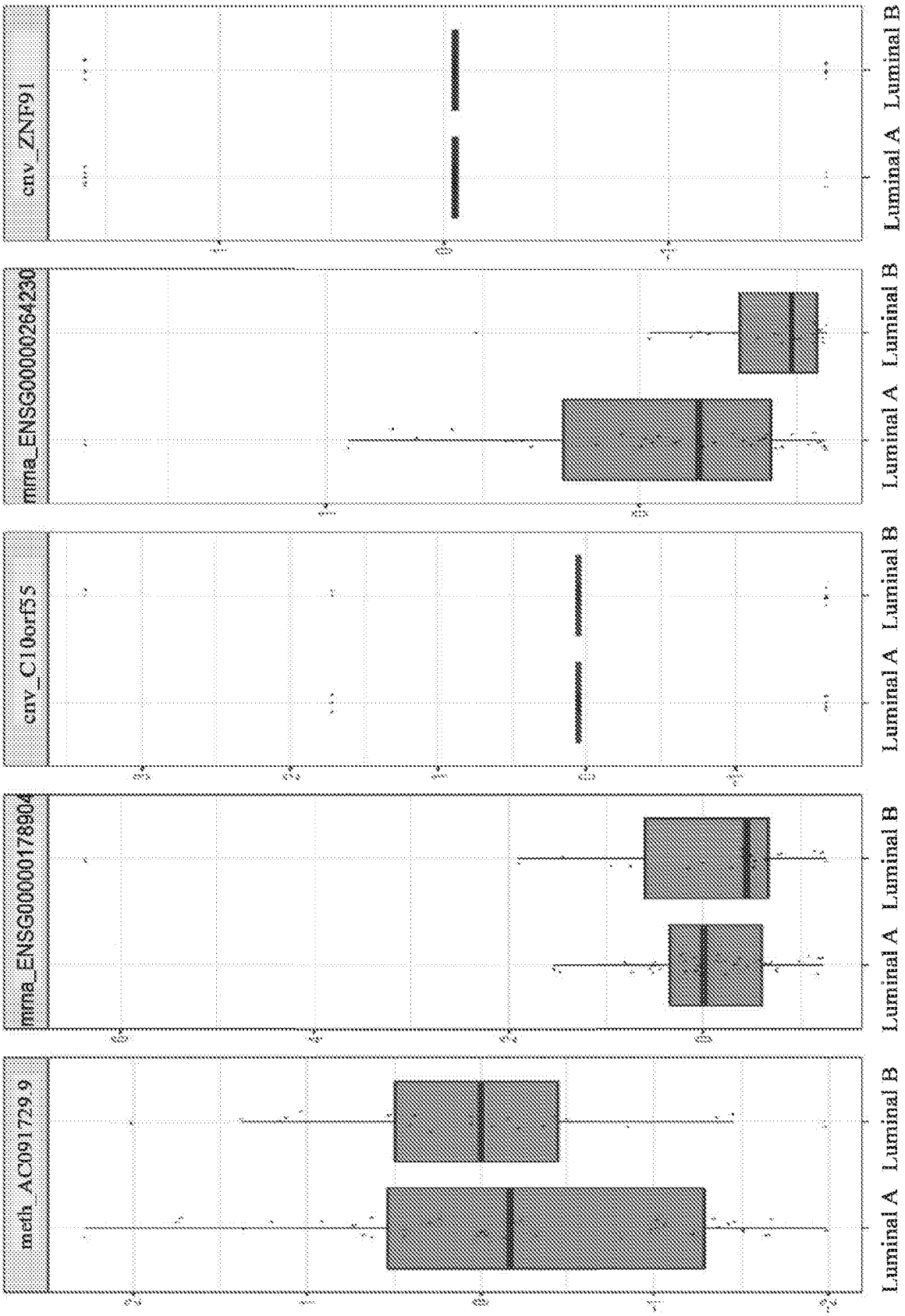

meth_AC091729.9
mrna_ENSG00000178904
cnv_C10orf35
mrna_ENSG00000264230
cnv_ZNF91
Luminal A
Luminal B

FIG. 17A

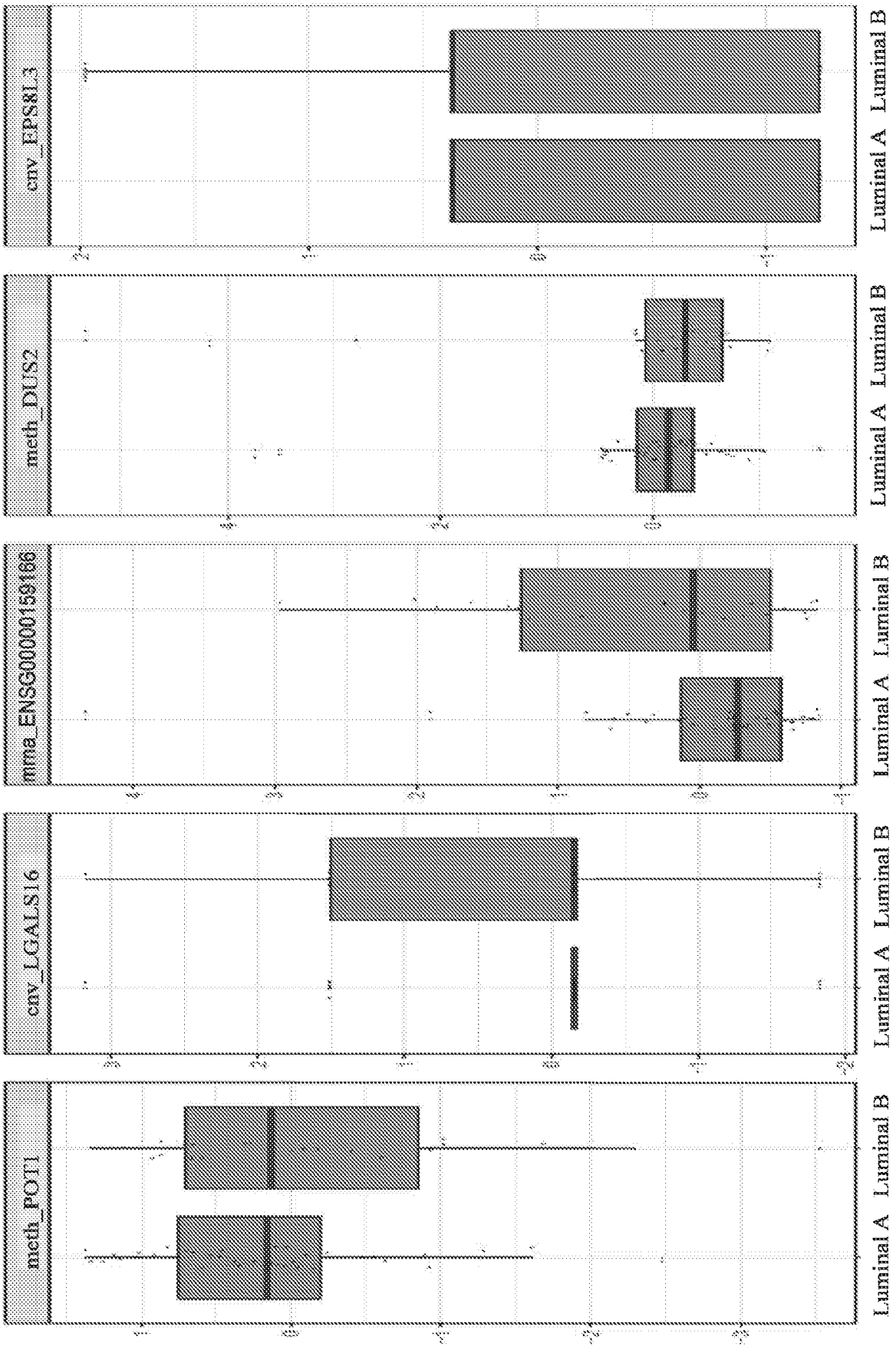

meth_POT1
Luminal A
Luminal B
cnv_LGALS16
Luminal A
Luminal B
mrna_ENSG00000159166
Luminal A
Luminal B
meth_DUS2
Luminal A
Luminal B
cnv_EPS8L3
Luminal A
Luminal B

FIG. 17A (cont.)

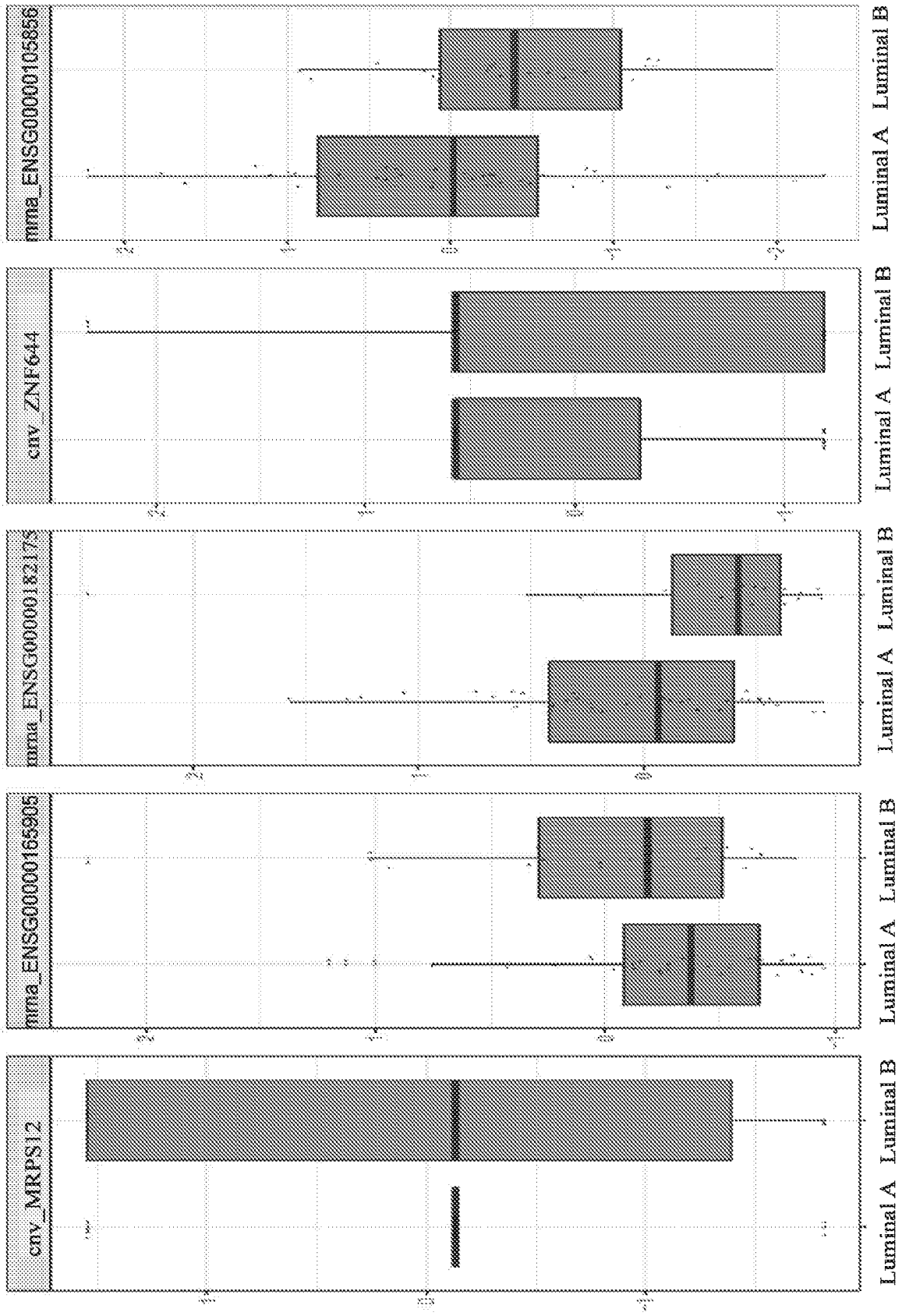

cnv_MRPS12
Luminal A
Luminal B
mrna_ENSG00000165905
Luminal A
Luminal B
mrna_ENSG00000182175
Luminal A
Luminal B
cnv_ZNF644
Luminal A
Luminal B
mrna_ENSG00000105856
Luminal A
Luminal B

FIG. 17A (cont.)

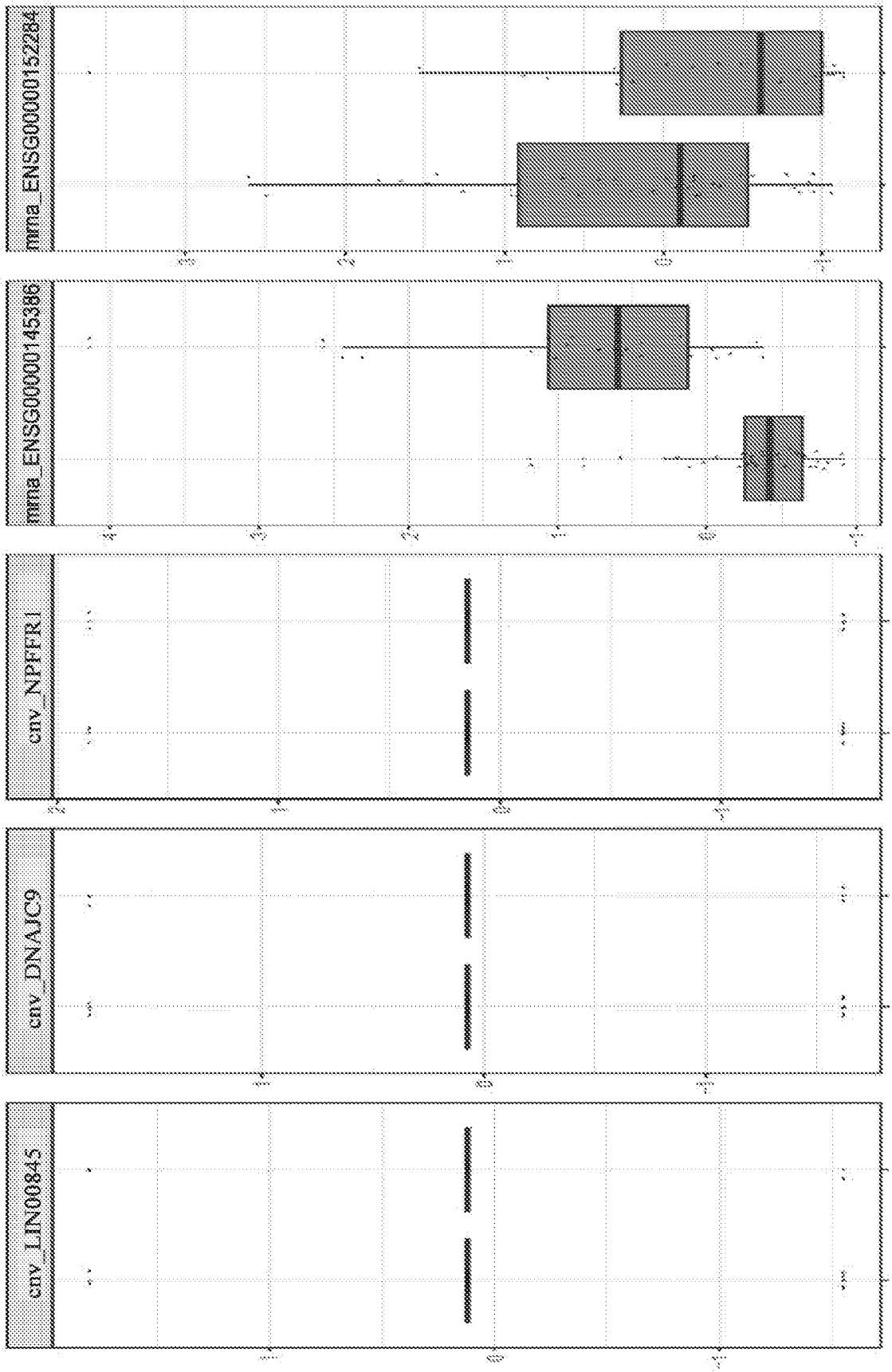

cnv_LIN00845
cnv_DNAJC9
cnv_NPFFR1
mrna_ENSG00000145386
mrna_ENSG00000152284
Luminal A
Luminal B

FIG. 17A (cont.)

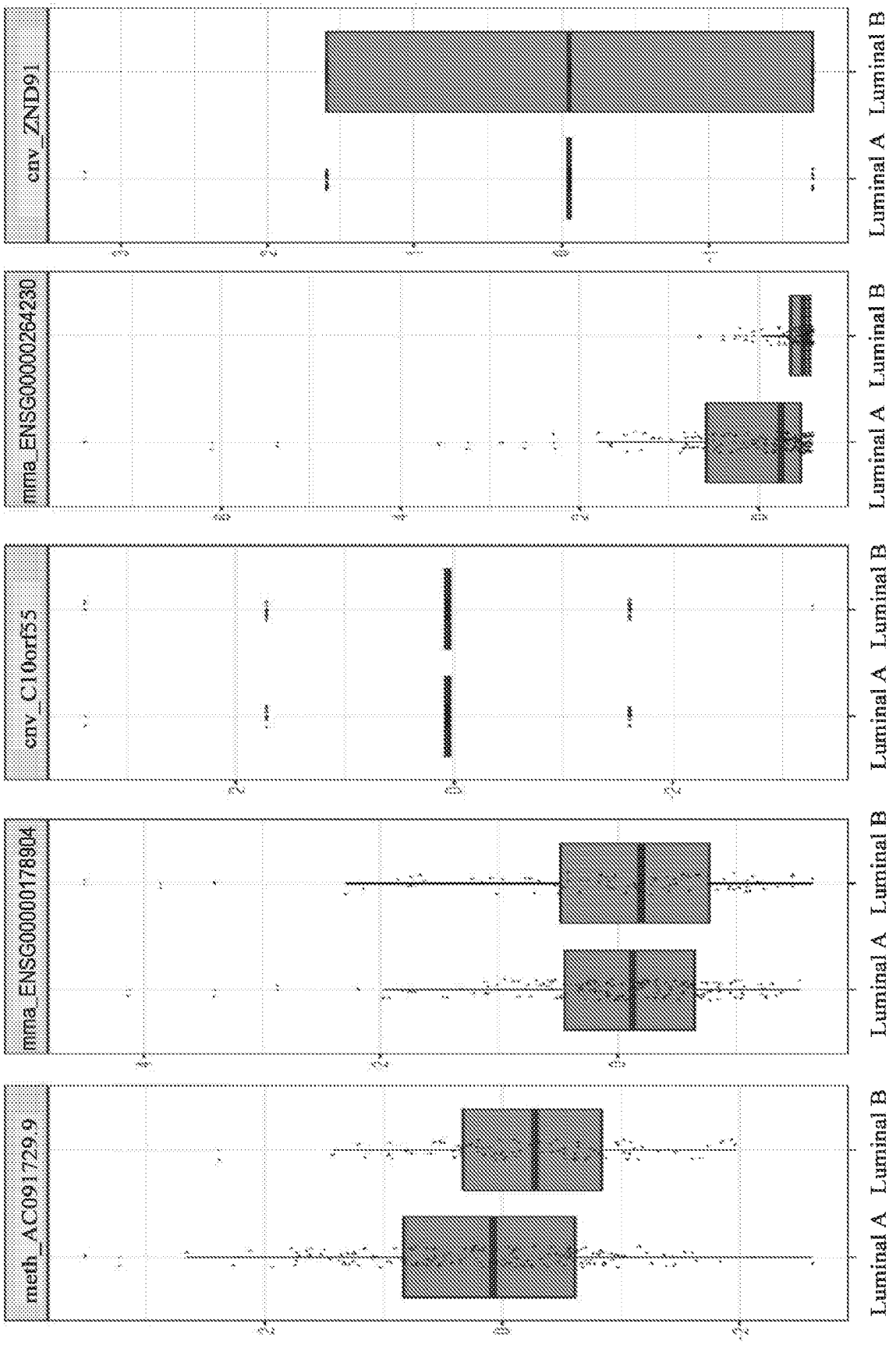

meth_AC091729.9
mma_ENSG00000178904
cnv_C10orf55
mma_ENSG00000264230
cnv_ZND91
Luminal A
Luminal B

FIG. 17B

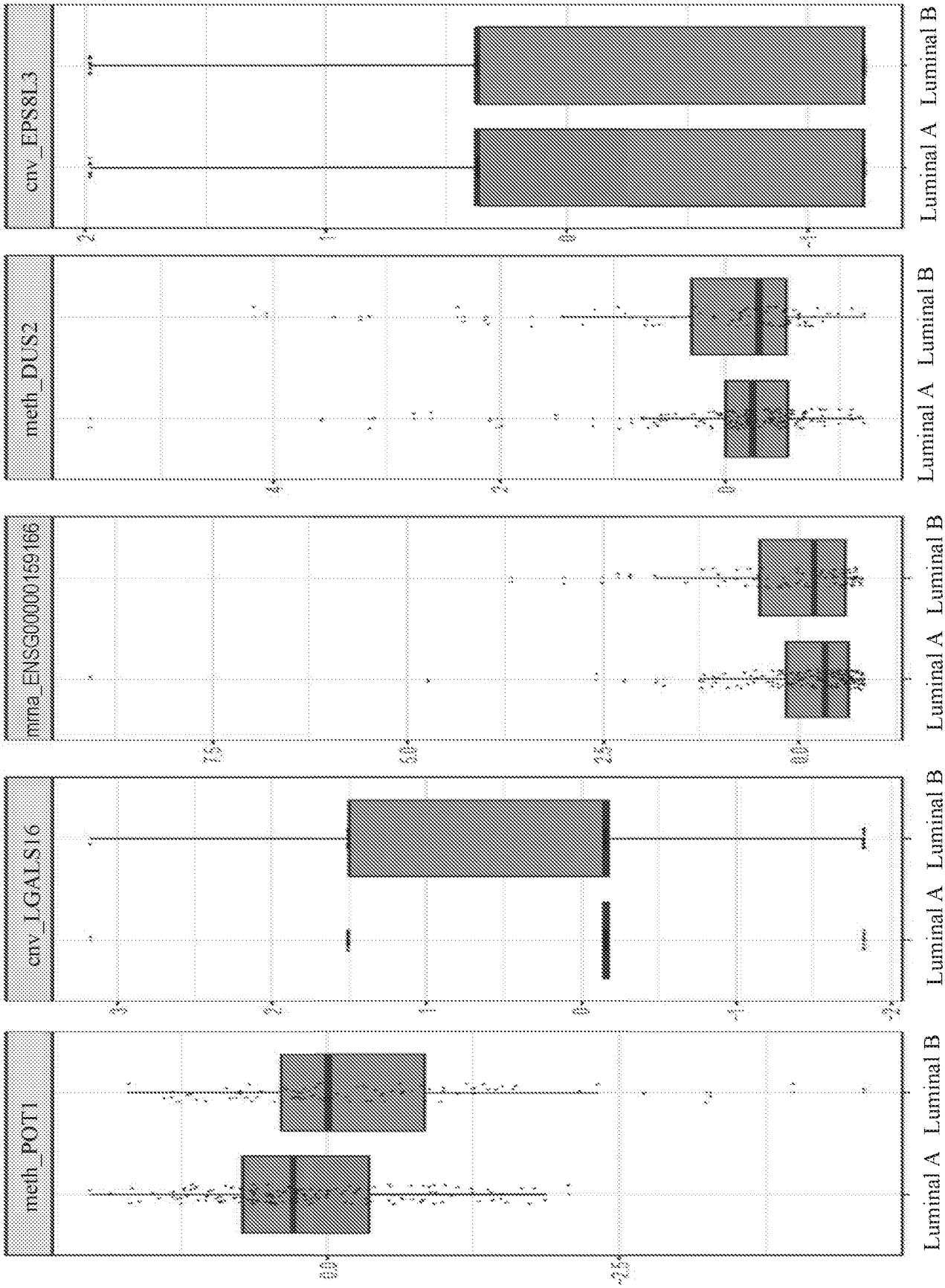

meth_POT1
cnv_LGALS16
mrna_ENSG00000159166
meth_DUS2
cnv_EPS8L3
Luminal A
Luminal B

FIG. 17B (cont.)

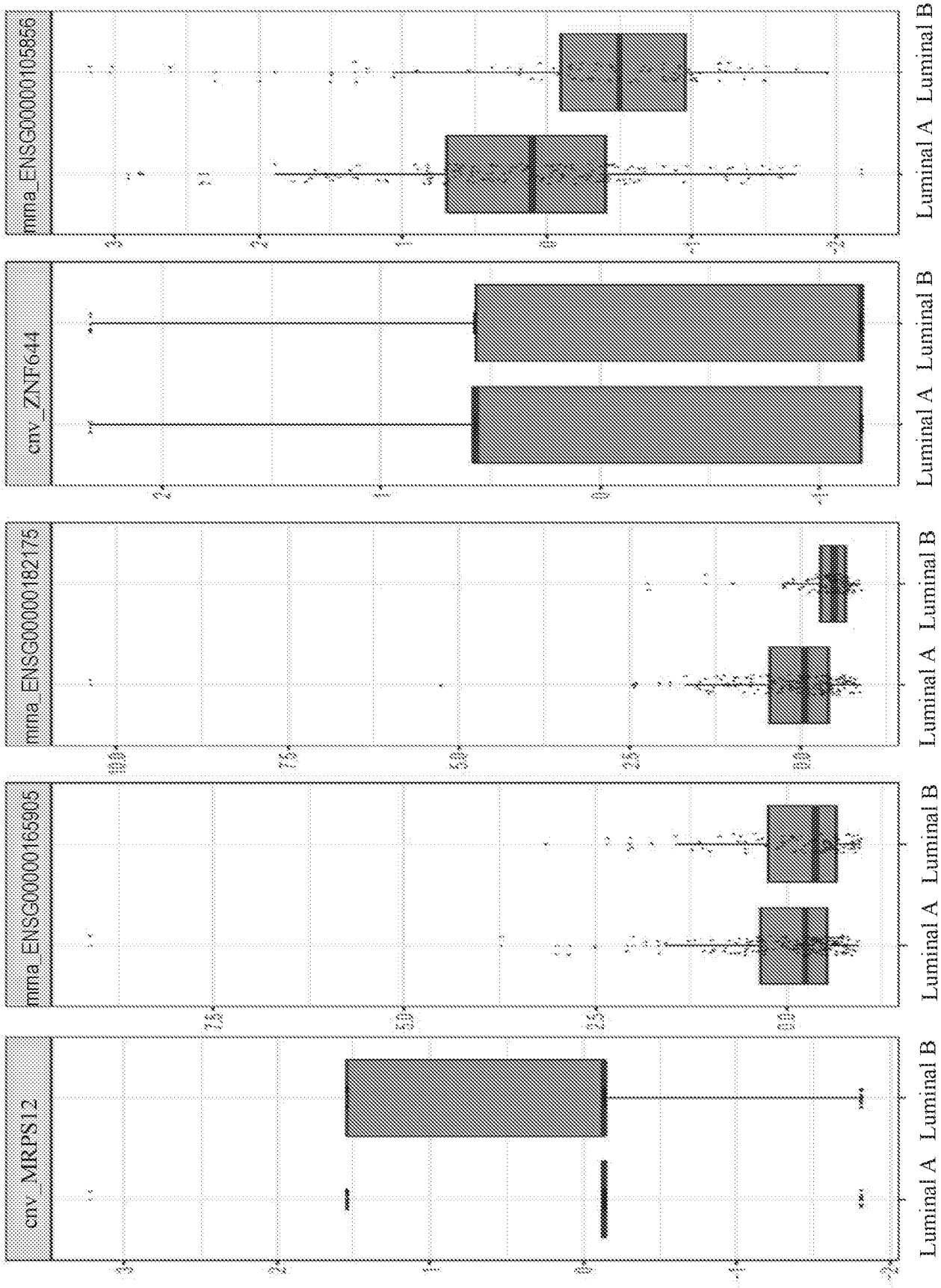

cnv_MRPS12
mma_ENSG00000165905
mma_ENSG00000182175
cnv_ZNF644
mma_ENSG00000105856
Luminal A
Luminal B

FIG. 17B (cont.)

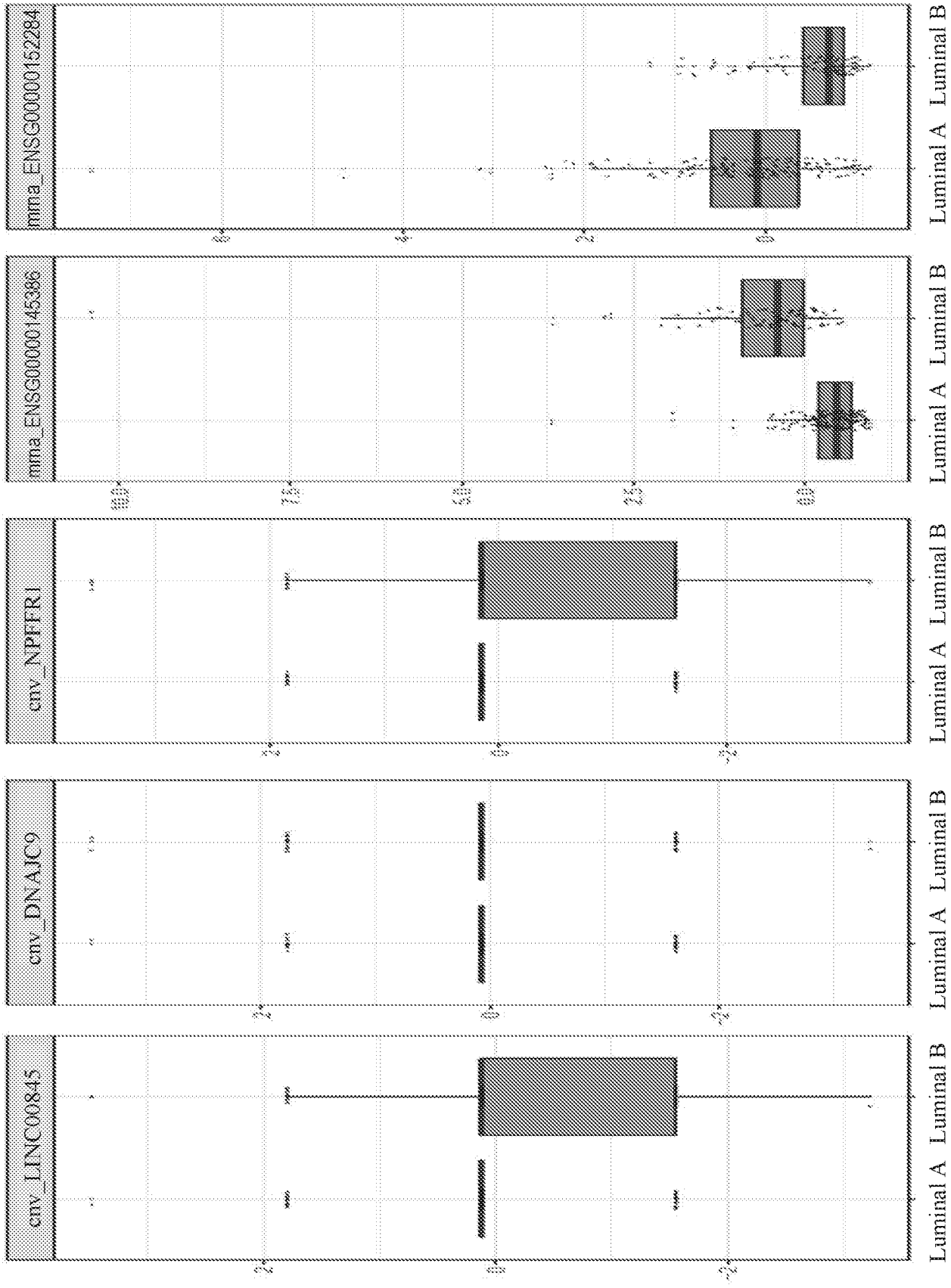

cnv_LINC00845
cnv_DNAJC9
cnv_NPTFR1
mrna_ENSG00000145386
mrna_ENSG00000152284
Luminal A
Luminal B

FIG. 17B (cont.)

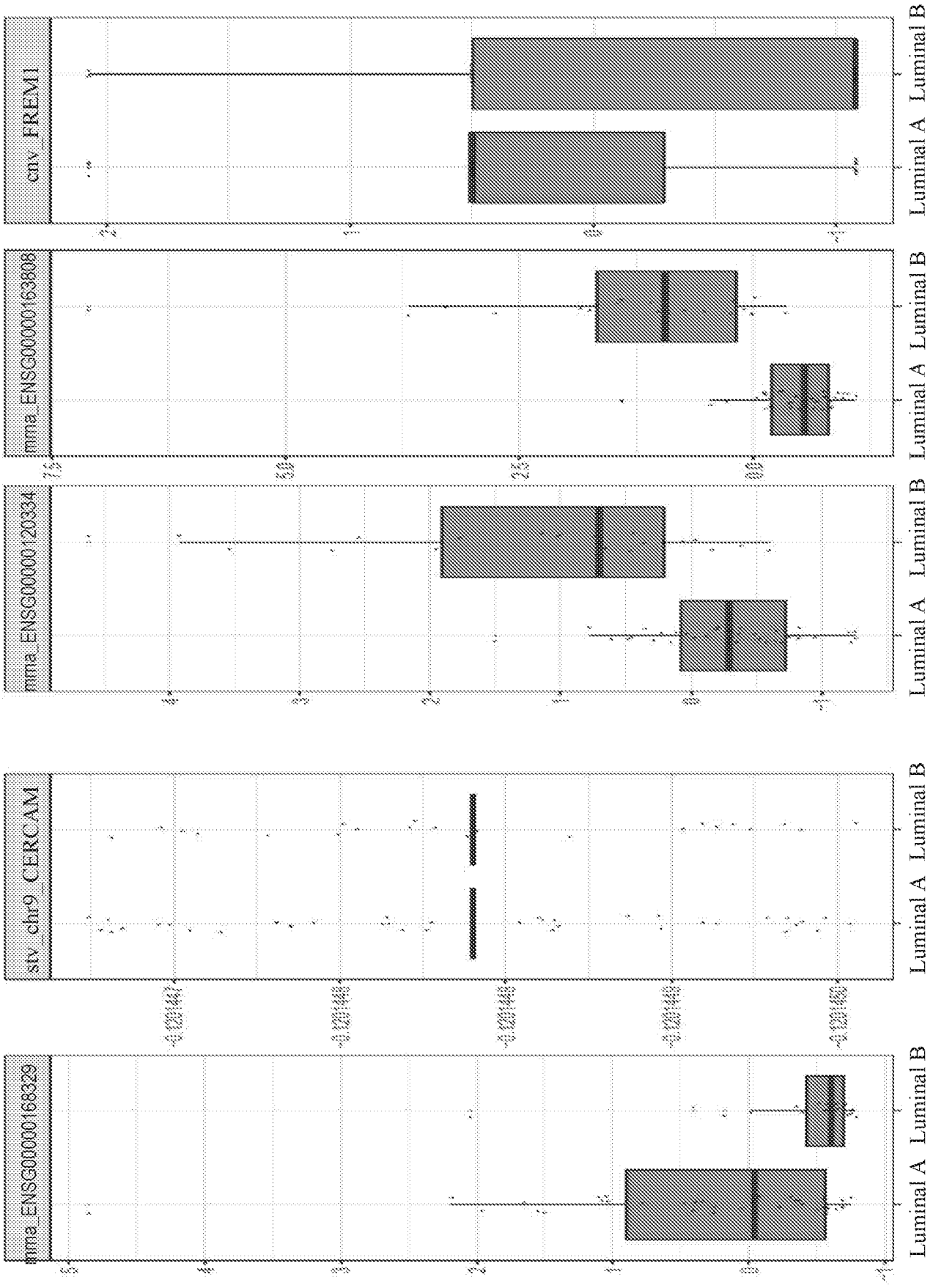

mrna_ENSG00000168329
stv_chr9_CERCAM
mrna_ENSG00000120334
mrna_ENSG00000163808
cnv_FREM1
Luminal A
Luminal B

FIG. 18A

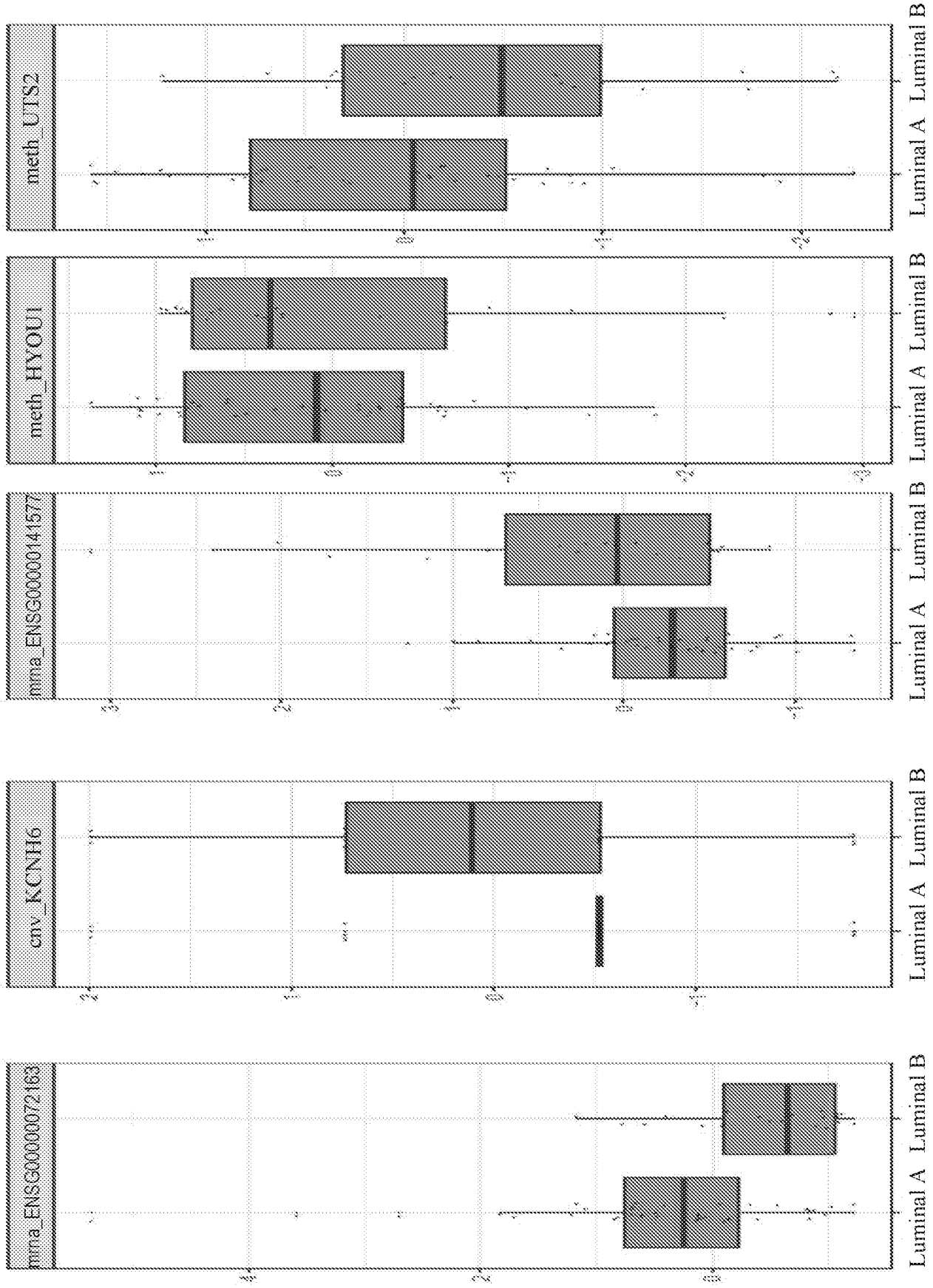

meth_UTS2
meth_HYOU1
mrna_ENSG00000141577
cnv_KCNH6
mrna_ENSG00000072163
Luminal A
Luminal B

FIG. 18A (cont.)

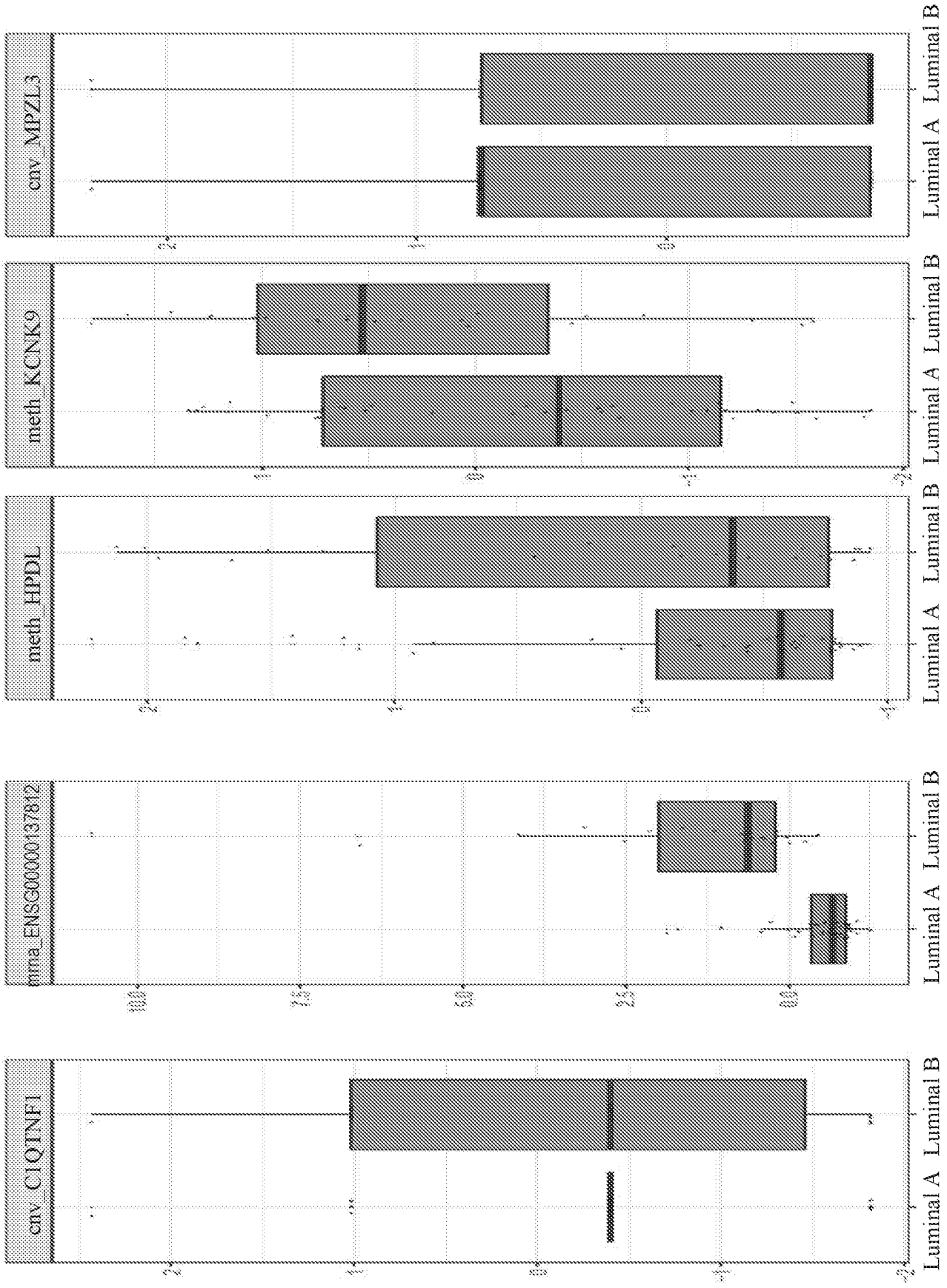

cnv_MPZL3
meth_KCNK9
meth_HPDL
mrna_ENSG00000137812
cnv_C1QTNF1
Luminal A
Luminal B

FIG. 18A (cont.)

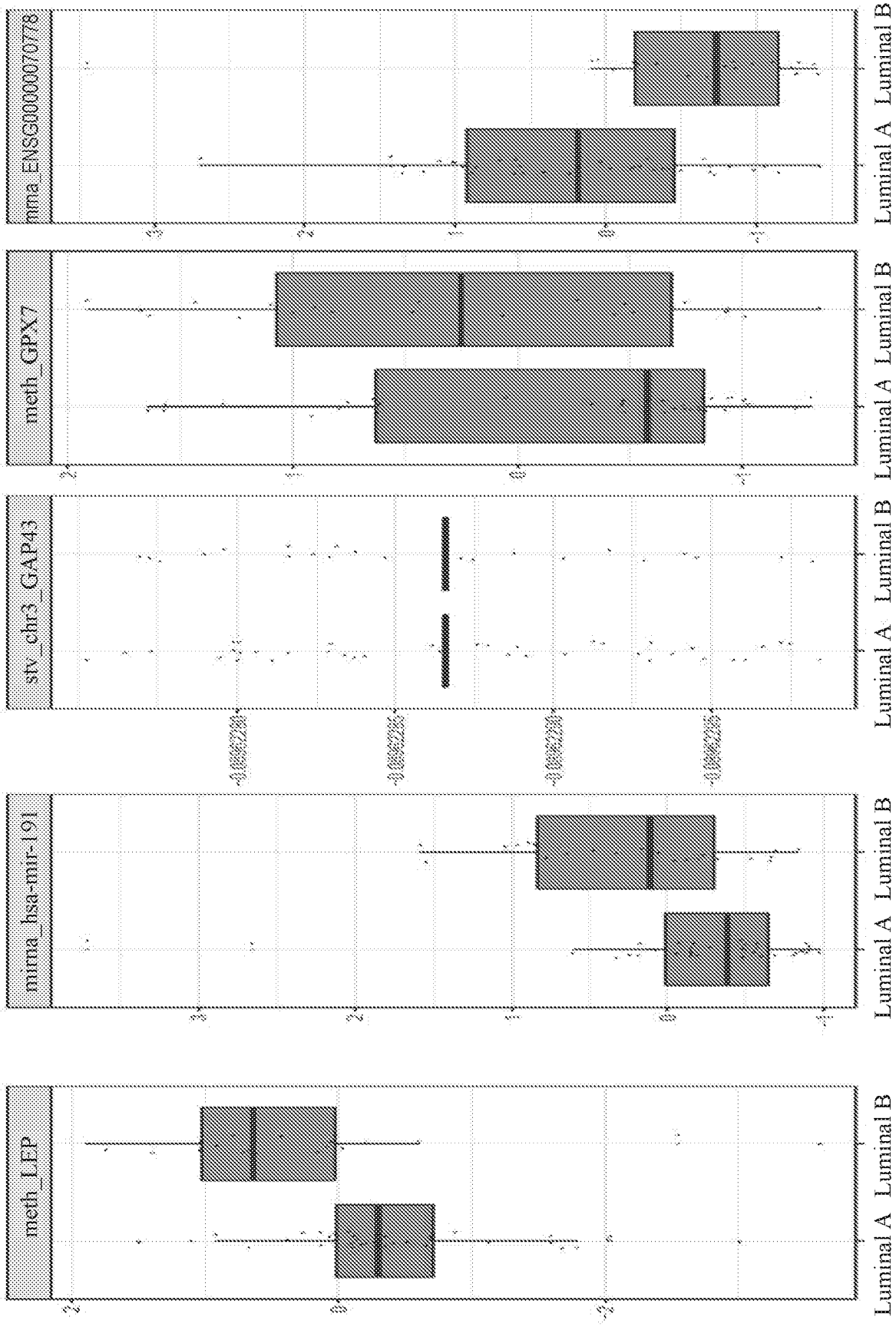

meth_LEP
mirna_hsa-mir-191
stv_chr3_GAP43
meth_GPX7
mirna_ENSG00000070778
Luminal A
Luminal B

FIG. 18A (cont.)

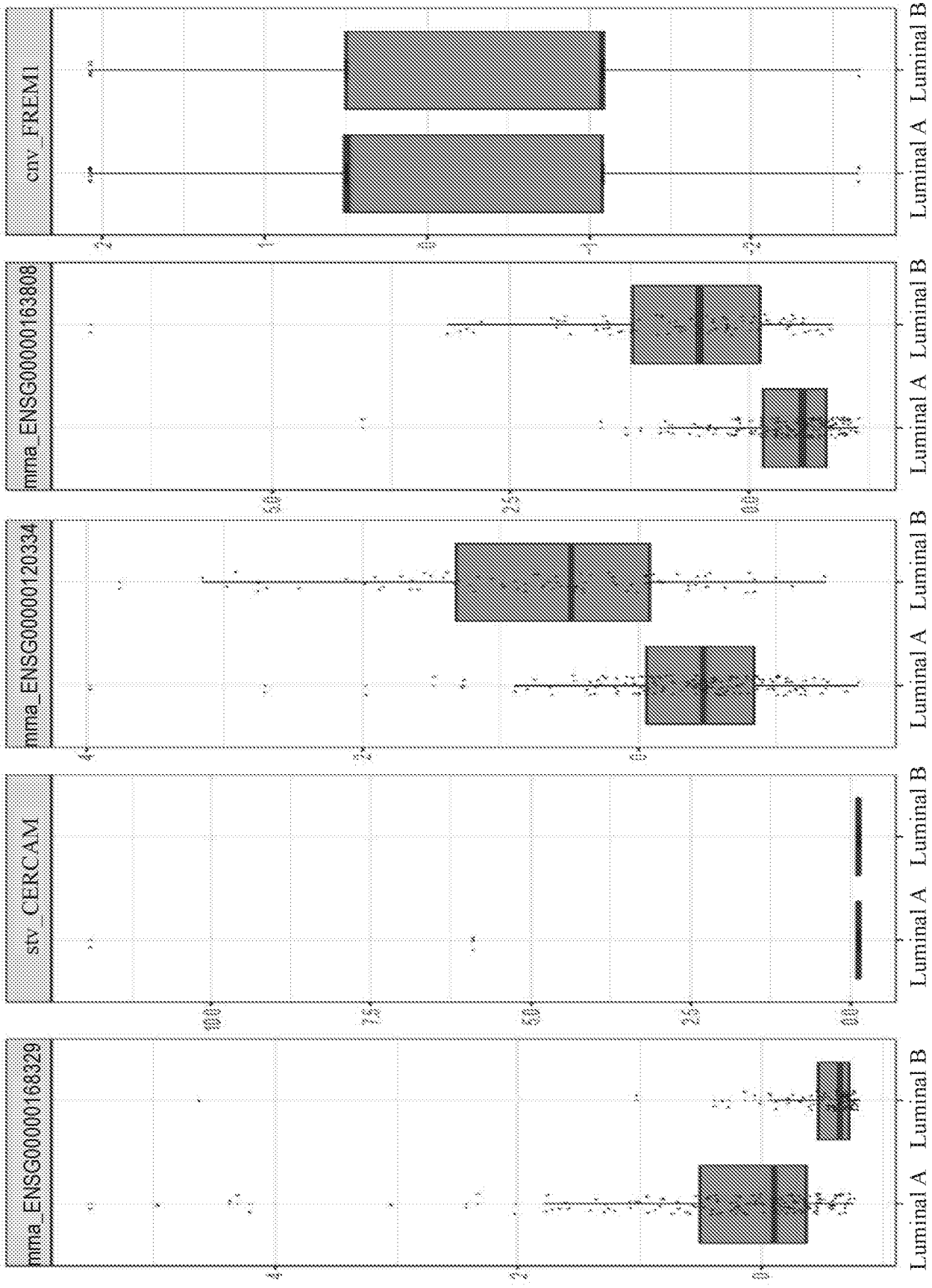

mrna_ENSG00000168329
Luminal A
Luminal B
stv_CERCAM
Luminal A
Luminal B
mrna_ENSG00000120334
Luminal A
Luminal B
mrna_ENSG00000163808
Luminal A
Luminal B
cnv_FREM1
Luminal A
Luminal B

FIG. 18B

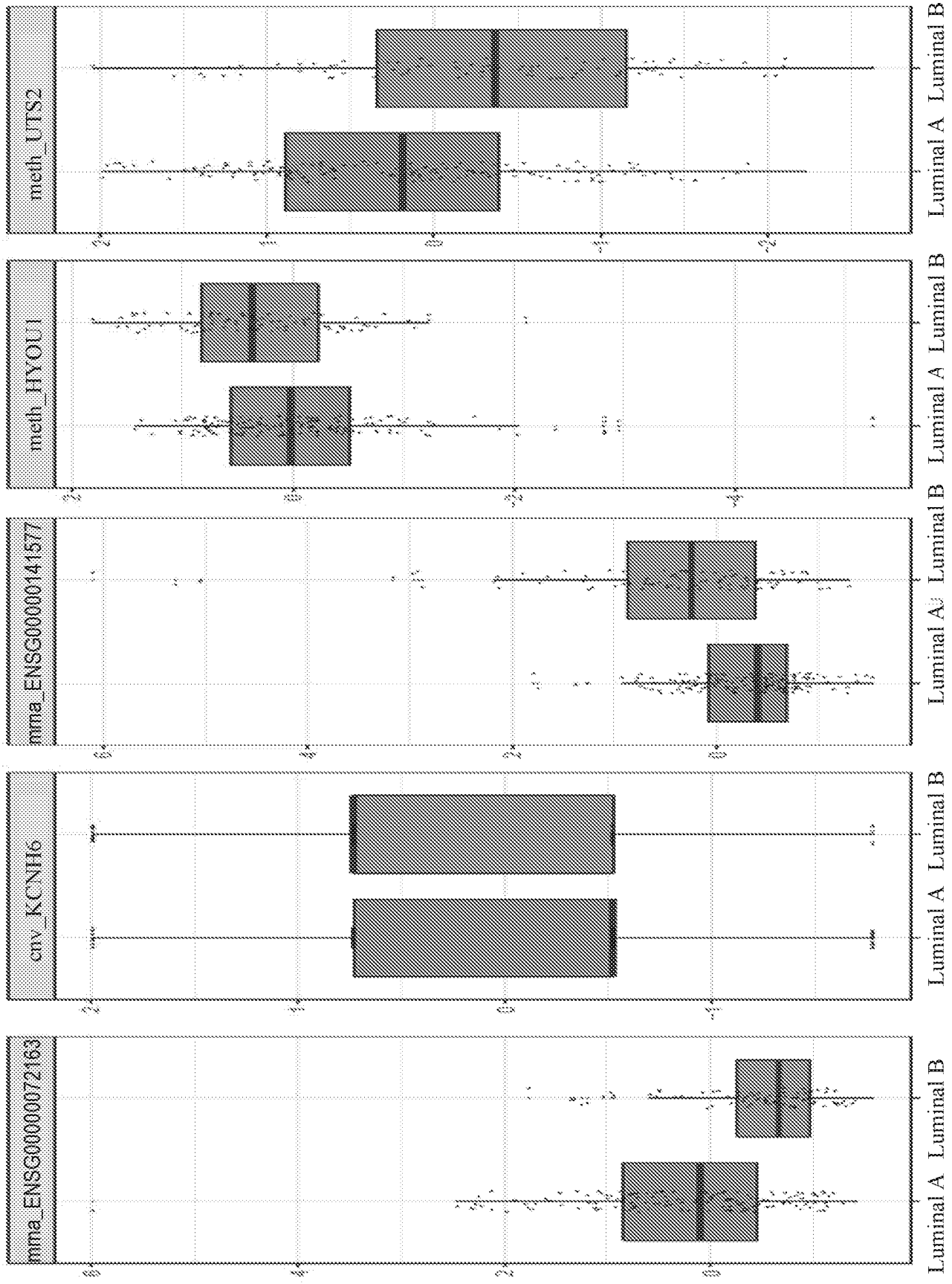

meth_UTS2
meth_HYOU1
mma_ENSG00000141577
cnv_KCNH6
mma_ENSG00000072163
Luminal A
Luminal B

FIG. 18B (cont.)

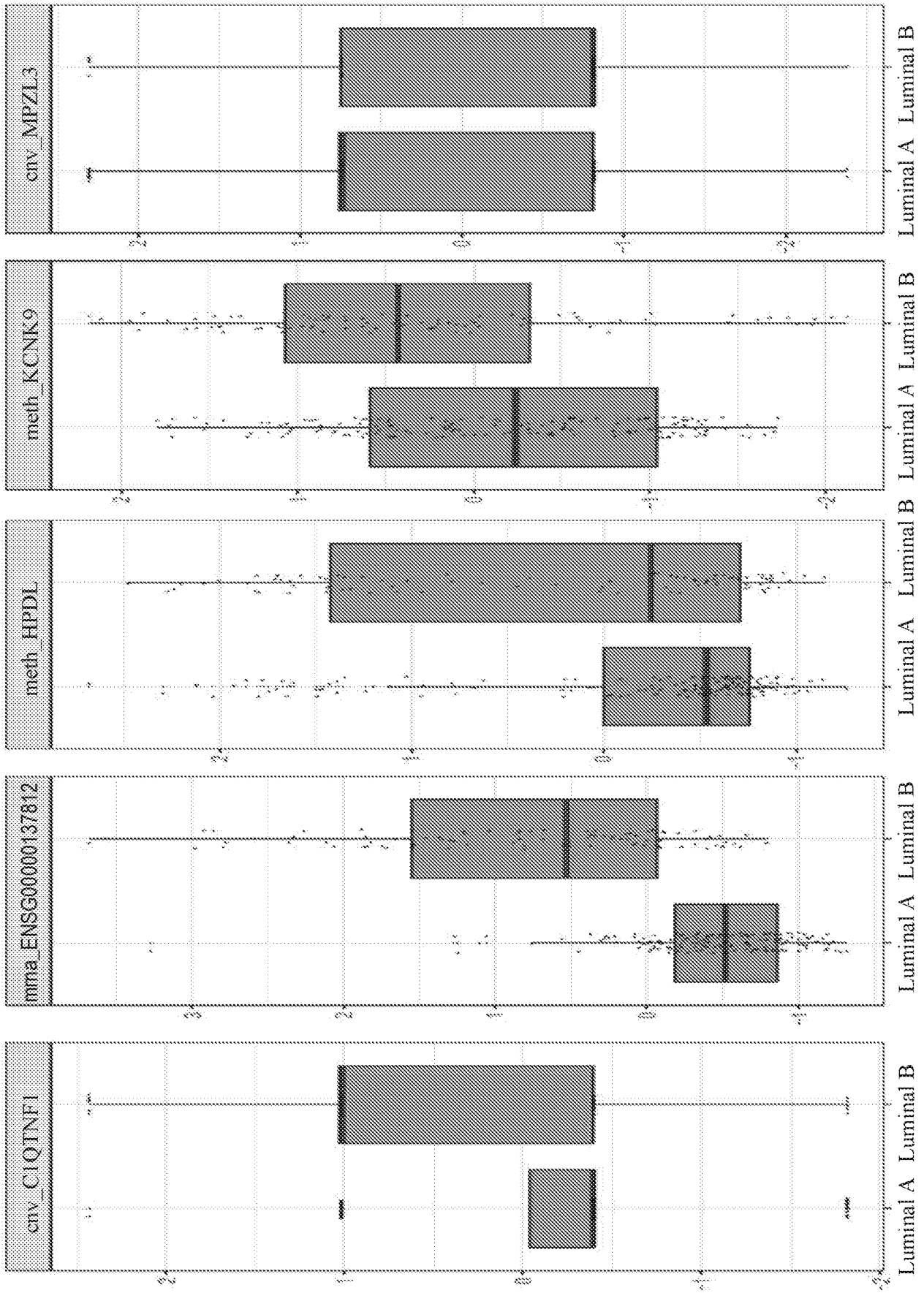

cnv_MPZL3
meth_KCNK9
meth_HPDL
mma_ENSG00000137812
cnv_C1QTNF1
Luminal A
Luminal B

FIG. 18B (cont.)

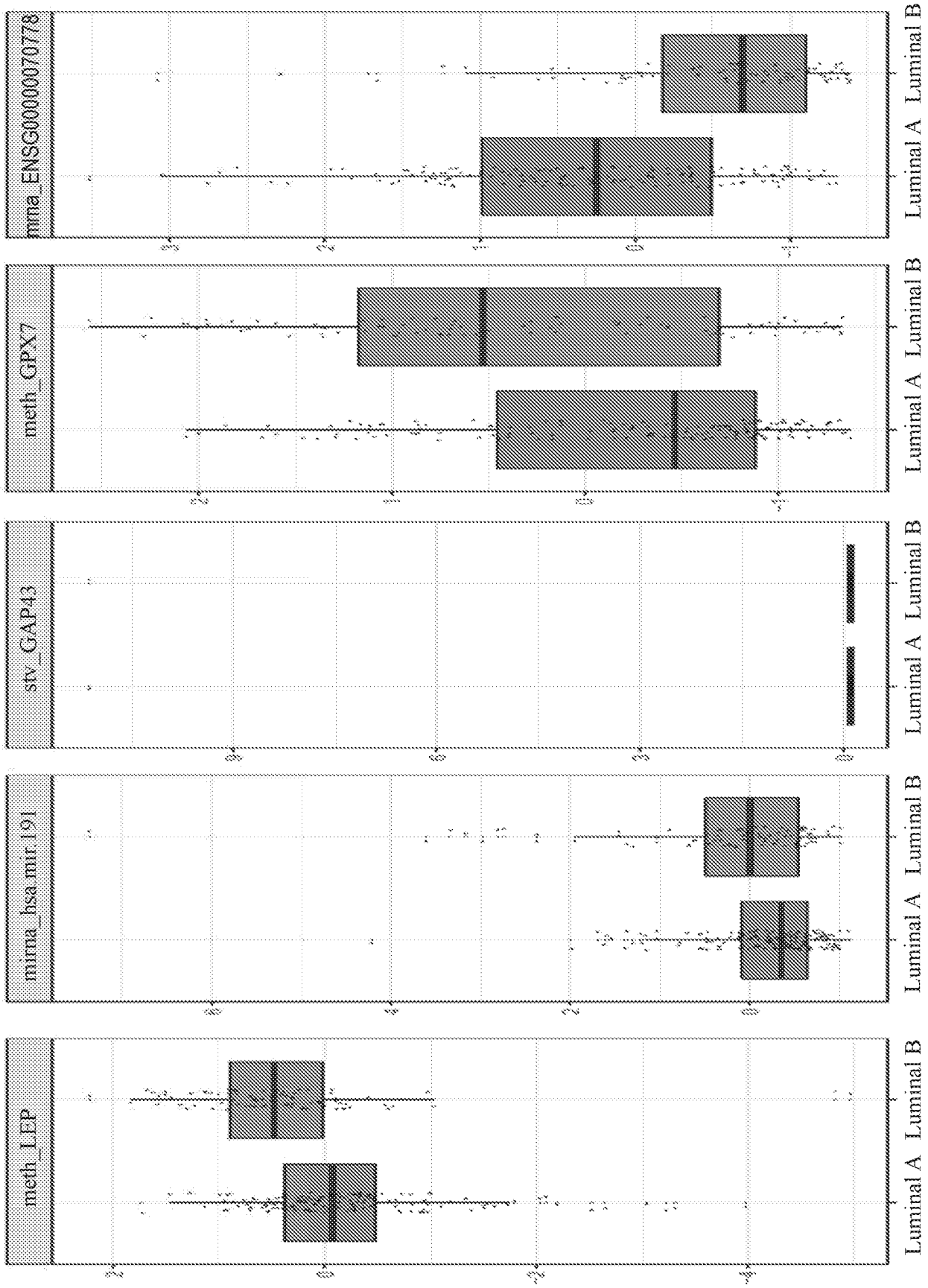

meth_LEP
mirna_hsa.mir.191
stv_GAP43
meth_GPX7
mrna_ENSG00000070778
Luminal A
Luminal B

FIG. 18B (cont.)

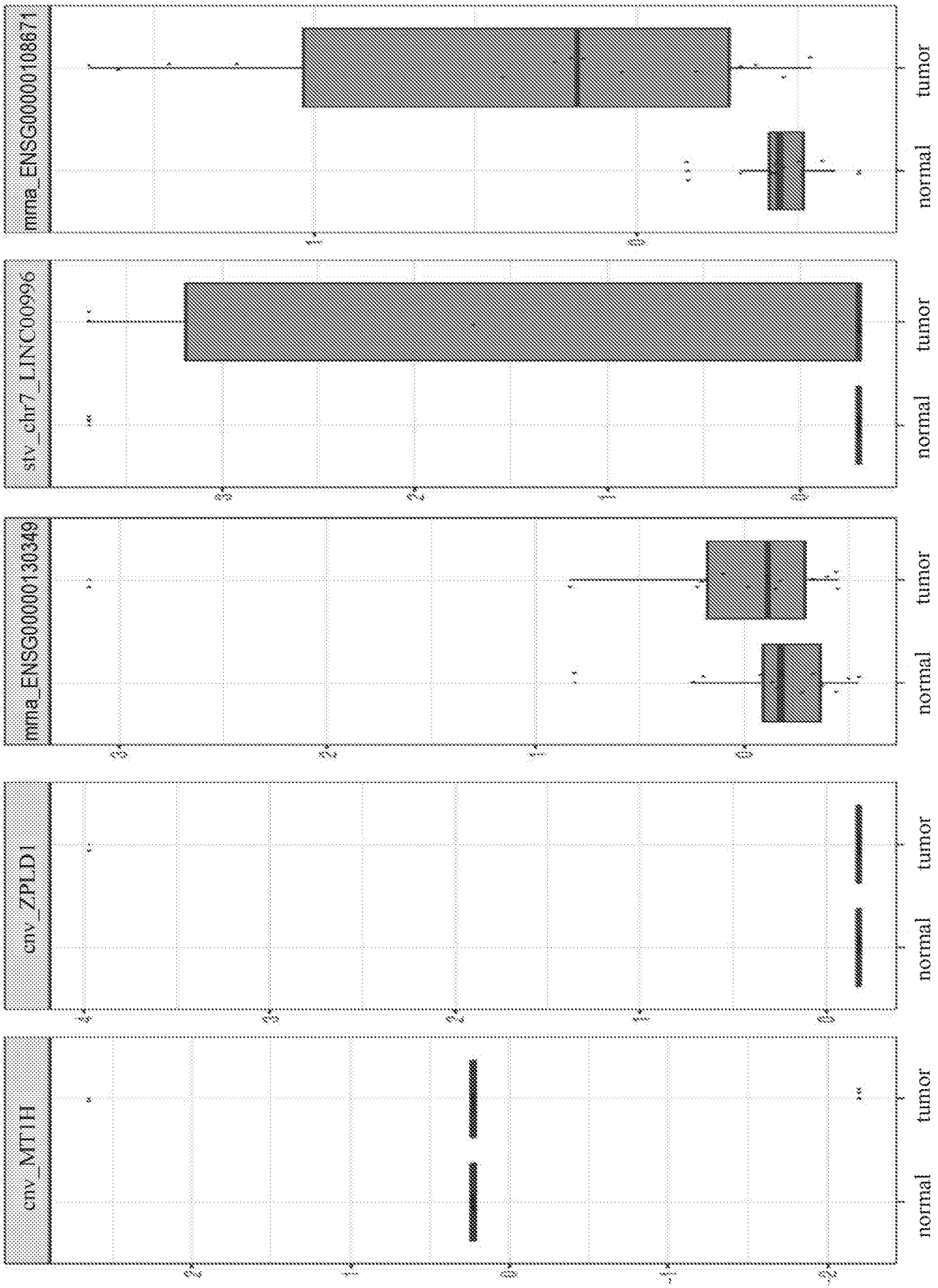

mma_ENSG00000108671
stv_chr7_LINC00996
mma_ENSG00000130349
cnv_ZPLD1
cnv_MTTH
normal
tumor

FIG. 19A

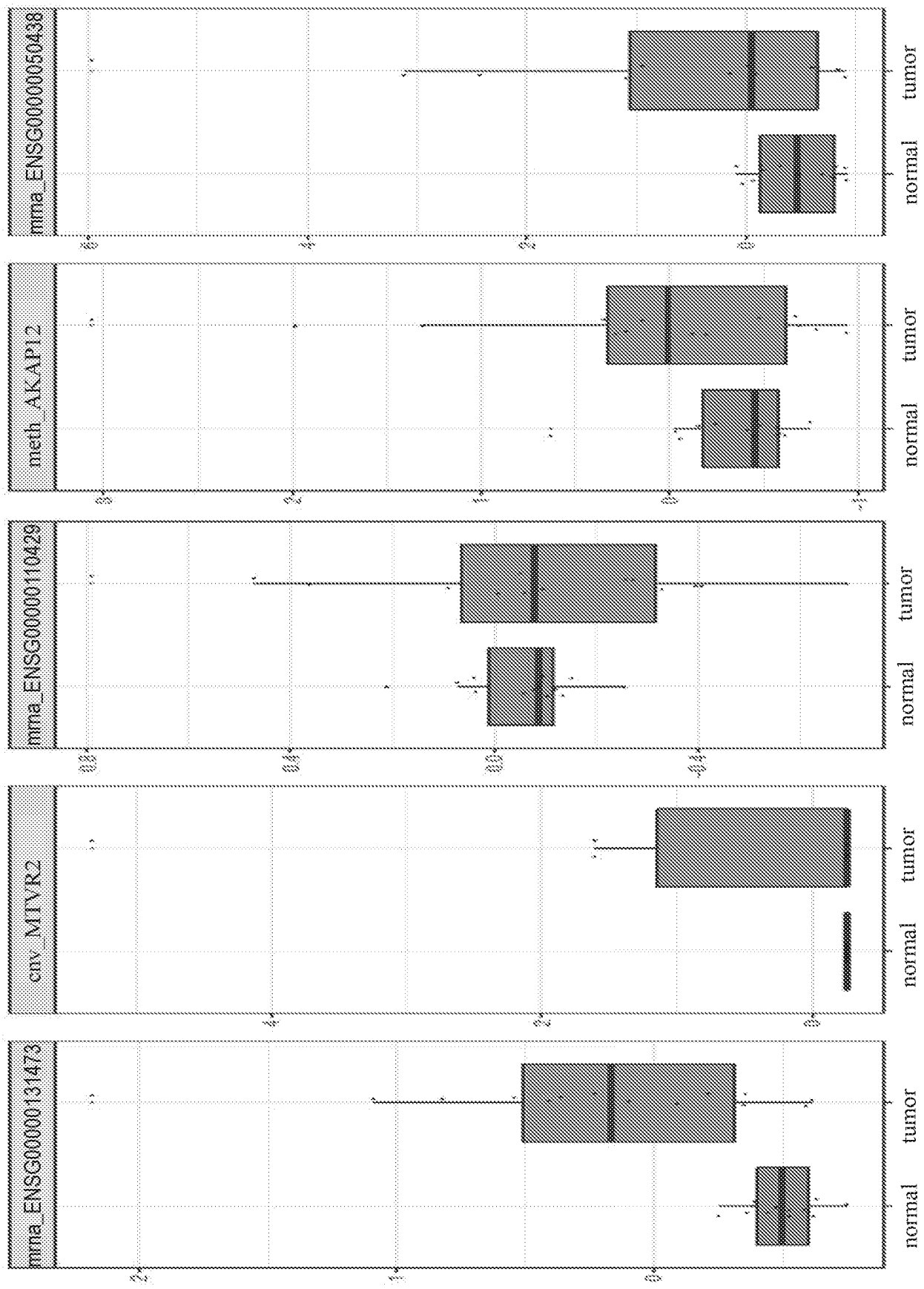

mrna_ENSG00000131473
cnv_MTVR2
mrna_ENSG00000110429
meth_AKAP12
mrna_ENSG00000050438
normal
tumor

FIG. 19A (cont.)

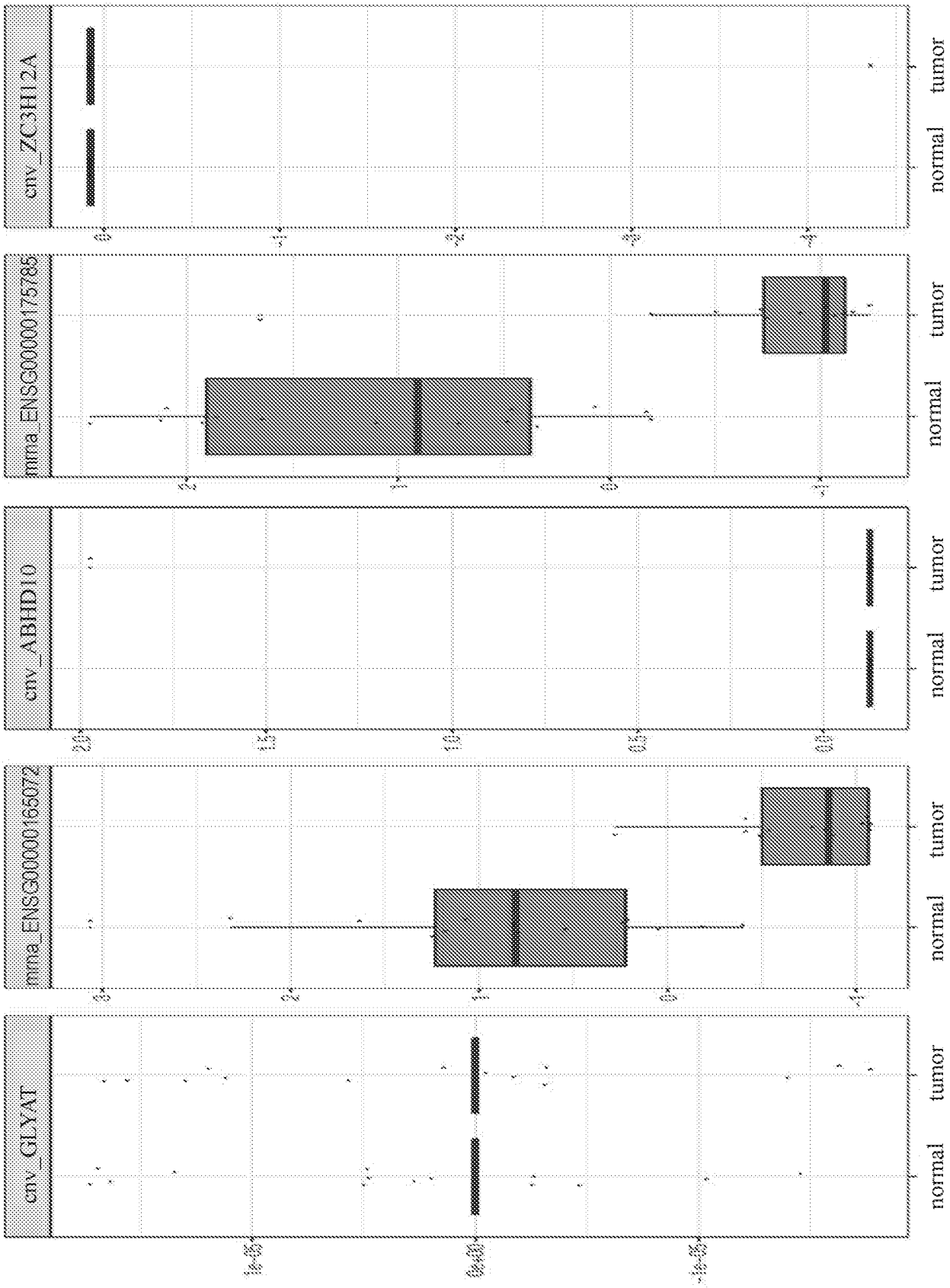

cnv_GLYAT
mna_ENSG00000165072
cnv_ABHD10
mna_ENSG00000175785
cnv_ZC3H12A
normal
tumor

FIG. 19A (cont.)

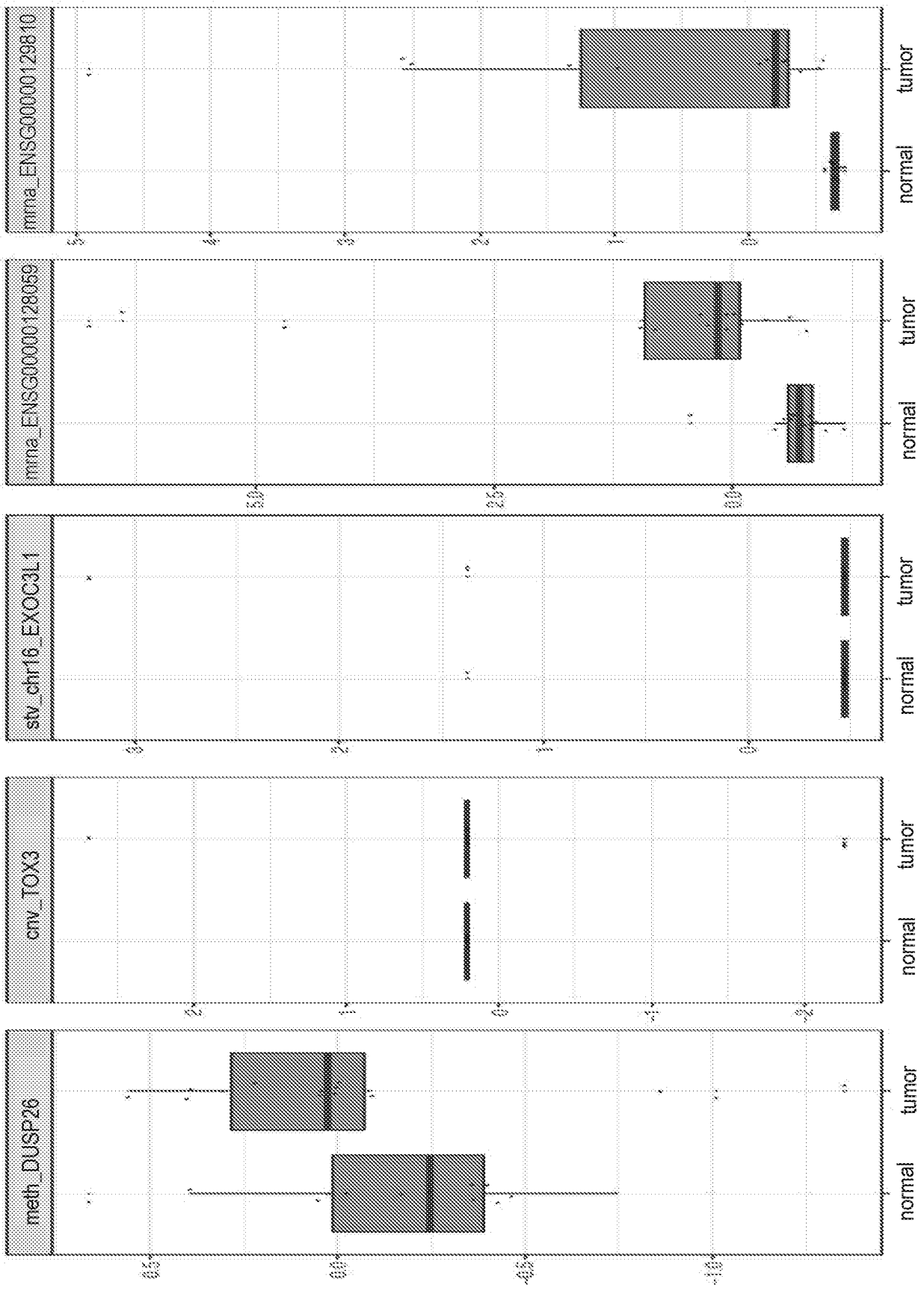

meth_DUSP26
cnv_TOX3
stv_chr16_EXOC3L1
mrna_ENSG00000128059
mrna_ENSG00000129810
normal
tumor

FIG. 19A (cont.)

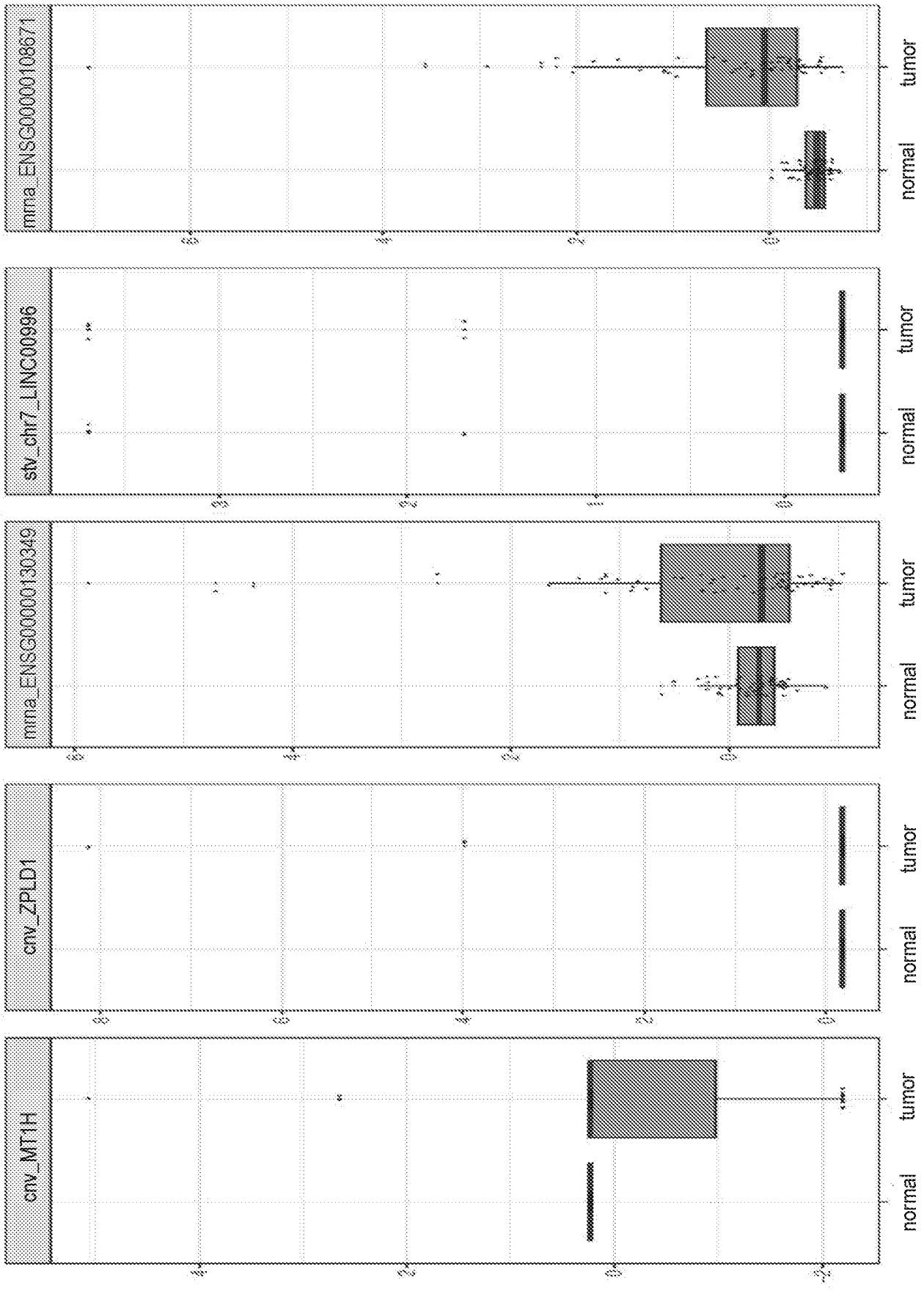

mrna_ENSG00000108671
stv_chr7_LINC00996
mrna_ENSG00000130349
cnv_ZPLD1
cnv_MT1H
normal
tumor

FIG. 19B

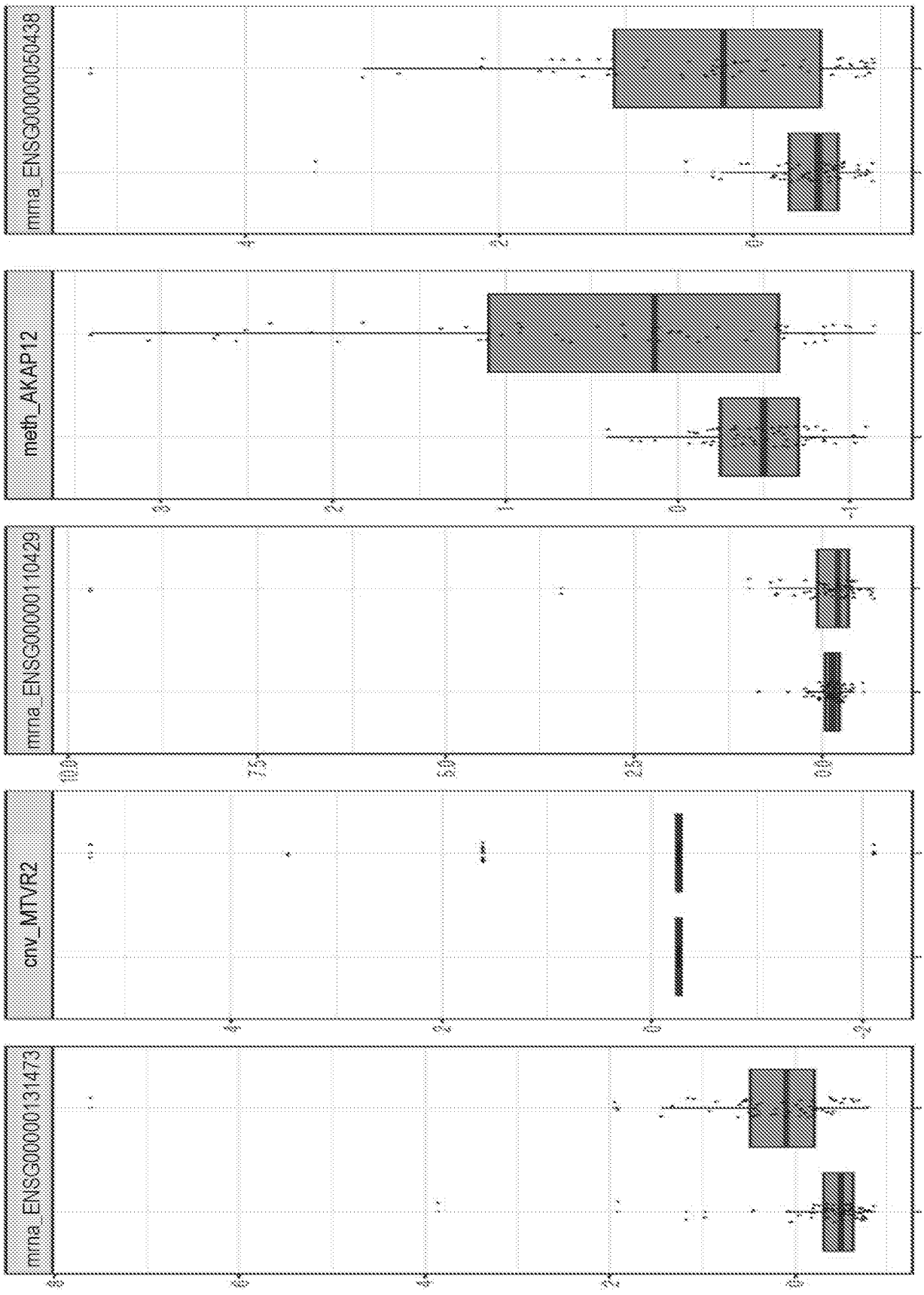

mrna_ENSG00000131473
cnv_MTVR2
mrna_ENSG00000110429
meth_AKAP12
mrna_ENSG00000050438
normal
tumor

FIG. 19B (cont.)

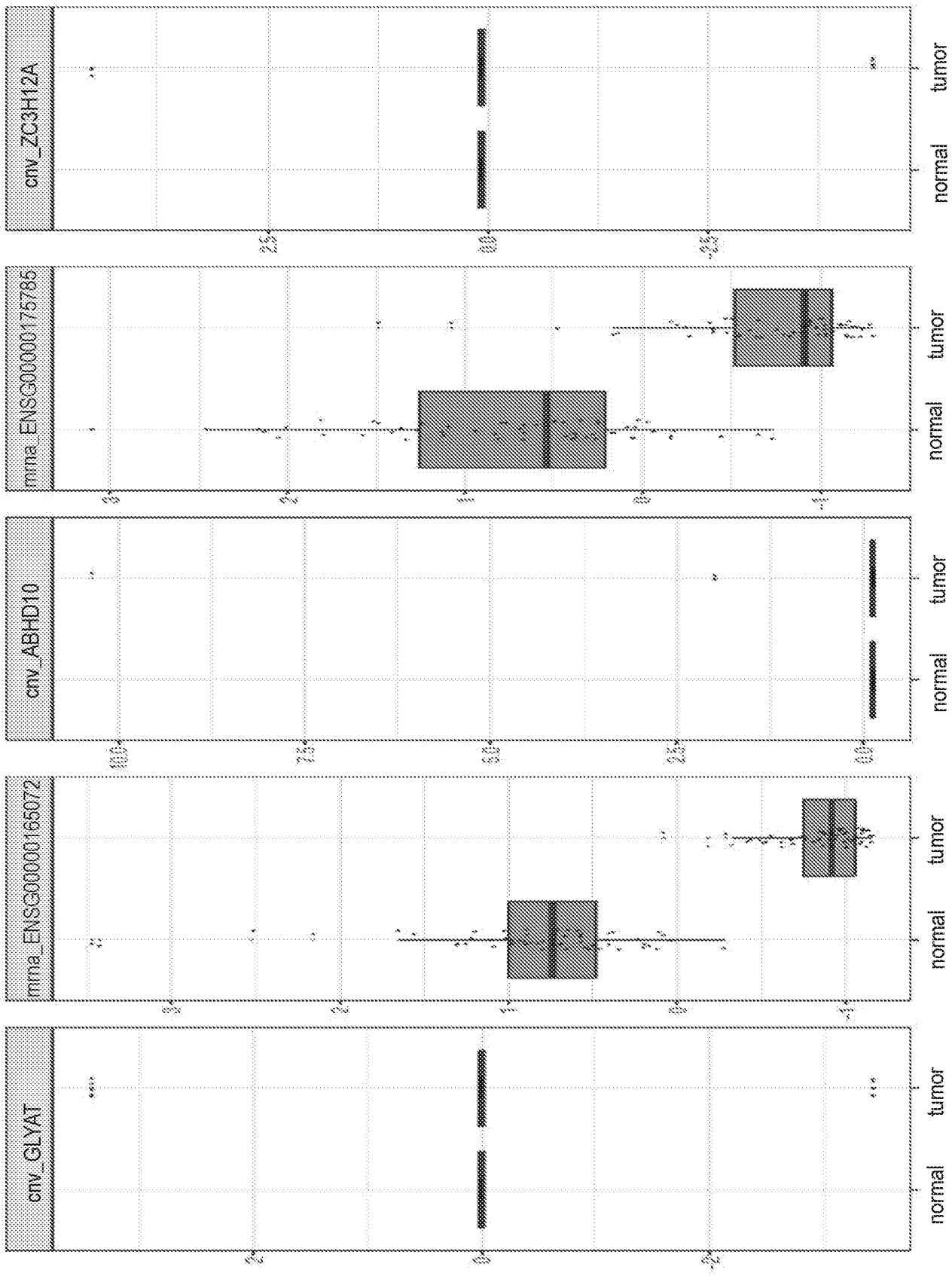

cnv_ZC3H12A
mrna_ENSG00000175785
cnv_ABHD10
mrna_ENSG00000165072
cnv_GLYAT
normal
tumor

FIG. 19B (cont.)

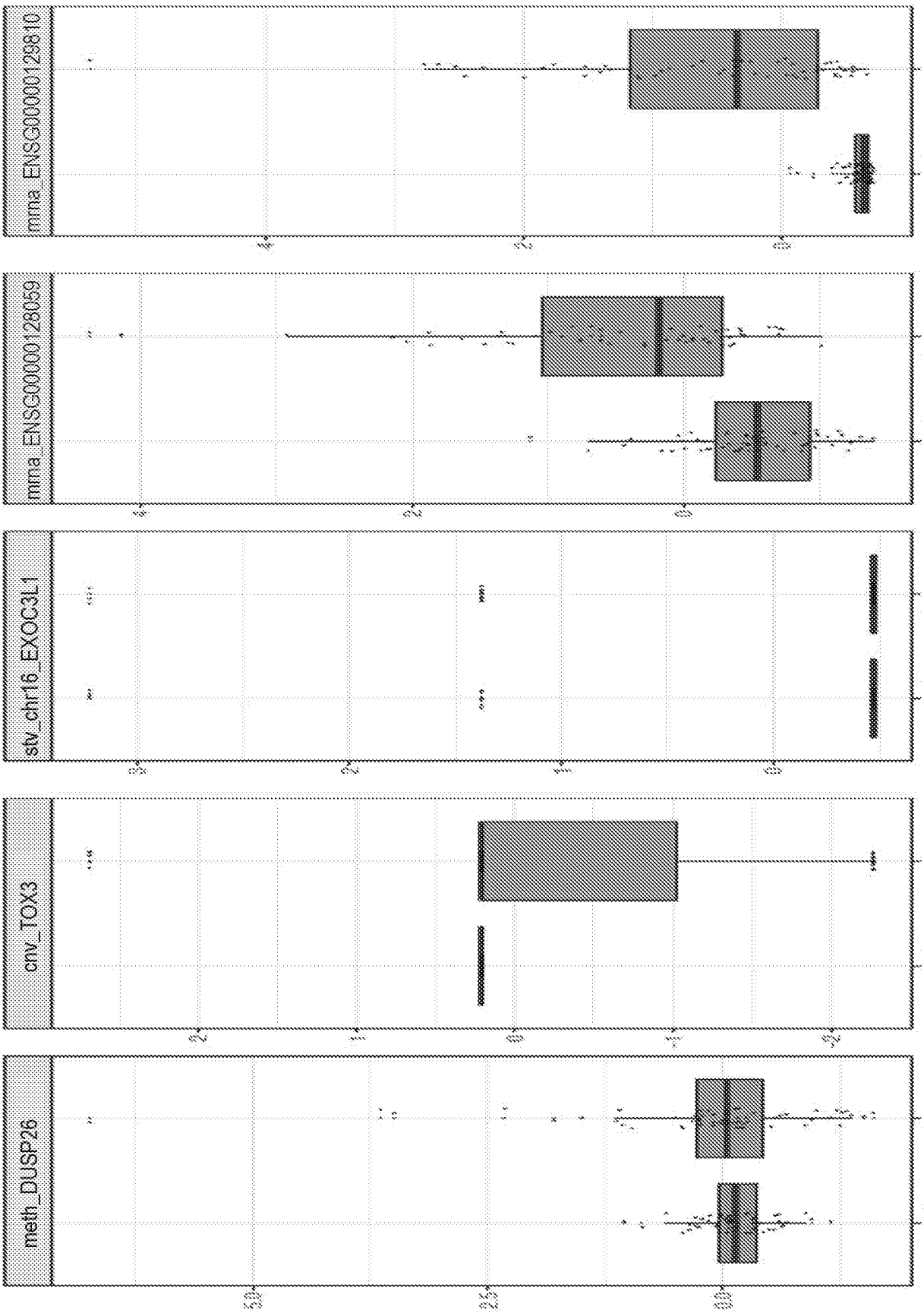

meth_DUSP26
cnv_TOX3
stv_chr16_EXOC3L1
mrna_ENSG00000128059
mrna_ENSG00000129810
normal
tumor

FIG. 19B (cont.)

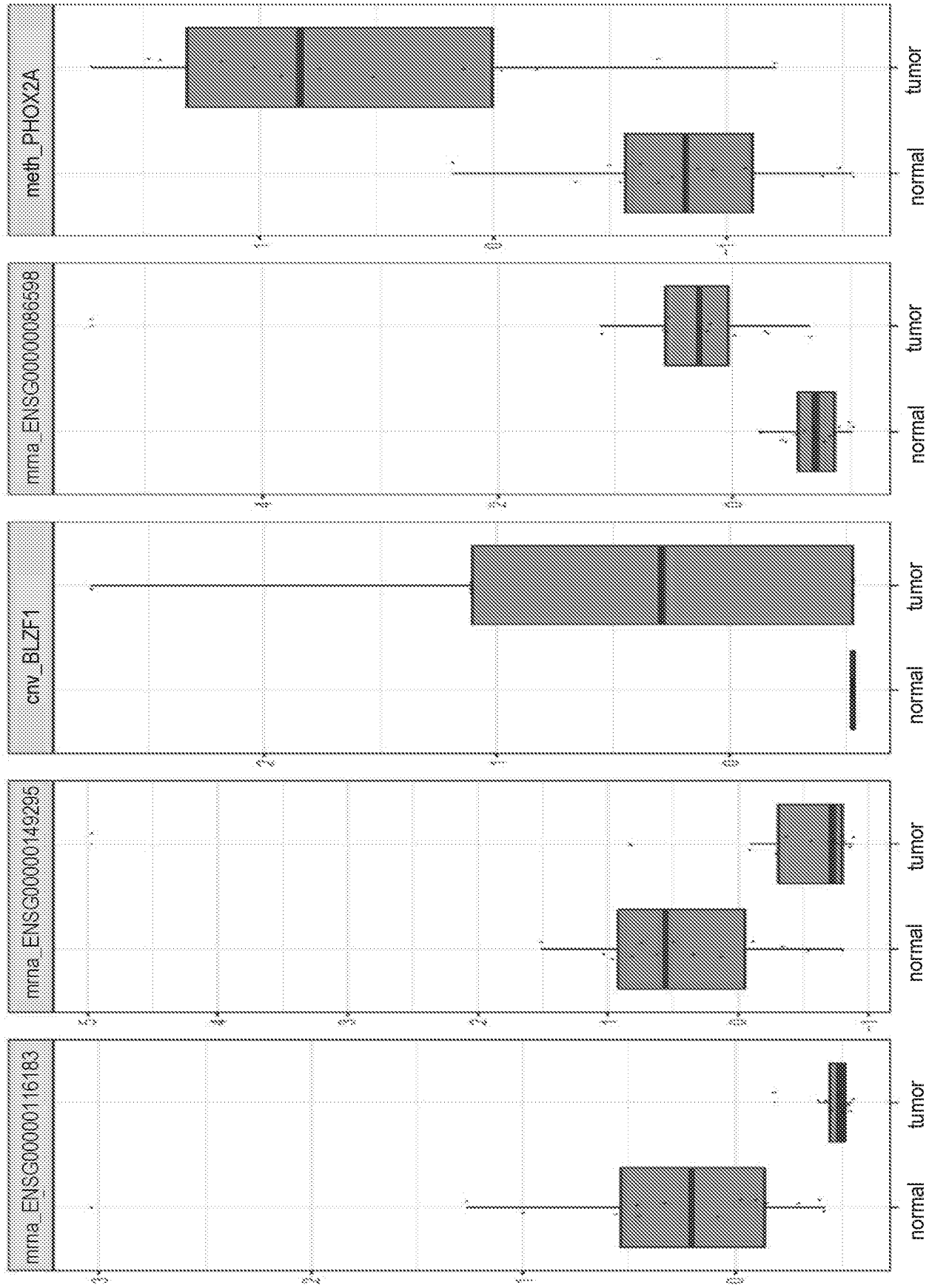

meth_PHOX2A
mrna_ENSG00000086598
cnv_BLZF1
mrna_ENSG00000149295
mrna_ENSG00000116183
normal
tumor

FIG. 20A

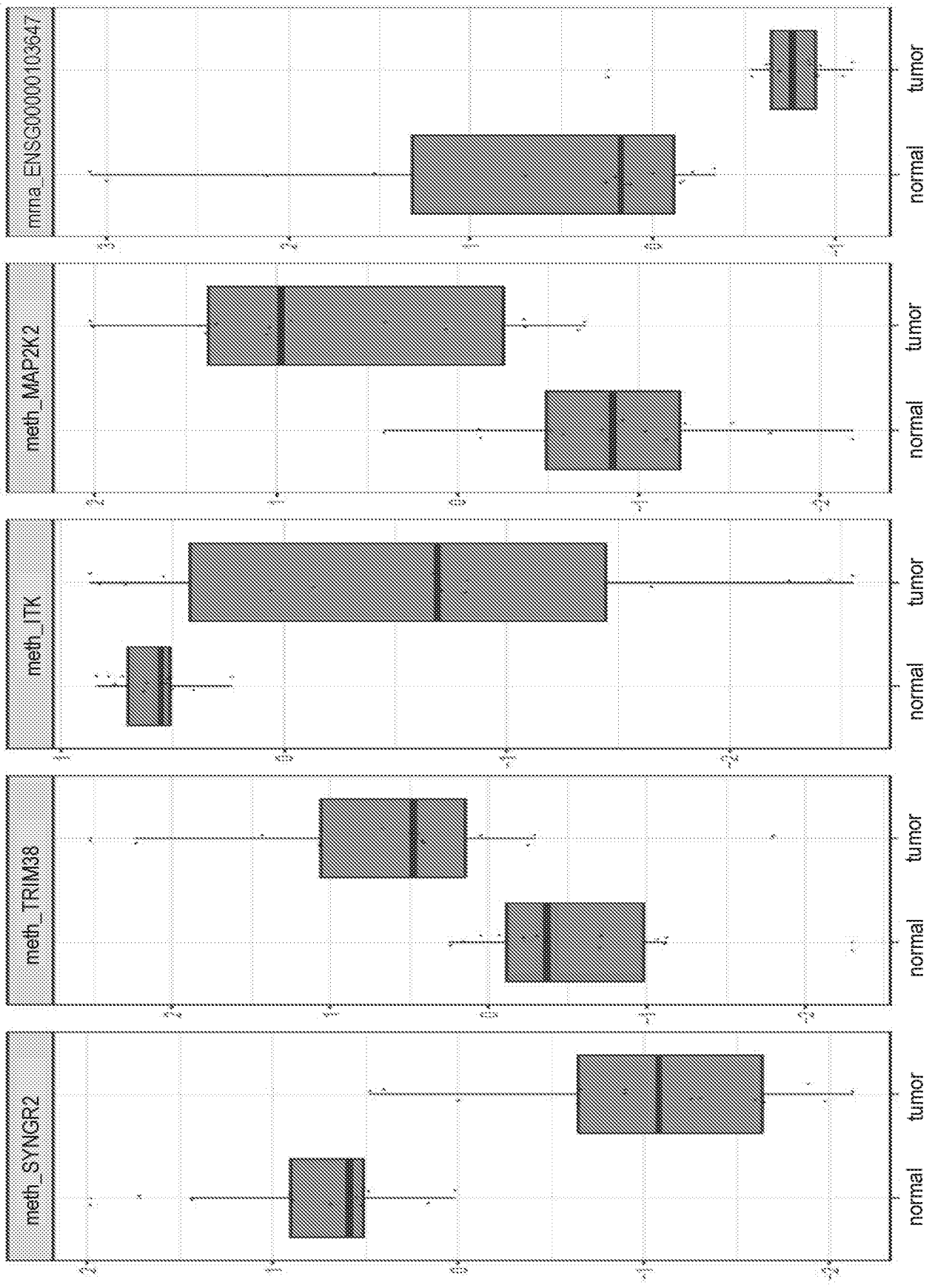

mrna_ENSG00000103647
meth_MAP2K2
meth_ITK
meth_TRIM38
meth_SYNGR2
normal
tumor

FIG. 20A (cont.)

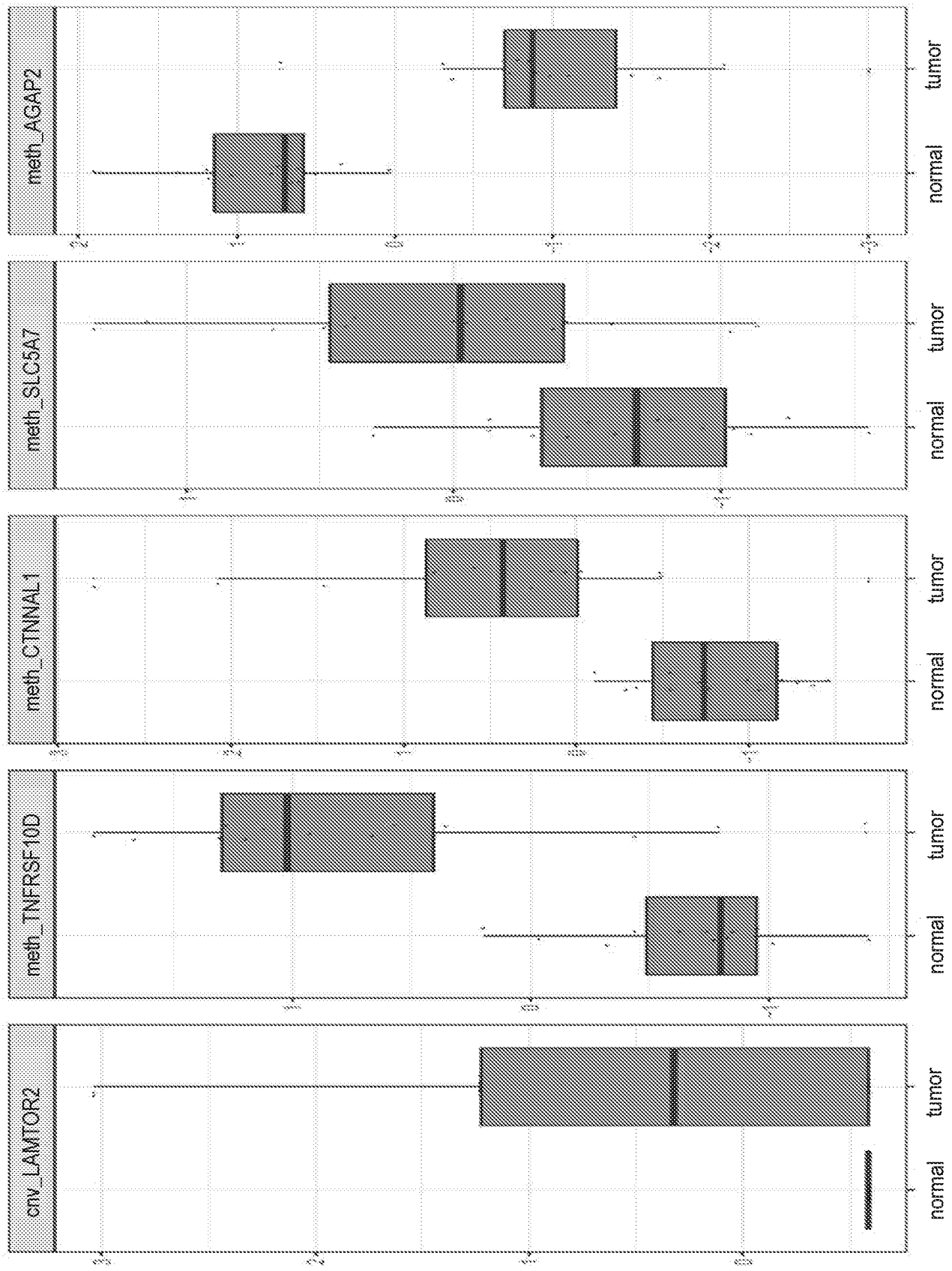

meth_AGAP2
meth_SLC5A7
meth_CTNNAL1
meth_TNFRSF10D
cnv_LAMTOR2
normal
tumor

FIG. 20A (cont.)

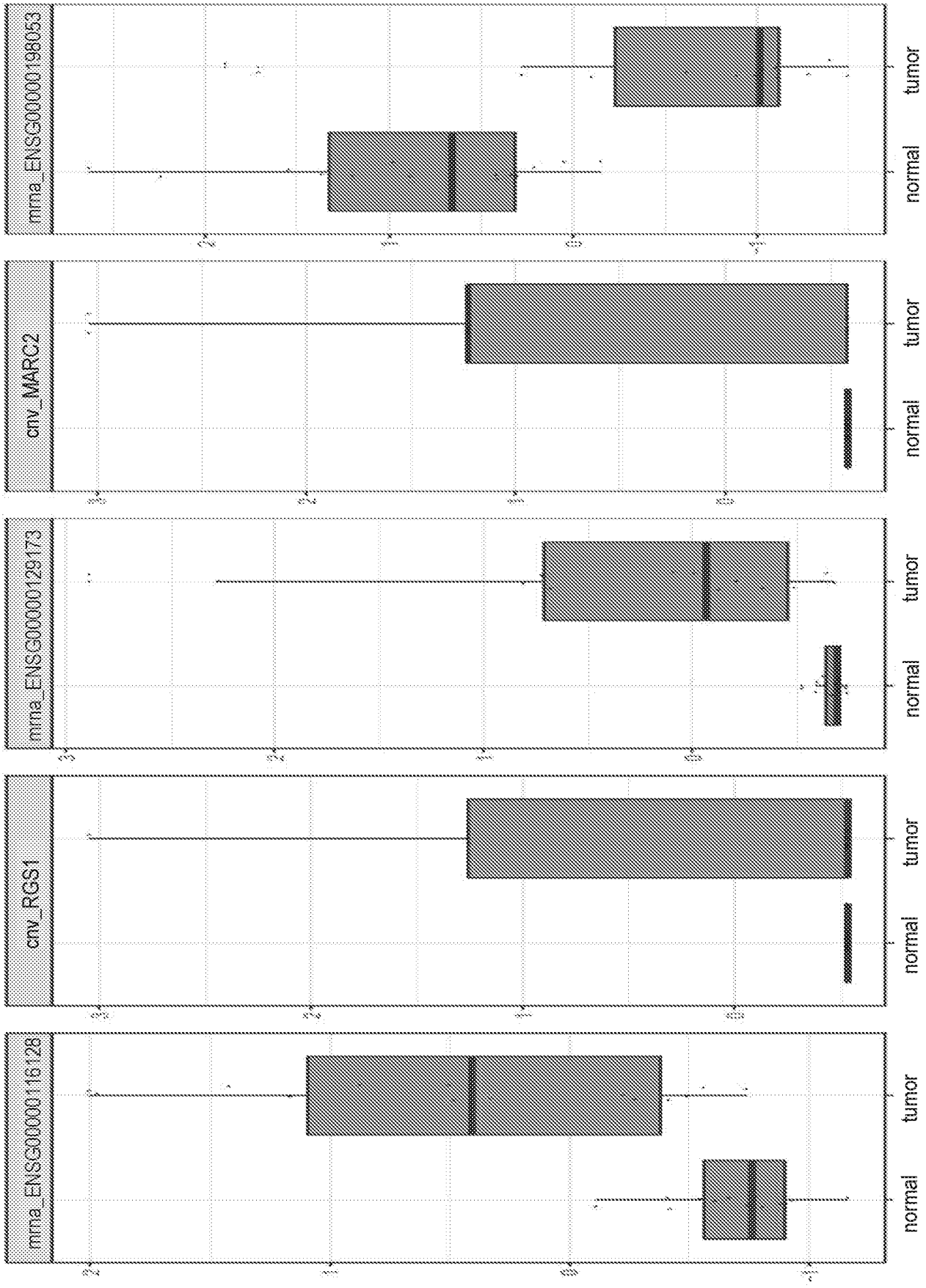

mrna_ENSG00000116128
cnv_RGS1
mrna_ENSG00000129173
cnv_MARC2
mrna_ENSG00000198053
normal
tumor

FIG. 20A (cont.)

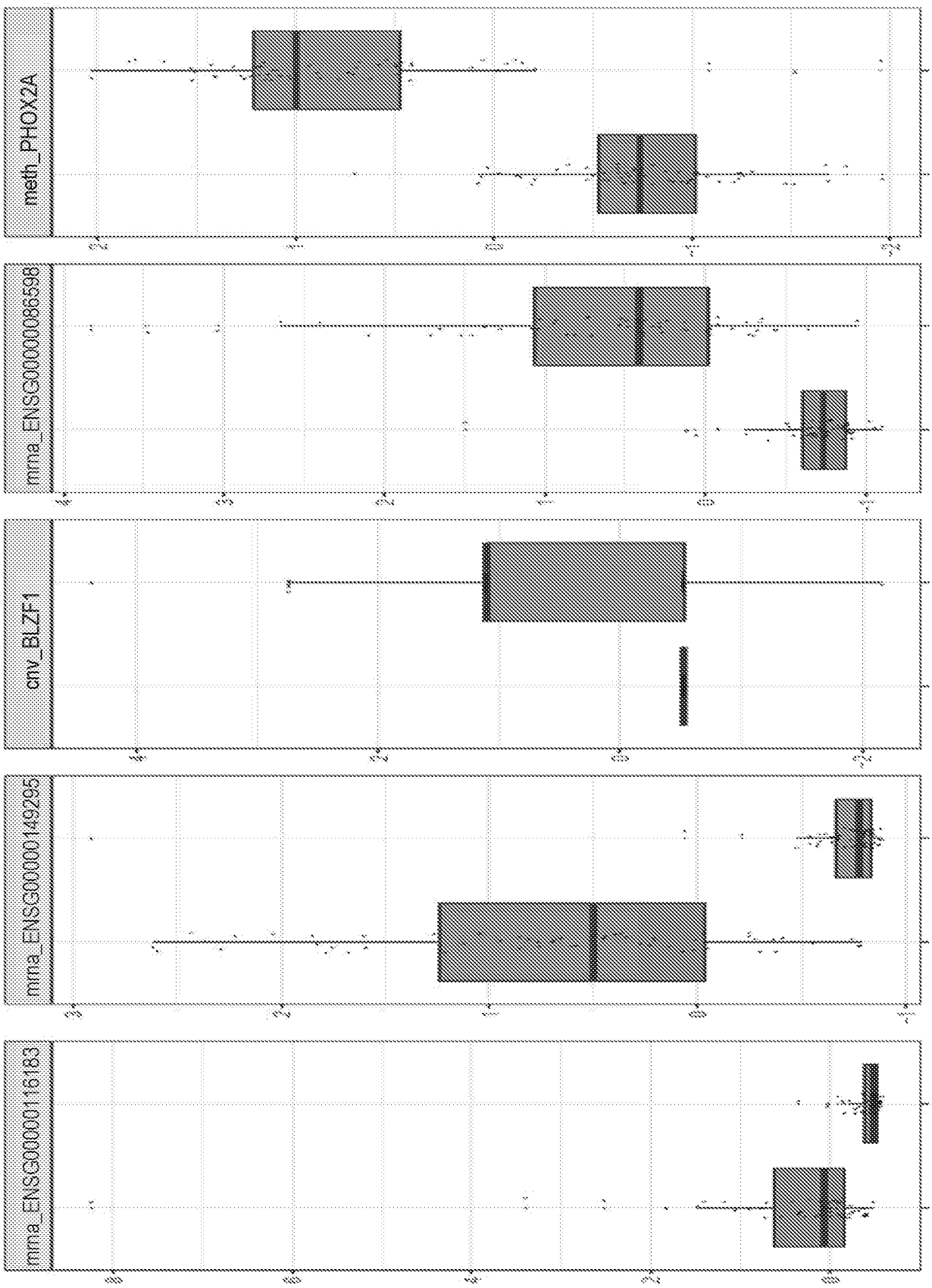

meth_PHOX2A
mrna_ENSG00000086598
cnv_BLZF1
mrna_ENSG00000149295
mrna_ENSG00000116183
normal
tumor

FIG. 20B

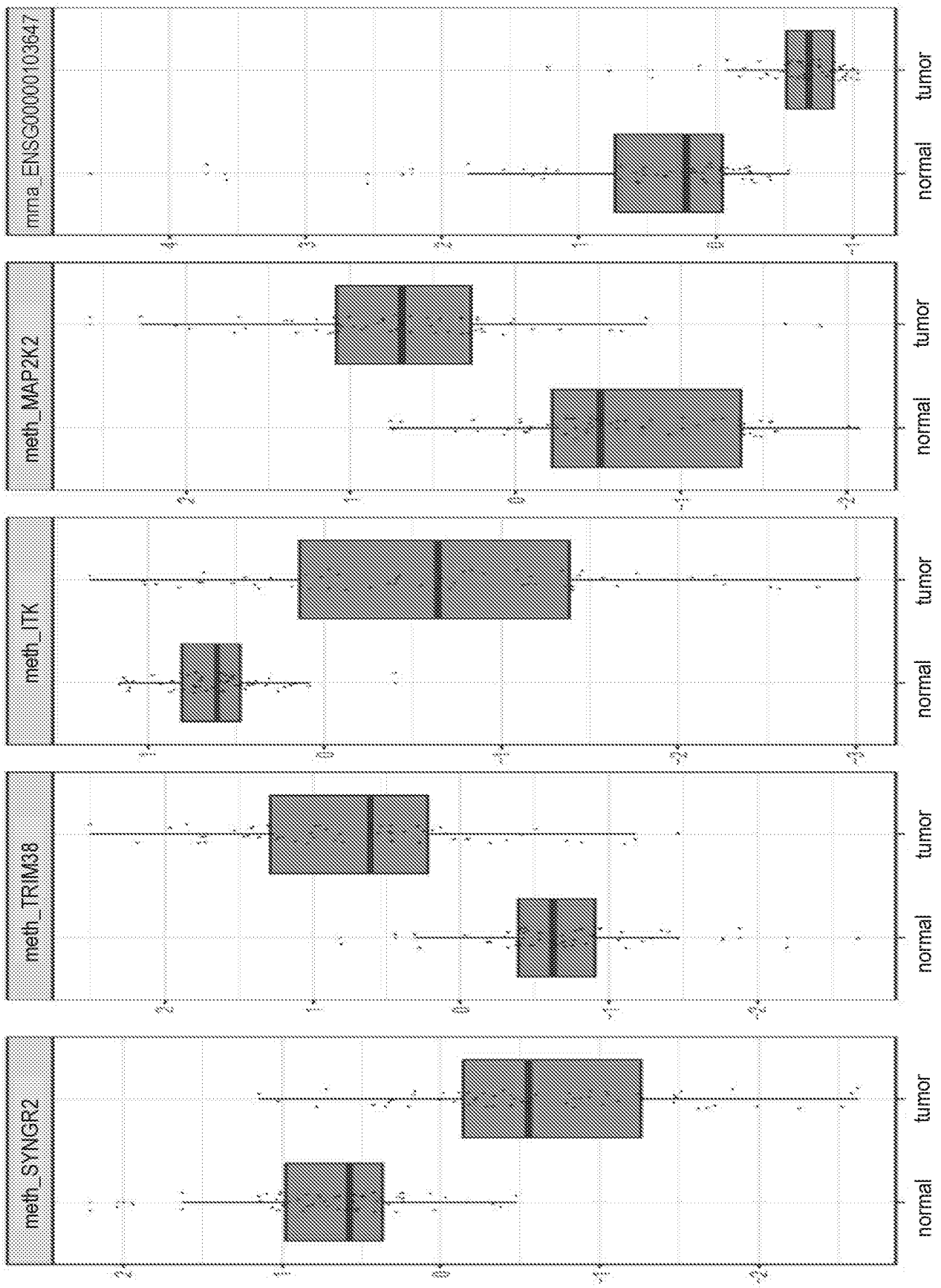

mrna_ENSG00000103647
meth_MAP2K2
meth_ITK
meth_TRIM38
meth_SYNGR2
normal
tumor

FIG. 20B (cont.)

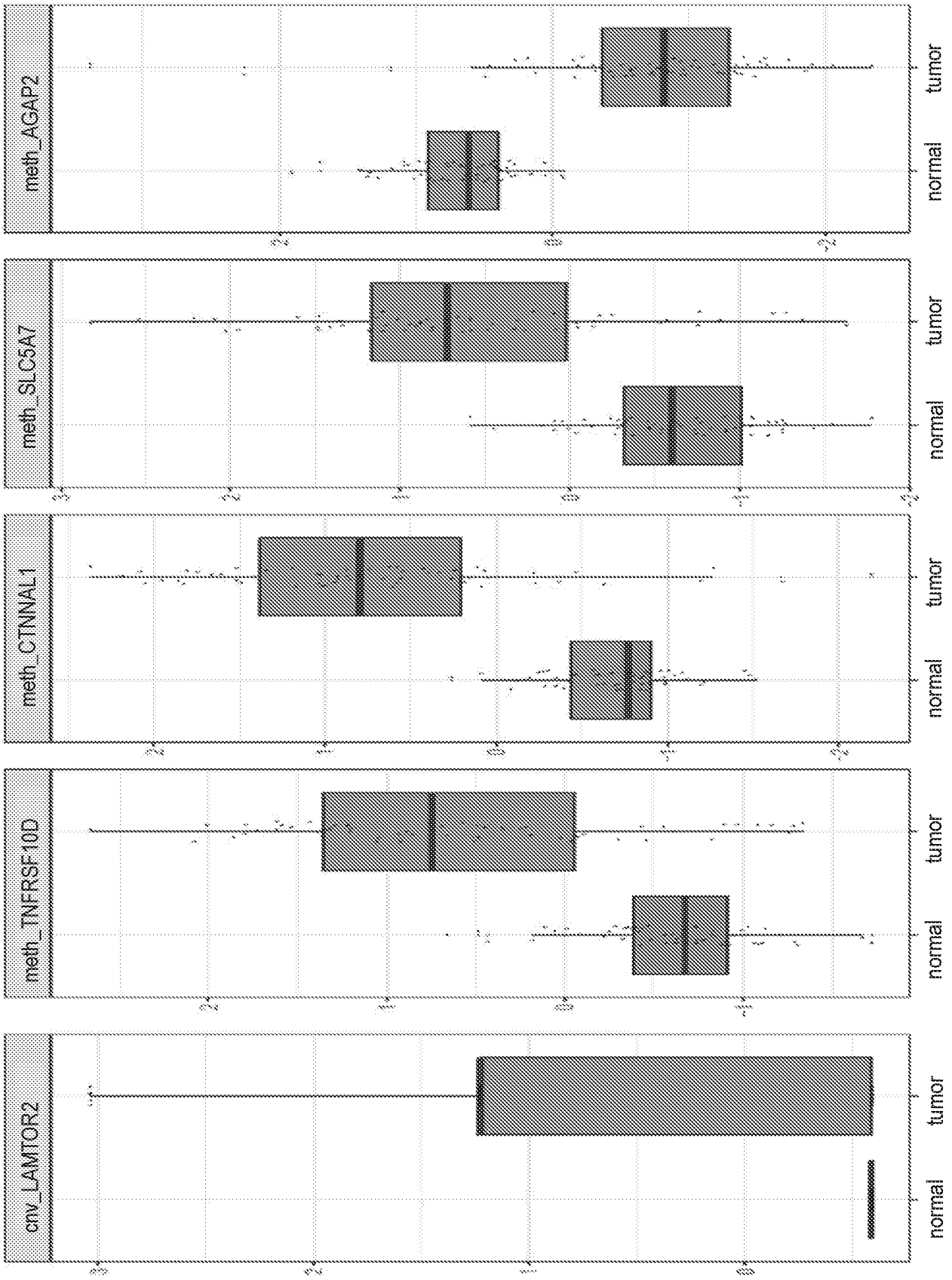

meth_AGAP2
meth_SLC5A7
meth_CTNNAL1
meth_TNFRSF10D
cnv_LAMTOR2
normal
tumor

FIG. 20B (cont.)

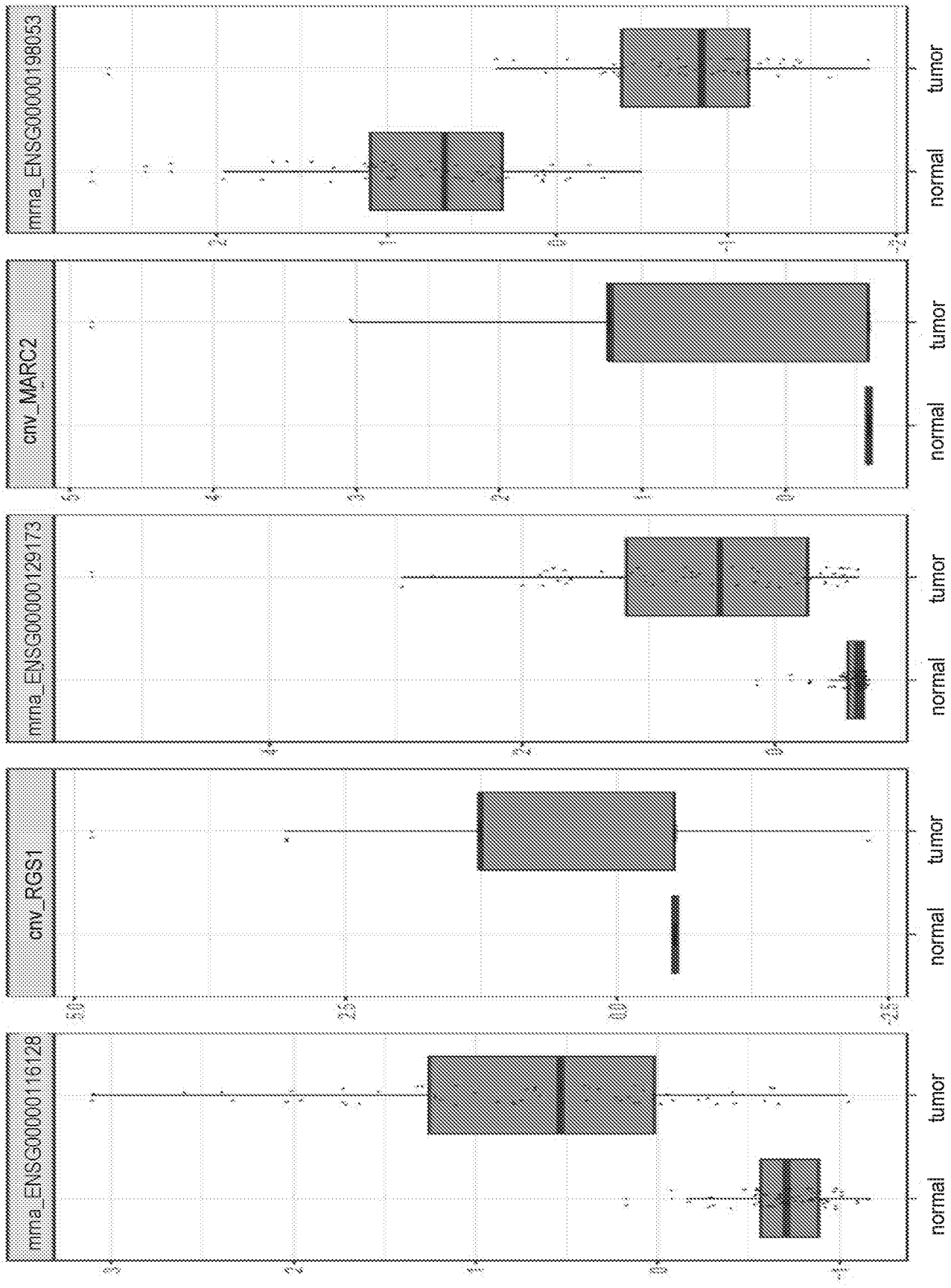

mrna_ENSG00000198053
cnv_MARC2
mrna_ENSG00000129173
cnv_RGS1
mrna_ENSG00000116128
normal
tumor

FIG. 20B (cont.)

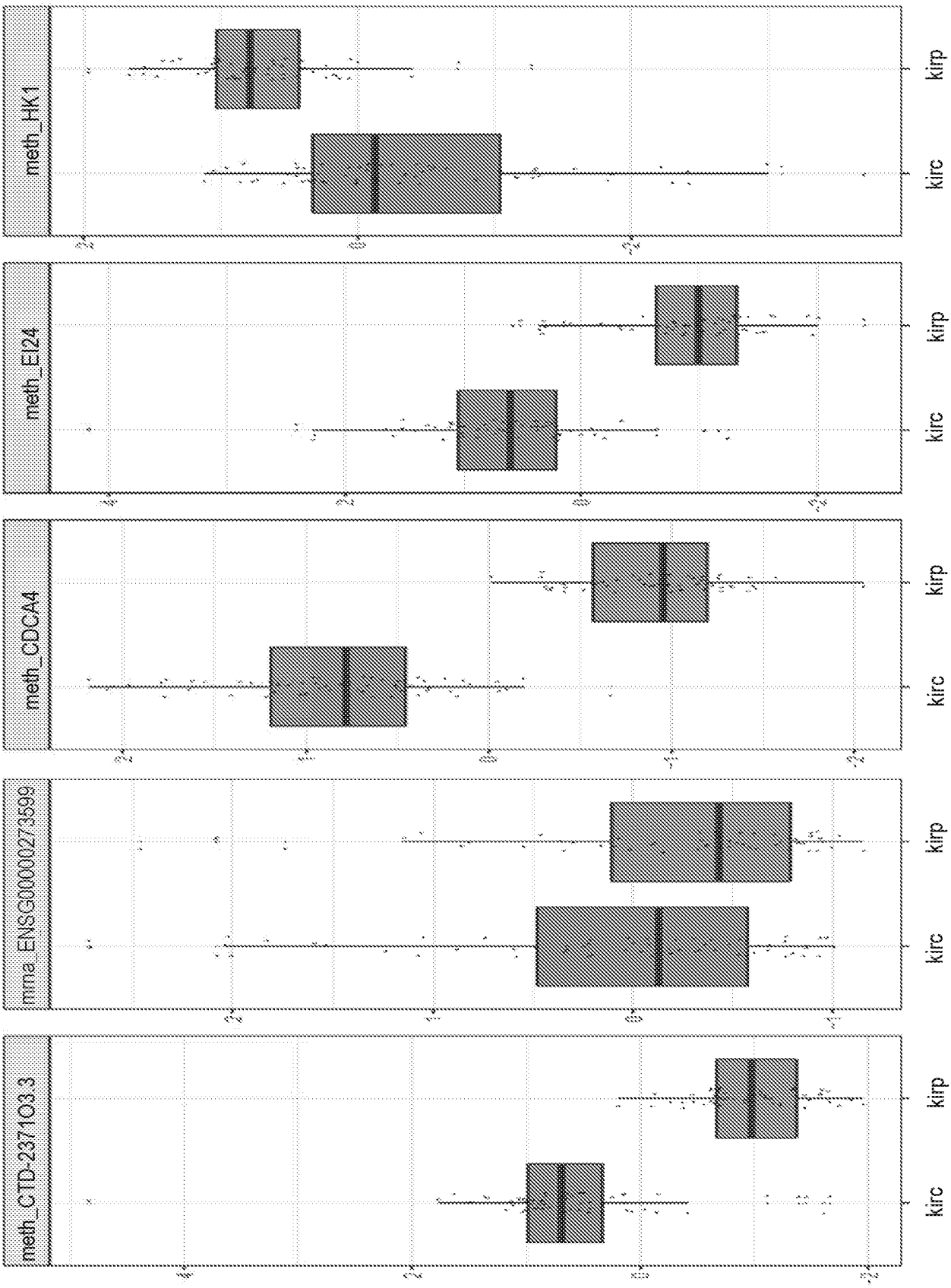

meth_HK1
meth_EI24
meth_CDCA4
mrna_ENSG00000273599
meth_CTD-2371O3.3
kirp
kirc

FIG. 21A

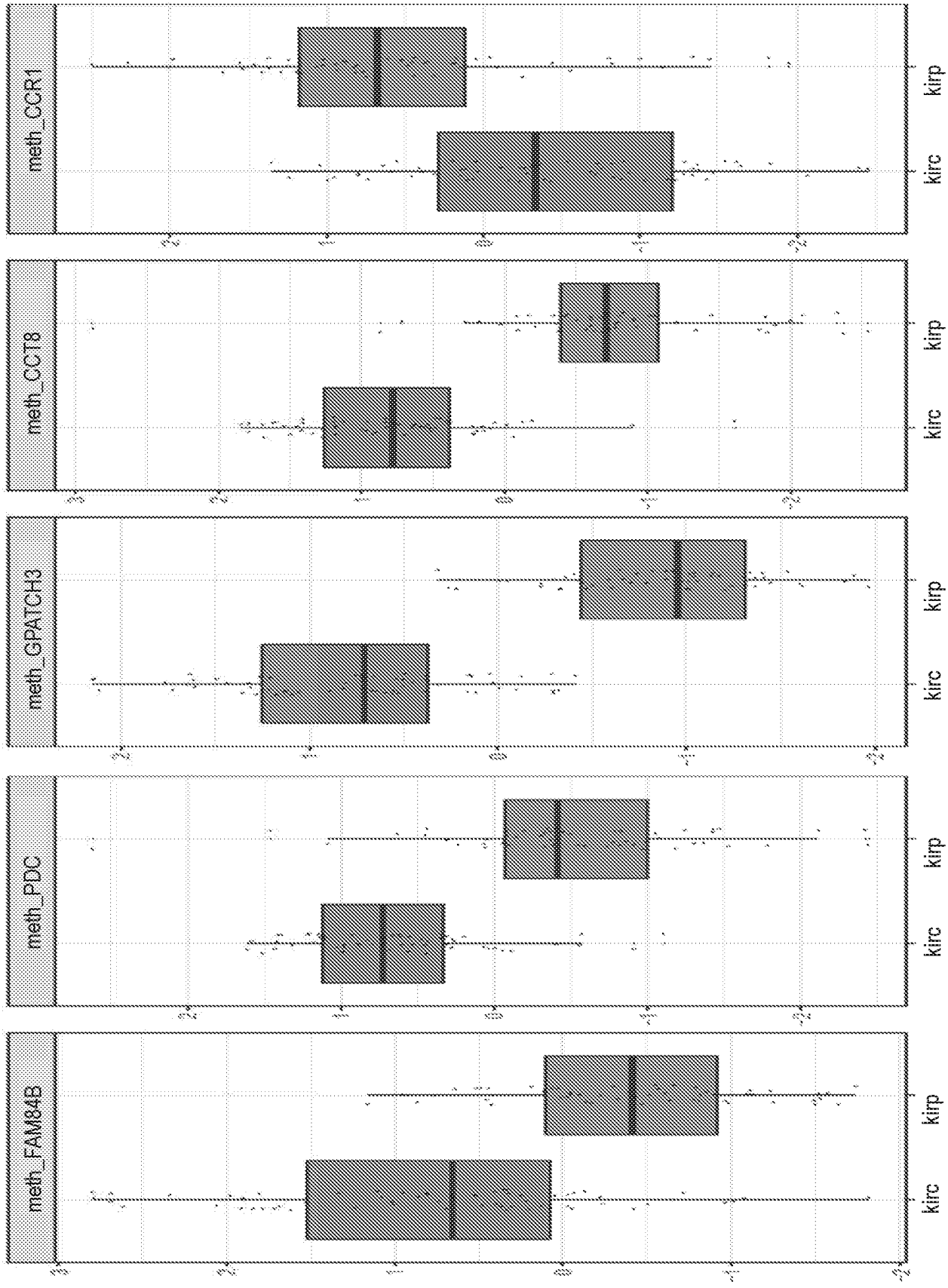

meth_CCR1
meth_CCT8
meth_GPATCH3
meth_PDC
meth_FAM84B
kirp
kirc

FIG. 21A (cont.)

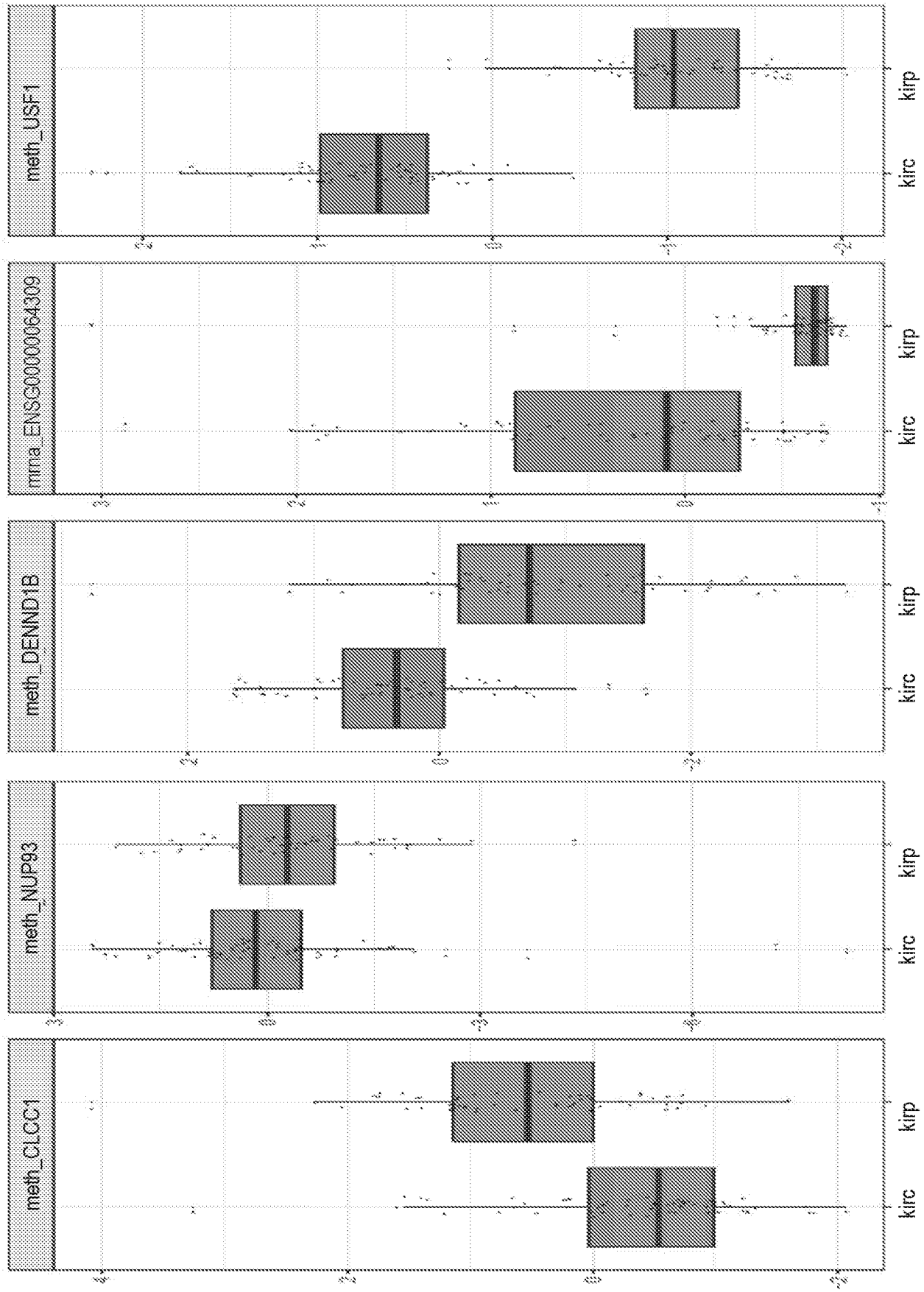

meth_USF1
mrna_ENSG00000064309
meth_DENND1B
meth_NUP93
meth_CLCC1
kirp
kirc

FIG. 21A (cont.)

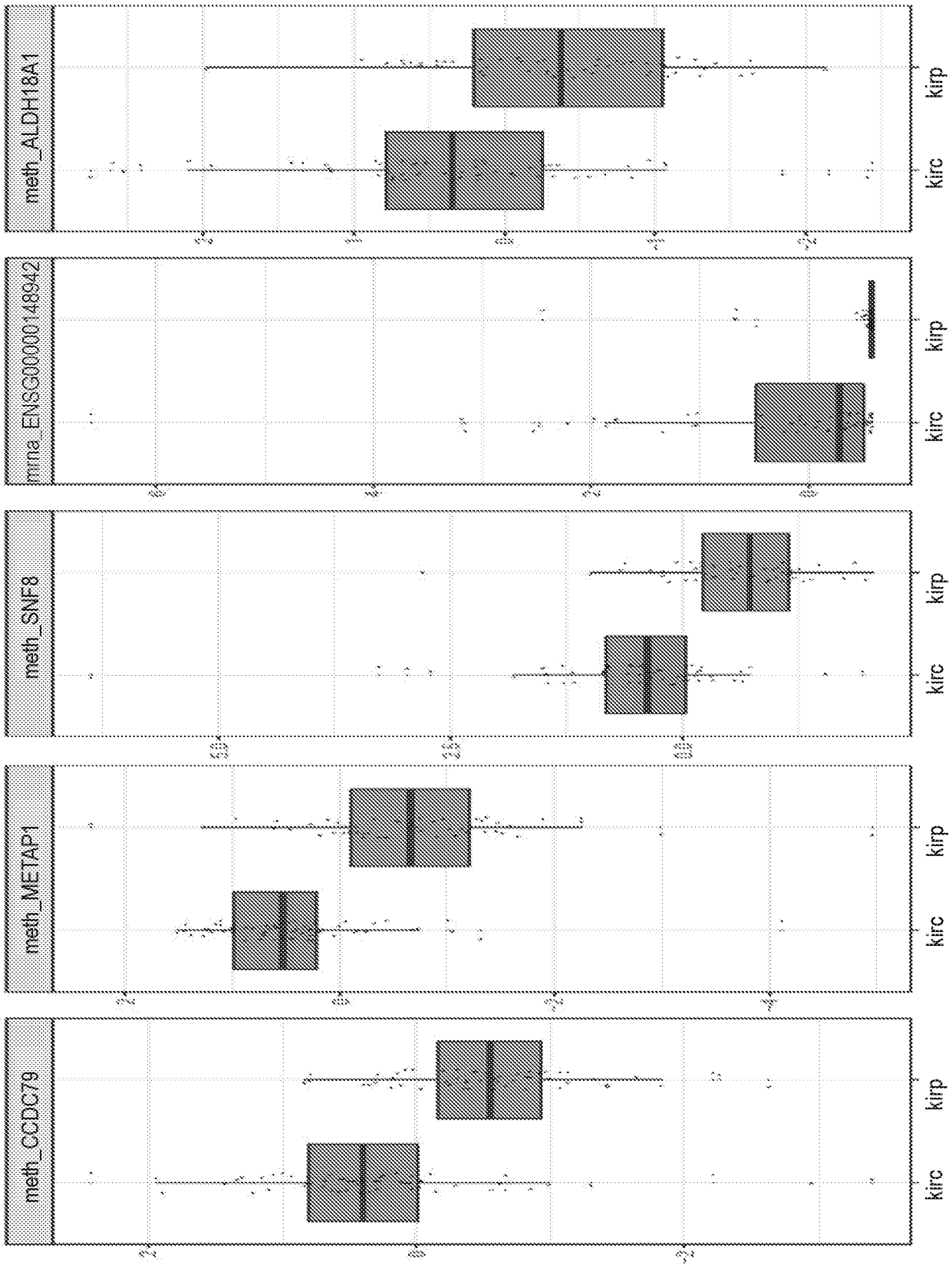

meth_ALDH18A1
mrna_ENSG00000148942
meth_SNF8
meth_METAP1
meth_CCDC79
kirp
kirc

FIG. 21A (cont.)

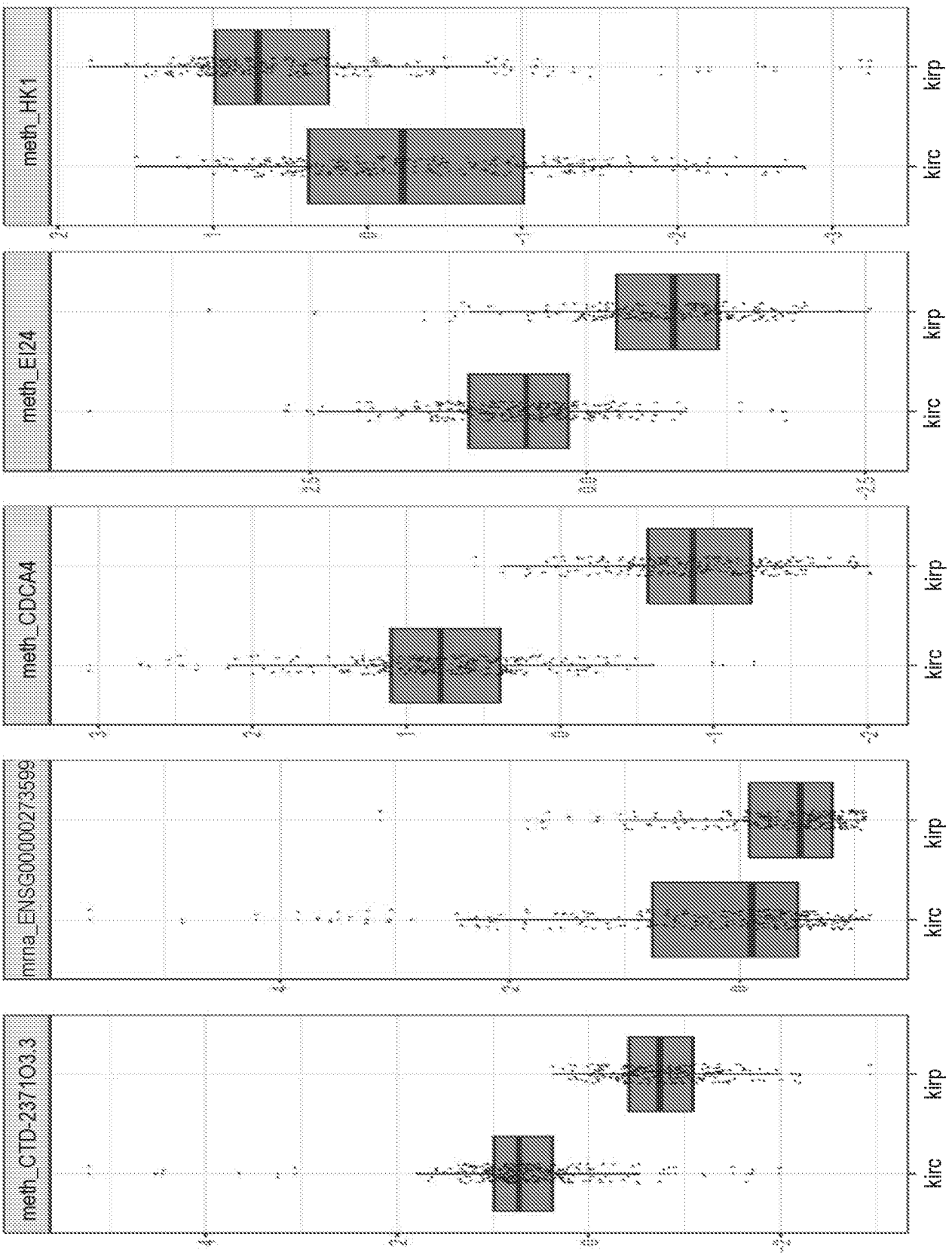

meth_HK1
meth_EI24
meth_CDCA4
mrna_ENSG00000273599
meth_CTD-2371O3.3
kirp
kirc

FIG. 21B

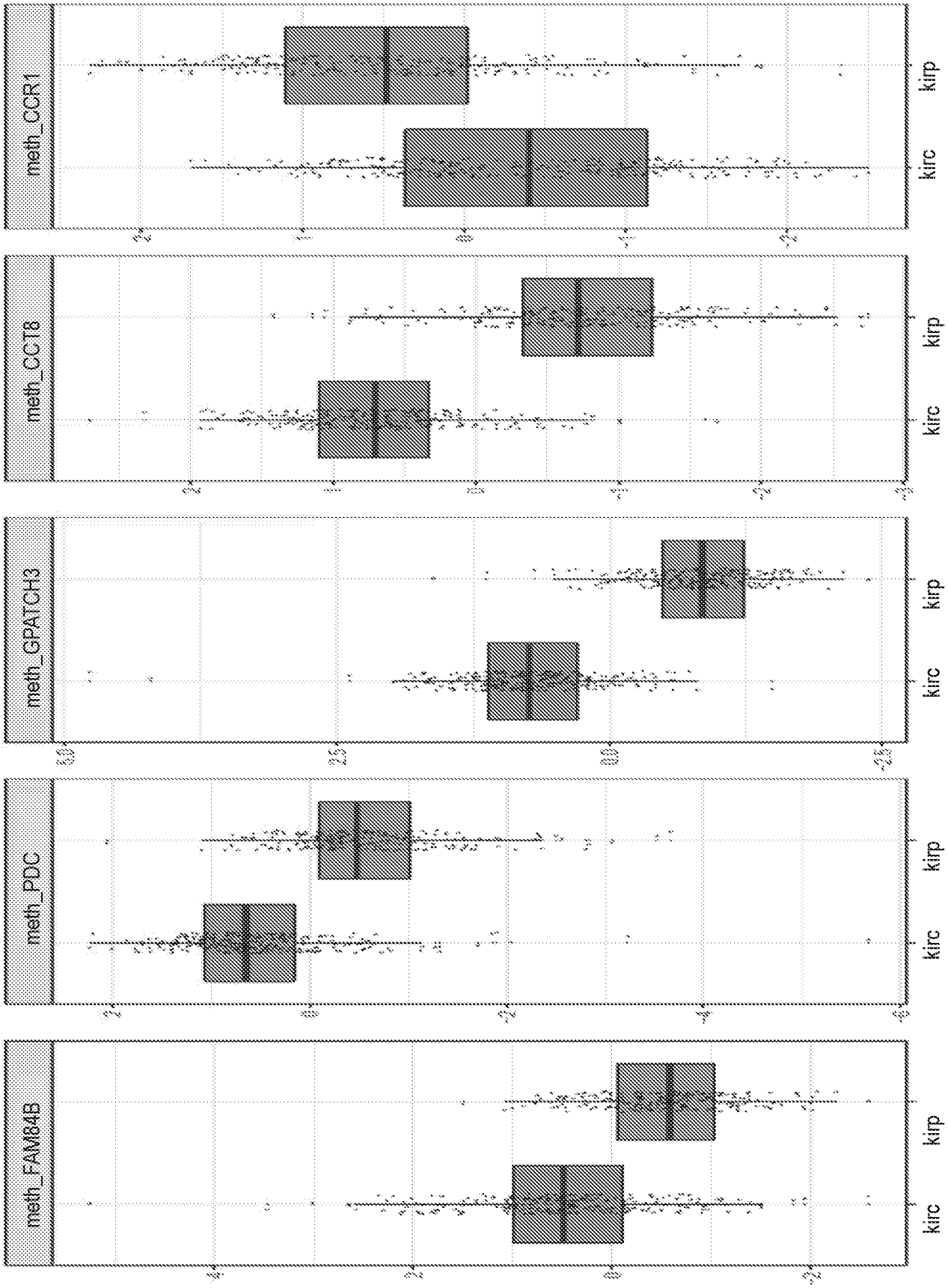

meth_CCR1
meth_CCT8
meth_GPATCH3
meth_PDC
meth_FAM84B
kirp
kirc

FIG. 21B (cont.)

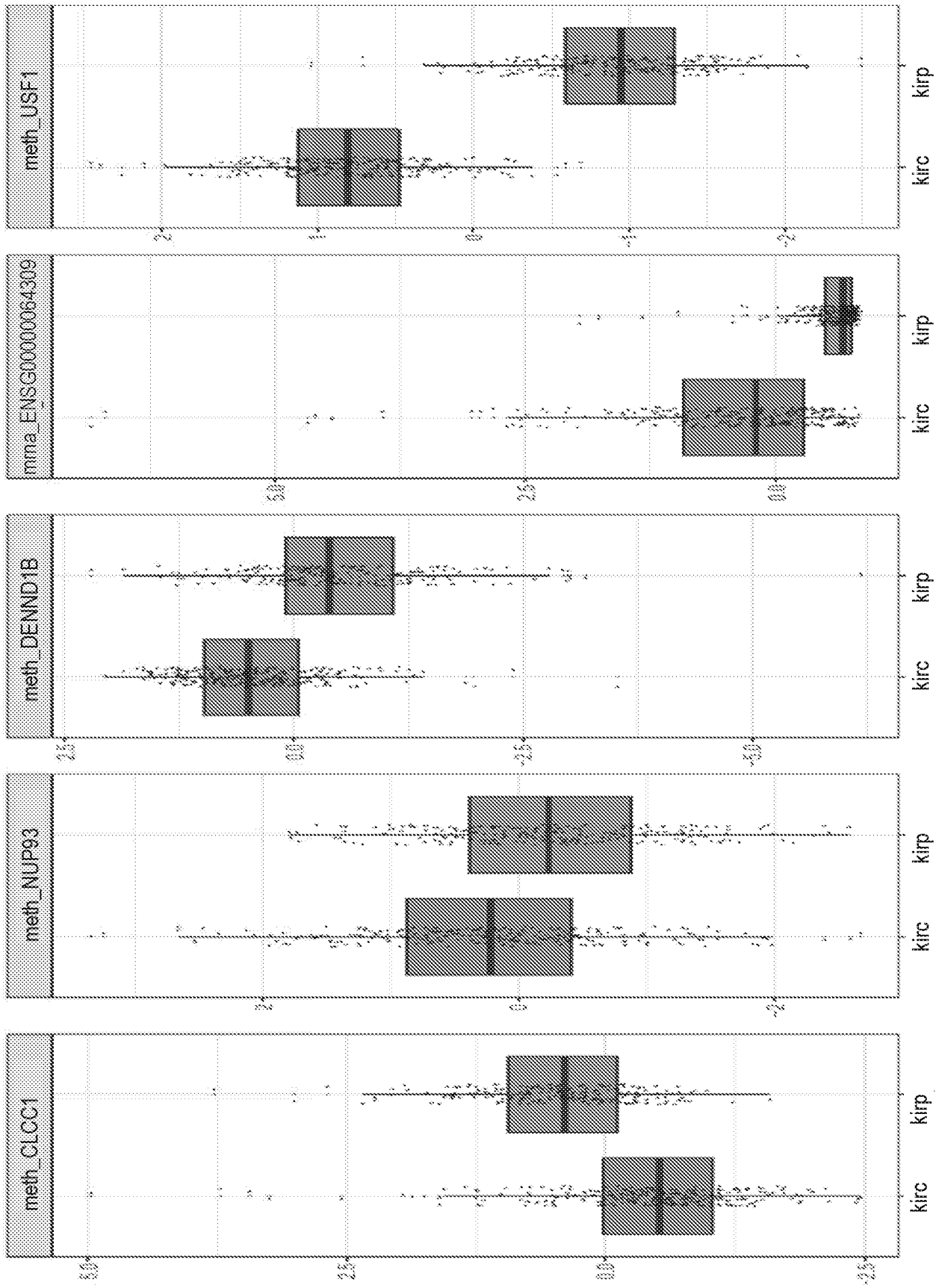

meth_USF1
mrna_ENSG00000064309
meth_DENND1B
meth_NUP93
meth_CLCC1
kirp
kirc

FIG. 21B (cont.)

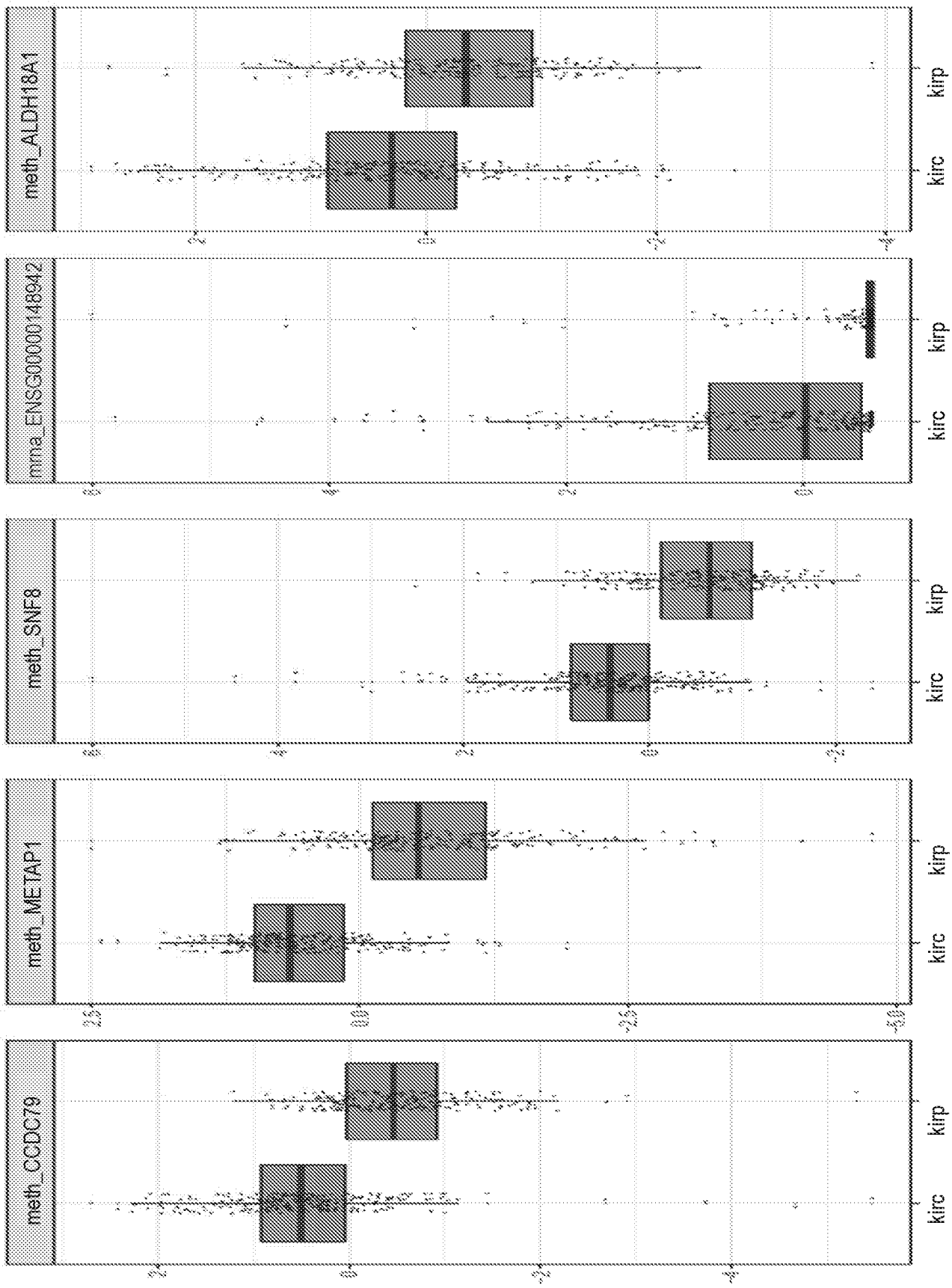

meth_ALDH18A1
mrna_ENSG00000148942
meth_SNF8
meth_METAP1
meth_CCDC79
kirp
kirc

FIG. 21B (cont.)

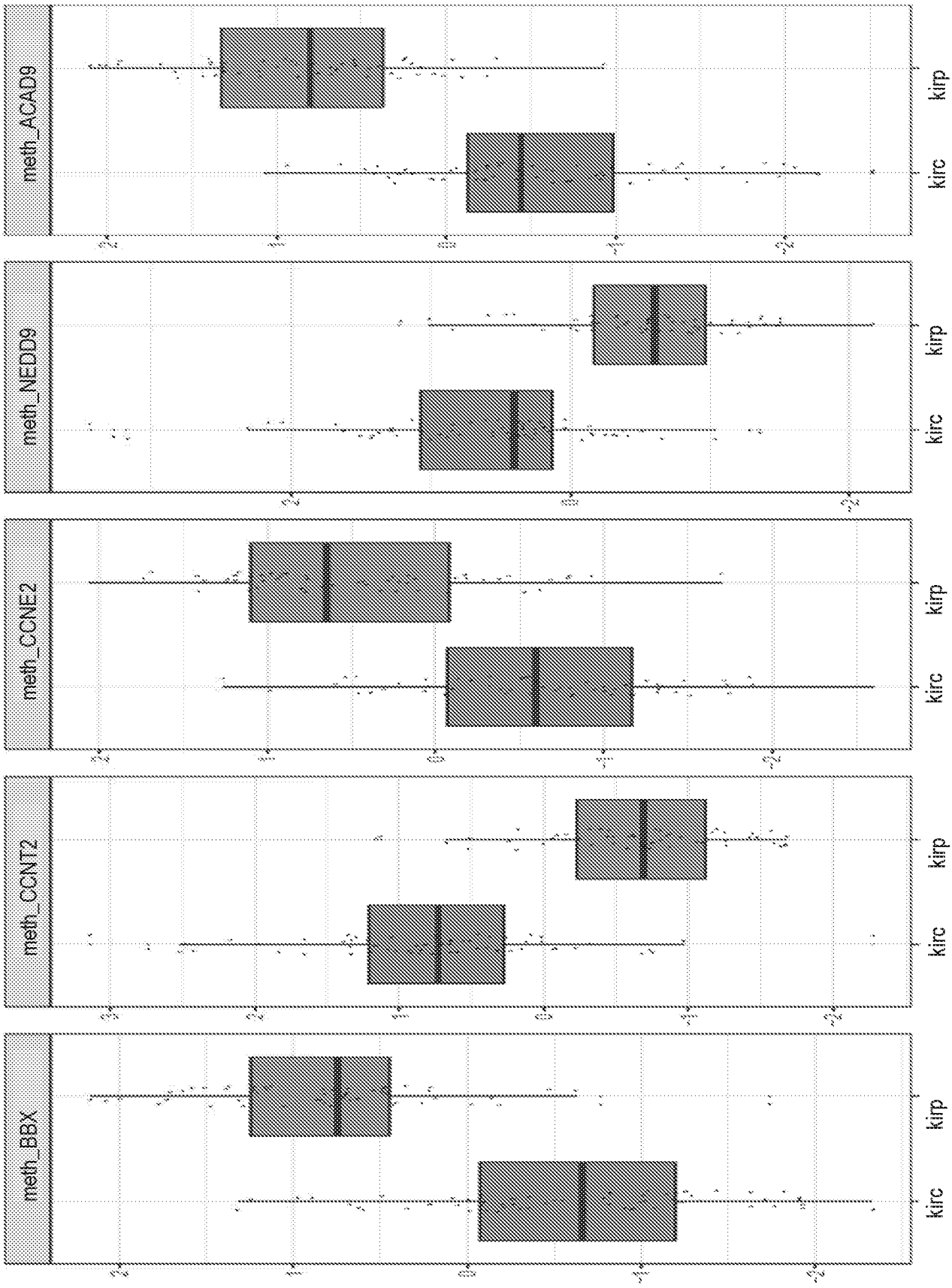

meth_ACAD9
meth_NEDD9
meth_CCNE2
meth_CCNT2
meth_BBX
kirp
kirc

FIG. 22A

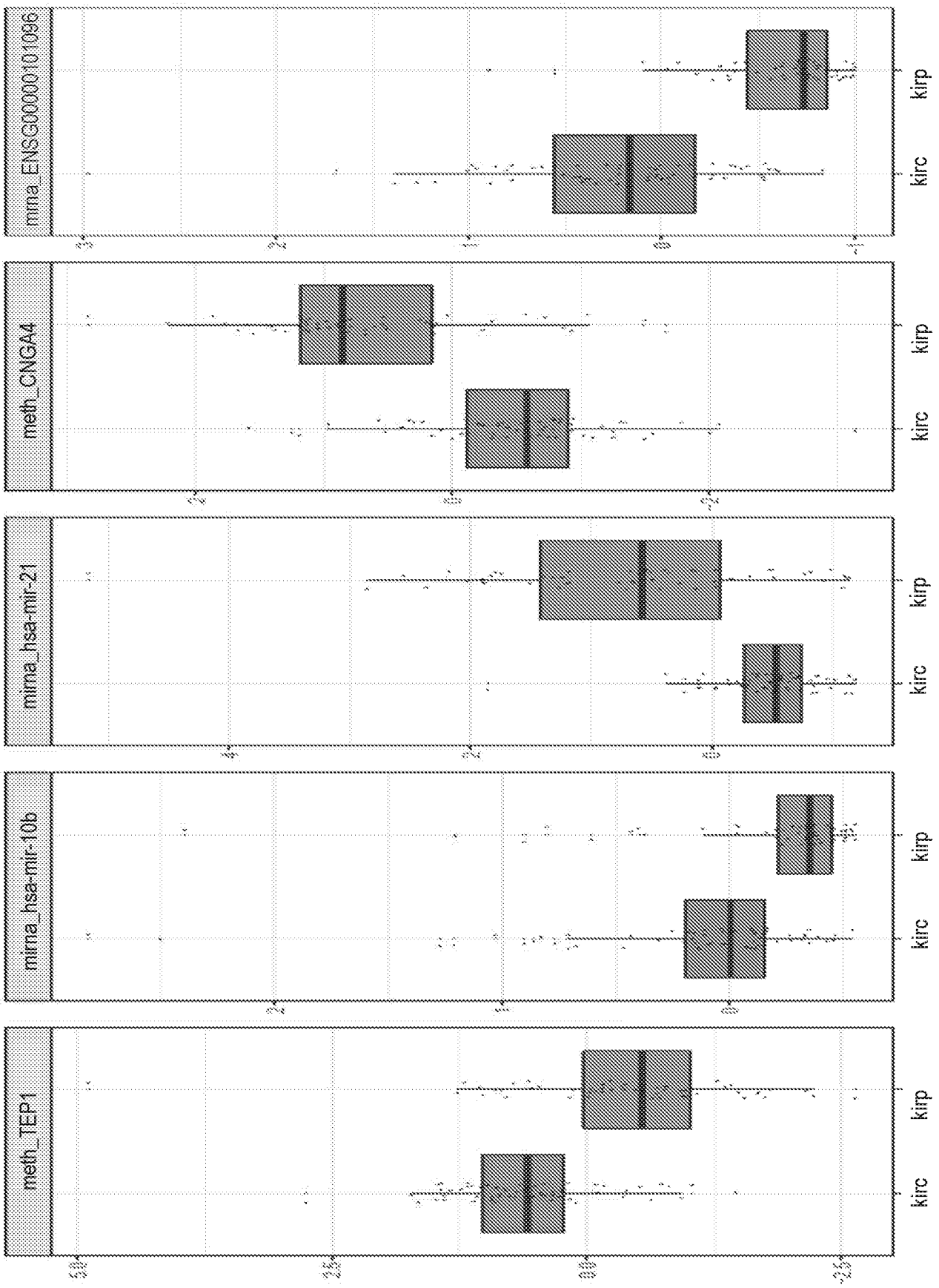

mrna_ENSG00000101096
meth_CNGA4
mirna_hsa-mir-21
mirna_hsa-mir-10b
meth_TEP1
kirp
kirc

FIG. 22A (cont.)

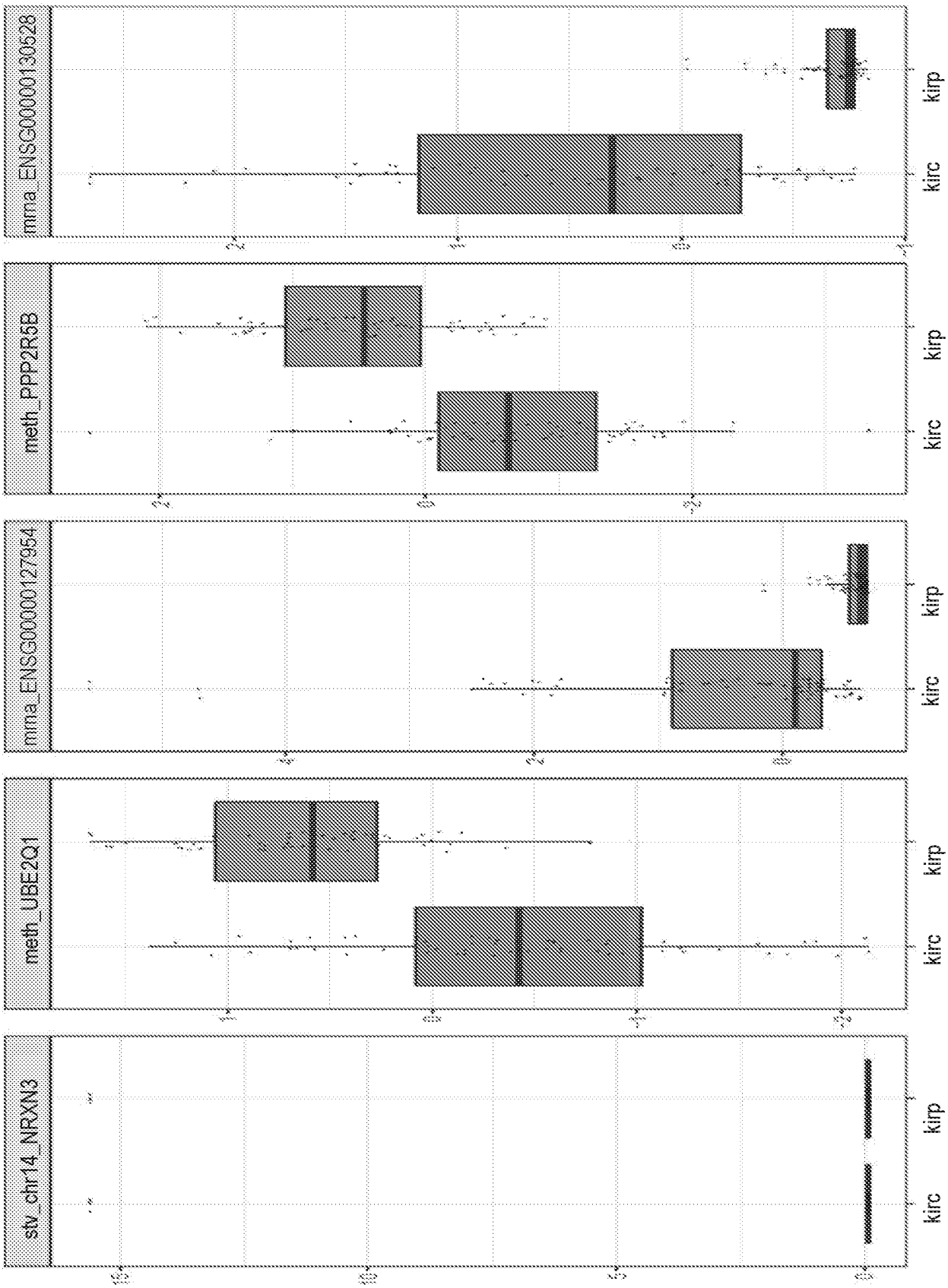

mrna_ENSG00000130528
meth_PPP2R5B
mrna_ENSG00000127954
meth_UBE2Q1
stv_chr14_NRXN3
kirp
kirc

FIG. 22A (cont.)

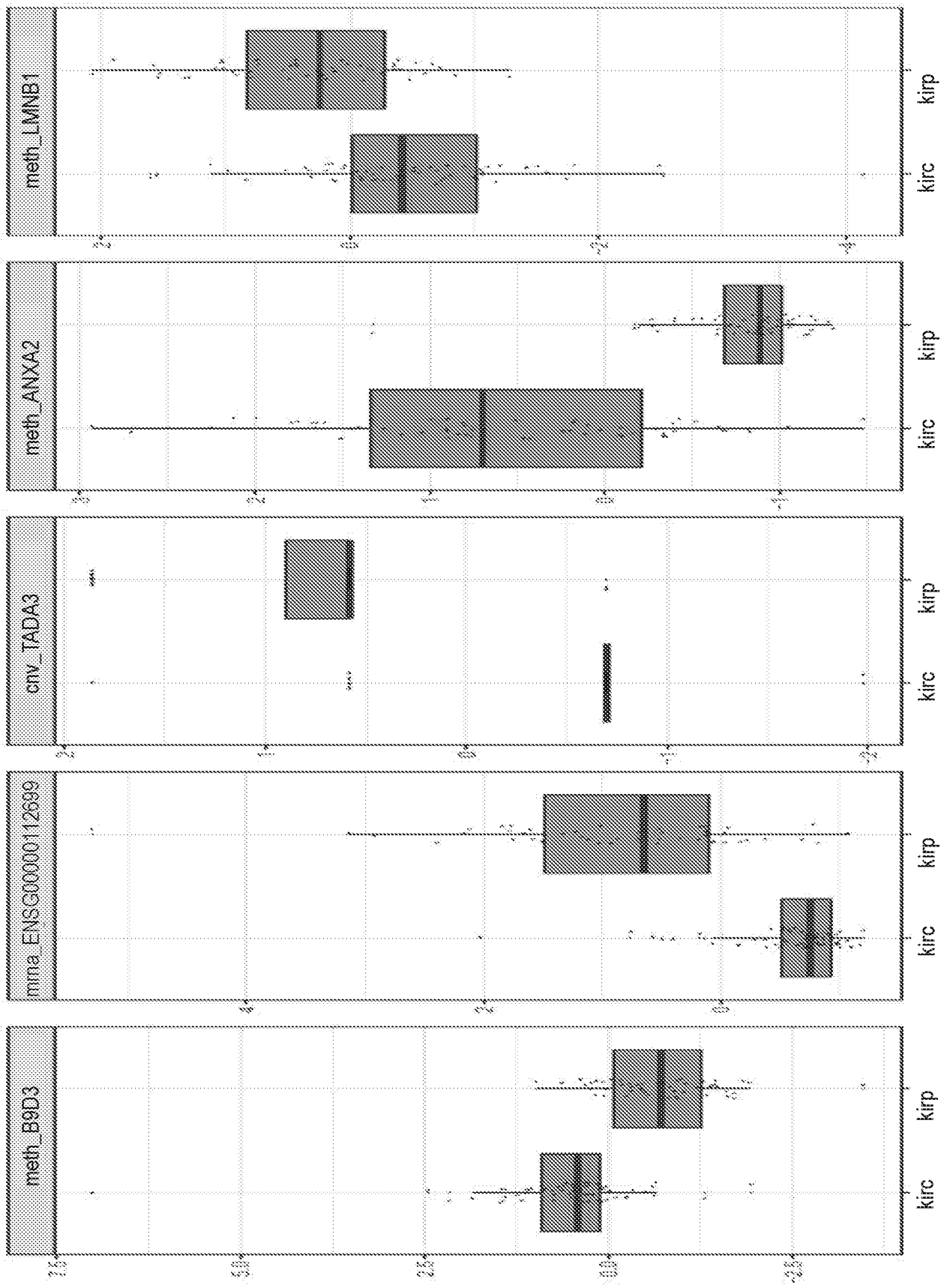

meth_LMNB1
meth_ANXA2
cnv_TADA3
mrna_ENSG00000112699
meth_B9D3
kirp
kirc

FIG. 22A (cont.)

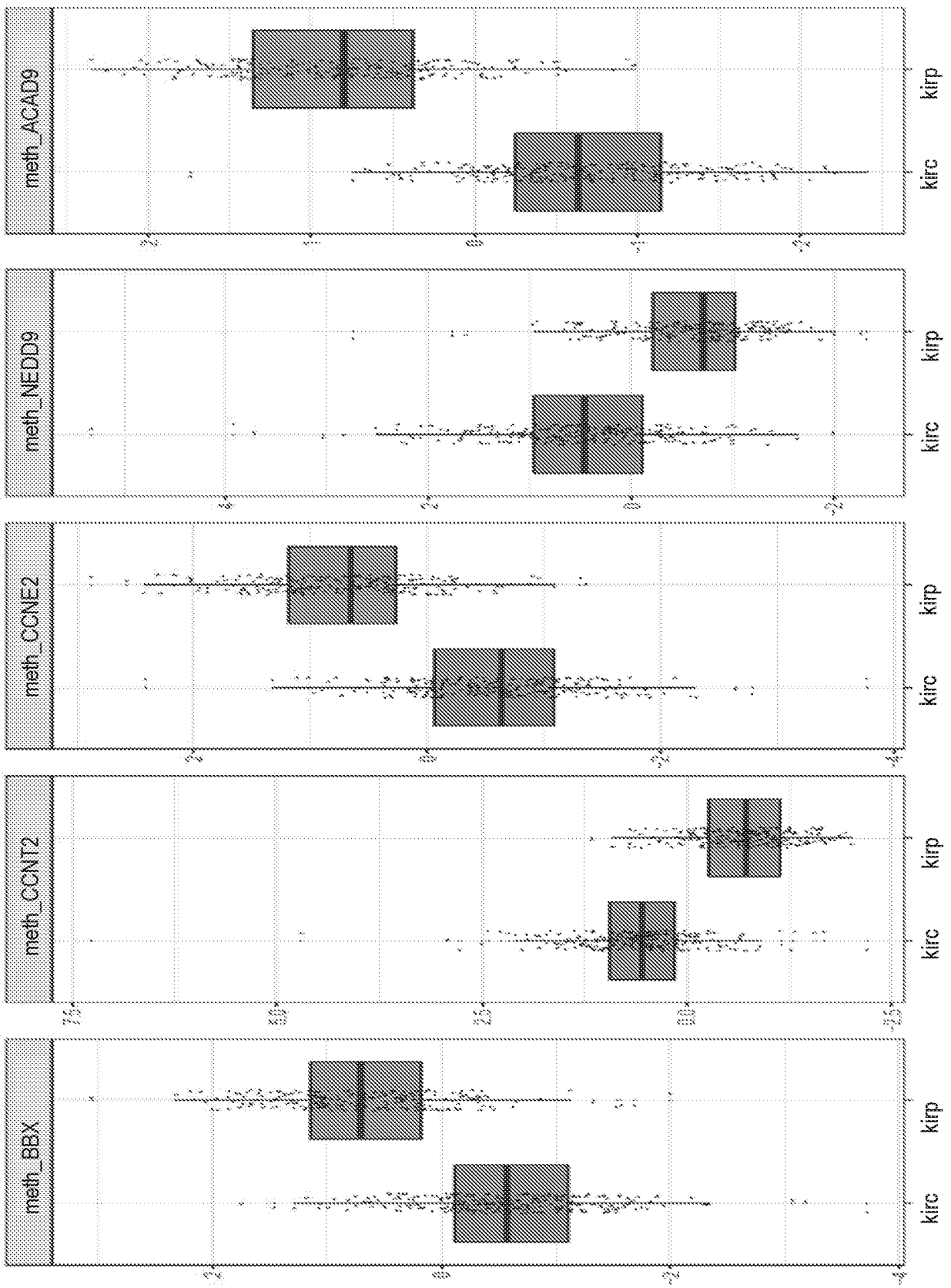

meth_ACAD9
meth_NEDD9
meth_CCNE2
meth_CCNT2
meth_BBX
kirp
kirc

FIG. 22B

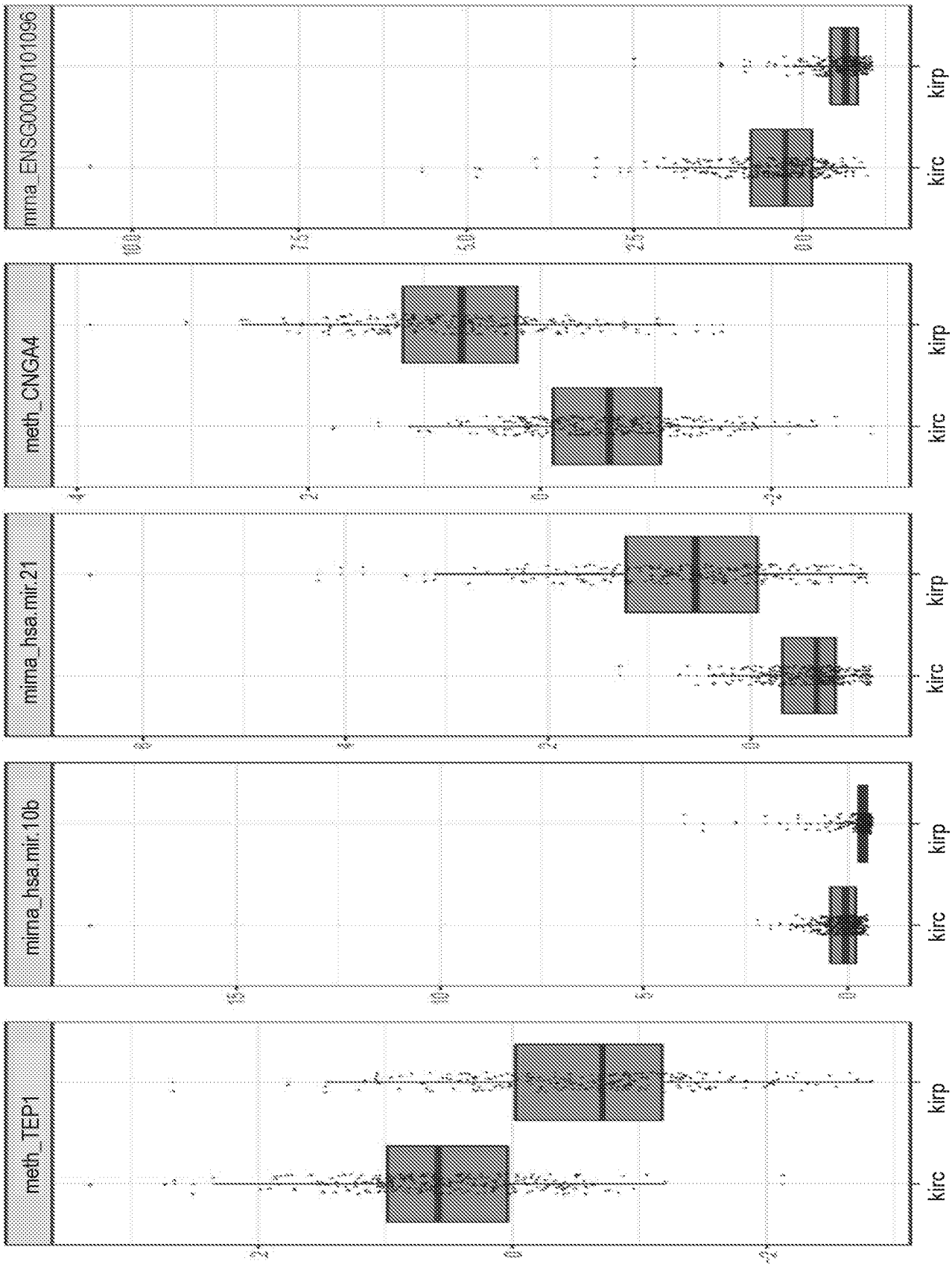

mrna_ENSG00000101096
meth_CNGA4
mrna_hsa.mir.21
mrna_hsa.mir.10b
meth_TEP1
kirp
kirc

FIG. 22B (cont.)

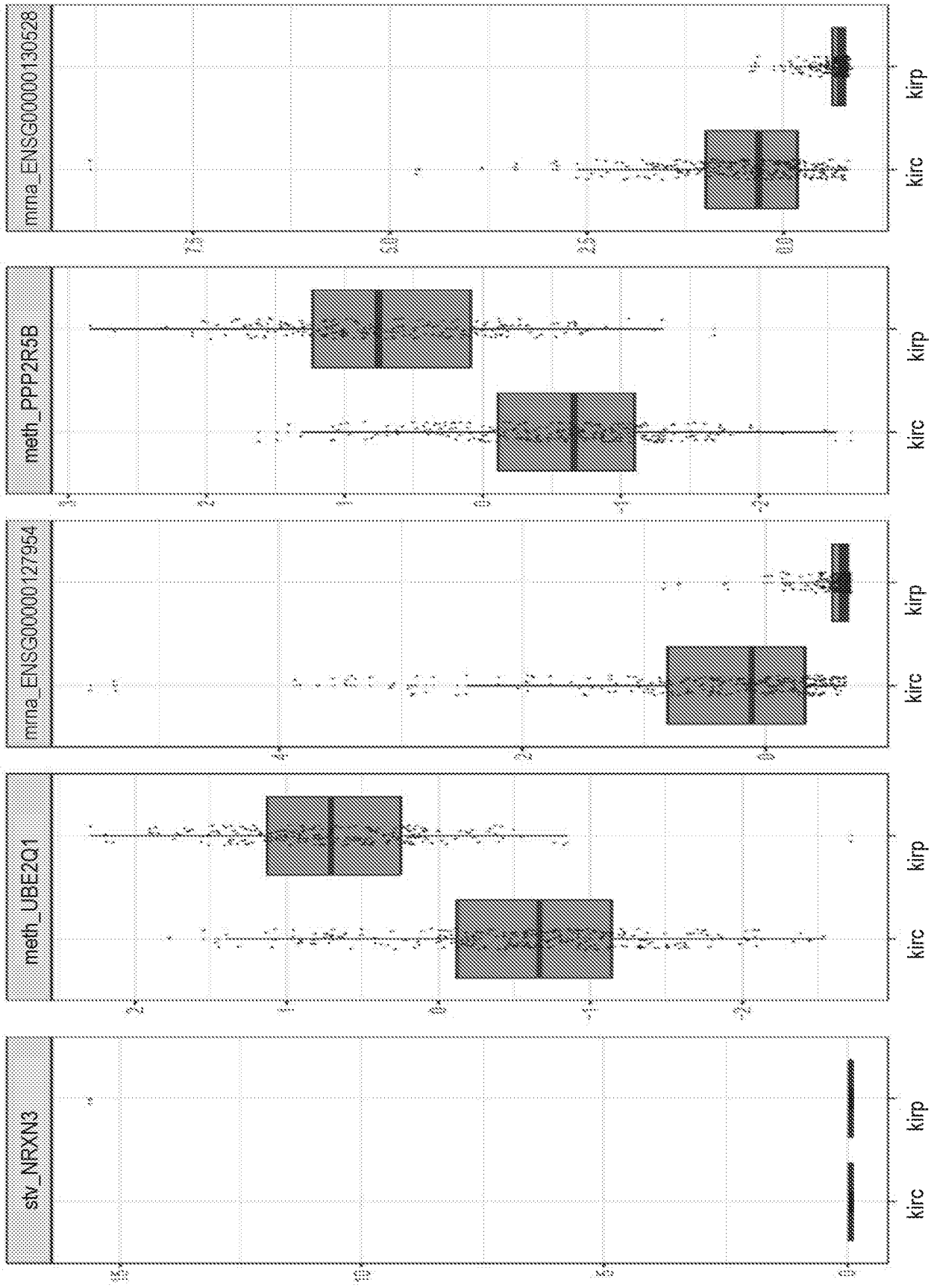

mrna_ENSG00000130528
meth_PPP2R5B
mrna_ENSG00000127954
meth_UBE2Q1
stv_NRXN3
kirp
kirc

FIG. 22B (cont.)

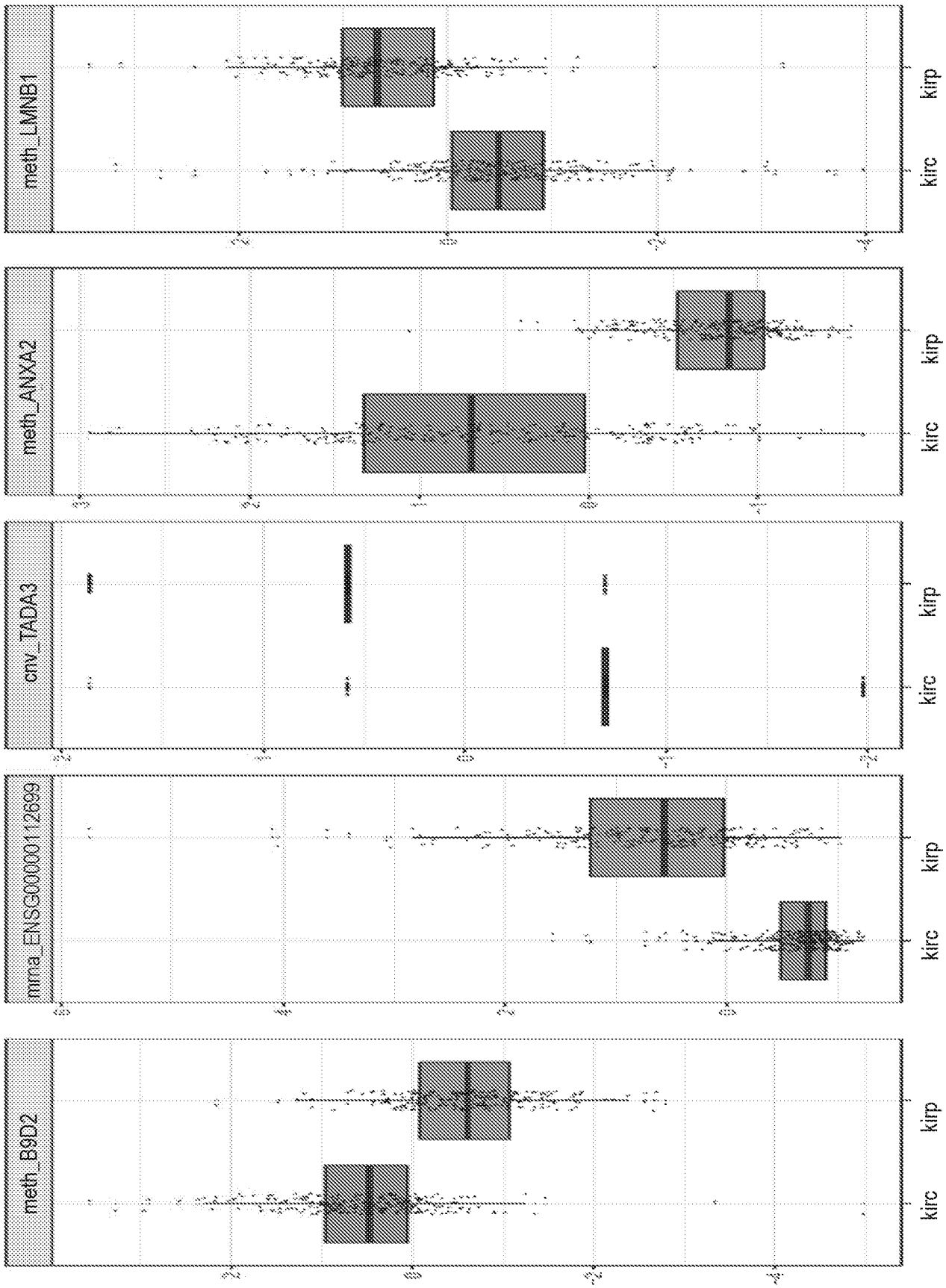

meth_LMNB1
meth_ANXA2
cnv_TADA3
mrna_ENSG00000112699
meth_B9D2
kirp
kirc

FIG. 22B (cont.)

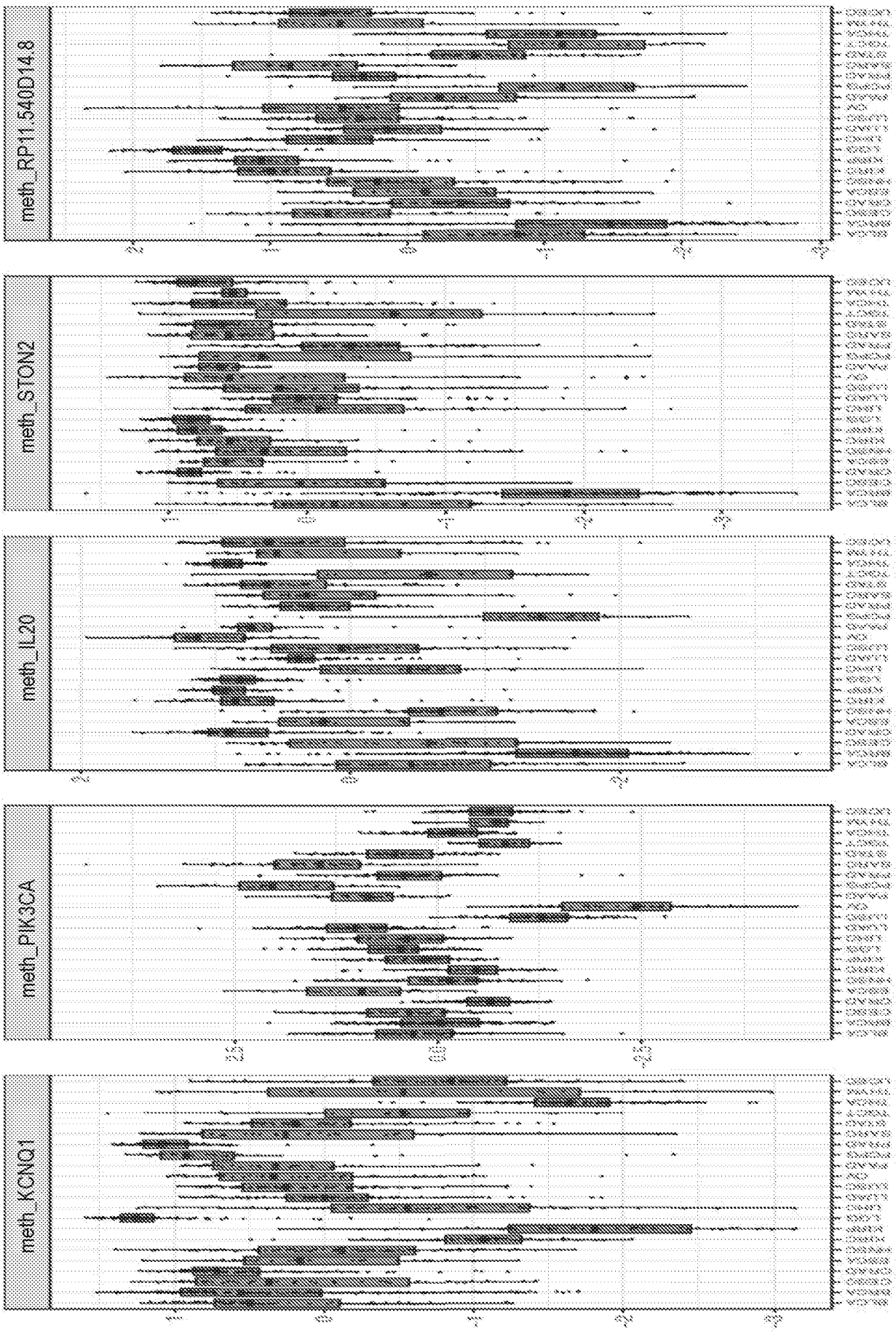

meth_RP11.540D14.8
meth_STON2
meth_IL20
meth_PIK3CA
meth_KCNQ1

FIG. 23A

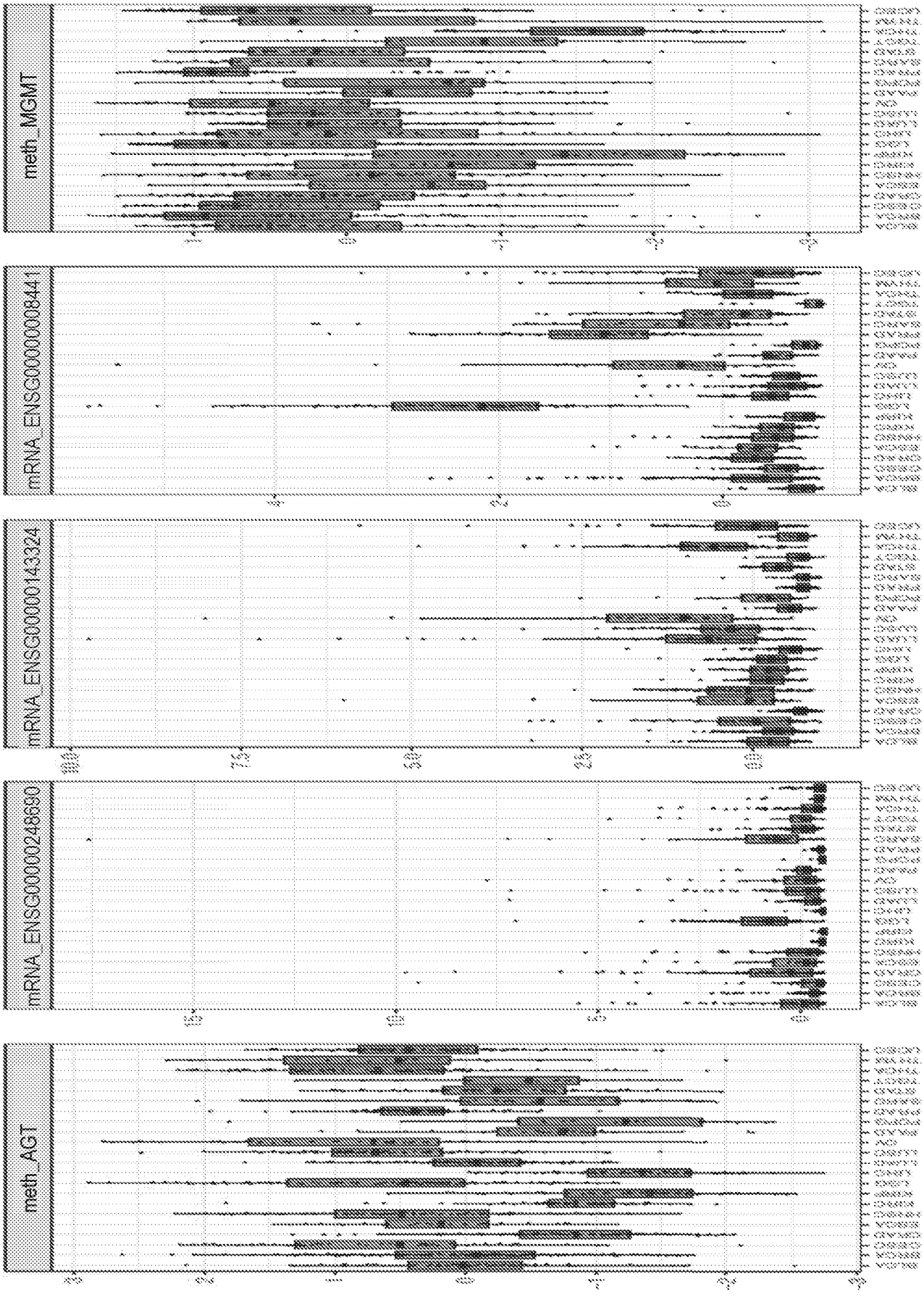

meth_MGMT
mRNA_ENSG00000008441
mRNA_ENSG00000143324
mRNA_ENSG00000248890
meth_AGT

FIG. 23A (cont.)

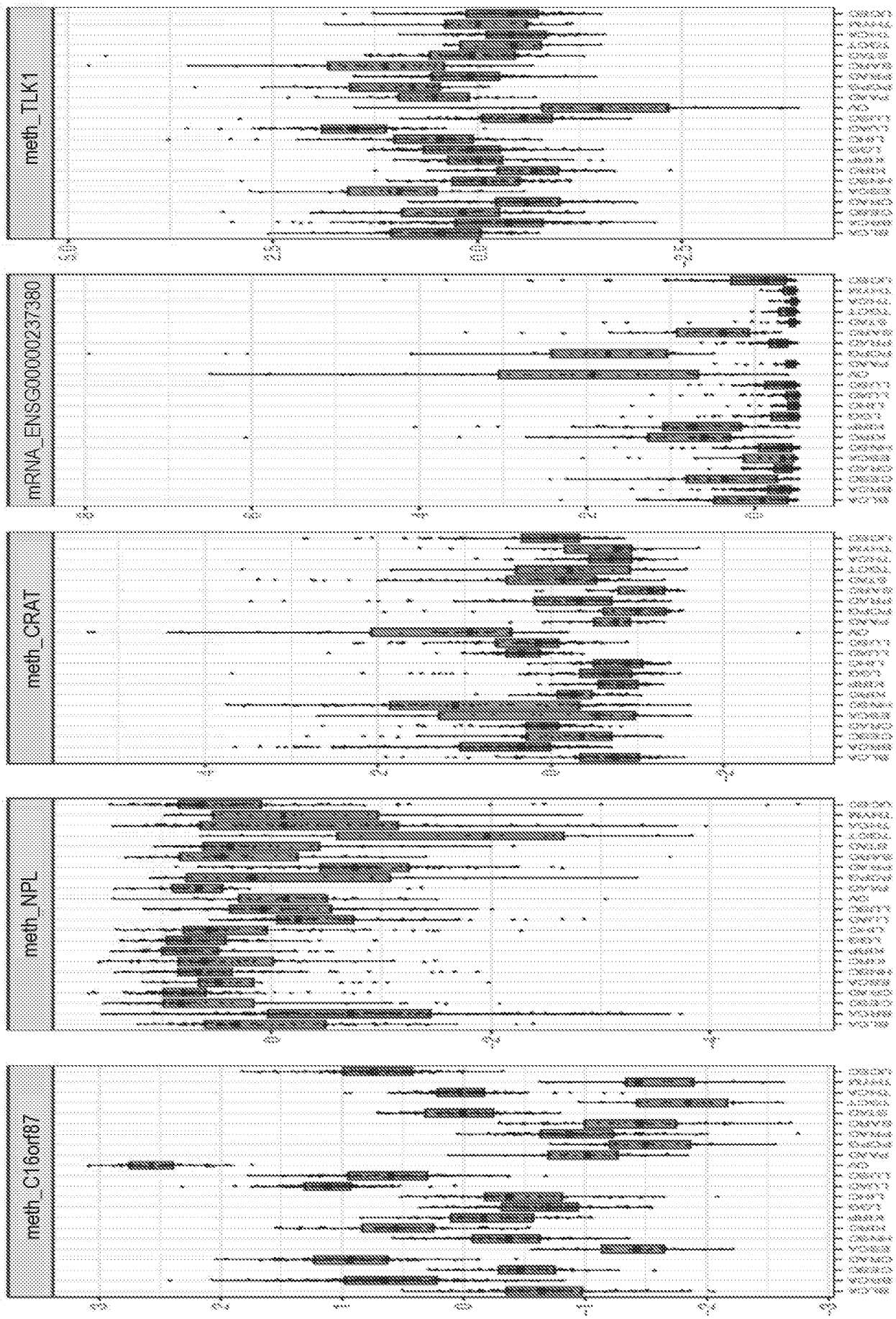

meth_TLK1
mRNA_ENSG00000237380
meth_CRAT
meth_NPL
meth_C16orf87

FIG. 23A (cont.)

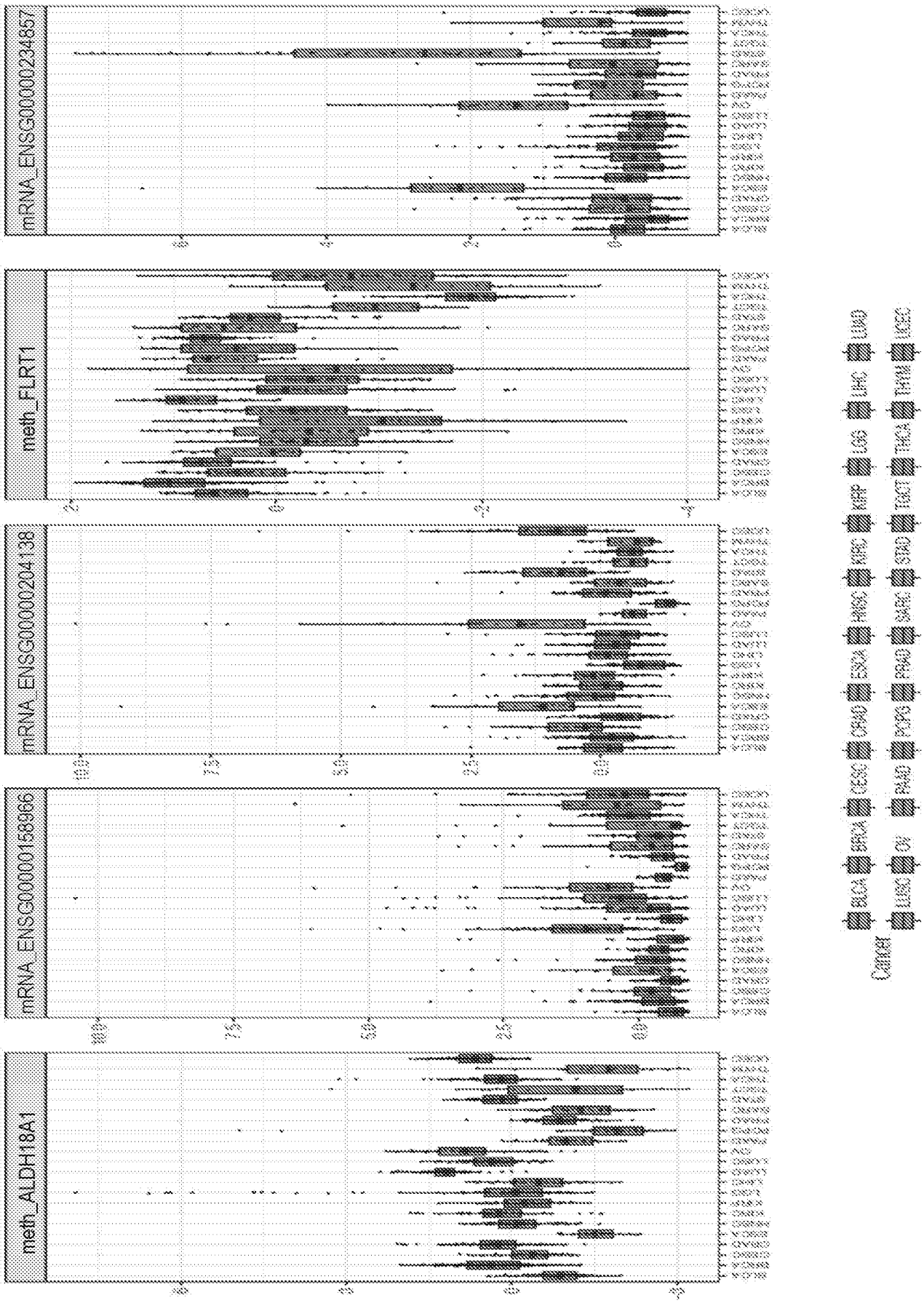

meth_ALDH18A1
mRNA_ENSG00000153966
mRNA_ENSG00000204138
meth_FLRT1
mRNA_ENSG00000234857
Cancer
BLCA
BRCA
CESC
CHOL
ESCA
HNSC
KIRC
KIRP
LGG
LIHC
LUAD
LUSC
OV
PAAD
PCPG
PRAD
SARC
STAD
TGCT
THCA
THYM
UCEC

FIG. 23A (cont.)

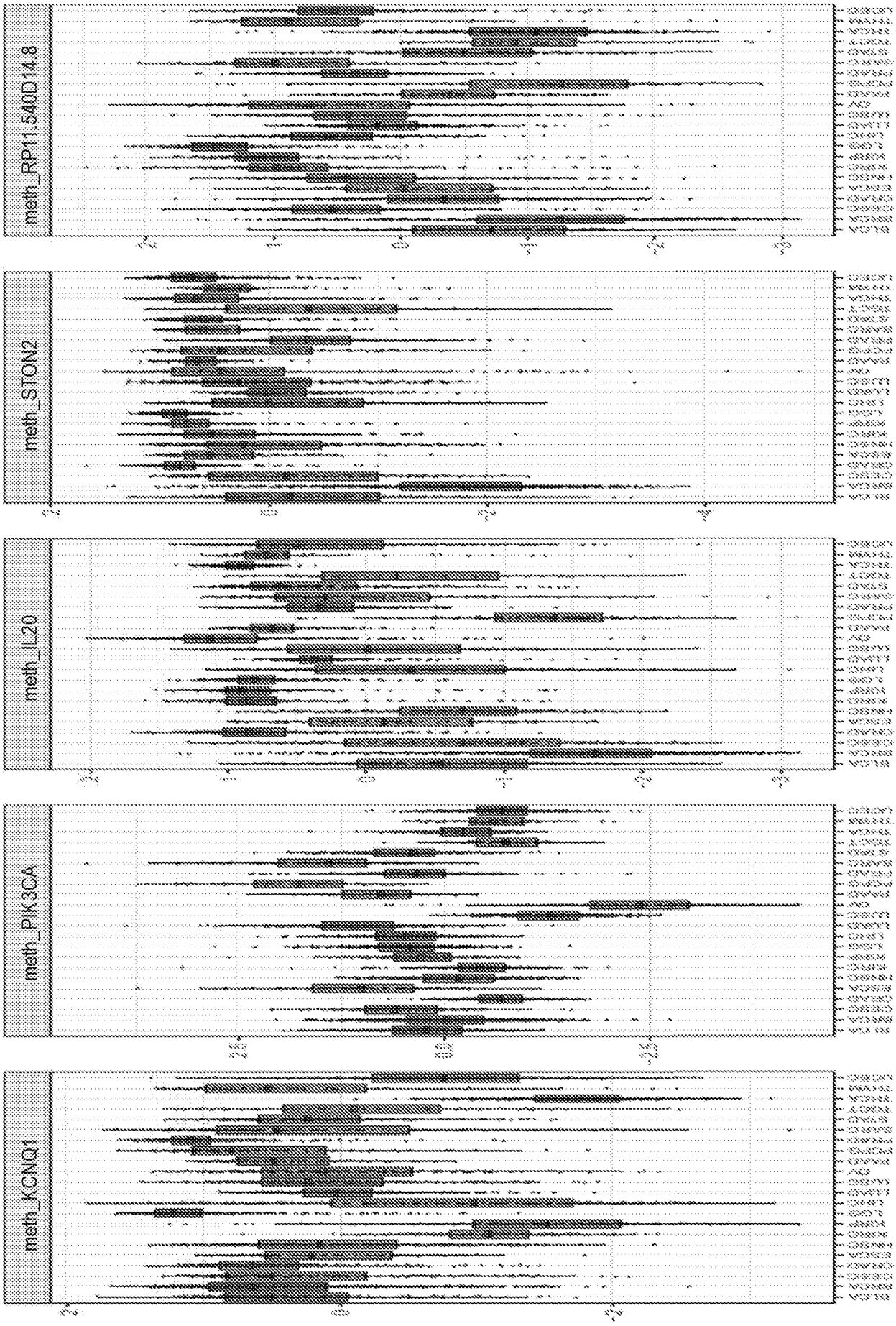

meth_RP11.540D14.8
meth_STON2
meth_IL20
meth_PIK3CA
meth_KCNQ1

FIG. 23B

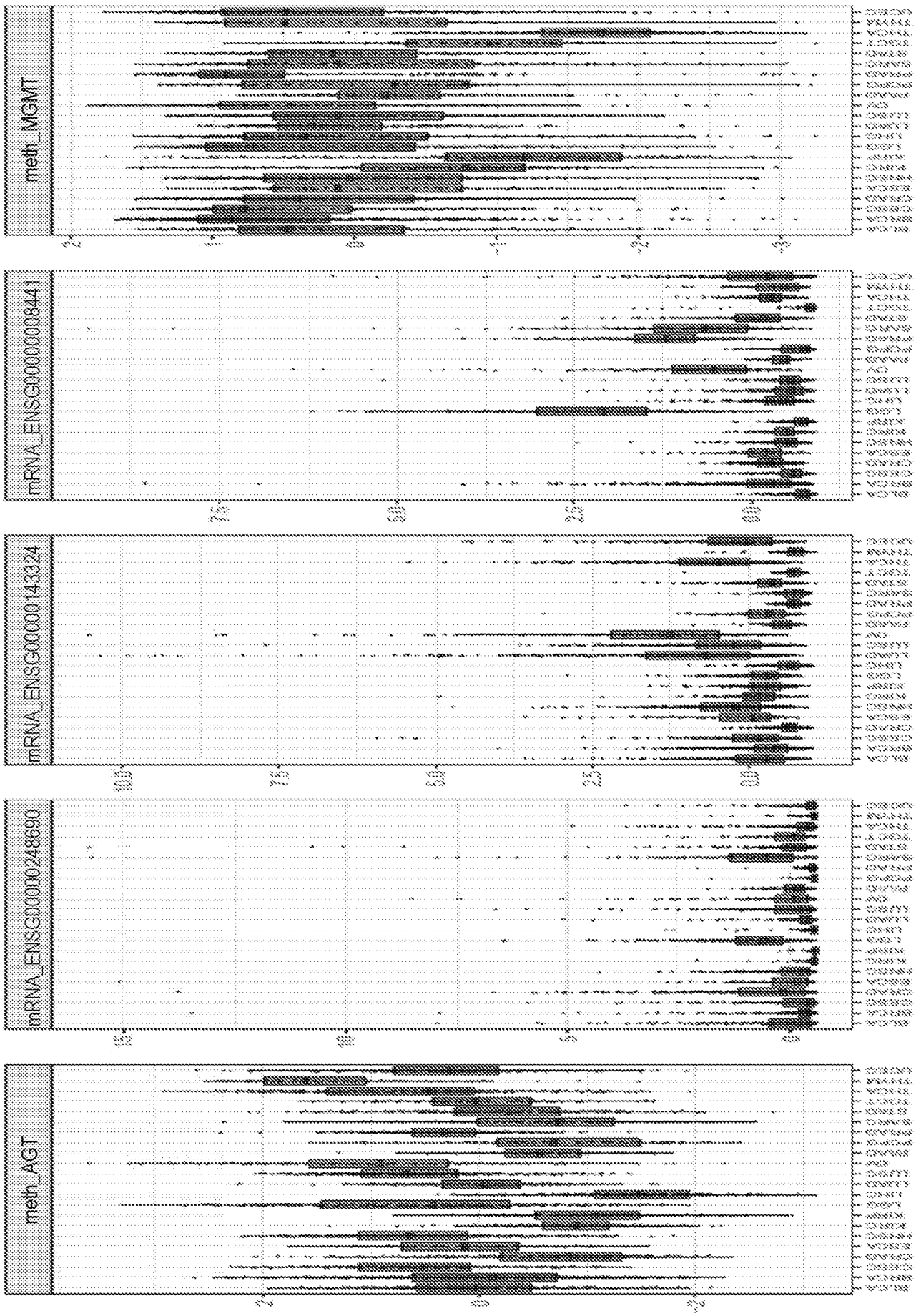

meth_MGMT
mRNA_ENSG00000008441
mRNA_ENSG00000143324
mRNA_ENSG00000248690
meth_AGT

FIG. 23B (cont.)

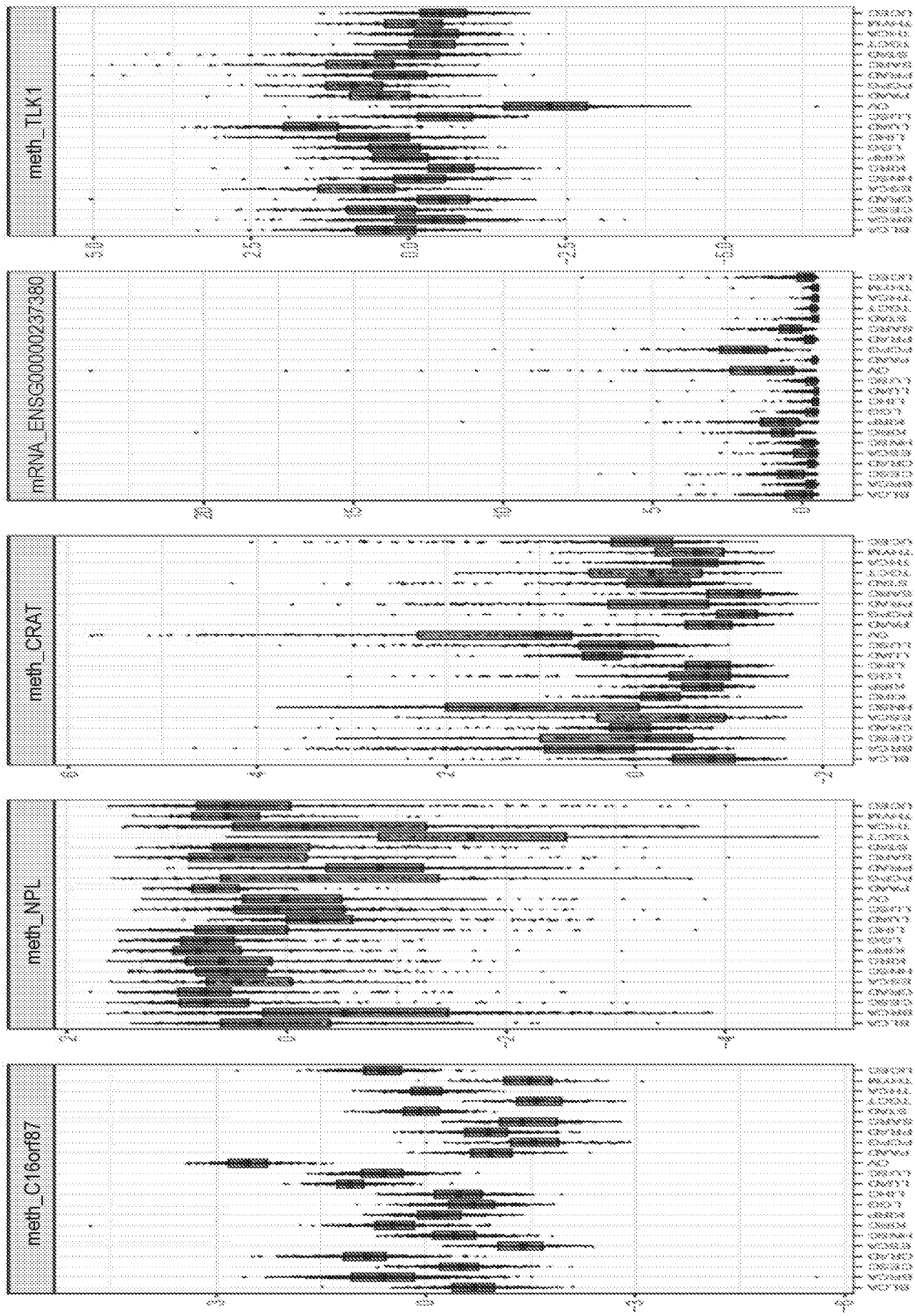

meth_TLK1
mRNA_ENSG00000237380
meth_CRAT
meth_NPL
meth_C16orf87

FIG. 23B (cont.)

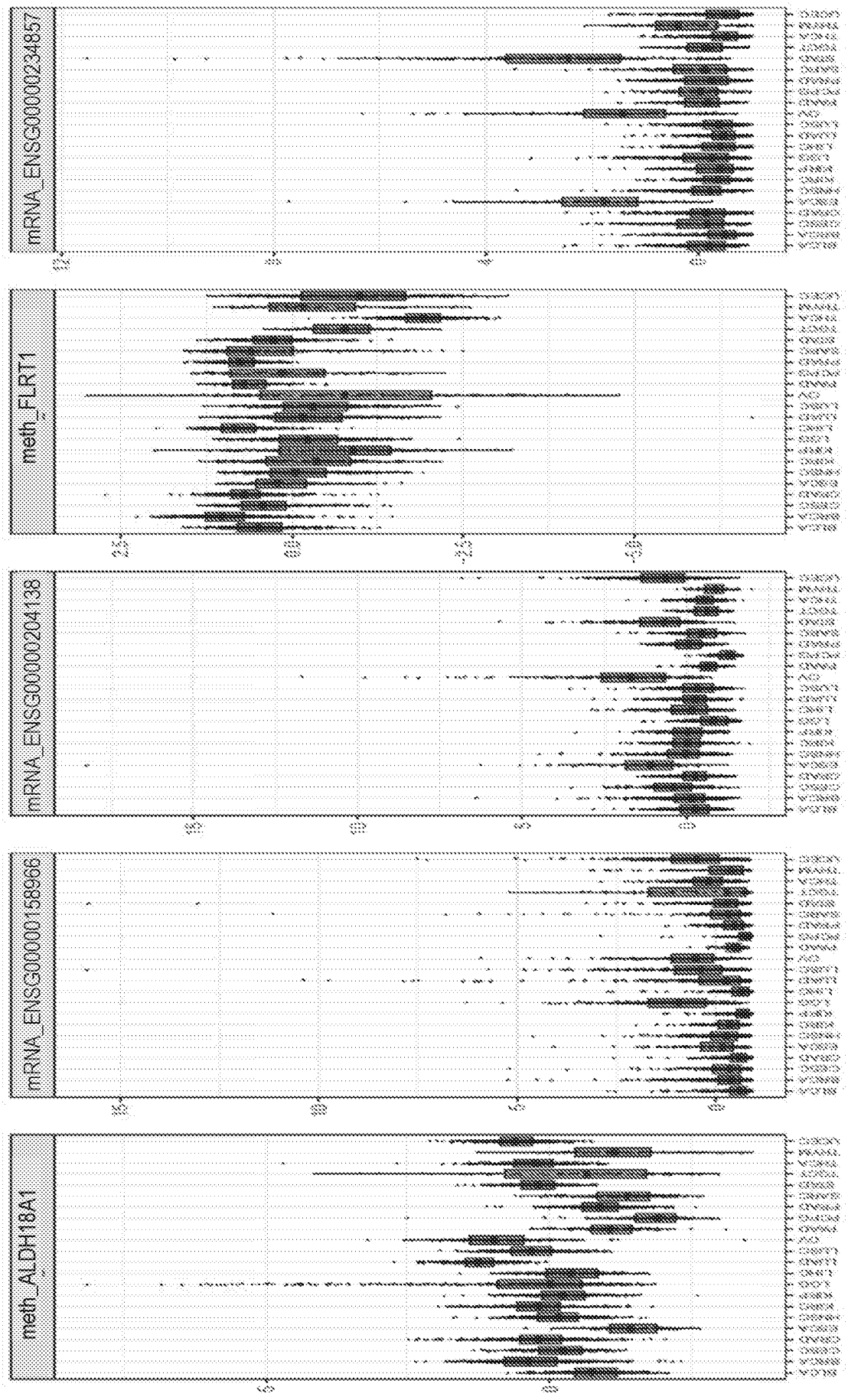

meth_ALDH18A1
mRNA_ENSG00000158966
mRNA_ENSG00000204138
meth_FLRT1
mRNA_ENSG00000234857
Cancer
BLCA
BRCA
CESC
COAD
ESCA
HNSC
KIRC
KIRP
LGG
LIHC
LUAD
LUSC
OV
PAAD
PCPG
PRAD
SARC
STAD
TGCT
THCA
THYM
UCEC

FIG. 23B (cont.)

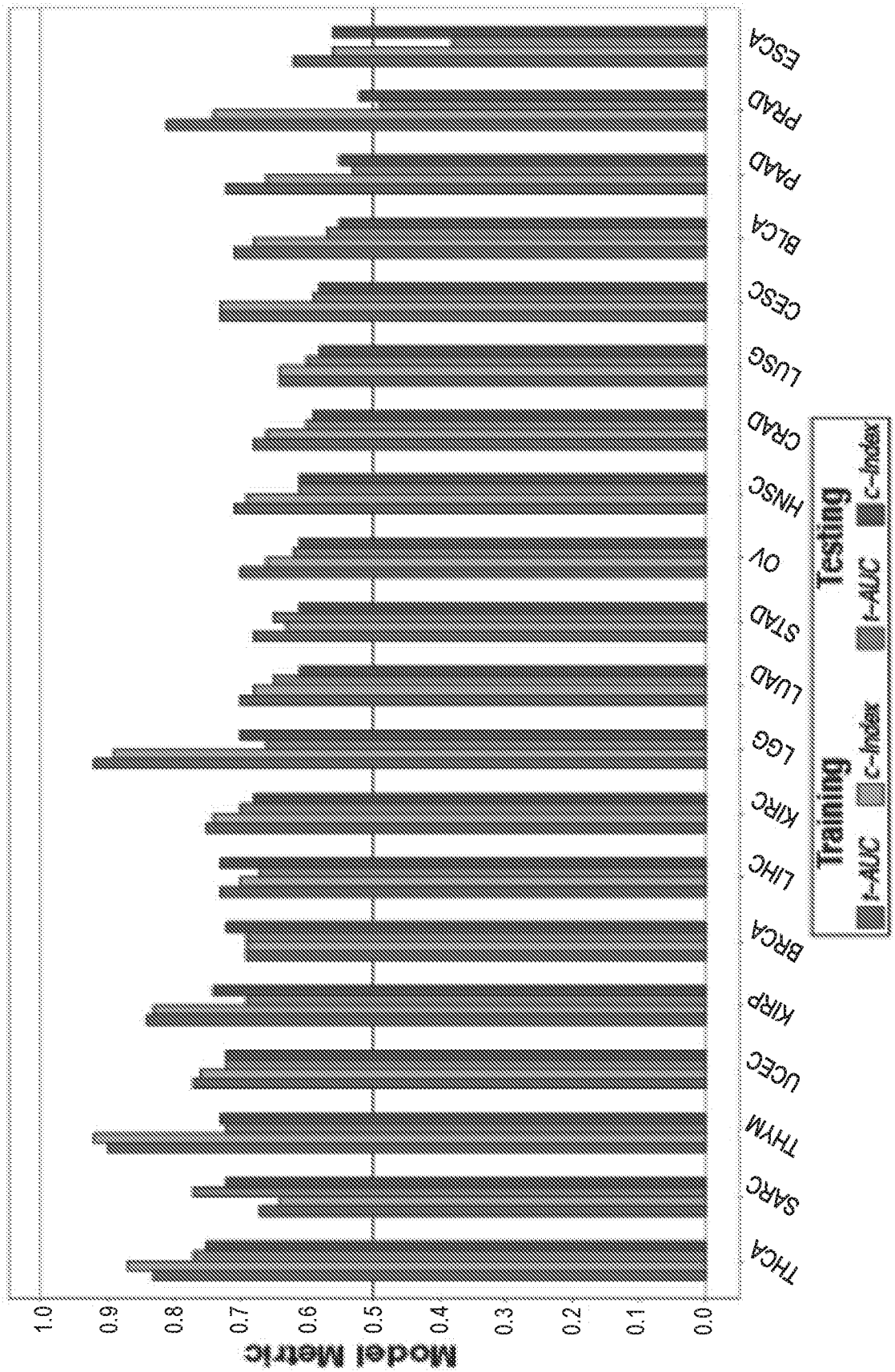

Model Metric
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
THCA
SARC
THYM
UCEC
KIRP
BRCA
LIHC
KIRC
LGG
LUAD
STAD
OV
HNSC
CRAD
LUSC
CESC
BLCA
PAAD
PRAD
ESCA
Training
t-AUC
c-Index
Testing
t-AUC
c-Index

FIG. 24A

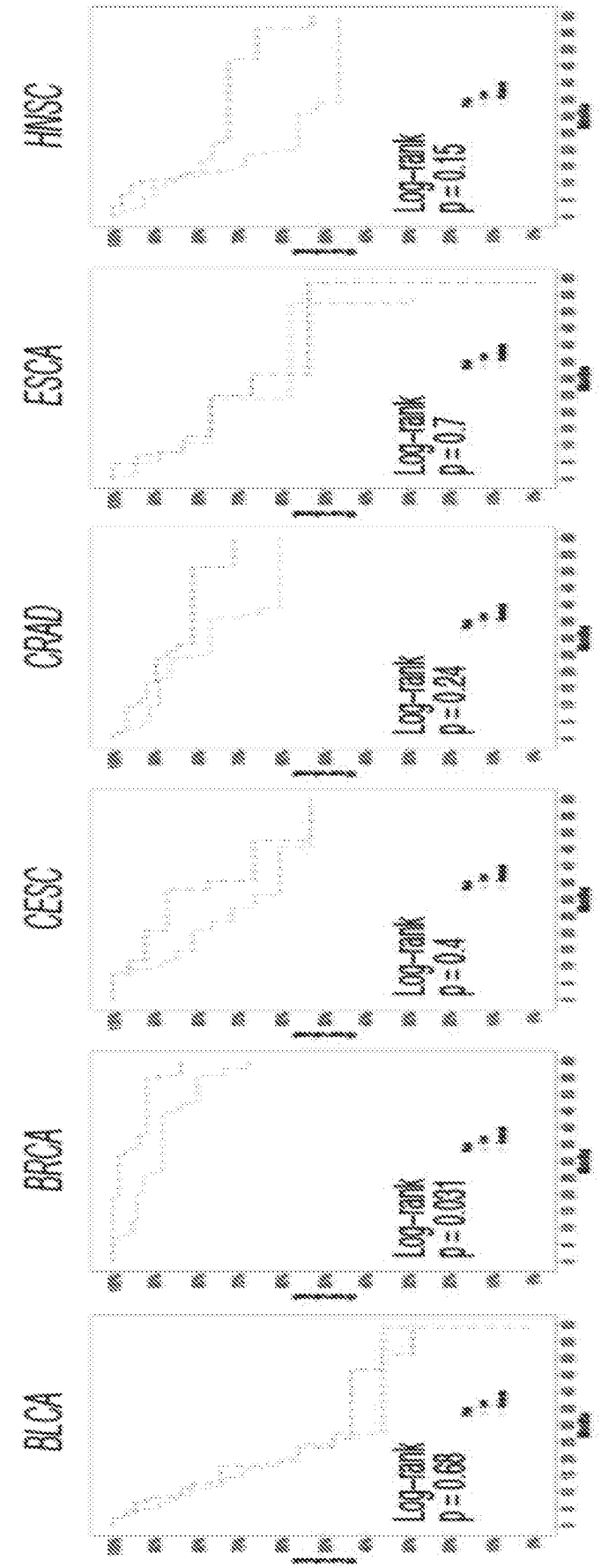

BLCA
Log-rank
p=0.68
BRCA
Log-rank
p=0.091
CESC
Log-rank
p=0.4
CRAD
Log-rank
p=0.24
ESCA
Log-rank
p=0.7
HNSC
Log-rank
p=0.15

FIG. 24A (cont.)

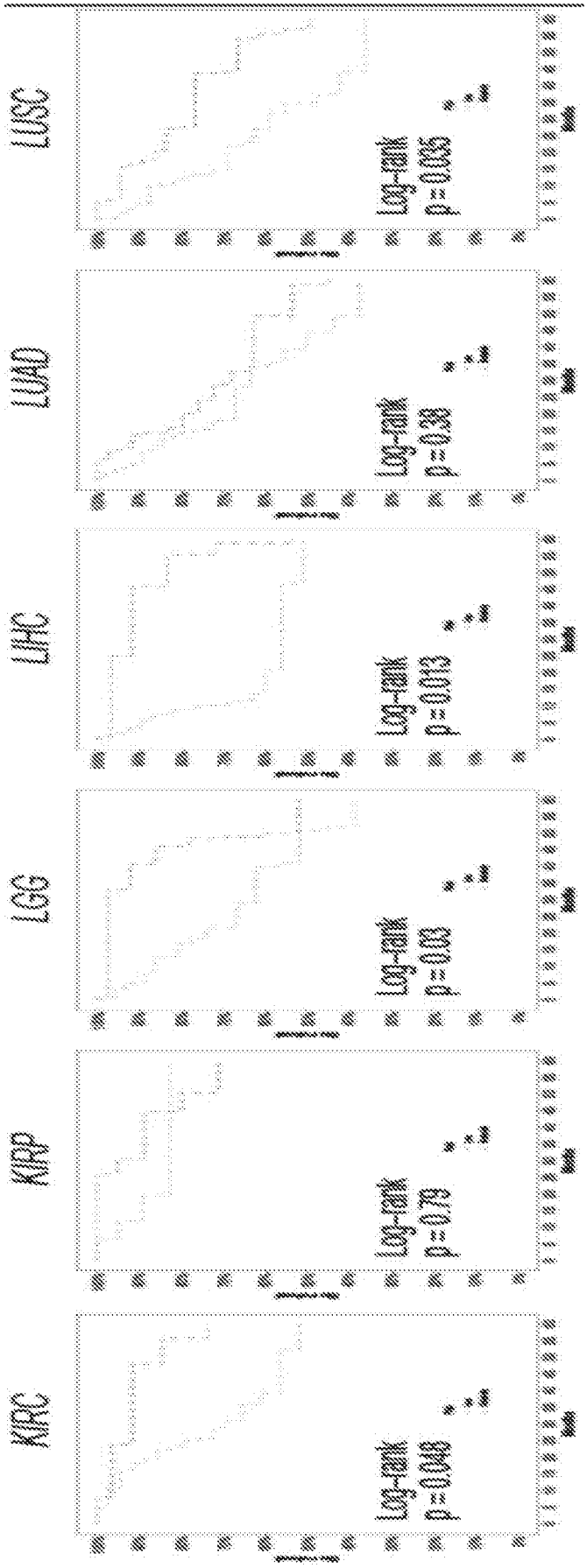

KIRC
KIRP
LGG
LIHC
LUAD
LUSC
Log-rank p=0.048
Log-rank p=0.79
Log-rank p=0.03
Log-rank p=0.013
Log-rank p=0.38
Log-rank p=0.035

FIG. 24A (cont.)

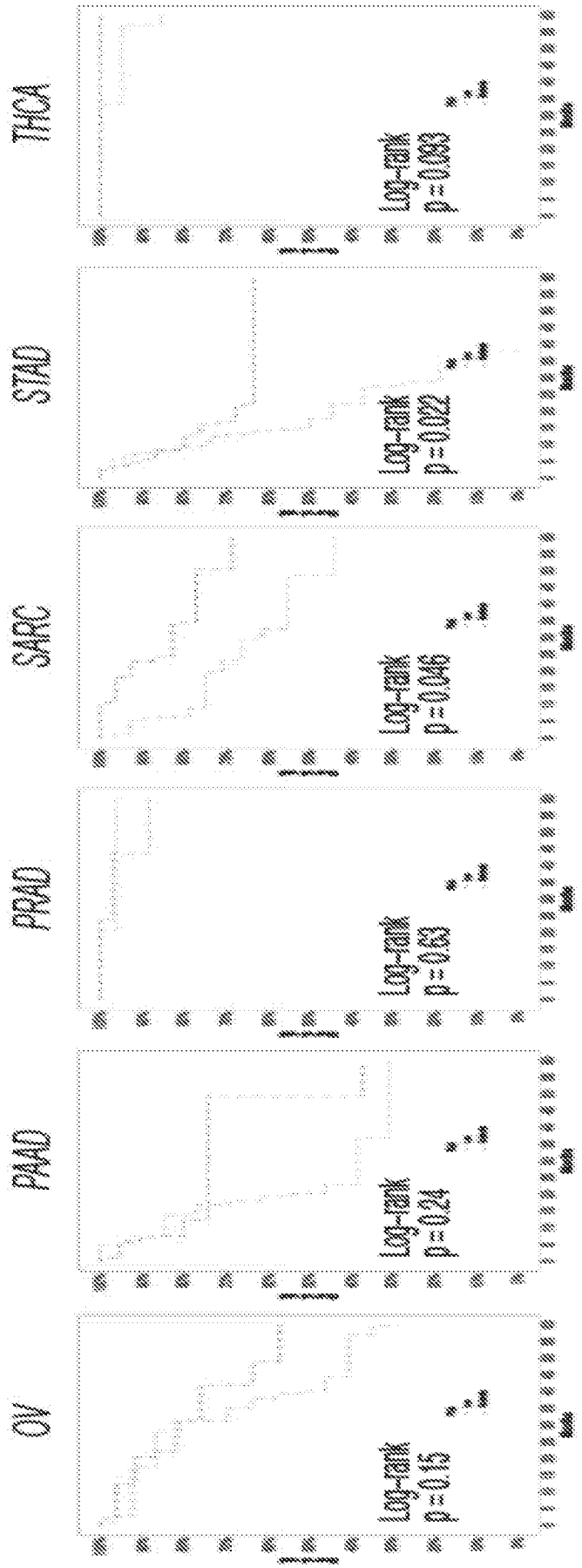

OV
Log-rank p=0.15
PAAD
Log-rank p=0.24
PRAD
Log-rank p=0.63
SARC
Log-rank p=0.046
STAD
Log-rank p=0.022
THCA
Log-rank p=0.093

FIG. 24A (cont.)

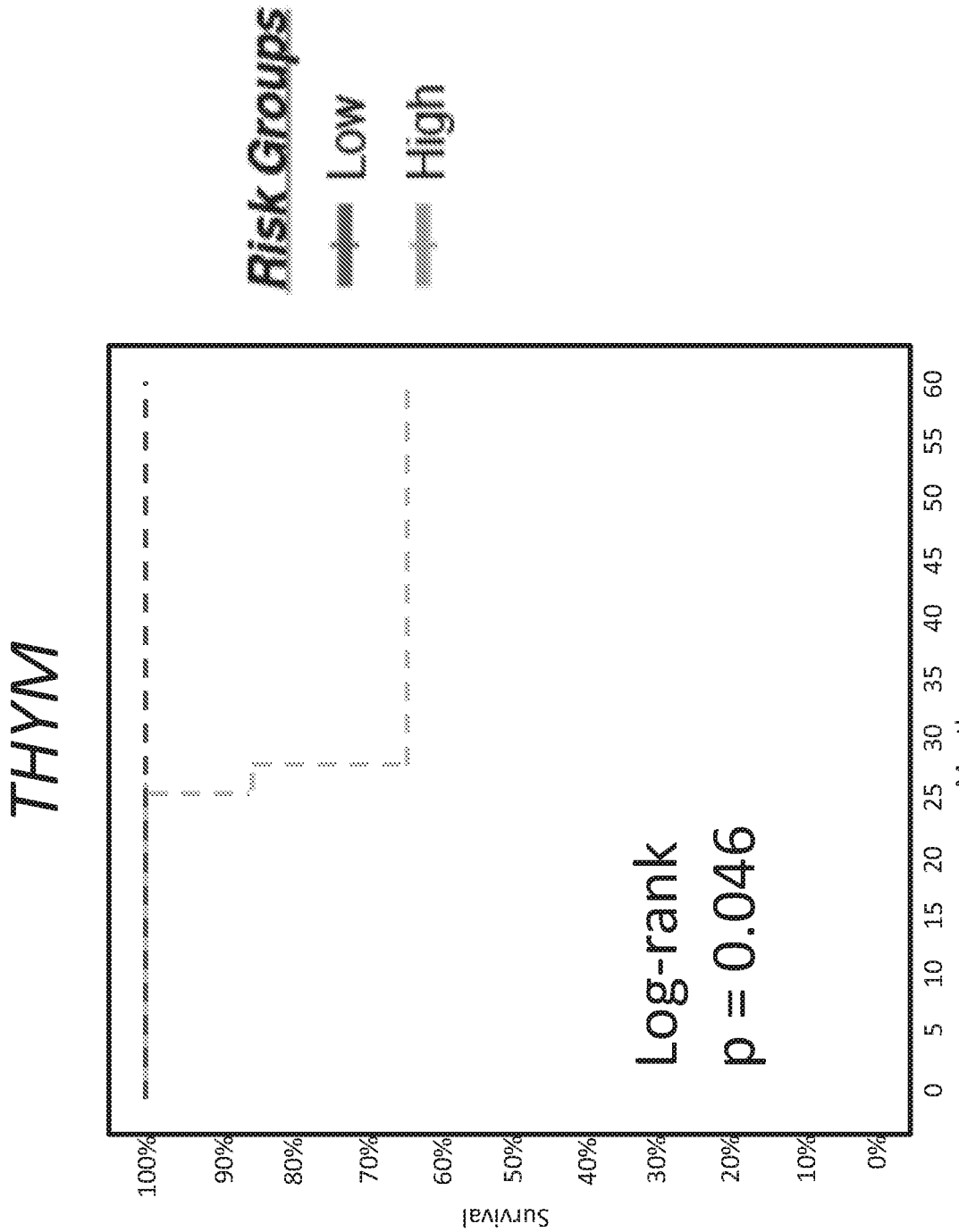

THYM
Risk Groups
Low
High
Log-rank
p = 0.046
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 24A (cont.)

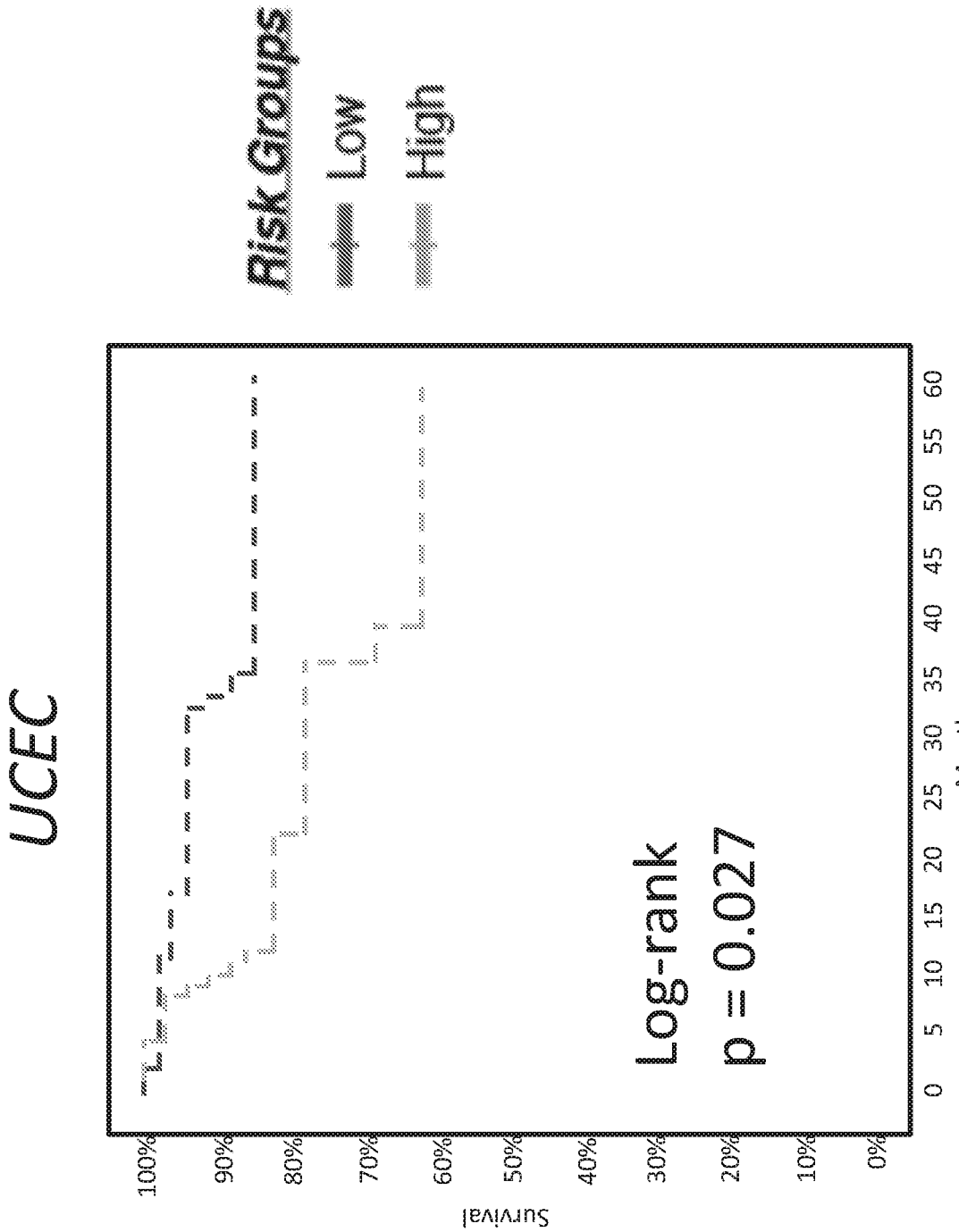

UCEC
Risk Groups
Low
High
Log-rank
p = 0.027
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 24A (cont.)

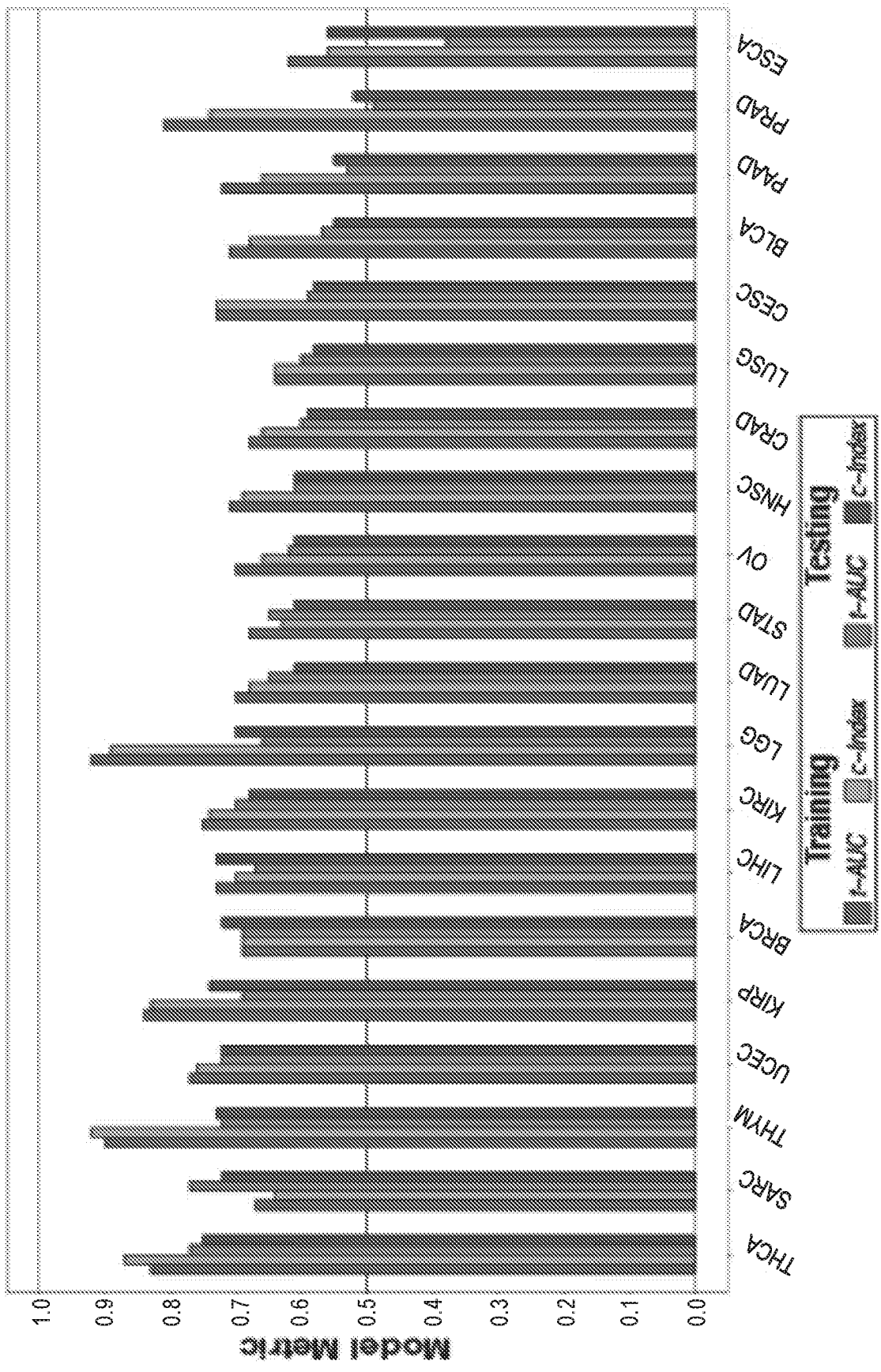

Model Metric
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
THCA
SARC
THYM
UCEC
KIRP
BRCA
LIHC
KIRC
LGG
LUAD
STAD
OV
HNSC
CRAD
LUSC
CESC
BLCA
PAAD
PRAD
ESCA
Training
t-AUC
c-Index
Testing
t-AUC
c-Index

FIG. 24B

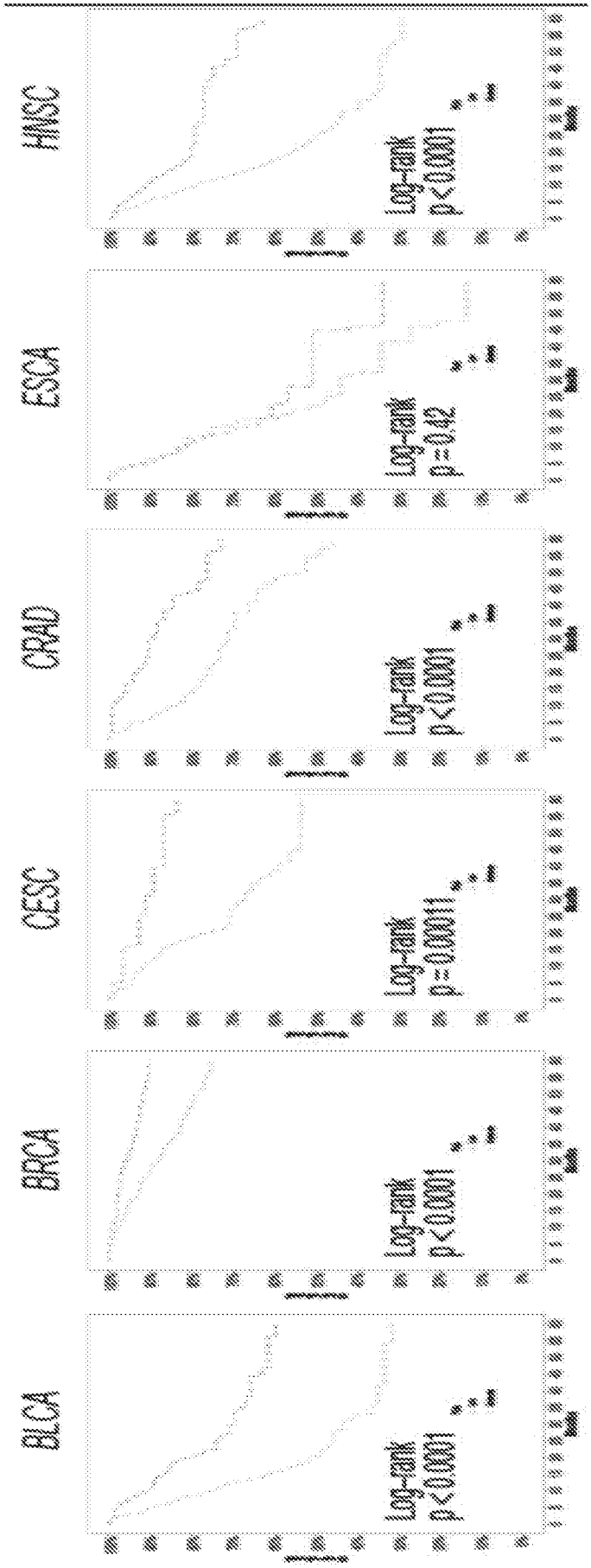

BLCA
Log-rank p<0.0001
BRCA
Log-rank p<0.0001
CESC
Log-rank p=0.00011
CRAD
Log-rank p<0.0001
ESCA
Log-rank p=0.42
HNSC
Log-rank p<0.0001

FIG. 24B (cont.)

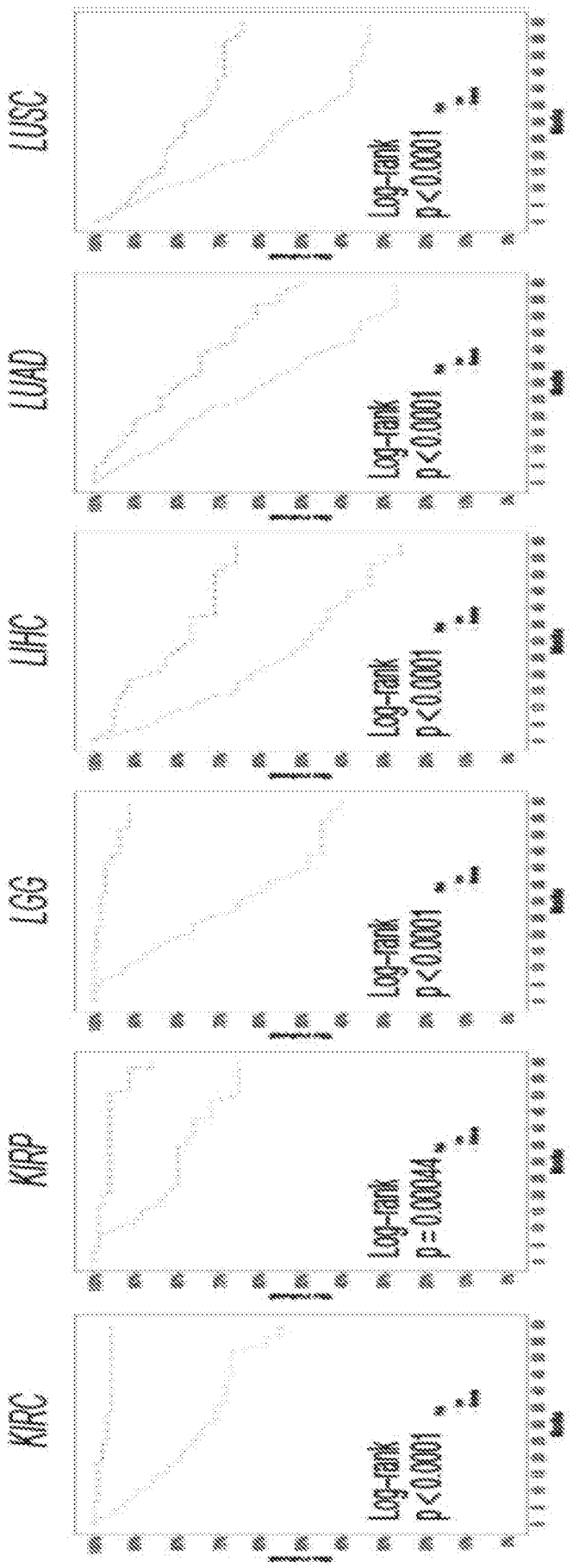

KIRC
Log-rank
p<0.0001
KIRP
Log-rank
p=0.0044
LGG
Log-rank
p<0.0001
LIHC
Log-rank
p<0.0001
LUAD
Log-rank
p<0.0001
LUSC
Log-rank
p<0.0001

FIG. 24B (cont.)

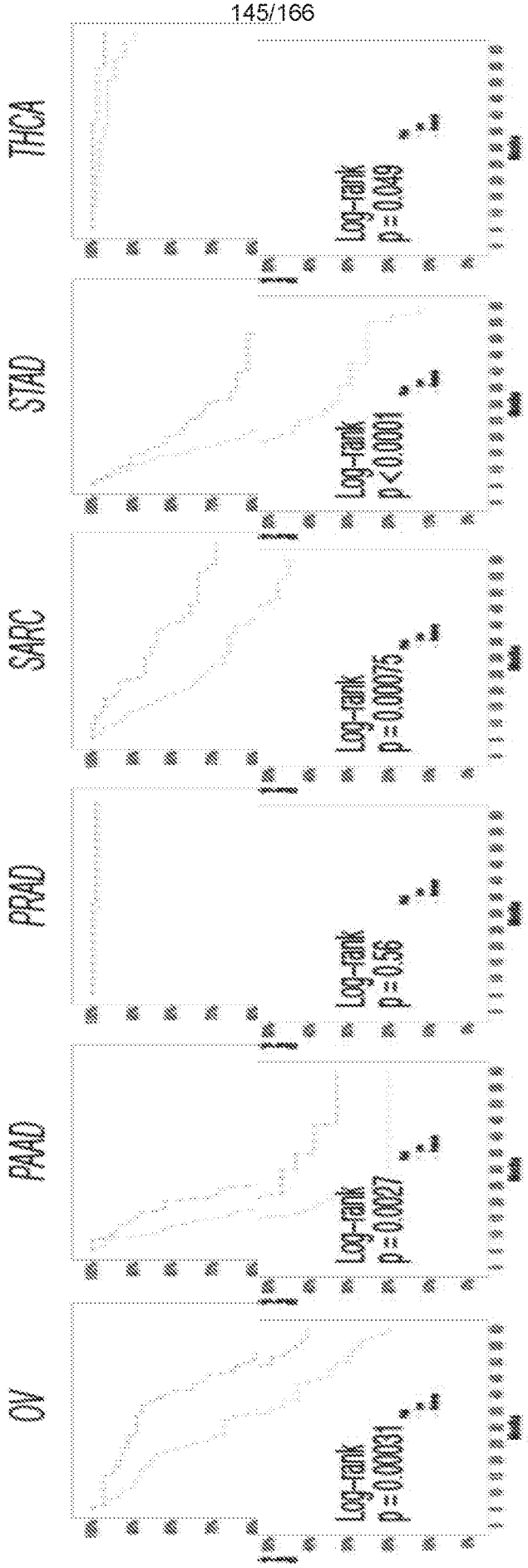

OV
Log-rank
p=0.0031
**
PAAD
Log-rank
p=0.0027
**
PRAD
Log-rank
p=0.58
**
SARC
Log-rank
p=0.00075
***
STAD
Log-rank
p<0.0001
***
THCA
Log-rank
p=0.049
**

FIG. 24B (cont.)

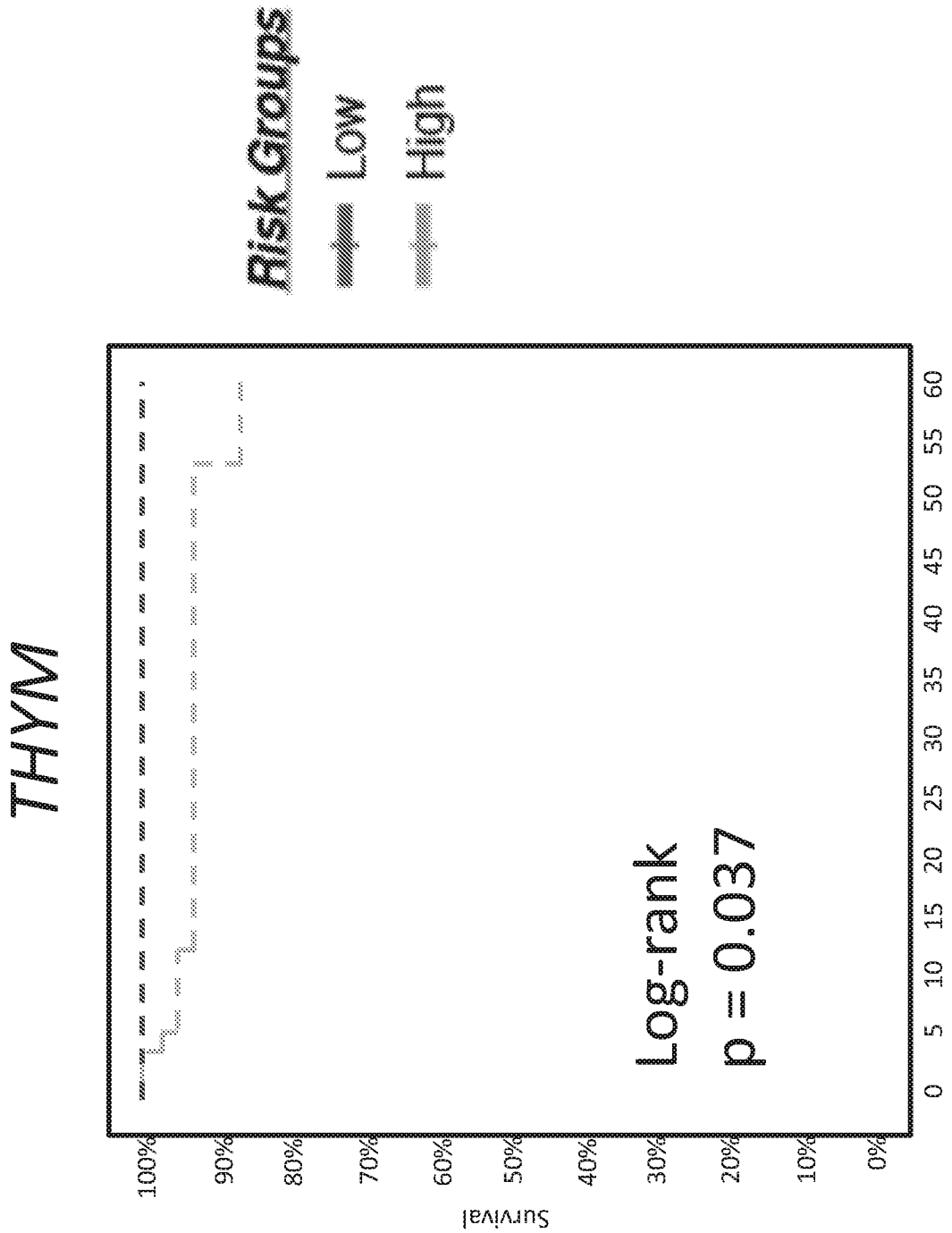

THYM
Risk Groups
Low
High
Log-rank
p = 0.037
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 24B (cont.)

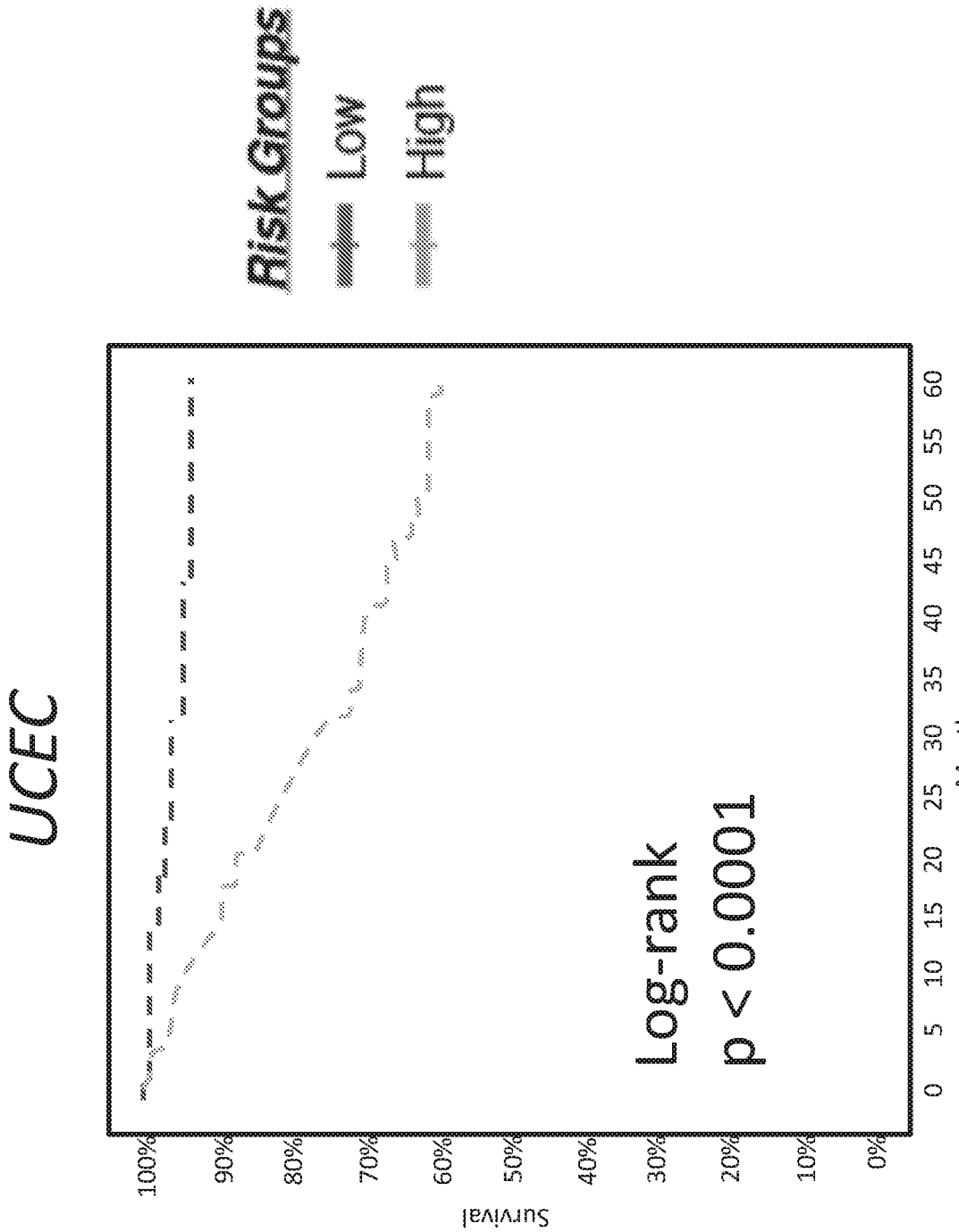

UCEC
Risk Groups
Low
High
Log-rank
p < 0.0001
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 24B (cont.)

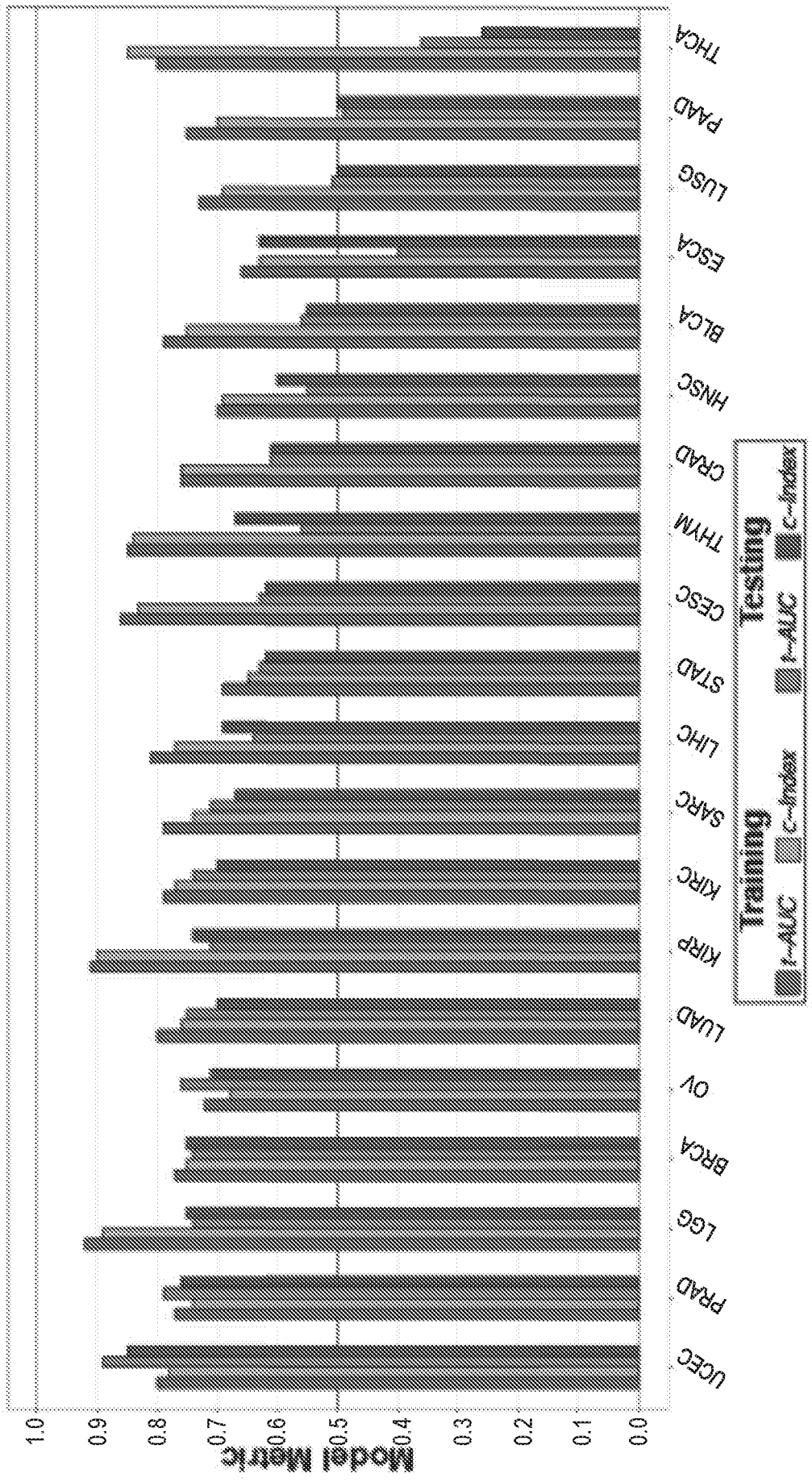

Model Metric
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
UCEC
PRAD
LGG
BRCA
OV
LUAD
KIRP
KIRC
SARC
LIHC
STAD
CESC
THYM
CRAD
HNSC
BLCA
ESCA
LUSC
PAAD
THCA
Training
t-AUC
c-Index
Testing
t-AUC
c-Index

FIG. 25A

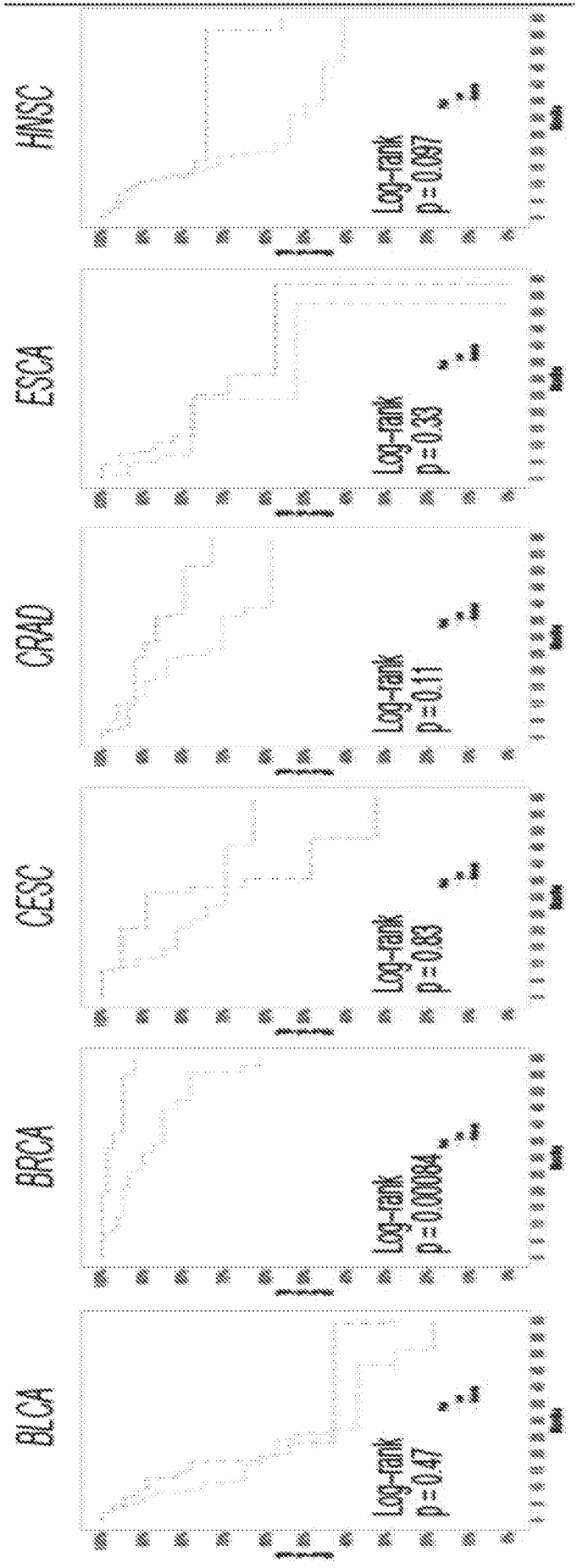

BLCA
Log-rank
p=0.47
BRCA
Log-rank
p=0.00004
CESC
Log-rank
p=0.83
CRAD
Log-rank
p=0.11
ESCA
Log-rank
p=0.33
HNSC
Log-rank
p=0.097

FIG. 25A (cont.)

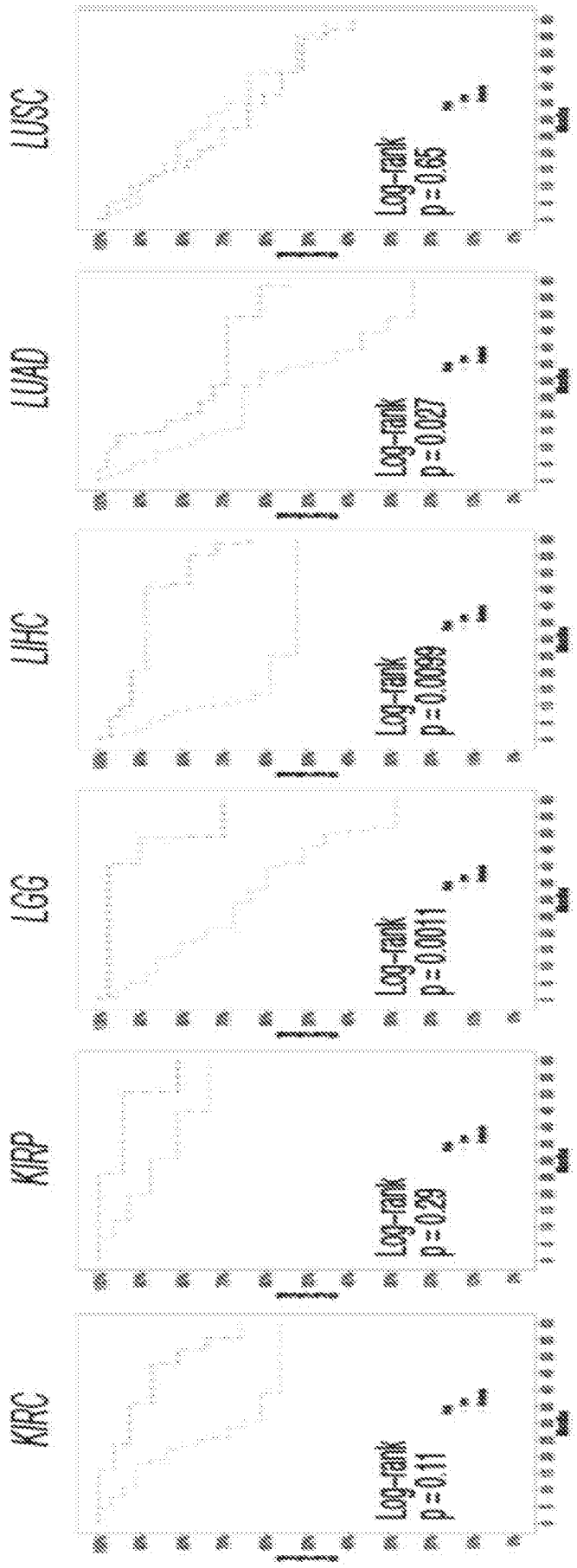

KIRC
Log-rank
p=0.11
KIRP
Log-rank
p=0.28
LGG
Log-rank
p=0.0011
LIHC
Log-rank
p=0.0089
LUAD
Log-rank
p=0.027
LUSC
Log-rank
p=0.65

FIG. 25A (cont.)

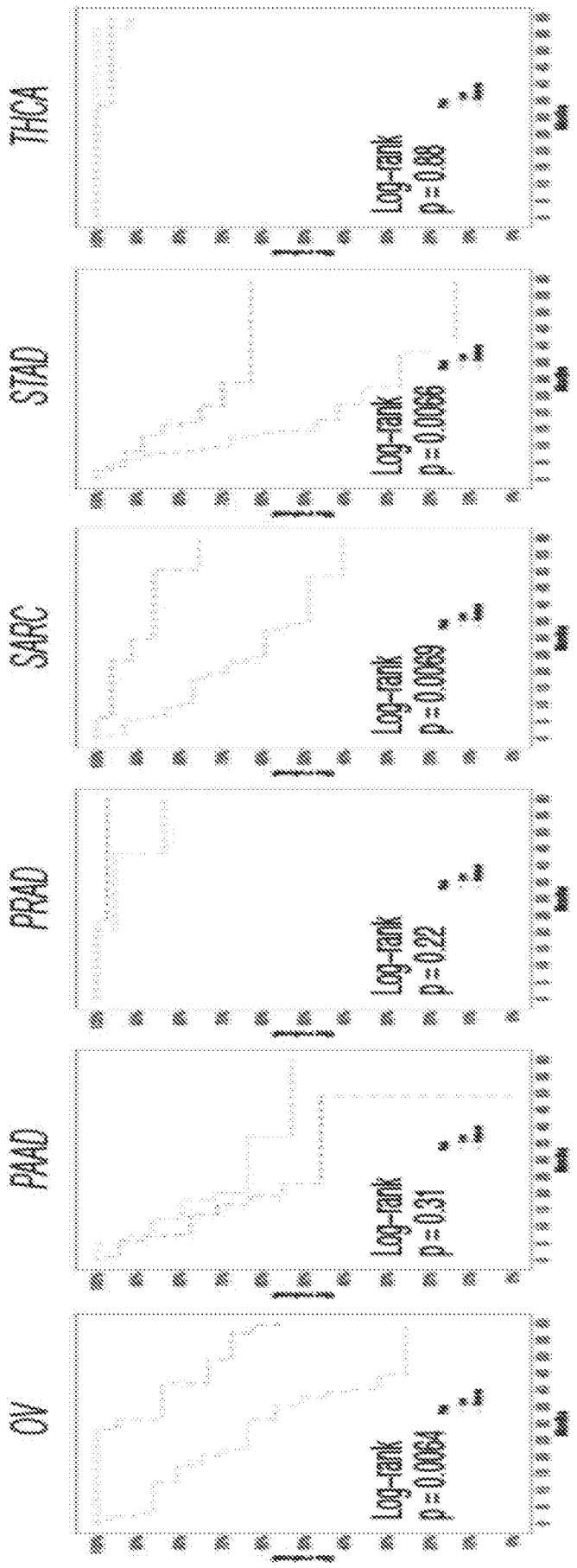

OV
Log-rank
p = 0.0064
PAAD
Log-rank
p = 0.31
PRAD
Log-rank
p = 0.22
SARC
Log-rank
p = 0.0069
STAD
Log-rank
p = 0.0068
THCA
Log-rank
p = 0.88

FIG. 25A (cont.)

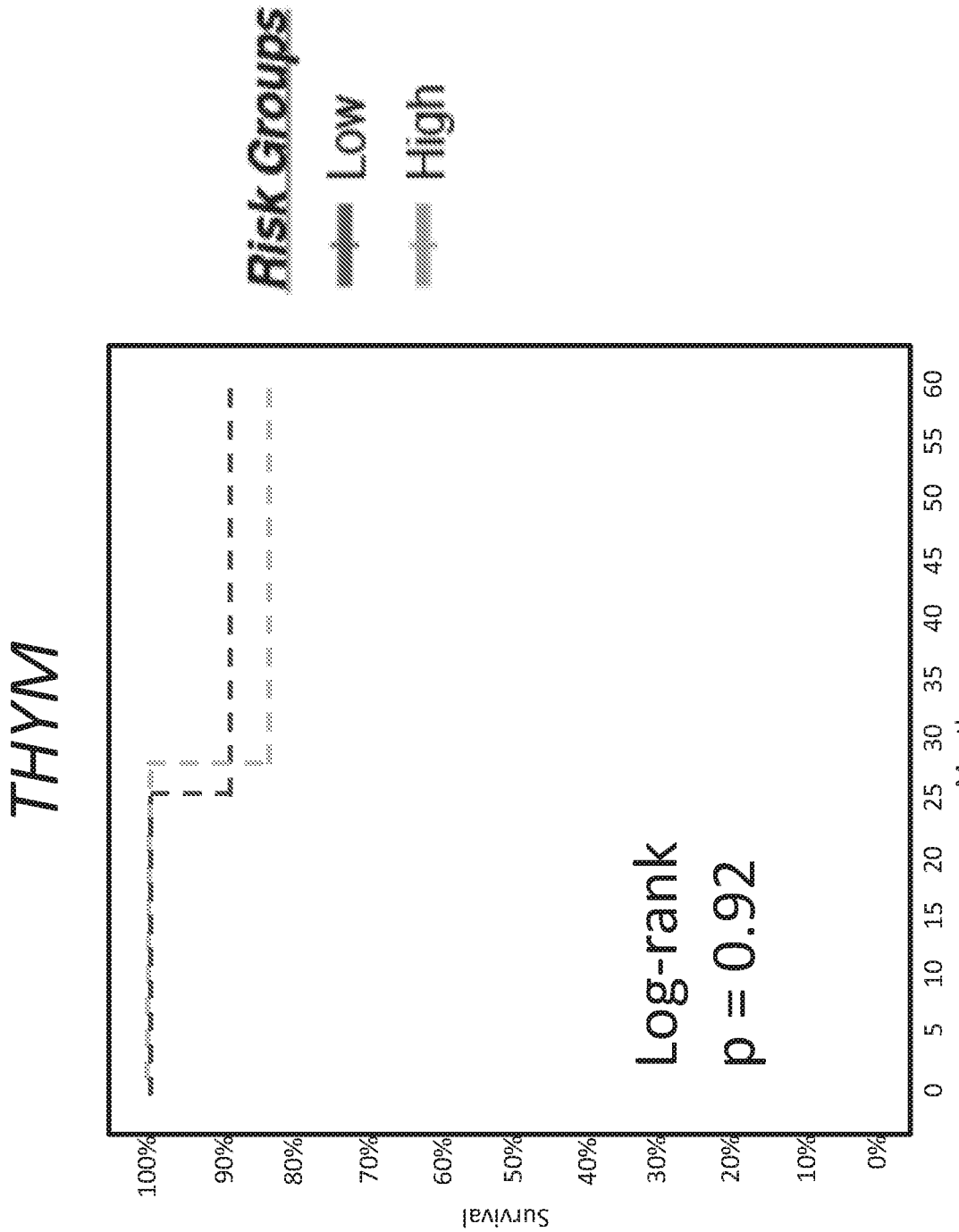

THYM
Risk Groups
Low
High
Log-rank
p = 0.92
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 25A (cont.)

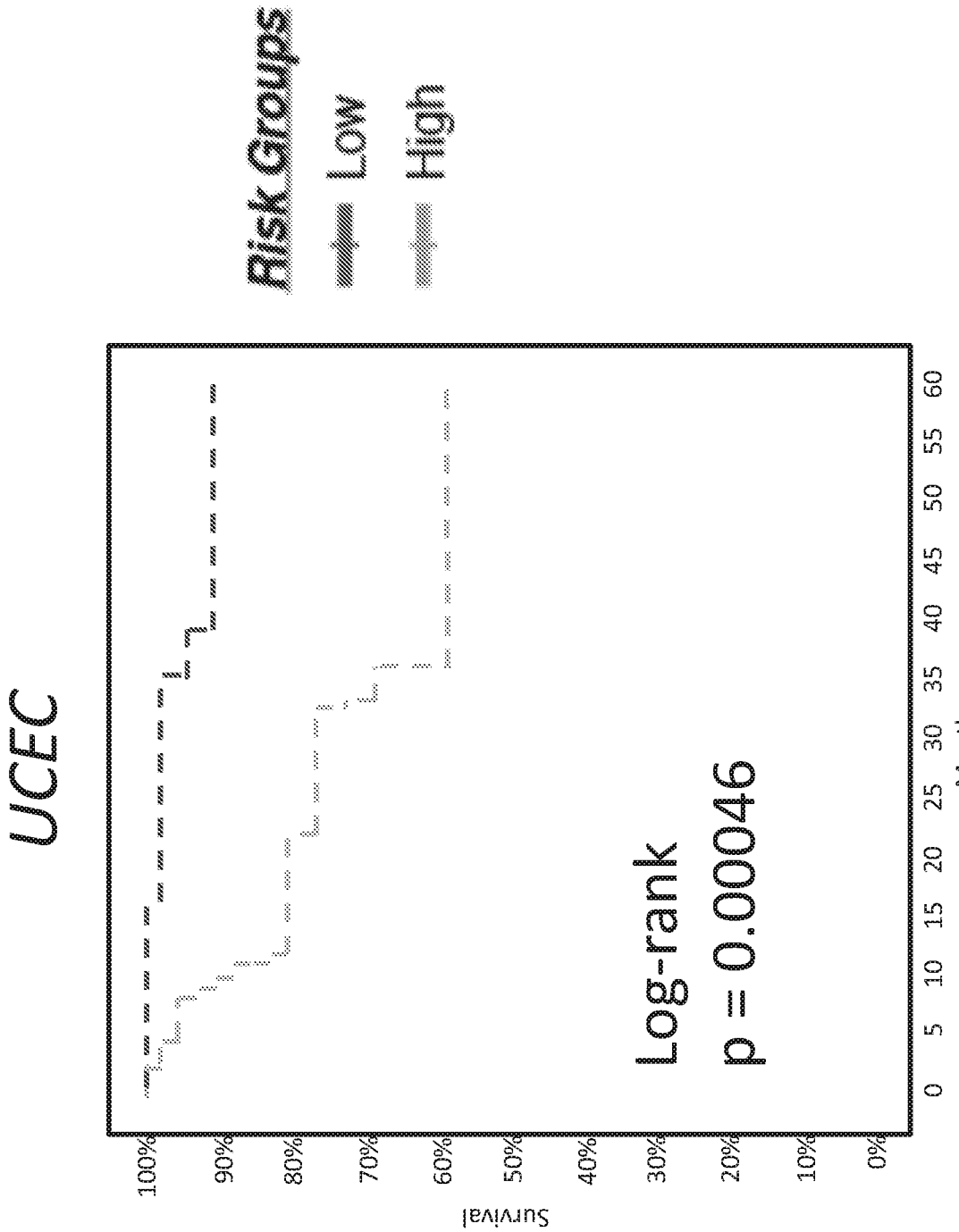

UCEC
Risk Groups
Low
High
Log-rank
p = 0.00046
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 25A (cont.)

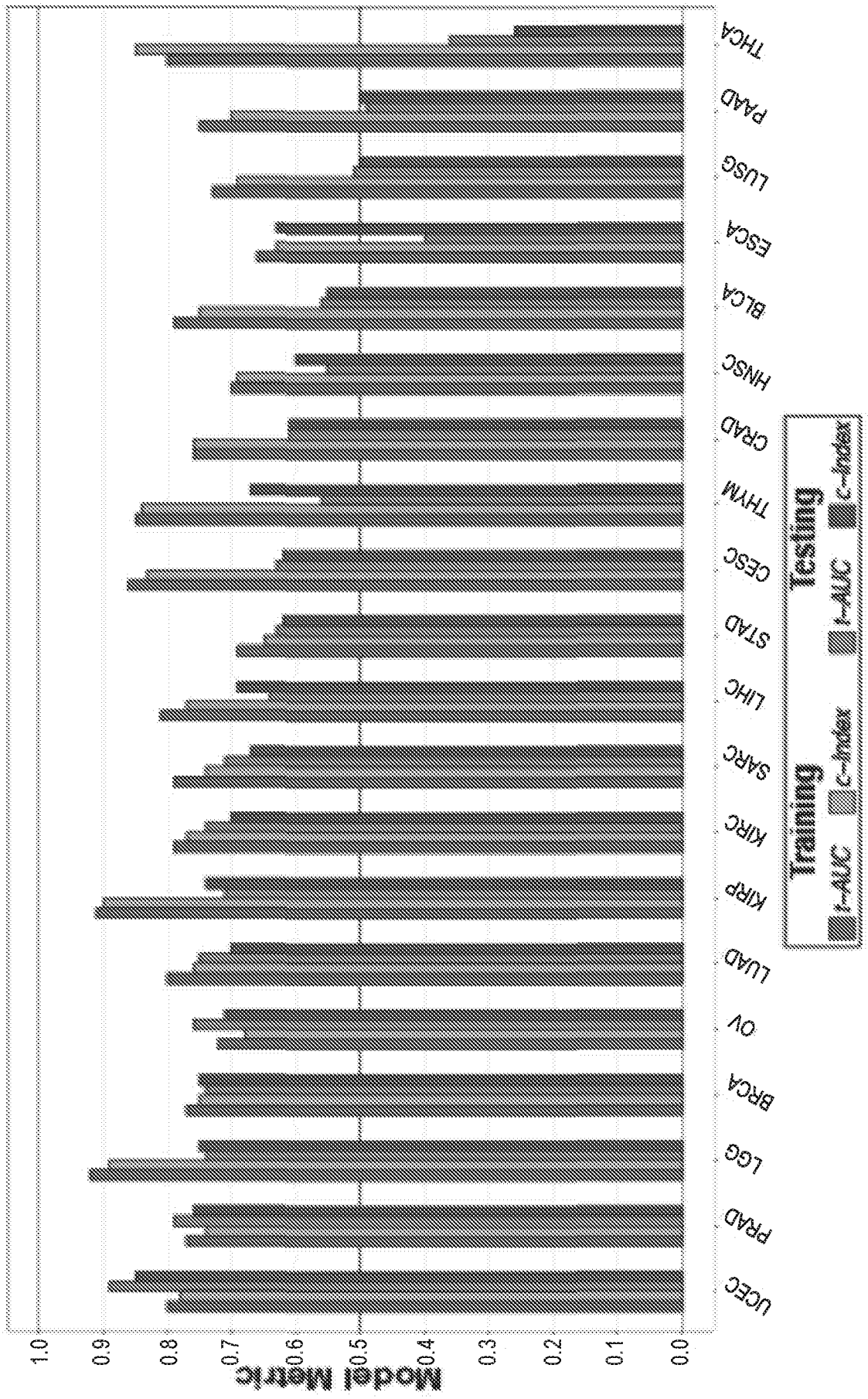

Model Metric
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
UCEC
PRAD
LGG
BRCA
OV
LUAD
KIRP
KIRC
SARC
LIHC
STAD
CESC
THYM
CRAD
HNSC
BLCA
ESCA
LUSC
PAAD
THCA
Training
Testing
t-AUC
c-Index
t-AUC
c-Index

FIG. 25B

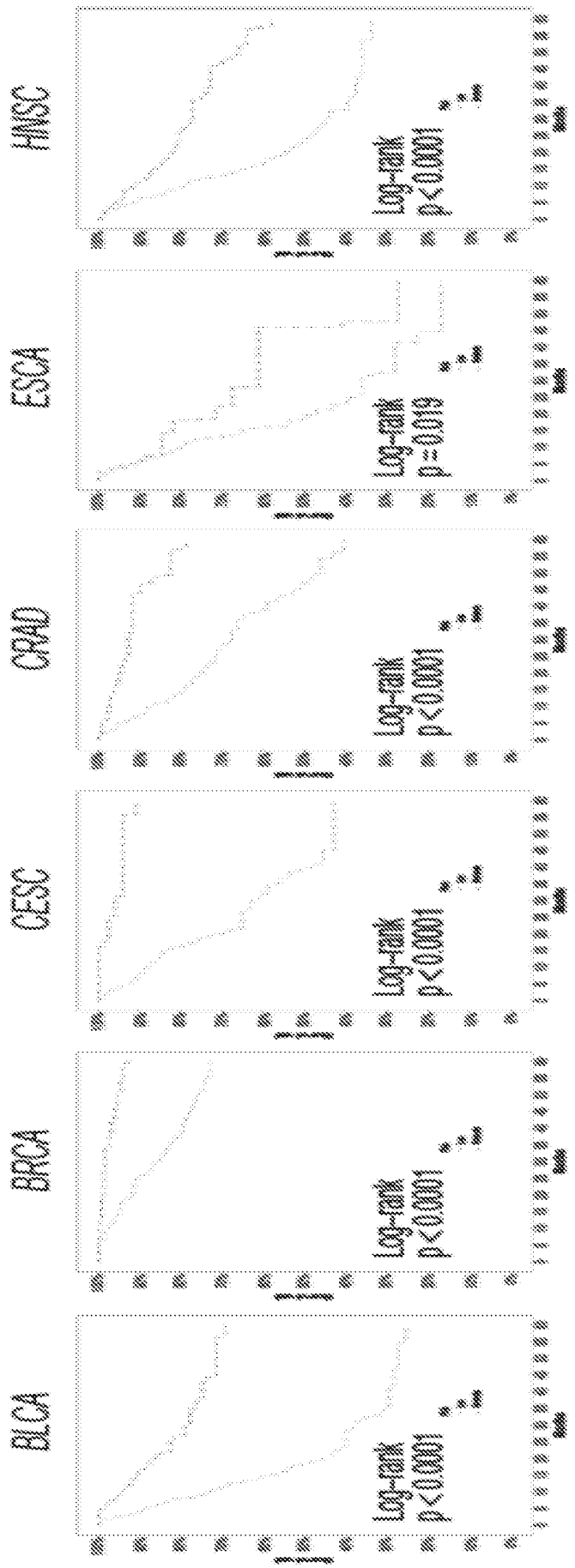

BLCA
Log-rank
p<0.0001
BRCA
Log-rank
p<0.0001
CESC
Log-rank
p<0.0001
CPAD
Log-rank
p<0.0001
ESCA
Log-rank
p=0.019
HNSC
Log-rank
p<0.0001

FIG. 25B (cont.)

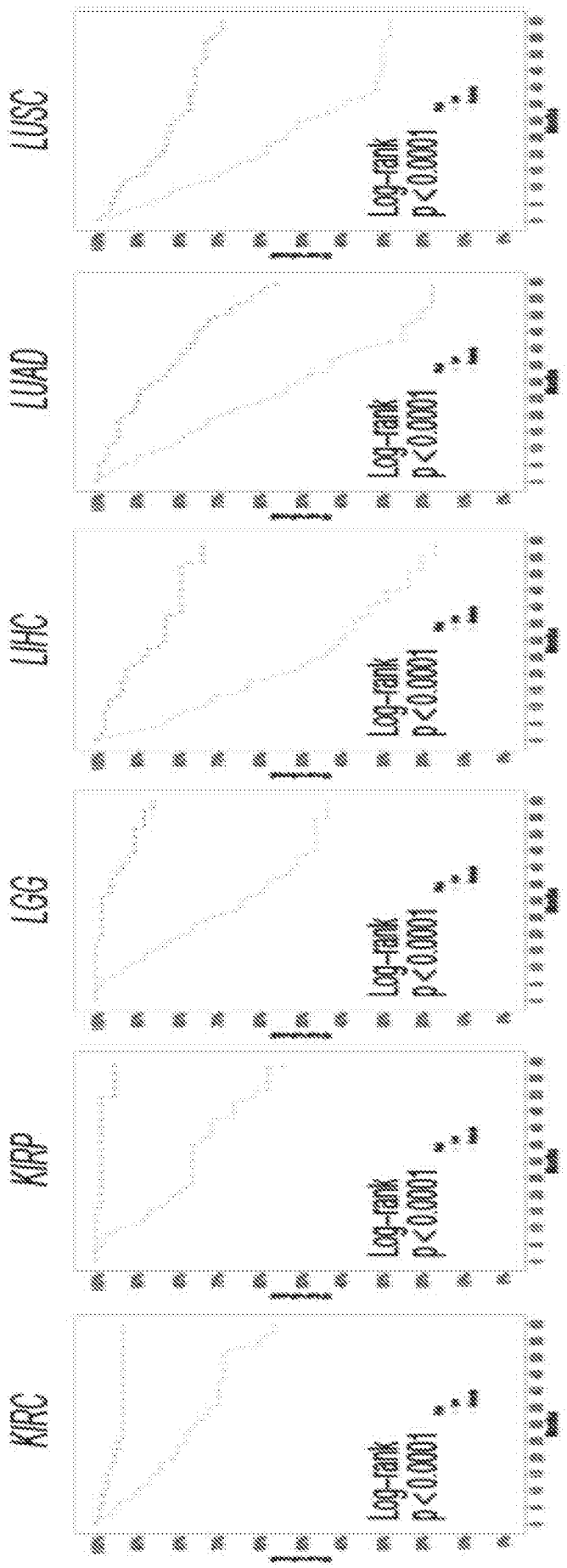


FIG. 25B (cont.)

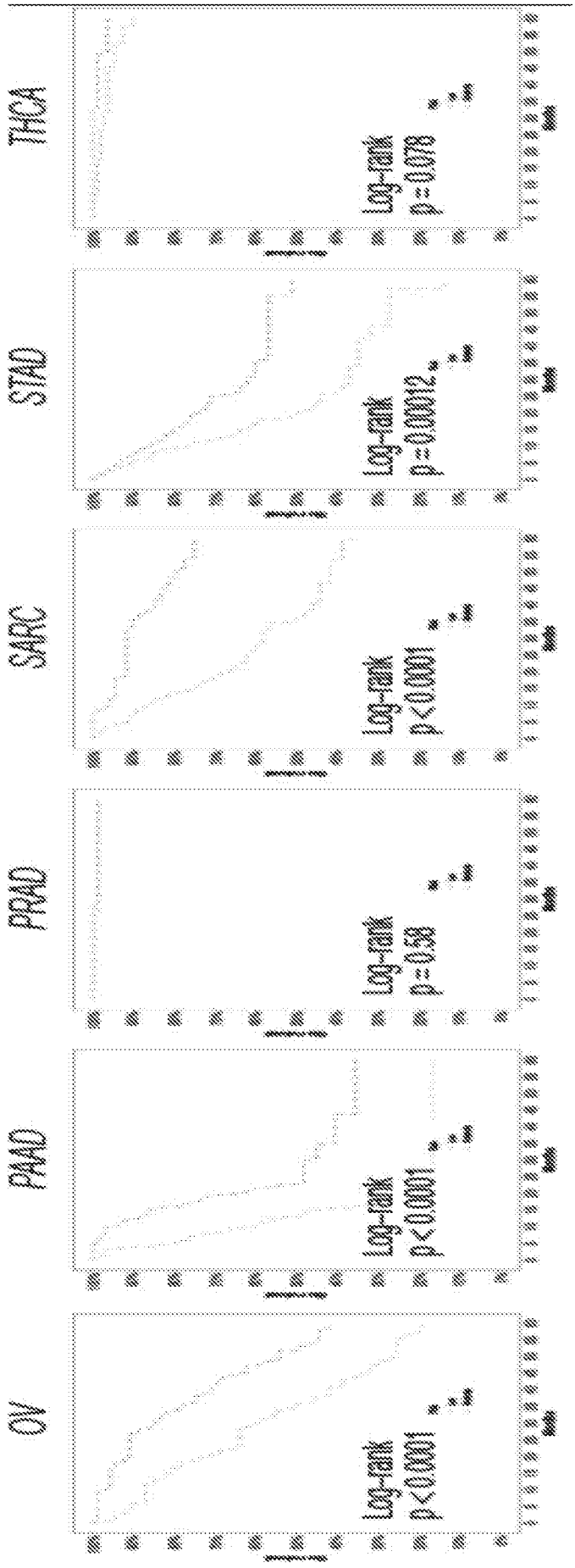

OV
Log-rank
p<0.0001
PAAD
Log-rank
p<0.0001
PRAD
Log-rank
p=0.58
SARC
Log-rank
p<0.0001
STAD
Log-rank
p=0.00012
THCA
Log-rank
p=0.078

FIG. 25B (cont.)

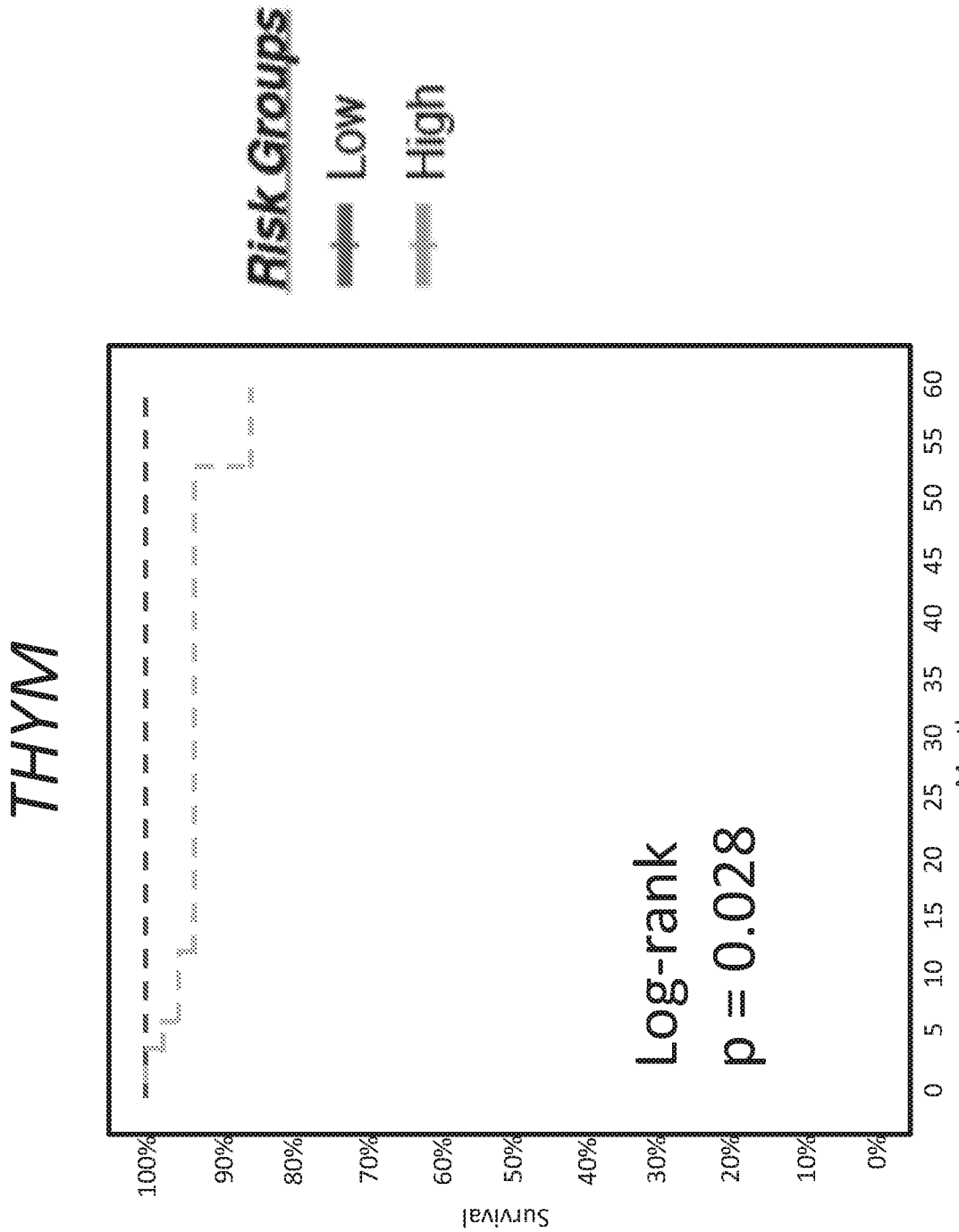

THYM
Risk Groups
Low
High
Log-rank
p = 0.028
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 25B (cont.)

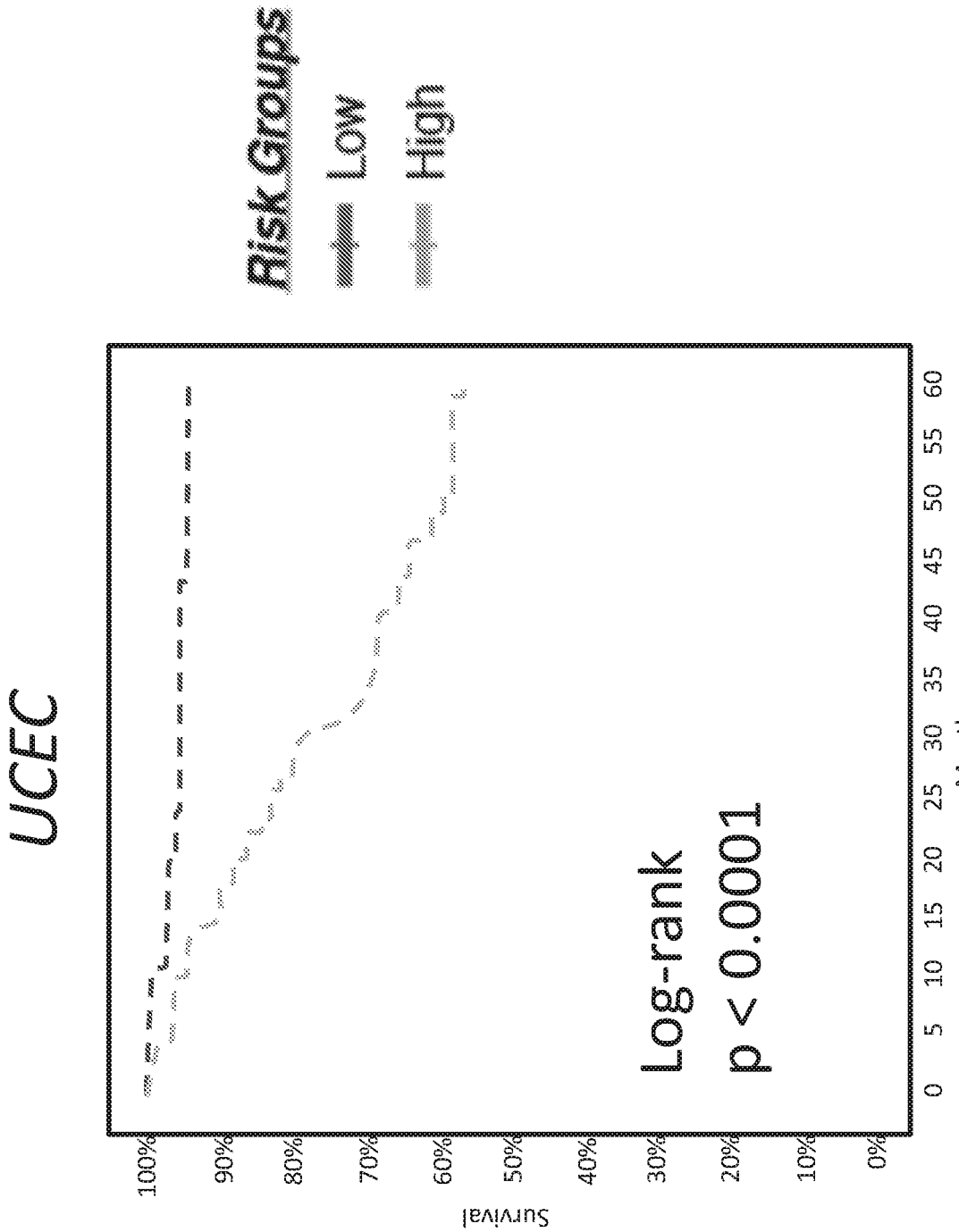

UCEC
Risk Groups
Low
High
Log-rank
p < 0.0001
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 25B (cont.)

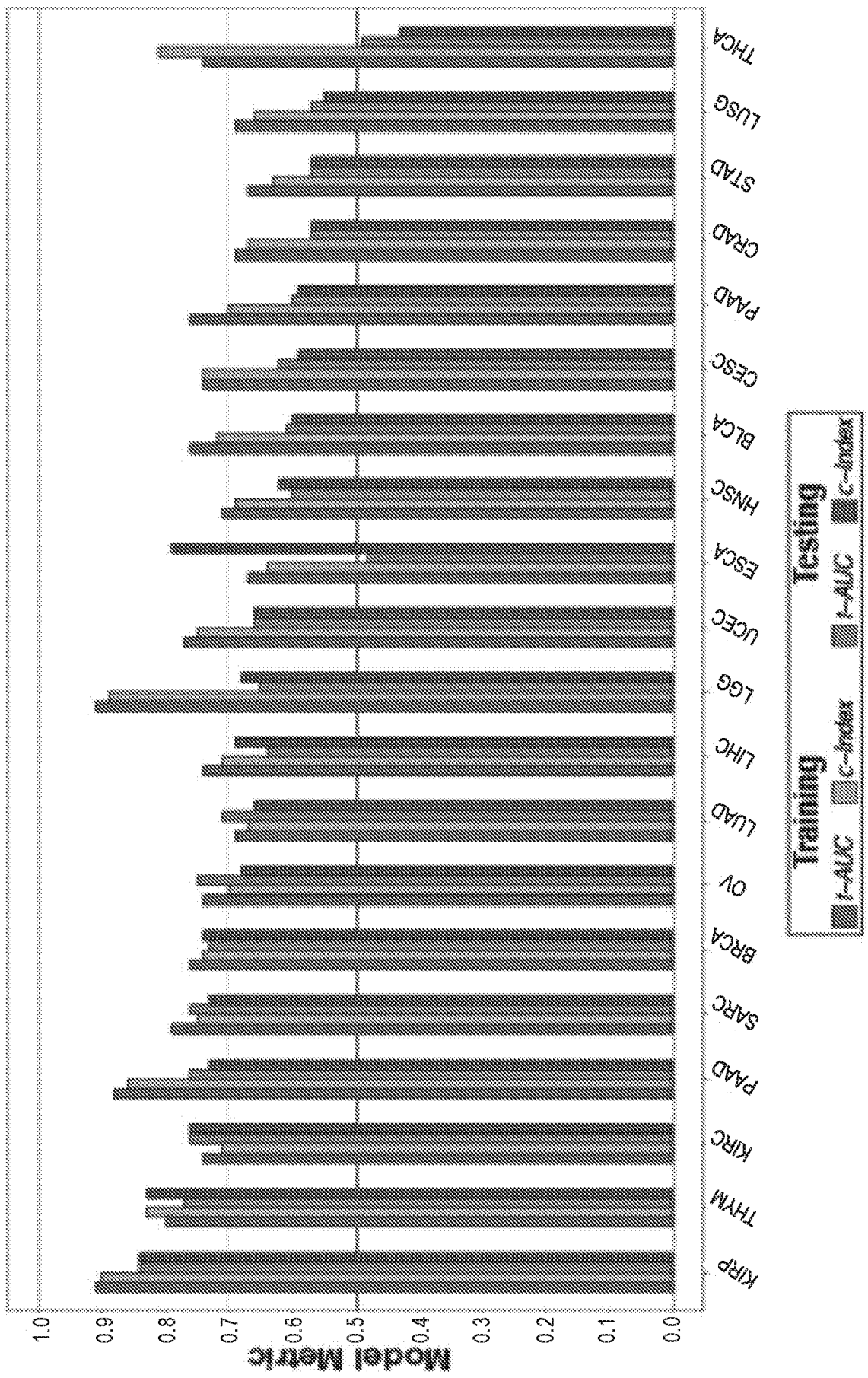

Model Metric
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
KIRP
THYM
KIRC
PAAD
SARC
BRCA
OV
LUAD
LIHC
LGG
UCEC
ESCA
HNSC
BLCA
CESC
PAAD
CRAD
STAD
LUSG
THCA
Training
t-AUC
c-Index
Testing
t-AUC
c-Index

FIG. 26A

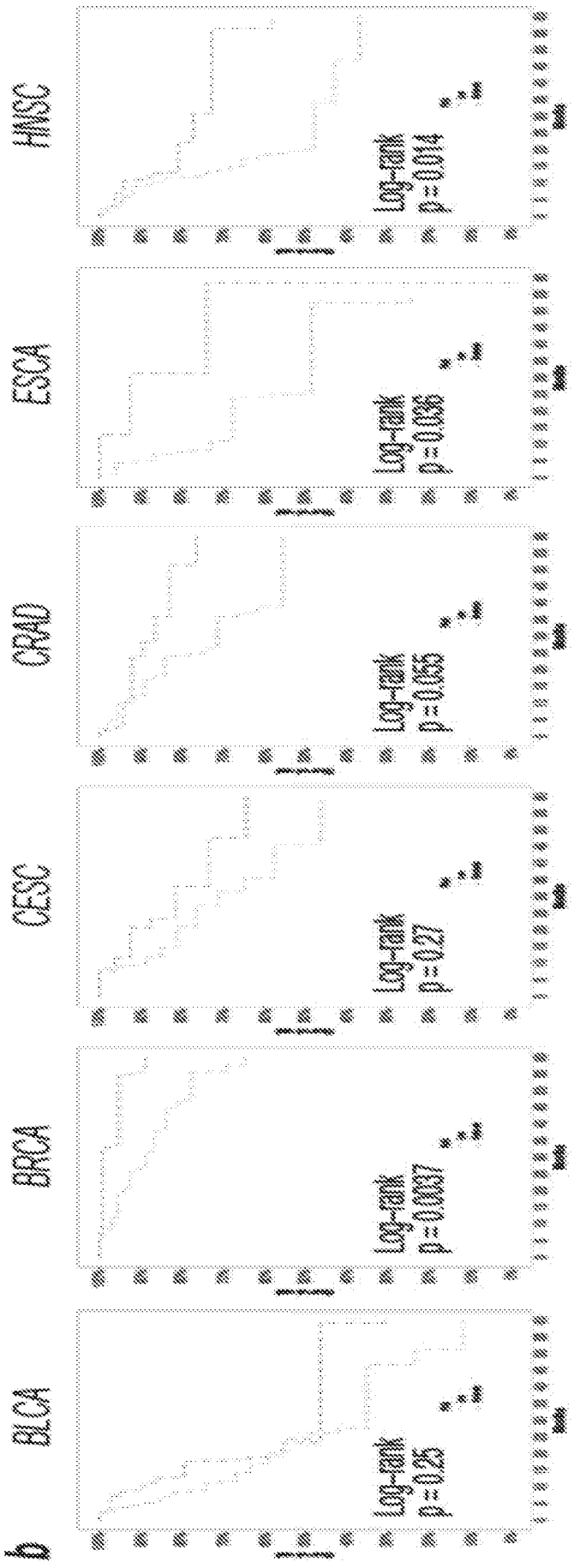

b
BLCA
Log-rank
p=0.25
BRCA
Log-rank
p=0.0037
CESC
Log-rank
p=0.27
CRAD
Log-rank
p=0.055
ESCA
Log-rank
p=0.036
HNSC
Log-rank
p=0.014

FIG. 26A (cont.)

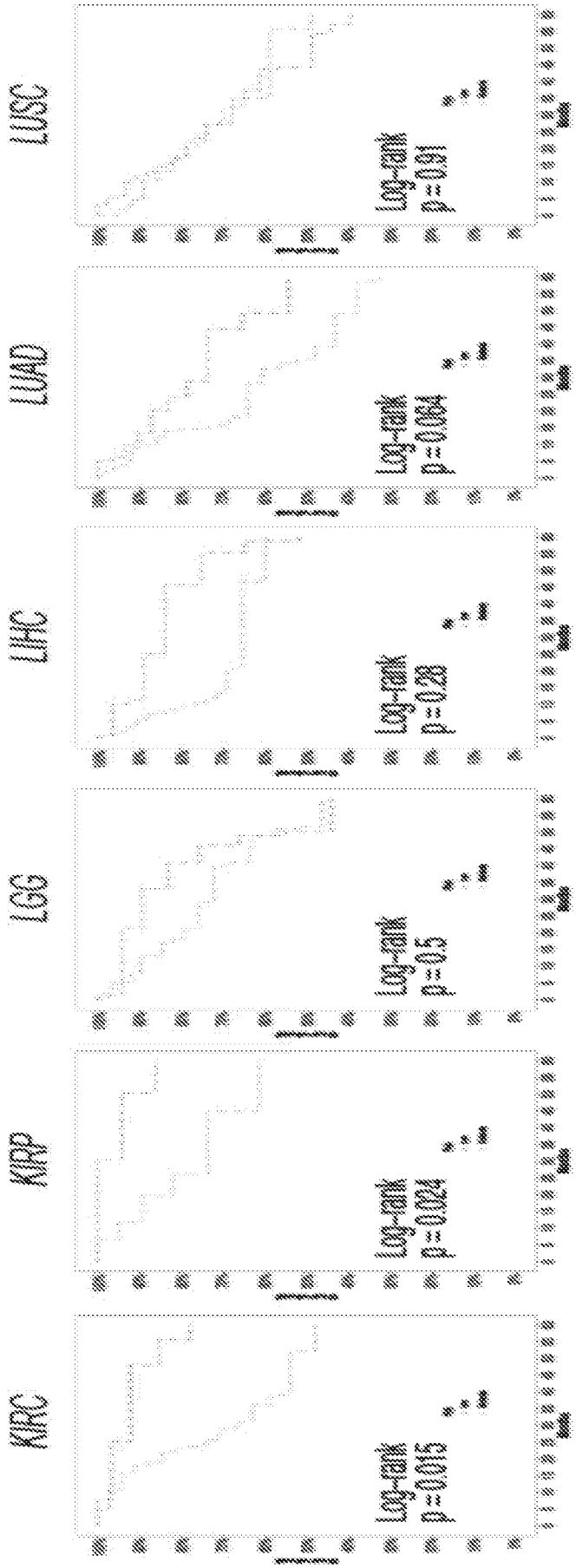

KIRC
Log-rank p=0.015
KIRP
Log-rank p=0.024
LGG
Log-rank p=0.5
LIHC
Log-rank p=0.28
LUAD
Log-rank p=0.084
LUSC
Log-rank p=0.91

FIG. 26A (cont.)

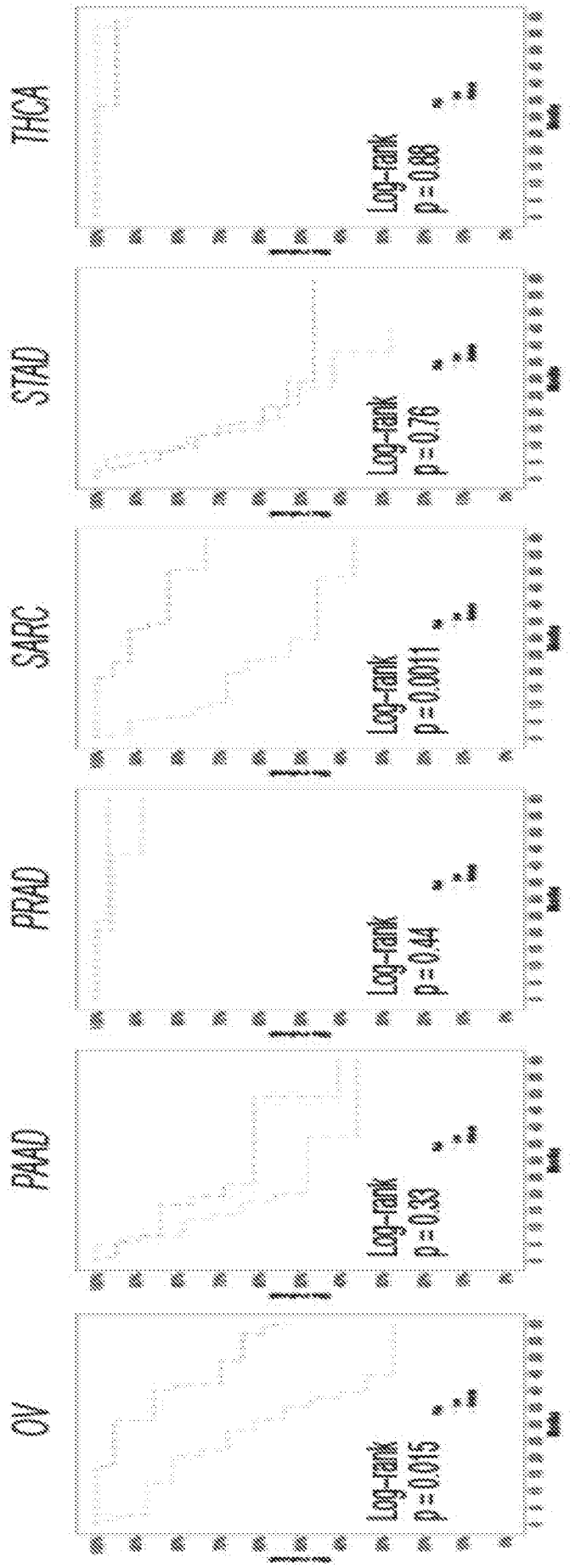

OV
Log-rank
p=0.015
PAAD
Log-rank
p=0.33
PRAD
Log-rank
p=0.44
SARC
Log-rank
p=0.0011
STAD
Log-rank
p=0.76
THCA
Log-rank
p=0.08

FIG. 26A (cont.)

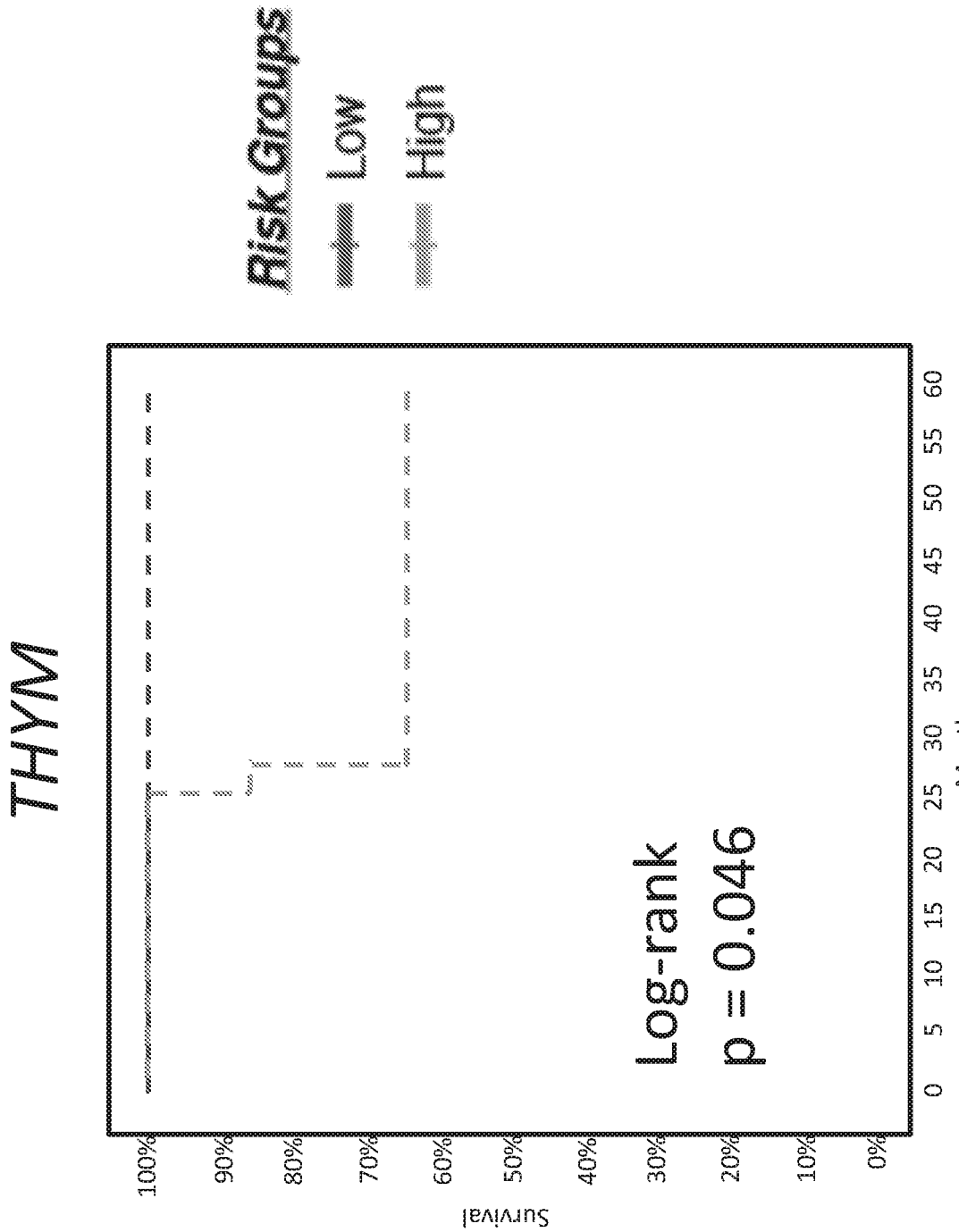

THYM
Risk Groups
Low
High
Log-rank
p = 0.046
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 26A (cont.)

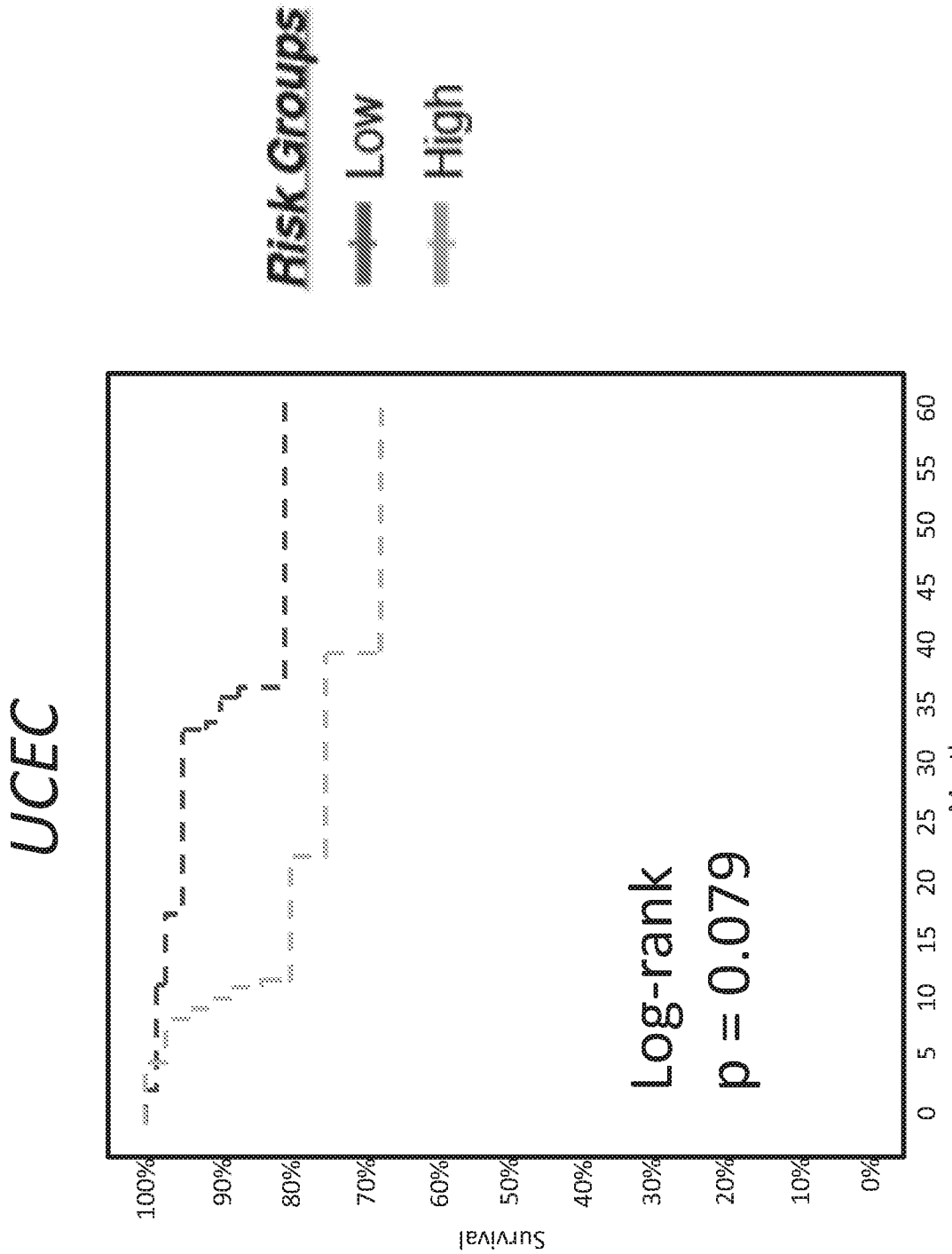

UCEC
Risk Groups
Low
High
Log-rank
p = 0.079
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 26A (cont.)

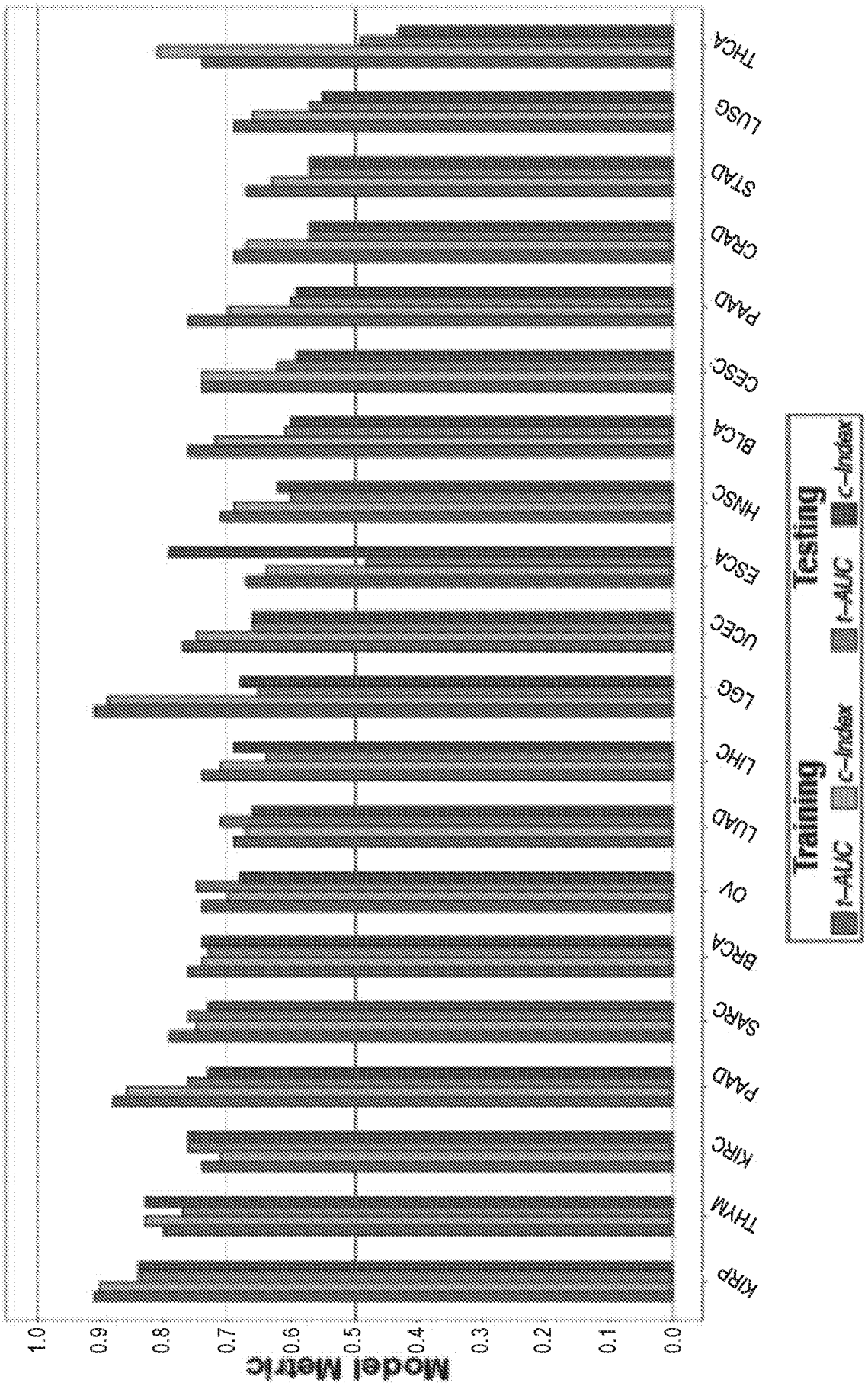

Model Metric
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
KIRP
THYM
KIRC
PAAD
SARC
BRCA
OV
LUAD
LIHC
LGG
UCEC
ESCA
HNSC
BLCA
CESC
PAAD
CRAD
STAD
LUSG
THCA
Training
t-AUC
c-Index
Testing
t-AUC
c-Index

FIG. 26B

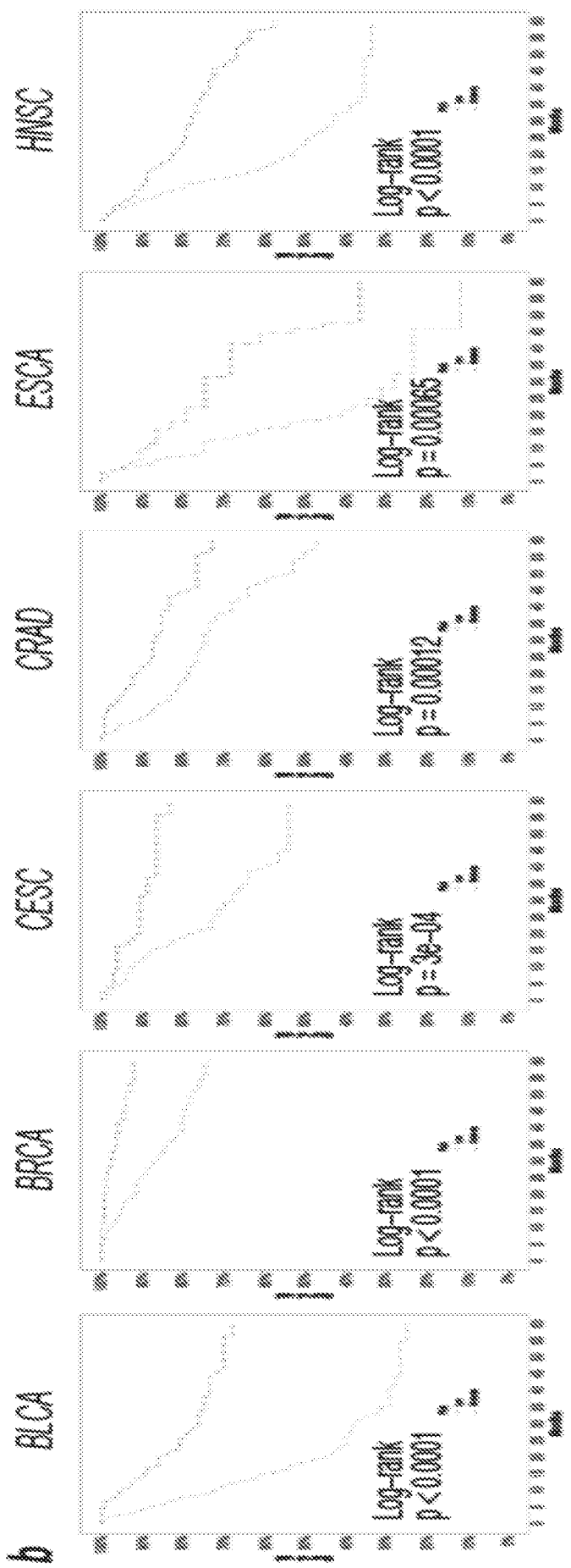

b
BLCA
Log-rank
p<0.0001
BRCA
Log-rank
p<0.0001
CESC
Log-rank
p=3e-04
CRAD
Log-rank
p=0.00012
ESCA
Log-rank
p=0.00165
HNSC
Log-rank
p<0.0001

FIG. 26B (cont.)

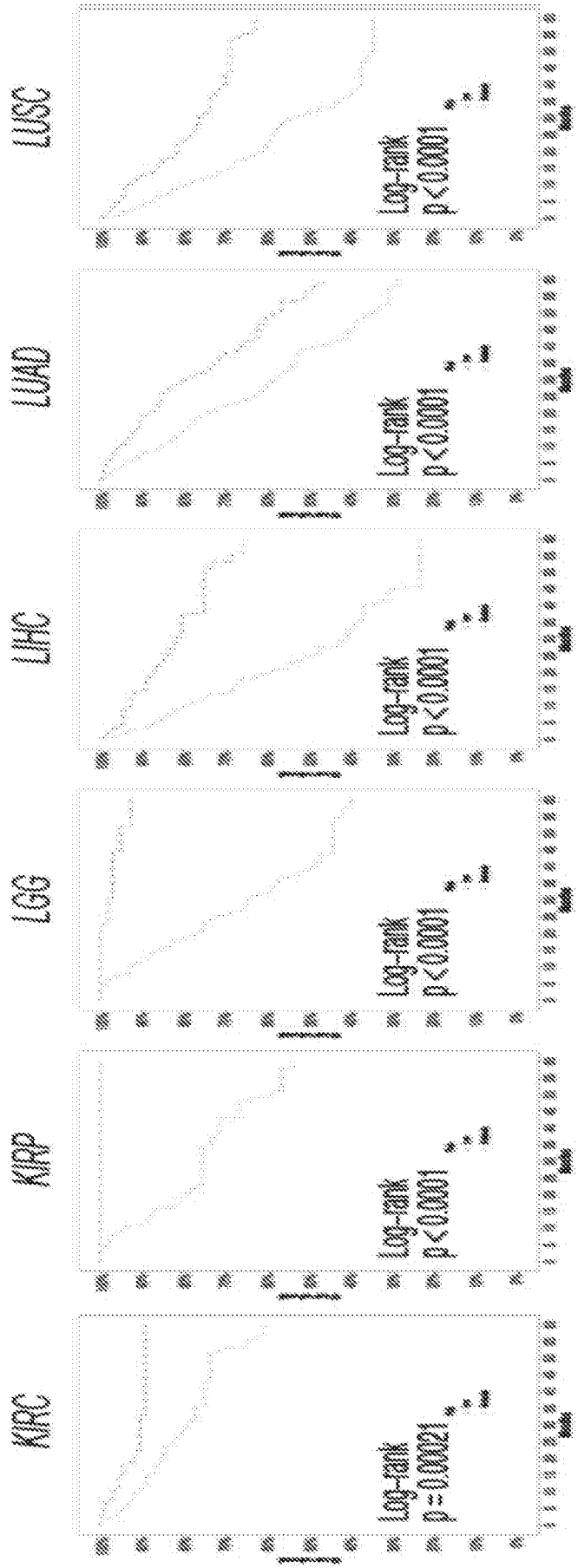

KIRC
KRP
LGG
LIHC
LUAD
LUSC
Log-rank
p=0.0021
Log-rank
p<0.0001
Months

FIG. 26B (cont.)

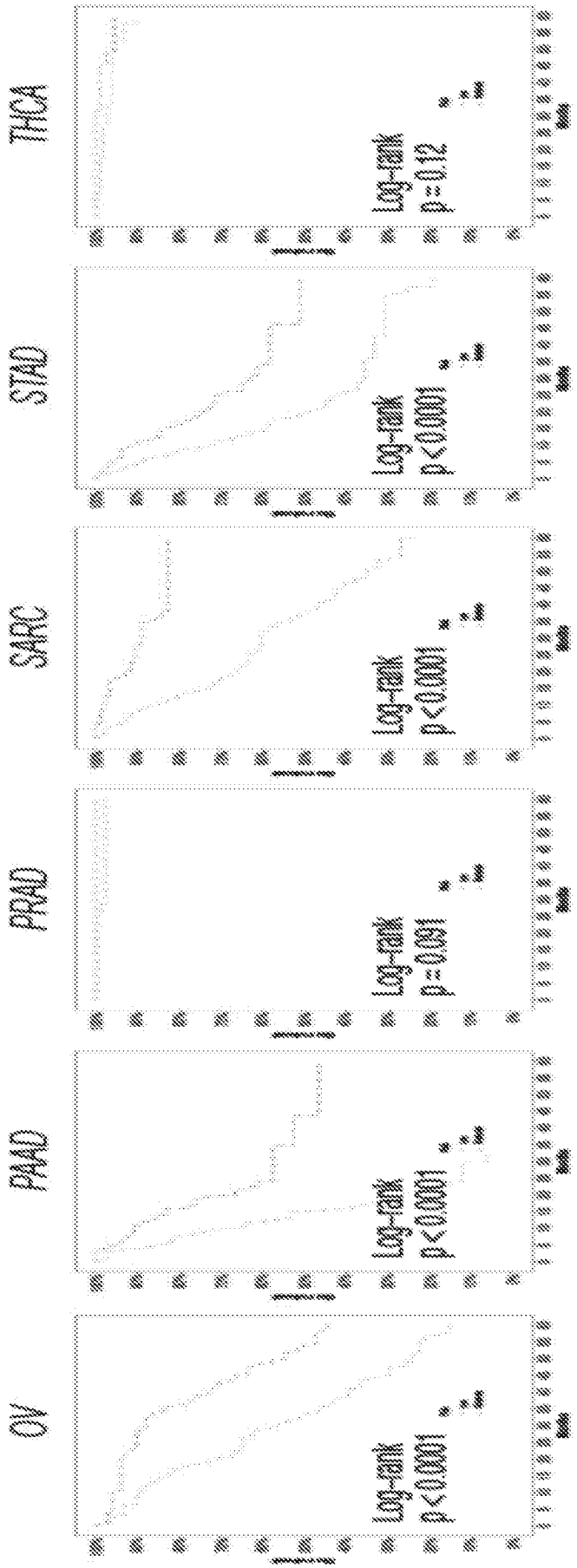

OV
Log-rank
p<0.0001
PAAD
Log-rank
p<0.0001
PRAD
Log-rank
p=0.091
SARC
Log-rank
p<0.0001
STAD
Log-rank
p<0.0001
THCA
Log-rank
p=0.12

FIG. 26B (cont.)

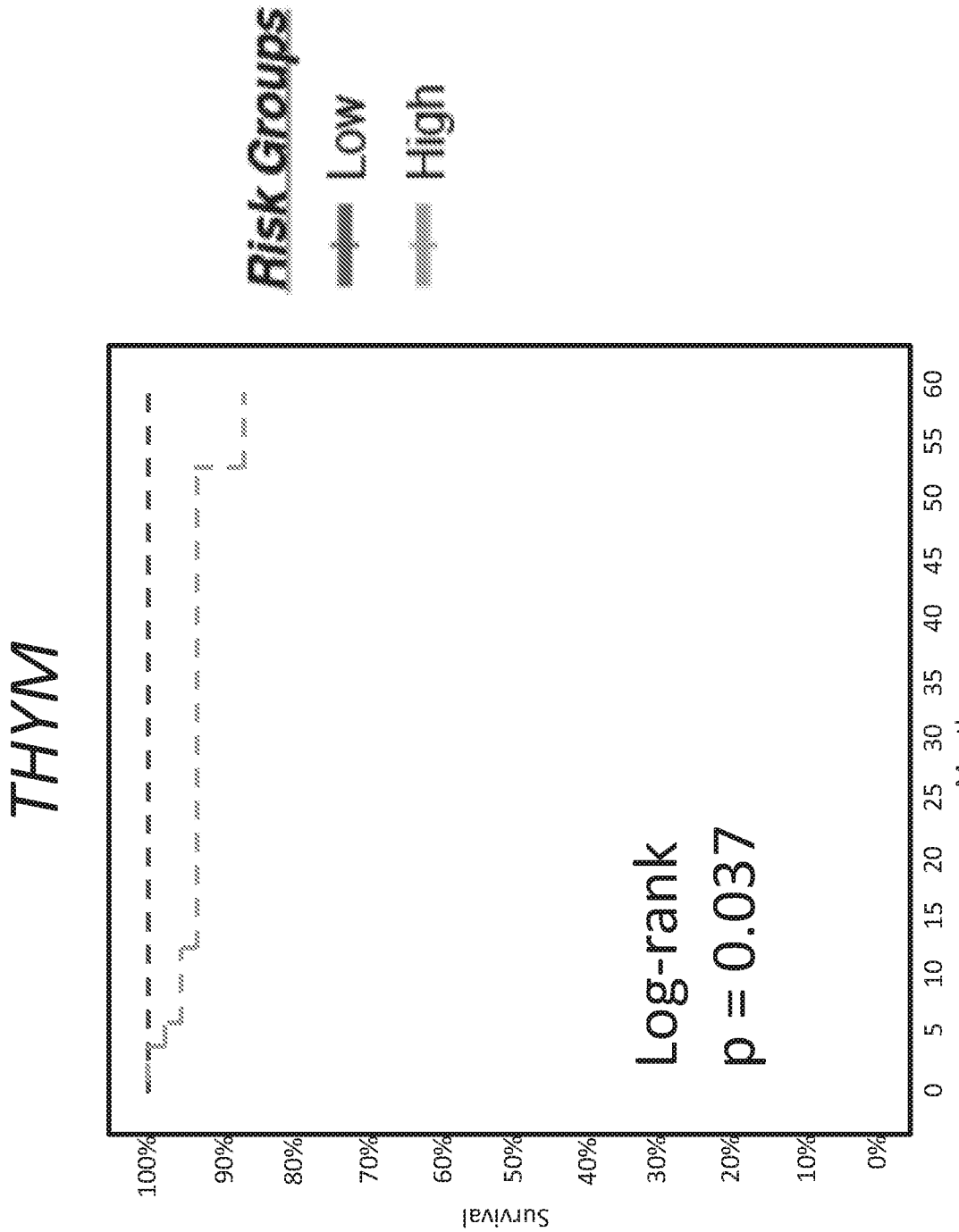

THYM
Risk Groups
Low
High
Log-rank
p = 0.037
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 26B (cont.)

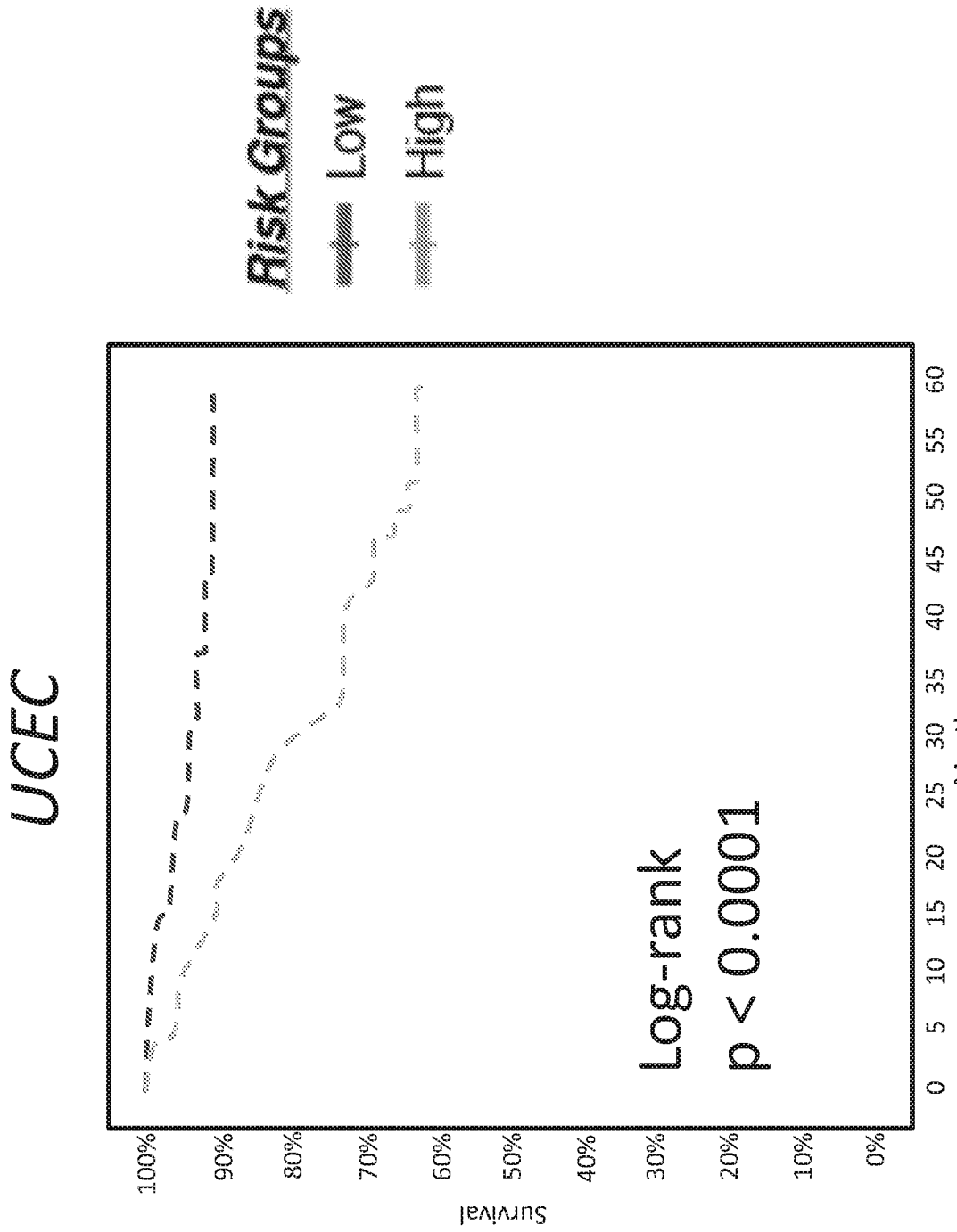

UCEC
Risk Groups
Low
High
Log-rank
p < 0.0001
Survival
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
5
10
15
20
25
30
35
40
45
50
55
60
Months

FIG. 26B (cont.)